Massachusetts Institute of Technology



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Webster, Green Chairs Elias, Adler Named to EE Professorships

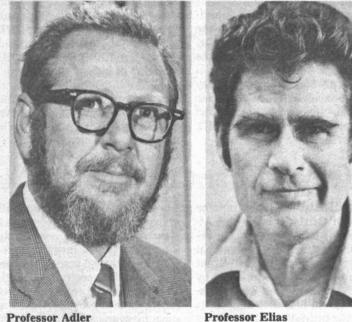
Professor Peter Elias, of Cambridge, who was the first professor in the Department of Electrical Engineering at MIT to hold the Cecil H. Green Professorship in Electrical Engineering, has been named Edwin S. Webster Professor of Electrical Engineering effective July 1.

In another appointment, also effective July 1, Richard B. Adler, of Concord, professor of electrical engineering at MIT since 1959, was named Cecil H. Green Professor of Electrical Engineering, succeeding the late Professor Samuel J. Mason, who held the chair from 1972 until his death last March. The appointment as Green Professor is for a two year term.

The Webster professorship, the first endowed chair in that department, will be occupied by Professor Elias as "an opportunity to continue (his) research into information theory as it applies to the problems of computer storage and manipulation of communications.'

Professor Elias, who was head of MIT's Department of Electrical Engineering from 1960 to 1966, has served as visiting professor at the University of California, Berkeley, and at the Division of Engineering and Applied Physics at Harvard. Building on the SB degree he received from MIT in 1944, he went on to earn the MA, MES and PhD degrees from Harvard in 1948, 1949 and 1950 respectively.

The research into information theory that claimed his devotion



Professor Adler

as a member of Harvard's Society of Fellows from 1950 to 1953 continued as a priority during his years of appointments as assistant professor in 1953, associate professor in 1956 and professor in 1960.

During his tenure as Cecil H. Green Professor of Electrical Engineering, Dr. Elias expanded his research objectives from communications as the efficient coding of information sources to communications as it relates to the storage and retrieval process of information by computers.

He will continue to explore this new dimension of communications theory as occupant of the Webster chair, which was established in

Joint Center Receives HUD Grants to Study Housing

The Joint Center for Urban Studies of MIT and Harvard University has been awarded two grants totalling approximately \$725,000 by the Department of Housing and Urban Development to analyze the evolution of neighborhoods within metropolitan areas and forecast the flows of people from region to region across the US.

Principal investigator to the two research projects will be Dr. David Birch, who has been appointed to the MIT Faculty as. Senior Research Scientist in the School of Architecture and Planning, effective September 1. A major function of the appointment will involve administering studies housed in the Joint Center for Urban Studies and the new MIT Laboratory of Architecture and Planning.

Dr. Birch, who has held the rank of associate professor at Harvard Business School since 1970, was appointed Harvard research associate in 1964 and assistant

idea of eating squid for it to be a

profitable seafood item in this

country, at least for the immediate

Paul Kalikstein, a graduate stu-

dent in MIT's Alfred P. Sloan

School of Management, analyzed

the availability and potential

market for squid, reported results of taste tests of squid products and

(Continued on page 4)

professor in 1966. He received the AB and MBA degrees from Harvard in 1959 and 1962 respectively and the DBA degree in 1966.

His neighborhood study will attempt to explain and anticipate the process by which neighborhoods evolve and eventually decay and sometimes are rehabilitated.

Significant components of the 33-month study into the problems of Neighborhood Evolution and Decay will be interview-based fieldwork in six metropolitan areas and a detailed classification of selected neighborhoods according to age of housing stock, price trends in housing units, racial composition, prevalence of crime and quality of public services. National trends that will figure in the study include the shift in manufacturing employment from city to suburb, court decisions on racial integration in schools and a general tightening of the mortgage market.

"We are all concerned about the decay of older neighborhoods and the abandonment of perfectly decent housing when neighborhood conditions become substandard," Dr. Birch says. "Since many of the pressures causing a neighborhood to decline lie outside the neighborhood itself, it is virtually impossible to explain and predict the decay and abandonment of a particular neighborhood through the study of that neighborhood alone. We must look at the total network of neighborhoods within the region for an answer."

A second study on Inter-Area Migration, to be conducted over an (Continued on page 3)

56 to Serve on Staff **Classification** Committees

The Institute's Staff Classification Program has moved into a new phase with the appointment of 56 persons to six functional committees.

committee members, The named by the program's Steering Committee, were chosen after a careful selection process. The goal was to form committees with wide representation from across the Institute.

The functional committees will begin their work in early Septemifications, with each committee analyzing a particular functional grouping of classifications.

The committees will examine the classifications by means of the program's point count system, using the results of the Benchmark Committee's review as a reference against which to compare their work.

The Benchmark Committee has reviewed 46 classification descriptions in detail to analyze entry qualifications, job content, the degree of difficulty and the impact of the job on the end results of the Institute. Using the point count system, the committee then ranked the classifications accordingly.

"I'm not interested in setting any precedent, really. I'm just temperamentally unsuited to a

1953 to honor the founder of the

country's first electrical engineer-

ing consulting firm. In cooperation

with classmate Charles Stone,

Edwin S. Webster of MIT's Class

of 1888 incorporated the firm that

(Continued on page 3)

American fishermen could

make a tidy profit fishing for

squid-but not for American din-

ner tables, according to an MIT re-

A just-published study funded by

the MIT Sea Grant Program

shows that squid would make an

excellent export product to Eu-

rope, but that Americans are too

negatively disposed toward the

searcher.

Marketing Problems Face

Squid in US, But Not Abroad

future.

desk job in the summer.' Eileen S. Schaffer was standing next to her lawn mower in the shade of a pine tree near Rockwell Cage. A sophomore from Van Nuys, Calif. in earth and planetary sciences, she is the first woman to work as a member of the Physical Plant grounds crew.



ber. They will examine an approximate total of 160 staff class-

Wiesner Joins Détente Group

President Jerome B. Wiesner is among a group of prominent Americans who have formed a committee to support "the present trend toward the improvement of American-Soviet relations."

The formation of the committee was announced in Washington, where spokesmen said its objective was to combat anti-détente views expressed by Senator Henry M. Jackson of Washington and others.

The 38 founding members of the group-the American Committee on US-Soviet Relations-describe it as a non-partisan, non-governmental body. They include many (Continued on page 3)

The Benchmark Committee is now in the process of completing a final review of its work. It is expected that these results will go to the Steering Committee for review and approval at the end of this month.

The members of the functional committees are:

Committee A

Arthur Beals, Housing and Food Services; Robert E. Durland, Purchasing Office; John M. Fresina, Safety Office; Joseph F. Lynch, Housing and Food Services; Julia C. McLellan, Admissions Office; Howard F. Miller, Physical Plant; Vernon A. Raine, Graphic Arts Service, and Alice M. Seelinger, (Continued on page 6)

Her assignment covers Briggs Field, duPont Gymnasium and Rockwell Cage. On clear days she barbers the outside areas-pruning, weeding, and mowing the grass. She also works inside the buildings keeping them clean.

"I really like the job-it's a good rest for my brain, keeps it free and open after a year of books. Lots of women come by and say they wish they could be doing this kind of work. More women should do it and maybe more will apply now."

"The week I began, it was as if I had 30 fathers. The other crew men told me to take it easy, go at my own pace. None of them doubted I could do it or gave me a hard time."

One obstacle to the job was her small feet, size 41/2. Crew members are required to use safety shoes while using power mowers. Because there were no shoes to fit (Continued on page 3)



Photo by Rich Williams

Music Notes ~

International Musical Partnership Featured

By WILLIAM T. STRUBLE Staff Writer

Two concerts scheduled this week in Kresge Auditorium represent a continuation of an interesting international musical partnership.

Pianist John Buttrick and Israeli violinist Abraham Comfort, who were to perform Tuesday and who will appear again at 8 this coming Friday evening, were introduced to each other two years Friday will note the special tone of his violin, made by J.B. Guadagnini and dated 1741.

Mr. Comfort also teaches master class violin at the Winterthur Musikcollegium which, he says, is the oldest music foundation in Europe and which, in its 345-year history, has known the tread of Wagner, Richard Brahms,

Jailed Russians Planned to Lecture Here According to Professor Stanley

Two prominent Soviet scientists who were to have lectured in a special summer program at MIT last month couldn't make it-apparently for a very good reason. According to the MIT faculty member who invited them they had been jailed in Moscow.

Dr. H. Eugene Stanley, Helmholtz Associate Professor of Health Sciences and Technology and associate professor of physics, said that the scientists-Dr. Mark Ya Azbel and Dr. Alexander Voronel-were arrested in Moscow in mid-June and released July 5, together with a number of other Soviet scientists who had unsuccessfully applied for permission to emigrate to Israel.

Dr. Azbel is the former department head at the Landau Institute of Theoretical Physics, and Dr. Voronel is formerly of the Institute of Physical-Technical and Radio-Technical Measurements. They were to have lectured at a summer seminar "Biomedical Physics and Biomaterials Science" at MIT June 17-21.

A \$710,000 federal grant from the

National Oceanographic and At-

mospheric Administration, repre-

senting continued institutional

support for the MIT Sea Grant

Program, has been announced by

the US Department of Commerce.

from the Institute, from the Henry

L. and Grace Doherty Charitable

Foundation, Inc., and from in-

dustries, regional agencies, and

cooperating institutions, means

the program will have total

financial support of more than

\$1,250,000 in the current fiscal

The awarding of the grant

marks the third year of support for

MIT's Institutional Sea Grant Pro-

gram by the National Sea Grant

Program, which is part of the

National Oceanic and Atmos-

The director of the MIT Sea

Grant Program is Dr. Ira Dyer,

who is also head of the Institute's

Department of Ocean Engineer-

The Program's executive officer

is Dean A. Horn. Advisory

Services are headed by E.R. Pari-

ser, who is also Senior Research

Scientist at MIT in the Depart-

ment of Nutrition and Food Sci-

The MIT Sea Grant Program

promotes the balanced utilization

of the natural resources of the

oceans and coastal zones through

its three areas of activity: re-

search, education and training,

Among its specific research

goals is the completion, by 1976, of

and advisory services.

pheric Administration.

year.

ing

ence.

The grant, plus matching funds

the two scientists were jailed to prevent the holding of an international seminar in the Moscow apartment of Dr. Voronel. The Moscow seminar was conceived by an international board of sponsors, including 13 Nobel Laureates and Dr. Benjamin Lax, **Professor of Physics and Director** of the Francis H. Bitter National Magnet Laboratory. The seminar was planned as a demonstration of the rights of all scientists to communicate knowledge freely, and Soviet academicians as well as those waiting to emigrate were invited, said Professor Stanley. Included in the 120 scientists from around the world who applied for visas to attend were Professor Stanley, Dr. Elliott H. Lieb, MIT professor of mathematics and physics, and Dr. George Wald, professor of biology at Harvard.

Professor Stanley decried the jailing of the scientists. "I believe that an important issue here is that the Soviet Union is damaging

a predictive hydrodynamic model

of the sea environment of greater

Massachusetts Bay, including

NOAA Grant to Support Sea Grant

already existing scientific agreements by arresting our Moscow colleagues and preventing the free flow of purely scientific information.

"There is a subtle but important distinction between interfering in the affairs of another country, which I am not advocating, and supporting the right of creative scientific endeavor to be unaffected by national peculiarities," Professor Stanley said. "The Soviet government, in wishing to obtain information from us on their terms, but not allowing us access to certain of their scientists solely because they wish to emigrate, is endangering scientific inquiry-not only at MIT, as in this case, but everywhere."

According to Professor Stanley the Soviet physicists still have plans to visit MIT, but, as Dr. Azbel put it in a letter to Professor Stanley in accepting his invitation to lecture at MIT," you probably know that my participance... depends not only on my wish."

Mirrored in the glossy finish of MIT's new concert piano, Israeli violinist Abraham Comfort and pianist John Buttrick rehearse for this week's concerts in Kresge Auditorium.

ago in Switzerland, where Mr. Comfort is concertmaster of the Winterthur Concert Society.

When they first played together informally, they discovered an extraordinary musical compatibility-"Everything worked," they said.

And when they formalized the association in public concerts, they received warm applause from reviewers in the Swiss press. A Zurich critic, in particular, wrote an unrestrained accolade of an all-Reger concert which they played last summer in commemoration of the 1973 centennial of Max Reger's birth.

Mr. Comfort, who arranged his holidays this summer to permit this week's performances with Mr. Buttrick at MIT, was formerly solist and concertmaster of the Israel Chamber Orchestra and has performed in recitals and as a soloist with orchestras in the US and Europe. Concertgoers on

Earls to Compose **Bicentennial** Opera Strauss, Stravinsky, Hindemith and Alban Berg, among others.

Mr. Buttrick, who is director of music at MIT and well-known to MIT audiences, has performed for several years in annual concert tours of Europe, in recitals, in radio broadcasts and as soloist with orchestras in major European cities.

In the MIT concerts, Mr. Buttrick plays the Institute's new concert piano, a sonorous Bösendorfer, made in Vienna, which was acquired last year. "Surely the most glamorous-sounding piano in town," the Boston Globe said of it recently.

For the Friday concert, which is part of the fourth annual Festival of Summertime Chamber Music, Messrs. Comfort and Buttrick will offer sonatas by Brahms, Schubert and Beethoven. The concert is sponsored by the MIT music section and is free and open to the public. Parking will be available for concertgoers in MIT's West

Garage on Vassar Street.

Cape Cod Bay. The model will provide the exchange processes baseline for a wide spectrum of parallel and sequential research efforts for resource development, coastal zone management and pollution control.

MIT Sea Grant, which has completed a pilot study on the potential economic and environmental impact of off-shore petroleum resources on New England, plans to

Two recent MIT Sea Grant publications offer a close look at MIT's role in studying the oceans.

"A Report on the MIT Sea Grant Program For July 1, 1972 to June 30, 1973" explains MIT Sea Grant research in detail.

"Directory of MIT Research Projects Related to Marine Resources, Ocean Utilization, and Coastal Zone Management" gives a broad look at MIT ocean-related research.

Both publications are available from the MIT Sea Grant Office, as publications numbered 74-23 and 74-22, respectively.

continue other specific off-shore oil studies, including studies of multi-purpose off-shore platforms and of oil-spill transport by wind, waves and ocean currents.

Other Sea Grant projects include continued research on the use as food of underutilized living marine resources such as squid, on the structure and possible use of the chitin contained in waste crab, lobster and shrimp shells and on the cholesterol content of fish and shellfish.

The second phase of underwater welding research will be directed toward the development of improved equipment based on the results of the fundamental research project completed last year.

Projects scheduled for completion in this fiscal year include development of an improved hook-up block for side trawling fishing boats and a study of the fracture mechanics affecting the fiberglass reinforced plastics used for boat hulls.

The Sea Grant Program also plans to develop an Ocean Engineering-Law Studies program that will strengthen what program officials consider to be a nationally deficient area for educational opportunities.

Through conferences, publications, research reports, the media, and personal contacts, Sea Grant's Advisory Services will continue to bring to industries, state and local government, organizations and the public information on research advances from MIT's and other Sea Grant programs and on marine and coastal zone affairs.

The Program's Marine Resources Information Center will continue its reference and referral services and is open for public use Monday through Friday.

MIT Sea Grant is in its second year of a cooperative effort with the University of Massachusetts. Among their joint efforts are aquaculture engineering advisory services and a study on the use of heated power plant effluent in an intensive oyster aquaculture finishing plant.

Composer Paul Earls, visiting lecturer in humanities and fellow at the MIT Center for Advanced Visual Studies was recently awarded a fellowship by the National Endowment for the Arts to further his work on a chamber opera, scheduled to premiere during the Bicentennial year.

The opera, Earls's second, is called "The Death of King Phillip." Romulus Linney is the librettist.

The work is based on an historical Indian uprising against colonists in the Connecticut Valley during the 1670's led by King Phillip, son of Massasoit of the Wampanoag tribe. The opera's musical form will incorporate a mix of 20th century electronic components.

Pianists Nicholas and Trudy Van Slyke will perform J.S. Bach's Art of the Fugue at 8pm Tuesday, July 23, in the fifth concert of the current Festival of Summertime Chamber Music. The work will be performed in an arrangement for two pianos made by Mr. Van Slyke, who is director of the Longy School of Music.

Mr. Van Slyke received bachelor and master's degrees from Harvard University where he studied composition with Walter Piston and piano with George Reeves and David Bacon. He hs been director of the South End Music Center, conductor of the Quincy Symphony, and a member of the faculty of the Harvard Graduate School of Education. His compositions are published by Schirmer, General Music Publishing, and Amherst Music Publications.



March Hare, Doormouse and Mad Hatter get together in preparation for the MIT Community Players' original production, "Alice," based on Lewis Carroll's Alice's Adventures in Wonderland. Playing those parts in the theater-in-the-round presentation will be, left to right, Daniel Gordon, a 1970 MIT graduate, Thomas Good, and Barbara Simon. Performances in the mezzanine lounge in the MIT Student Center will be at 8pm Friday, July 26; 4pm Saturday, July 27; 2 and 4pm Sunday, July 28; and 8pm Friday, August 2. Tickets at \$1.50 will be on sale in the lobby of Building 10 starting July 22. Reservations may be made by calling 25(3-4720).

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HUD Grants to JCUS

(Continued from page 1) 18-month period, will involve a similarly detailed analysis of persons moving from one urban or rural area to another and the reasons governing their choice of location.

"It is known that a major determinant of neighborhood change is the pressure that migrants from outside the metropolitan area create," Dr. Birch writes. "Different kinds of people need different kinds of houses, schools, utilities and hospitals; yet we know very little about what the composition of migration flows look like."



Dr. David L. Birch.

Participating in the HUD-supported research into the Problems and Purposes of Inter-Area Migration are national, state and local planning agencies, housing contractors, natural resource managers and neighborhood coalition groups as well as the Oak Ridge National Laboratory and the University of Indiana.

The second research project on the causes of Neighborhood Evolution and Decay will utilize a mathematical and behavioral model of neighborhood evolution. Combining recognized statistical techniques and data from individual sample neighborhoods, the model will help update concepts of what cause neighborhoods to shift over time.

Persons who will be surveyed to determine what governs their behavior include homeowners, landlords, builders and developers, lenders, politicians, public administrators and insurance and real estate brokers. Director of the MIT-Harvard Joint Center for Urban Studies, which is administering the research projects, is Bernard J. Frieden, Professor of Urban Studies and Planning at MIT and author of the book *The Future of Old Neighborhoods*. William L. Porter, Dean of the School of Architecture and Planning at MIT, is director of the Laboratory of Architecture and Planning, under whose auspices Dr. Birch will be conducting part of his research.

"The work on migration and neighborhood change relates naturally to the Joint Center's long-term concern with housing needs in this country," Dr. Frieden said. "Our field work to date strongly suggests that decaying neighborhoods and migration trends play a large role in determining how many housing units will be needed by Americans in years to come. Now we have the opportunity to measure how big the effect really is."

Dr. Birch, who has served as consultant to the National Science Foundation, Oak Ridge National Laboratory, the Ford Foundation, the US Chamber of Commerce and the Committee for Economic Development, is author of The Economic Future of City and Suburb and most recently, Patterns of Urban Change.

Dean Porter said, "We hope this new affiliation with Dr. Birch will bring about closer ties between significant current research and the educational program of MIT's School of Architecture and Planning.

Student Gardener

(Continued from page 1) her, Allan F. Bianco, the Physical Plant athletic facilities coordinator ordered some special metallike clogs made to her size.

"The shoes look funny and the day campers tease me about them," she said.

Ms. Schaffer is five feet two inches and not the figure of strength that some members of the grounds crew are. "But the muscles are there and they are in good shape." she said.

A gymnast during the school months, she has given up working out on the uneven parallel bars for the summer. "I mostly like to read after I get through with this work," she explained with a smile. The following editorial appeared in The New York Times, Monday, July 8, in response to recommendations that a Council for Science and Technology be established in the Executive Office of the President. The recommendation was presented last

The Science Gap

From the energy crisis to Soviet MIRV multiple warhead missiles, the United States today is confronted by a plethora of dangers that with foresight might well have been headed off. Failure to perceive the true dimensions of these threats and to act upon them in time reflects, in part, the absence of an effective system for funneling top-grade scientific advice directly and quickly to the White House.

The system of a Presidential science adviser with direct access to the Chief Executive—aided by an Office of Science and Techhology and a broad-gauged advisory committee drawn from the nation's most eminent researchers and engineers — was initiated by President Eisenhower after the sputnik scare of 1957. It was expanded by President Kennedy, fell into disuse toward the end of the Johnson Administration, and was eventually abolished by President Nixon.

Questions of armament and disarmament, which dominated the work of the President's science advisers in the Eisenhower Administration, were turned back to the Pentagon, the Atomic Energy Commission and the Central Intelligence Agency. Civilian science problems were relegated to the National Science Foundation, whose chief lacks direct access to the President.

Would the United States, given better scientific advice to Mr. Nixon, have rushed ahead with MIRV multiple

month to the House Committee on Science and Astronautics by Dr. James R. Killian, Jr., chairman of a panel of the National Academy of Sciences which drew up the proposal. Dr. Killian is honorary chairman of the MIT Corporation.

warheads—which it invented and which now endanger the United States—deploying more than 5,000 before opening serious negotiations with the Russians on MIRV limitations? Would not action have been undertaken years ago to deal with the energy, food and transportation shortages that have been long predicted and are now upon us? No one can be sure that the scientists would have been more far-seeing than other policymakers or that the President would have taken their advice, but the chances would certainly have been improved.

The need for an "early warning" system on sciencerelated policies is one of the major arguments for revival of high-level science advisory machinery in Washington. It is the view urged on the President by a blue-ribbon panel named by the National Academy of Sciences to study the problem.

The panel, headed by Dr. James Killian, former president of the Massachusetts Institute of Technology, proposes creation of a three-man Council for Science and Technology with a policy role similar to that of the Council of Economic Advisers. Its chairman, with direct access to the President, would be a member of the Domestic Council, would attend meetings of the National Security Council, advise the Secretary of State on foreign policy matters affected by scientific considerations, work closely with the Office of Management and Budget in setting priorities for the Government's vast research expenditures and make an annual public report. This is one of the reforms of the Washington Administration that is urgently needed.

Elias, Adler Named

(Continued from page 1) has grown to become Stone and Webster, Inc., international research, engineering and securities corporation.

Professor Adler is the third MIT professor to hold the Green chair, which was established in 1970 by MIT alumnus Cecil H. Green to help individual members of the Department of Electrical Engineering move into new areas of research.

Recognized for his work in semiconductor electronics, electromagnetic theory and circuit theory, Professor Adler received the SB degree from MIT in 1943. His first teaching assignment was at the MIT Radar School while he was serving in the US Naval Reserve. In 1946 he became a part-time staff member of the MIT Research Laboratory of Electronics until his appointment to the faculty as assistant professor in 1950. He received the ScD degree from MIT the previous year.

From 1951 to 1953 Dr. Adler was head of the MIT Lincoln Laboratory Solid State and Transistor Group, and in 1955, he was named associate professor. His affiliation with the Research Laboratory of Electronics continued until 1962 when he joined in the development of the Energy Conversion and Semiconductor Laboratory of the MIT Center for Materials Science and Engineering.

He devoted the early sixties to serving as technical director of the Semiconductor Electronics Education Committee (SEEC), which has developed multipurpose educational materials for use at the middle undergraduate college level and beyond.

Professor Adler, who is a native of New York City, was presented the Journal of the Royal Aeronautical Society Premium Award in 1955 and MIT Sloan Awards for Teaching in 1955 and 1956. Coauthor of seven books and numerous technical papers, he has been a Fellow of the American Academy of Arts and Sciences since 1964.

Johnson Wins Eckman Award

Timothy L. Johnson, Edgerton Assistant Professor of Electrical Engineering at MIT, has received the 11th Donald P. Eckman Award, presented at the 1974 Joint Automatic Control Conference which was held in Austin, Texas in June.

The Donald P. Eckman Award is awarded annually by the American Automatic Control Council to a young researcher under 30 years of age for outstanding contributions in the field of automatic control. Professor Johnson, 28, of Watertown, received the award for his contributions to modern control theory, and its applications to aerospace and biomedical systems, as well as for his outstanding academic career at MIT and his contributions to the IEEE Control Systems Society.

Professor Johnson joined the MIT faculty in September 1972 after completing his doctoral research in the Decision and Control Sciences area of Electrical Engineering.

Wiesner Joins Détente Group

(Continued from page 1) persons usually critical of President Nixon.

Dr. Wiesner, a scientific advisor to President Kennedy, told a press conference the group intended to speak out in the growing public debate over the value of détente and to educate the American people on issues such as trade and arms control.

Benton Cancell, former president, Potlach Forest Paper Company. A.W. Clausen, president, Bank of America.

Richard W. Colburn, Rolled Alloys, Inc. Patrick Crowley, Chicago lawyer. Dr. William Davidson, director, Institute for

Psychiatry and World Affairs. Kirk Douglas, the actor.

Dr. Jerome D. Frank, professor of psychiatry, Johns Hopkins.

Edward L. Freers, former embassy official, Moscow.

Philip S. Gilette, professor of political science, Rutgers. Marshall I. Goldman, professor of eco-



The first group of Chinese laser physicists to visit the US were at MIT July 3 for a briefing on laser research projects. From the left are MIT Physics Professor Kerson Huang; Tu Chih-hsin, Darien Institute of Chemical Physics, Liaoning Province; Mrs. Hsu Ta-wen, Laser Technics Experimental Station, Shanghai; Horace Mitchell, US State Department; Michael S. Feld, associate professor of physics at MIT, and Ali Javan, professor of physics at MIT. Professors Javan and Feld acted as hosts to the group, which was headed by Professor Wang Ta-Heng of the College of Optics and Fine Mechanics in Changchun. Professor Javan is autographing a volume of collected papers on laser research which he edited in association with Professor Feld and Norman A. Kurnit, assistant professor of physics at MIT. Copies of the volume were presented to the visiting physicists. He said the committee was the idea of Professor Fred Warner Neal of Claremont Men's College in California, a specialist on Soviet affairs. Financing has come from individual members, he said.

John Kenneth Galbraith of Harvard said the group didn't want détente to become a partisan issue—the property of Republicans—at a time when there has been widespread opposition to Nixon."

The committee's executive board consists of Galbraith, Kenneth W. Thompson, director of the International Council for Educational Development; Edward Korry, a former ambassador; Donald M. Kendall, chairman of Pepsico, Inc., and Charles W. Rhyne, a Washington attorney.

Others on the committee are:

Charles Benton, president of Encyclopedia Britannica Films.

Harold J. Berman, Harvard Law School.

nomics, Wellesley.

The Rev. Theodore W. Hesburgh, president, Notre Dame.

Robert M. Hutchins, chairman, Center for Study of Democratic Institutions.

Wassily Leonitief, professor of economics, Harvard.

Eugene McCarthy, former Senator from Minnesota.

Michael Michaelis, Washington manager, Arthur D. Little, Inc.

Sheldon T. Mills, former ambassador. Rabbi Stanley Rabinowitz, Washington. Edwin O. Reischauer, professor of history, Harvard.

Dr. Howard P. Rome, Mayo Clinic, president, World Association of Psychiatrists. Robert V. Roosa, former Under Secretary of the Treasury.

Terry Sanford, president, Duke. Raymond L. Thurston, former ambassador. James J. Wadsworth, former ambassador. Thomas Watson Jr., I.B.M. Harold Willens, chairman, Factory Equipment Corporation. Herbert F. York, department of physics,

University of California, San Diego. Paul Ziffren, lawyer. Nicholas Nyary, president, Fund for Peace.

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Events of Special Interest

A Festival of Summertime Chamber Music* - Sponsored by the MIT Music Section. Program of Mozart & Brahms with Abraham Comfort, Israeli violinist, and John Buttrick, pianist. Fri, July 19, 8pm, Kresge. Free.

Summer Wargaming Mini-Con - Sat. July 20, 9am on, 2nd & 3rd fl, river side Walker Memorial (enter bsmnt). Including armed & naval miniatures, tactics pi, Waterloo, open "Dunnigan" competition, starlord, diplomacy. Registration: \$1.

A Festival of Summertime Chamber Music* - Sponsored by the MIT Music Section. Nicholas and Trudy Van Slyke performing Bach's The Art of the Fugue. Tues, July 23, 8pm, Kresge. Free.

Seminars and Lectures

Friday, July 19

NASIC Demonstrations - Of COMPENDEX (Engineering Index) and NTIS (National Information Service) data bases. 10am, Barker Engineering Library. Free.

Tuesday, July 23

Launch Capabilities for Space Missions of the Four-and Five-Stage Scout Vehicle* – John J. Pacey, manager, space programs requirements, LTV Aerospace Corporation. Astrophysics Colloquium. 3:15pm, Rm 37-252. Coffee 3pm.

Friday, July 26

Study of Elastic-Plastic Analysis by Assumed-Stress Hybrid Finite-Element Model* - Robert L. Spilker, G. Aero/Astro Doctoral Thesis Seminar. 10am, Rm 33-206.

Community Meetings

Women's Forum - Meet with the Steering Committee to make plans for the fall. Mon, 12n, Killian Court; bad weather, Rm 10-280.

PL/1 Checkout Compiler Workshop** - Information Processing Center course. July 22, 24, 26, 29 & 31, 10am-12n lecture/ discussion, 2-5 pm console sessions, Rm 39-500. Enrollment is limited, pre-registration required. Fee: \$10. Register, Lynne Penney, Rm 39-427, x3-6320. Open to any member of community with PL/1 programs to be debugged.

MIT Club Notes and Meetings

Bridge Club* - ACBL Duplicate Bridge. Open pairs Thurs, 7pm; tournaments Sat, 1:30pm; Stu Ctr Rm 473. Jeff, 864-5571.

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

Classical Guitar Society - Classes, group or private. Mon, Tues, & Wed, 5-9pm; Rm 1-132, 134, 136. New group class for beginners every month. Vo Ta Chuoc, x9623 Dorm.

Freshman Picturebook** - TCA project. Meeting to start work on the Picturebook will begin Mon, July 29, 7:30pm, TCA Office, Stu Ctr Rm 450, and continue throughout the week until completed. Everyone is welcome; we'll be typing, pasting up. Info, x3-4885, 12n-2pm.

Goju Karate Club* - Beginners enter class first week of each month. Classes Mon, Wed, 7-9pm; fri, 7-10pm; 4th fl Stu Ctr. Terry Gibbs, 440-9631

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

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

Scuba Club*** - Summer compressor hours: Mon & Thurs, 3-5pm.

Strategic Games Society* - Offers opponents and discounts on merchandise to members plus gaming and periodical library. Sat, 1pm-1am, Walker Rm 318. Info, Kevin Slimak, x0389 Dorm.

Tiddlywinks Association* - Tues, 7:30pm, Stu Ctr Rm 407.

Social Events

Summer 12-Hour Coffeehouse - Currently open Mon-Fri, 9am-2pm and 5pm-12m; Sat & Sun, 12n-12m. Enjoy relaxing, conversation, piano playing, games, inexpensive food candy & drinks. Stu Ctr 2nd fl center lge.

Movies

Wizard of Oz - LSC. Fri, July 19, 7 & 9:30pm, Rm 10-250. (Watch for signs on hot nights indicating showings in Rm 26-100). Admission 50 cents.

Port of Call (Bergman) - Film Society. Fri, July 19, 7:30 & 9:30pm, Rm 6-120. Admission \$1.

The General* - LSC. Sat, July 20, 7:30 & 9:30pm, Rm 10-250. (Watch for signs on hot nights indicating showings in Rm 26-100). Admission 50 cents.

Aadmi Aur Insaan - SANGAM. Indian film with subtitles. Sun, July 21, 3:30pm, Kresge. Admission 50 cents with ID. Refreshments.

Ten Little Indians - LSC. Fri, July 26, 7:30 & 9:30pm, Rm 10-250. (Watch for signs on hot nights indicating showings in Rm 26-100). Admission 50 cents.

Dharma* - SANGAM, Indian movie with subtitles. Sat, July 27, 6:30pm, Rm 6-120. Admission 50 cents with ID. Refreshments.

Thirst (Three Stange Loves) - Film Society. Directed by Bergman. Fri, July 26, 7:30 & 9:30pm, Rm 6-120. Admission \$1.

Topkapi - LSC. Sat, July 27, 7 & 9:30pm, Rm 10-250. (Watch for signs on hot nights indicating showings in Rm 26-100). Admission 50 cents.

Dharma* - SANGAM. Indian movie with subtitles. Sun, July 28, 3:30pm, Kresge. Admission 50 cents with ID. Refreshments.

Theatre

Old Ways in the New World* - More than 30 Tunisian artists will perform as part of a national outreach program of the Festival of American Folklife. Wed, July 17, 8:30pm, Kresge. Tickets: \$4, general admission; \$2.50 students with ID's; at the door.

Dance

Folk Dance Club* - International, Sun, 7:30-11pm, Sala. Balkan, Tues, 7:30-11pm, Stu Ctr Rm 491. Israeli, Thurs, 7:30-11pm, Sala. Afternoon Dance Break, Fri, 12:30-1:30pm, Kresge Oval.

Exhibitions

Music Library Exhibit - Chinese musical instruments.

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.

Be-Ing Without Clothes* - Theme show created by Minor White while director of the Creative Photography Gallery. Hayden Gallery, Thru Fri, Aug, 30. Hours: 10am-4pm weekdays, 12n-4pm weekends.

Hayden Corridor Gallery* - Modern prints from the Catherine N. Stratton Collection, including works by Robert Motherwell, Claes Oldenburg, Victor Vasarely, Larry Rivers and Frank Stella, Sponsored by Committee on the Visual Arts, thru Fri, Aug 30. Free.

Athletics

Community Softball League Schedule - Games start at 5:30pm, Briggs Field, at the field number indicated after the team names. Home teams are listed second. Wed, July 17 - Dodgers vs Comets, 5; Miscellaneii vs Charlie Browns, 6. Thurs, July 18 - Ashdown vs LCA, 4; Food & Nuts vs No Names, 5; Baker vs Economics, 6; MacGregor vs Turkeys, 7. Mon, July 22 – Draper vs Metallurgy, 4; Fantoms vs EE, 5; Comets vs Nutrition, 6; Charlie Browns vs Hydros, 7. Tues, July 23 - OR Center vs Baker, 4; MacGregor vs Miscellaneii, 5; Chemistry vs Ocean Engg, 6. Wed, July 24 - SAE vs Dodgers, 5; Food & Nuts vs Turkeys, 7. Thurs, July 25 - Economics vs Ashdown, 4; No Names vs Motleys, 5; LCA vs Nine Planets, 6. For latest info, keep posted at duPont equipment desk bulletin board. League Commissioner, Sam Benichassa, x8-3686 Draper.

Religious Services and Activities

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

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

Christian Science Organization* - Meetings which include the sharing of healing experiences every 2nd & 4th weeks of the month, Tues, 7:15pm, Rm 8-314.

Islamic Society* - Fri, 1pm, Kresge Rehearsal Rm B.

Roman Catholic Mass* - Sun, 10am, Stu Ctr West Lge.

United Christian Fellowship* - Singing, sharing, praying meeting) Thurs, 7pm, Westgate 708.

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

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

Send notices for July 24 through August 4 to the Calendar Editor Room 5-111, Ext. 3-3279, before noon Friday, July 19.

ADP-IV Seeks Applicants

Applications for the fourth session of the Administrative Development Program (ADP IV) are now available in the Office of Personnel Development (Room E19-220, ext. 3-4076). Classes for ADP IV are tentatively scheduled to meet on Friday afternoons from 1:30 to 5:00 beginning the first week in October.

The Administrative Development Program is a two phase program for administrative staff (including DSR and Lincoln), exempt administrative staff, and library and academic administrative staff.

Applications for ADP IV are due in the Office of Personnel Development on or before August 31, 1974. A subcommittee of the Personnel Policy Committee will select approximately 30 participants from the applicant pool of past and new applicants.

Because one of the objectives of the program is to provide for an exchange of ideas and experience between administrators from different parts of the Institute, different levels of responsibility, and different backgrounds, the subcommittee will aim for a broadly representative group.

Squid Widely Consumed Abroad

alists' attitude toward squid.

According to Kalikstein, the potential for squid fishing is enormous. Only about twenty million pounds per year are landed off the million US-about eighteen pounds off the coast of California and two million pounds of the east coast. The potential catch off the east coast alone is enormous, says Kalikstein, the estimates ranging to one billion pounds per year.

The catch is that US consumers at present have little interest in trying squid products. A telephone survey revealed what Kalikstein perceived as a "poor attitude" toward squid as a food source, and only about 11 percent of the respondents in a mail survey said they would try a squid product. The report noted, however, that MIT researchers obtained "very favorable" results on taste tests. A panel of 70 tasters rated three squid products-fried squid rings, squid chowder and squid cocktail-uniformly excellent, Kalikstein said. All received between four and five on a five-point taste scale, with the chowder receiving almost all fives. The squid rings resemble scallops in flavor, the chowder mimics clam chowder, and the cocktail resembles oyster cocktail. This means, that while initial purchase would be low, repeat purchase of squid would be high, he said.

sers, brokers, fisherman, etc.-interviewed by Mr. Kalikstein were uniformly negative toward squid products.

"I would venture to say that people within the seafood industry were more negative towards the domestic introduction of squid than the general consumer population. Many longtime seafood businessmen were quick to state that a successful introduction of a processed squid product would be impossible," Kalikstein said.

Advertising to promote squid products would be both imprac-

would make an excellent export to Europe, however.

"It may come as a surprise to many Americans, but squid is a highly sought after food form in many areas of the world. Squid is particularly popular among the peoples of the Orient and the Mediterranean."

The rising price of squid on the European market, the increasing foreign squid fishing off the US east coast, and the recent international money realignments all combine to make US squid fishing a very attractive possibility, said

(Continued from page 1)

surveyed consumers' and industri-

The first phase of the program is devoted to organizational psychology and led by Dr. David E. Berlew, senior lecturer in organization studies at the Sloan School.

In the second phase John A. Currie, Director of Finances at MIT, and John F. Rockart, Associate Professor of Management at the Sloan School, discuss financial management.

Each of these sections meets for ten to twelve weeks. ADP began as a pilot program in the Spring of 1973 and has since completed two full cycles. The third group of participants (ADP III) has completed the organizational psychology section and will begin working with Currie and Rockart on financial management in the fall.

Applicants who have been deferred for the Administrative Development Program in the past will be contacted to determine whether they wish to be considered for ADP IV.

Erdely Concert

Violinist Stephen Erdely, a member of the MIT music faculty and his wife, Beatrice Erdely, a noted pianist, will give the final concert in the chamber music festival, Tuesday, July 30, 8pm, in Kresge Auditorium.

The Erdely Duo will present Mozart's Sonata in E. flat Major, K. 481, Beethoven's Sonata in F Major, Op. 24, Norman Dello Joio's Variations and Capriccio and Darius Milhaud's Second Sonata.

Fishing industrialists-proces-

tical and unproductive, Kalikstein said. Because the squid industry would start out as a relatively small one, it could not afford large-scale advertising, and because of the very negative initial reaction of the consumers in his survey, advertising could not change opinions enough to make squid commercially successful, he said.

Kalikstein did suggest that a low level of domestic squid product development might be possible, however. The marketing of cleaned, eviscerated squid might be successful because a considerable amount of kitchen work is necessary to clean squid, and this work might hinder squid consumption. Also, he said fast-food outlets might explore the marketing of breaded, fried squid rings, and other product development should continue.

According to Kalikstein, squid

Kalikstein.

Already, Kalikstein said, US exporters are eager for squid products, one saying that he could "export all I could get."

Mr. Kalikstein's research is part of a large-scale effort at MIT on developing squid as a viable seafood product. Nutritional analyses have already proved squid to be a high-protein, low-fat food, and MIT food chemists already have developed the three squid products used in the taste tests.

Last year the scientists announced development of a machine to eviscerate and skin squid up to three times faster than hand methods.

Kalikstein performed his research under the supervision of Dr. Gordon F. Bloom, senior lecturer at the Sloan School, and Dr. Samuel A. Goldblith, Underwood-Prescott Professor of Food Science.

Page 4, Tech Talk, July 17, 1974



Summer Skies

The MIT skyline, viewed from the Harvard Bridge, shows cirrus and altocumulus clouds behind the Cecil and Ida Green Building, left. The photo at the lower left shows altocumulus (the higher ones) and cumulus clouds. The view is across Kresge Plaza from the Student Center. Cumulus clouds frame the Institute domes, below.

Photos by Rich Williams





Tunisian Artists Perform

Traditional dances, songs and musical instruments of Tunisia will be performed by a company of more than 30 folk artists in an "Old Ways in the New World" program at 8:30pm today, July 17, in Kresge Auditorium.

The program will include Sulamiyyah and Qarqammah dancers and music in the traditional Ma'luf style.

The Kresge appearance is sponsored locally by the Non-Western Music Program at MIT, headed by Professor Donald Sur, in cooperation with the Massachusetts Council on the Arts and Humanities, the Massachusetts Bicentennial Commission, the Charlestown YMCA, and the Boston Major's Office of Cultural Affairs.

Ticket prices are \$4 for general admission and \$2.50 for students with identification. Tickets will be

and sold at the door.

The Tunisian troupe's performance is part of a national Festival of American Folklife Program sponsored by the Smithsonian Institution and the National Park Service.

The complete program, which includes five separate tours of artists from Scandinavia, Greece, Trinidad and Tobago, and Nigeria, as well as Tunisia, has been made possible through the assistance of the National Endowment for the Arts and is an official program of the American Revolution Bicentennial Administration.

In the Tunisian program, the Sulamiyyah dancers will be accompanied by percussionists playing on drums such as the bendir and darbukah that must be heated and reheated continually throughout the performance. Benjamin R. Martin Jr., hockey and lacrosse coach at MIT for 29 years, has retired.

The retirement was announced this week by Ross H. "Jim" Smith, director of athletics, who said a successor has not been named.

"Ben" Martin, an assistant professor of athletics, was the dean of New England college hockey and lacrosse coaches, having witnessed the growth of both sports in almost three decades of coaching.

In 1947, his first varsity hockey season at MIT after having served as assistant coach, the schedule included such formidable opponents as Harvard, Boston College, Boston University, Northeastern and New Hampshire.

"There were fewer teams in those days, but the talent on those teams was very obvious," he said. "The practice then was to dress fewer players, and that didn't hurt Through the years, however, MIT could not compete with the recruiting practices of other

us because of our lack of depth."

Ben Martin, Veteran Coach, Retires

schools and was forced to revamp its hockey schedule to remain competitive.. "We added teams that didn't have varsity status," he said, "like Massachusetts, Wesleyan, Merrimack, Connecticut. MIT started them off, and they haven't

fared too badly." When Martin started his coaching career at MIT, most of the home games were played in the Boston Arena, Boston Garden and Boston Skating Club. Since 1956, MIT teams have played on the Institute's outdoor artificial rink.

In 1962, Martin initiated the MIT round robin tournament, which proved to be the forerunner of the Eastern College Athletic Association's Division II Championship Tournament.

division teams together at a nominal expense during the winter recess," he said. "We didn't give team or individual awards for the tournament, just round robin competition without losing any class time."

In 1973, Martin received the Sheaffer Pen Award, presented annually by the New England Hockey Writers Association for "outstanding contribution to hockey."

It is lacrosse, however, that has always been Martin's first love.

Raised in upstate New York, he played high school lacrosse and was an all-American at Syracuse University in the mid-1930's. Later he became one of New England's top lacrosse officials.

His MIT lacrosse teams received national recognition in 1958 and 1959, capturing the Roy Taylor Trophy emblematic of the National College Division Lacrosse

Softball Standings

EAST			WEST				CENTRAL				
Team	W	L	Pct	Team	W	L	Pct	Team	W	L	Pct
Ashdown	5	0	1.000	Metallurgy	5	0	1.000	Hydros	5	0	1.000
Economics	5	0	1.000	Draper Lab	5	0	1.000	No Names	4	0	1.000
LCA	4	1	.800	Fantoms	4	1	.800	Motleys	4	1	.800
Baker	3	2	.600	E.E.	2	3	.400	Charlie Browns	3	2	.600
Nine Planets	5 2	3	.400	Comets	2	3	.400	Miscellaneii	2	3	.400
Ocean Engg	1	4	.200	Nutrition	1	3	.250	Food & Nuts	1	3	.250
Chemistry	0	5	.000	Dodgers	0	4	.000	Turkeys	0	5	.000
O.R. Center	0	5	.000	SAE	0	5	.000	MacGregor	0	5	.000

Last Week's Results

Ashdown 9	O.R. Center 3
Ashdown 11	Nine Planets 6
Economics 22	O.R. Center 5
LCA 10	Chemistry 8
Baker 20	Ocean Engg 10
	Chemistry 7

Metallurgy 15	Dodgers 11
Draper Lab 13	Fantoms 4
	Nutrition 7
Comets 7	SAE 0

No Names 13C	harlie Browns 11
Motleys 18	Turkeys 2
Hydros 12	MacGregor 3
Motleys 16	Miscellaneii 12
Miscellaneii 9	Food & Nuts 4

Extra umpires are needed for the playoffs. Call Sam Benichasa, Draper 8-3686 to sign up.



Coach Ben Martin

Championship.

Martin was selected as head coach of the North Squad for the annual post-season North-South All-Star Lacrosse Championship at Johns Hopkins in 1959.

All-American lacrosse players developed during his years at MIT include Marinos Gerakaris, '56, Charles Fitzgerald, '59, Joe Skenderian, '61, Steve Reimers, '69, Jack Anderson, '69, Walt Maling, '69 and Steve Cochi, '73.

Book Review

Dr. Joseph Weizenbaum, professor of computer science authored a critical review of B.F. Skinner's latest book About Behaviorism, in the July 14 issue of the New York Times Book Review Section.

Tech Talk, July 17, 1974, Page 5

Classification Committees

(Continued from page 1) Office of the Dean for Student Affairs.

Committee B

Laurence H. Bishoff, Medical Department; James J. Bishop, Office of the Dean For Student Affairs; William J. Hecht, Admissions Office; Suanne W. Muehlner, Libraries; John R. Rogers, Comptroller's Accounting Office; Ronald P. Smith, Registrar's Office, and Ronald S. Stone, Office of the Dean of the Graduate School.

Committee C

Mary Lou Atkinson, Urban Systems Laboratory; C. Frederick Bentley, Office of Sponsored Programs; Gertrude E. Burns, Sloan School; William J. Coady, Audit Division; Daniel H. Gould, Department of Physics; Joaquin B. Haley, Student Financial Aid Office; William E. Kelley, Fiscal Planning and Budget Office; John S. LaValle, Comptroller's Accounting Office; Robert E. Lee, Comptroller's Investment Administration; Winifred T. McDonough, Treasurer's Office, and Bruce K. Willard, Lincoln Fiscal Office.

Committee D

Cora H. Bartholow, Information

New Edition

The second edition of Organizational Psychology, An Experimental Approach, has been published by Prentice-Hall, Inc.

The authors are David A. Kolb, Irwin M. Rubin and James M. McIntyre. Mr. Kolb is an associate professor of management at MIT's Sloan School of Management. Mr. Rubin is a lecturer at the Sloan School.

CLASSIFIED

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 Insti-

tute 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

may be telephoned to Ext. 3-3270 or

mailed to room 5-105. Please submit

Dunelt m 3 spd bike, 26", gd cond,

Danish couch frame, \$10; dressers, \$12

& \$15; wardrobe, \$10; coffee tbl, \$16;

all ads before noon, Friday, July 19.

For Sale, Etc.

\$40. Tom, x3-4218.

Ads

presenting Institute identification.

ADS

Processing Center; Elizabeth J. Campbell, Laboratory for Nuclear Science; Robert C. Daley, Programming Development Office; Gary C. Dixon, Programming Development Office; Alice Drake, Office of Administrative Information Systems; Brenda Ferriero, Information Processing Services; Herbert S. Hughes, Project MAC; Martha M. Pennell, Planning Office; George N. Petievich, Physical Plant, and Gerald M. Ponce, Office of Administrative Information Systems.

Committee E

Kenneth C. Browning, Dean for Student Affairs; Thomas B. Duff, **Department of Nutrition and Food** Science; Ann B. Gordon, Office of the Dean of the School of Architecture and Planning; John W. Irvine, Department of Chemistry; Keating Keays, Department of Ocean Engineering; Barbara L. McCarthy, Research Laboratory of Electronics; John A. Mims, Admissions Office; Mary P. Rowe, Office of the President and Chancellor, and David S. Wiley, Analytical Studies Group. **Committee F**

Allan S. Bufferd, Alumni Association; Jacqueline M. Findlay, Alumni Association; Kathryn W. Lombardi, Analytical Studies Group; Joanne Miller, Institute Information Services; Walter L. Milne, Office of the Chairman of the Corporation; Helen Osborne, MIT Press; Jerome J. Schaufeld, MIT Associates; Arnold H. Singal, Resource Development; Irwin W. Sizer, Dean of the Graduate School; Nancy J. Wheatley, Office of the Dean for Student Affairs, and Clarence G. Williams, Office of the President and Chancellor.

354-1638, evgs.

Bell accordian mdl 252OC, '61, 120 bass, 41 treble, 19" keybrd, 24 lb, blk. Tony, x3-5717.

Sears 19" clr TV, lv cntry, must sell. Call, 494-9177, aft 5pm.

Dbl bed, dresser, desk, tennis rckt, etc, u name price. Dusty, 876-4111, anytime.

Nw pr Dunlop 6.00x13 tires, \$20/ea; pr Gdyr 13" snows, \$10/ea; Norge washer, works ok, \$50. x3-7509.

Wstghse refrig, gd work cond, \$25; Kenmore washer, \$10. Mac, x3-7273.

AC, 14,000 BTU from Lchmr, 2 yrs, \$165. Jerry, x3-3644.

Gold 12x12 rug w/pad, \$20; port dishwash, \$20; GE trntbl, \$20; mtl wardrobe, \$10; refrig, \$15. Karen, x3-3302.

RCA b&w 12" TV, yr, perf cond, \$60 or best. Luis, x3-3212.

Shuffleboard, 10', ideal playrm, lk nw, \$175. Pat, x3-2998.

Hse lot, Winchester, for lg hse to be blt, reas. Call, 862-8466, aft 6.

Bike, 3 spd w/bskts, lite, horn, exc cond, \$35. Barbara, x3-7618.

Lk nw 28" hi contemp lamps, 2; nw clarinet; Skye terrier puppy; best. x8-4061 Draper. Hang-Glider Rogallo, list nw \$500; Prone Harn, \$50; hlmt, \$40; cover, \$35; preblt by Zephyr, 10 mos, exc cond, compl \$500. Rob, x8-2876 Draper.

Castro conv sofa, \$25; 2 snows, 165x15 w/rims, \$10; m sheepskin coat, \$25; brnt org 12x15 rug, \$15; asst baby clothes. Elliott, x3-7001.

Mtch 10 pc china set, wht w/gold rim, coffee cups, saucers, dessert plates, \$10; 4 pc serving set, ptchr, sugar, creamer, tray, \$3; Corning coffee pot, \$5; or best. Joe, x3-2677.

Classics, 12 vol incl Twain, Dickens, \$5; tbl lamp, \$2; child bike seat, \$5; bike lite, \$2; wd K type fold chrs, \$1.50/ea. Call, 731-6693.

Kowa SETR 35 mm SLR w/50 mm fl.8 interchangeable lens, thru lens meter, X synch to 1/500, lk nw, 6 mos grnty, \$85. Ralph, x5383 Linc.

Humid, \$3; hr dry, \$5; 2 fold cots, \$5/ ea; iron, \$5; K tbl, \$10; fold chr, \$3. Jurg, x3-1849.

Voit swim mask w/purge valve, tempered glass faceplate, snorkel, used once, \$5/both. Janis, x3-4716.

Wint dresser w/mirror, \$55; mod sti office desk, \$75; 2 drwr file cab, \$23; sgl bed w/matt, \$30. Devor, x3-5798.

Orig framed serigraph by Calvin Burnett, 20x30", narrow blk frame, \$25. x3-1996.

Boats w/trirs: 19' Pembroke, twin 25 hp Johnson elec start, nds work, \$600 or best; 14' plywood, nds much work, best, want sm sailboat. Call, 395-6489, aft 5pm.

Sony 250 tape rcrdr, \$25 or best. Howard, x3-2514.

Dbl bed, mtl frame, mtch box spr & matt, \$40. Ziggy, 261-5231.

Firestone 4 ply t-less rayon cord snows, 6.50x13, 2 stud, 2 reg, for Toyota Corona, \$25/pr. Sam Yong, x3-6748.

Simmons hi-riser, exc cond, \$60; 2 gd Danish armchrs, \$15/ea. Bob, 369-6305.

Homemade camper trlr, slps 4, liquid propane sys, v attractive, \$350. Fred, x3-5939.

Chrysler Air-Temp 5000 BTU AC, lk nw, \$95. x3-1638.

Lving cntry, must sell: 16'' RCA color TV, $1\frac{1}{2}$ yrs, exc cond, orig \$300, \$180; dbl bed, \$30; sm dresser, \$20; dining tbl & 4 chrs, \$20. Call, 494-8395.

Frigidaire 8000 BTU AC, \$100; m sgl spd bike, \$15; 20" boy bike, \$20; Singer Str St port sew mach, \$15. Nate, x3-2338.

Blank QSR cards, 50, fill in own call sign. Gary, x0501 Dorm.

Child car seat, lk nw, \$18 nw, \$9. Ed . Casazza, x7266 Linc.

Elec knife, \$4.50; sm tbl, 18x30", \$4; car fl mats, \$5; auto rcrd player, \$35; elec can opener, \$2. Holly, x3-6758.

Baby furn & items; elec shaver; m & f skis, boots, poles; asst paperback books. Micheline, 491-4558.

Sears sewing ctr, takes all std mach, exc cond, catalog description avail, \$50; workbench Kevi desk or sew chr, chrome & blk vinyl, exc cond but whls stiff, \$15 or \$10 w/sew ctr. Helen, x3-7690.

Elegant shag 9x12 rug, pale grn, \$45. Richard, x3-3678.

Pr Ohm D spkrs, exc cond, \$150; Marantz 1060 amp, \$150. John, x3-1827.

Gold 9x6 rug, 8 mos, \$30 or best;

'64 VW, reblt eng, many nw parts, as is where is. Jay, x8-1444 Draper.

'65 Pontiac Le Mans 74 K, auto, p st, 6 cyl, gd run cond, body, no rust, no dents, gd tires + 2 nw snows, \$200 or best. x3-4638, lve msg.

'66 Mercedes 200, 4 cyl, 4 dr sed, 85 K, eng gd, body reas, std, snows, \$850; '70 Dodge Polara 3 seat wgn, auto, p br, ac, p rear wndw, roof rack, V 8, gd eng, gd but bruised body, mtd snows, avail 7/31, \$950. Reich, x381 Linc.

'66 Chevy II, 4 dr, 6 cyl, auto, 35 K. x182-183-248 Bedford Fl Facil.

'67 VW sqbk, roof rack, xtra tires, run cond but nds some work, \$375 nego. x8-2682 Draper.

'67 Saab, nds work but has potential, \$150. Debbie, x3-4650.

'67 Ford Frine, v gd mech cond, \$500 or best. Cheng, x3-5980.

'68 Falcon, 2 dr, nw batt, snows, gd cond, \$200; Hitachi port TV, yr old, \$50; refrig/frzr, \$40; comf chr, \$10. Masa, x3-1636.

'68 Pontiac Le Mans, V8, p st & br, auto, 60 K, reclining bckt seats, \$700 or best. Call, 729-0009, evgs.

'68 MGB-GT, red, 45 K, nw exh, hydraulics, runs great, \$800. Tom, x3-7080.

'68 VW bug, exc cond, nw eng 5 K ago, \$750 or best. Nick, x3-4560.

'69 Opel Kadett, 73 K, fair cond, 25. Steve, x7629 Linc. mpg, 4 spd, snows, \$225. Don, x3-4192. Dehumidifier, wo

'70 Toyota Corona Mark II wgn, auto, 51 K, ac, roof luggage rack, snows, best. Joseph, x3-3638.

'71 Chevy Vega sed, yel, auto, gd cond, amfm, 30 K, \$1,100. x3-2807.

'71 Honda CB100, exc cond, 4.5 K, incl chain, lock, cyclegard, hlmt, tools, \$300. Bill, x3-2422.

'71 BSA 650 cc, 3.5 orig K, nw paint, compl cstm. Don, x7478 Linc.

'72 Kawasaki mtrcycl, 90 cc, 5 spd, w/carrier rack & hlmt. Call, 926-3579, evgs.

'72 Yamaha 650, exc cond, 3 K, stored inside, \$1,400. Vicki, x3-4849.

Housing

Bklne, Dean Rd, 6 rm, couples only, avail 8/1, \$240 incl ht & pkg. x3-2551 aft 7/20.

Butlersville, Cape, 2 BR, 2 B condo, DR, LR, deck, overlk yr rnd golf course, Whrlpl appl K, wash & dry hook up, ww incl K, garage under, ht storage bsmnt, walk beach & boating, \$265/mo or \$31,900. Gerry, x630 Linc.

Camb, BR sub w/opt nr Cent Sq, now-8/31, part furn, 20 min walk MIT, free pkg, v qt, \$150/whole period. x3-2147.

Camb, 6 rm apt nr Harv Sq, semi-furn, \$295; also Camb, furn rm w/K priv, \$25/wk. Marilyn, x3-4112.

Camb, 5 rm, 2 BR hse, 1½ B, pkg, yard, no pets, ref & sec dept, \$293 + util. Call, 868-9835.

Camb, BR apt, suitable 1 person, nr Cent Sq, 2 rms, share B, \$130. x3-6736.

Camb, unfurn apt w/ac, lg BR & LR, d&d, eat-in K, lg balc, closets (1 walk-in), indoor pkg, concrete bldg w/2 elev, carpet hall, avail 9/1, \$265. Arnold, x8-3852, Draper.

Lex, 4 BR splt entry ranch, 2 B, pool, tennis club, nr T, hi 50's. S. Zeldin, x3-1378 Draper.

Winnipesaukee, lkfront cottage Meredith, NH, frpl, dock, woods, slps 6, exc fishing, swimming, boating, avail aft 6/26, \$175/wk. Joan F, x3-2697.

S Vt, Weston, mtnside retreat, secluded rural area, 2½ hrs Bos, 3 BR, mod facil, ideal fam, avail mid-July & Aug, \$300/mo. Sureau, x477 Linc.

Canada, sum hse on lake, slps 15, all util, boat & mtr, Christine, x3-2742.

Animals

Lving cntry, mini poodle, m, 3 mos, champagne clr, papers & shots, \$125. Call, 646-6035.

Lost and Found

Stolen: '67 MG 1100, Thurs, July 4, from Dana St, Camb, \$20 reward, N Carolina plates CVL-876. Bob, x8-2826 Draper.

Lost: ball & stick mdl of antibiotic valinomycin, 12x12x12", prob bldg 9 or 13. Prof Stanley, x3-1745.

Wanted

Piano, cheap. Dave, x3-6050.

Responsible cpl w/baby wl drive your car to west coast lst wk Aug, ref. Lily, x3-6281.

Used Canon camera body, gd cond. Steve, x7629 Linc.

Dehumidifier, working cond, reas. Mickey, x7283 Linc.

Used US Coast & Geodetic nautical charts, want or wl trade. x8304 Dorm.

Responsible cpl want to live on campus beg Sept, wl sub 2 BR apt, pref furn, Westgate of 100 Mem Dr. Jeff, x3-7001.

Rmmate for 3 person Camb apt, Aug &/or Sept on, gd nbrhd, easy 10 min walk MIT, \$60 + util. Frank, 876-4111, anytime.

Tape deck w/sound-on-sound. Eugenia, x3-5935.

Fluorescent "gro-lites", 6, 17", 15 W; clothes washer, gd cond, under \$50; carpool or ride, MIT-Shirley (btwn Ayer & Fitchburg), 2-3 dys/wk, 9-5. Sandy, x3-4791.

Prtnr to lk into joint job possibilities at MIT (2 p-t persons sharing one f-t job). Jane, x3-2311, aft Wed.

Rmmate, share 2 BR apt, N Reading,

Ceramic baking kiln, 15"x15" chamber

Used airline kennel for 45 lb dog.

Soccer team desires opponents. Ted,

French spking tutor desired for French

hse on campus, housing provided. Info,

Want to buy hse in Lex, wl consider Winchester or Concord, 3 BR, 2 full B,

DR 12x12 or lrgr, somewhere in 50's.

Used car, must be gd mech cond,

Surveyor to determine crnr points of

1600 sq ft lot, registry map avail. Ari

Stereo equalizer for pr Bose 901 spkrs.

Tom, x8153 Dorm, aft 7pm wkdays.

Back issues of Journal of the ACM.

Cpl w/no chldrn or pets seek lg 4 rm

must have car. John, x3-3439.

or larger. John, x3-2375.

x3-7159.

x3-3782.

x3-4771.

x3-4471.

x3-3639.

x9621 Dorm.

Call, 491-7813.

9x12 & other rugs, \$10-\$30; armchrs, \$5-\$20; f 4 spd bike, \$40; bike hlmt, \$5; cot, \$5; crtns, K utensils, etc. Call, 868-7390, anytime.

Singer Fashion-Mate zig-zag, barely used, wrnty, \$60; Wstghse 6000 BTU ac, \$80; Judson elec ignition, \$30. Gerhard, x3-6595.

Sears Kenmore washer, 3 spd, 2 cycl, 6 yrs, in Burlington, \$20. Warren, x8-3969 Draper.

Bed frame, matt, box spr, hdbrd, gd cond, \$100. Bob, x3-4024.

Canon 518 super 8 camera, 5-1 zoom, 1.5x converter lens that makes it 8-1, 1.8 lens, wi take ASA 160 film low lite shooting, man & auto exp, gd shape, w/case & batt, \$75. Norm, x3-7609.

FM tuner, \$30. Eico amp 20w/ch; Eldorado calculator; SCM elec typwrtr, \$100; digital clock, \$8. Marc, 494-9027.

Melcor 1000 elec caluclator, 40% off, batt/AC, 4 functions, stored constant, orig pkg, yr wrnty, \$39. Phil,

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Wint nitetbls, 2, \$40/ea; dbl bed fr w/hdbrd, \$50; k sz Beautyrest bed, \$180; sm stereo, \$90; gate-leg tbl, \$60; 2 bar stools, \$4/ea; 2 snack tbls, \$5/ea. Don, x3-5945.

Child trampoline, ages 3-10, Childlife Play Specialties Safety Bouncer, v safe, gd cond, \$50. x3-2417.

Girl stingray bike, blu, no shifts, mint cond, \$20. Bill, x7706 Linc.

Glass belt stud snows, E78x14, almost nw. Steve, x3-1833.

Lving cntry, 6 rms furn, bargains galore, call & ask for what you nd. Millie or Chuck, 646-6035.

Compl 20 vol Southern Living cookbks, \$35; pnl door couch w/foam cshns & blstrs, nds covering, \$15; 2 mold plastic chrs, \$5; plastic bamboo shades: (3) 30", \$2/ea, (1) 84", \$4; Presto elec htr, \$10. Romy, x8-3511 Draper.

Attractive mod sofa, \$30 nego. x9498 Dorm, evgs.

Panasonic r-t-r tape rcrdr & match spkrs, gd cond, \$60; flash attach, \$10. Steve, x3-7950. drapes, 3x4, \$6/pr; fan, \$4. x3-2147.

Dlb bed, 4 mos, what hdbrd, Simmons matt & box spr, \$150 or best. Lily, x3-4843.

Juicer, \$40; Aria clas guitar; whichr, best; typwrtr, \$10; old Zenith TV, \$20. Ken, x3-6658.

Furn, refrig, tbls, chrs, rugs, beds, dressers, etc, cheap. Bill, x3-6631.

Kelvinator refrig, old but perf cond, \$50. Demetrius, x3-5557.

Used Lydiard running shows, sz 9, \$4. Carrie, x3-3703.

Wd desk, \$35; desk lamp, \$6; chr, \$4; stereo, \$30. Malcolm, x3-5483.

Vehicles

'63 Triumph TR4, gd shape but nds some trans work, best over \$300. Bob, x3-7305.

'64 Buick Spec, V6, 15-16mpg, gd cond, best reas; Remington man typwrtr, 16" carriage, gd cond, \$40. Call, 643-4283, aft 6pm.

'64 Pontiac, 88 K, many nw parts, \$200 or best. Call, 843-4647. Lex, furn tri-lvl hse, exc nbrhd, minutes Rt 128, sch & Hayden Rec Ctr, 3 BR, den, fam rm, garage, \$500. Call, 321-2195, aft 6pm.

Nwtn Ctr, mod apt nr transp, 2 BR, LR, den, porch, garage, no chldrn, \$285 + ht. Call, 244-4452, evgs.

Newton Crnr, mod BR apt, Kette, B, LR, nr T, pike, off-st pkg, \$200 incl util. Call, 361-6978, 10am-2pm.

Som, furn hse, 5 min MIT car, 3 BR, LR, DR, 1g K, bsmnt, garage, washer, ww, rent minimum yr, \$325 + util. Call, 661-1062.

Som, Northgate nr Porter Sq, BR w/ac, d&d, ww, married MIT only, sub now or Aug w/fall opt, \$200 nego. Call, 628-1194, evgs.

Som, 2 BR, LR, K, B, ww, d&d ac, balc, 20 min walk MIT, pkg avail, Indry same fl, sub end July or 9/1 w/opt, \$225 incl ht, nego. Call, 491-0917.

Wayland, 2 BR contemp hse on wooded acre, fully appl K, washer & dryer, cathedral ceiling LR w/lg frpl, detatched garage, low 40's. Jan, x3-1676. easy walk to market, gd public transp MIT a must, \$220 incl ht max. Kathy, x3-2701.

F or cpl share 14 rm hse w/3m, f, nr Arl Ctr, T, stores, pkg, yard & grdn, share cooking, chores, part of our lives yet independent, no smokers, no more pets pls, \$105-\$125 + util. Call, 646-5854, evgs.

F rmmate, Bel hse, share w/3 f, pkg, d&d, washer & dryer, pool, 3 frpl, ww, own rm, furn, grdn. Call, 484-0275, aft 6pm.

Visit Ger scholar seeks 2-3 BR apt, Bos area, for 6 mos beg 8/15 or 9/1. Moeller, x3-3132.

Rmmate, sum sub BR in 3 BR Tang Hall, furn, avail now, \$80/mo. Jeff or Joanne, 494-9185.

Rmmate, Camb sub 7/25-8/31, BR in fantastic 3 fl hse nr Radcliffe, wash/ dry, freezer, dw, sunporch, pkg, \$95. Lynette, x3-6718.

Carpools

WI take riders Arl-Draper or MIT,

7:30-4:30 shift. Bill Barlett, x8-3546 Draper.

Ride to MIT from Auburndale & home again, wl share exp. Dee, x3-2103.

Miscellaneous

A+ secretarial office typing, theses, manu, transcribing, translation. x3-3287.

Going on vac? Responsible no-cost hse sitting avail, 1 wk-1mo, ref. Tom, x3-4307, lve msg.

Flute instruction, exp tchr, 4th yr stu Indiana U studying this area this yr, wl teach your home or mine (Concord). Ellen Sebring, 369-4865.

Experienced students wl move u inexpensively & gently. Dan's Van, 354-2542.

Sailing lessons, Marblehead Harbor, 30' auxilliary sloop. Call, 522-1506.

Exp typist wil do theses, manu, etc. x3-7062.

WI type theses, reports, etc. x3-5612.

Positions Available

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 possible after their receipt in Personnel, Employees at the Institute should continue to contact their Personnel Officers to apply for positions for which they feel they qualify.

Virginia Bishop	3-1591
Mike Parr	3-4266
Philip Knight	3-4267
(secretary - Joy Dukowitz)	
Sally Hansen	3-4275
Jack Newcomb	3-4269
Evelvn Perez	3-2928
(secretary - Mary Ann Foti	1
Dick Higham	3-4278
Pat Williams	3-1594
Claudia Liebesny	3-1595
(secretary - Dixie Chin)	

New applicants should call the Personnel Office on extension 3-4251.

DSR Staff - Economic Staff 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 and develop economic development proposals; review and evaluate proposals in fields of health, education, housing, transportation, and community development in view of their impact on the on the local economy. Will be assisted by an advisory committee of faculty and administration members from both institutions. Doctoral degree or equivalent experience in urban economics, manpower, community development required. Ability to work effectively with local government and university officials. Ability to plan and conduct research, 74-753-A (7/17).

DSR Staff member in the Electronic Systems Lab will study the application of modern control theory to optimize freeway traffic flow. Develop mathematical models and feedback control algorithms. Evaluate feasibility of using other control policies with existing freeways. Ph.D. in Systems related discipline, including working knowledge of techniques in stochastic optimal control theory, state estimation, etc. Familiarity with vehicular traffic flow theory highly desirable; practical experience in electronic traffic sensors and signal processing helpful. 74-77.7A (7/17).

ponents with surfaces. Good laboratory skill required; background including physical chemistry (and secondarily, biochemistry) highly desirable. BA or BS minimum requirement. 74-794-R (7/17).

Technical Assistant – Academic Staff in the Biophysics Laboratory of Nutrition and Food Science will assist in protein and cell fractionation studies and kinetic spectrophotometric analysis. BS degree in Life or Physical Science with course work in biochemistry required; general laboratory expenience required. 74-751-A (7/10).

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, labelling 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 Psychology will process experimental brain tissues for microscopic analysis with light and electron microscopes. Primary emphasis is placed upon recently developed techniques involving, autoradiography and enzyme histochemistry for tracing neuronal pathways. Minimum 6 years experience preferred; extensive experience including performance of standard and nonstandard techniques required. 74-727-A (6/26).

Administrative Staff-Editorial Manager in the Institute Information Services will coordinate the organization, design, editing, production, mailing, and budgeting for the General Catalogue, the President and Chancellor's report and other issues of the MIT Bulletin. Additional duties involve work on various projects, ad hoc special reports in association with the Analytical Studies and Planning Group. Bachelor's degree required; graduate work or equivalent experience preferred. Editorial and proofreading skills, excellent command of the English language required. Knowledge and experience with various aspects of graphic design and production very helpful. Ability to organize detailed information regarding academic and other activities, to work with large numbers of people throughout the Institute, and to plan and execute publishing tasks under pressure deadlines important. 74-692-R of (6/19).

DSR Staff at the National Magnet Laboratory will perform experimental and theoretical research on laserinduced plasmas in magnetic fields and laser-plasma interactions; develop optimal, X-ray, magnetic plasma diagnostics; operate advanced CO_2 and far infrared laser systems for plasma research. Ph.D. or equivalent in Physics and minimum 2 years research experience in X-ray and optical experimental techniques required. 74-689-R (6/19).

DSR Staff in Meteorology will work on diagnostic studies of Climate of the past. Candidate should have an interest in climatic change and have a willingness to acquire some knowledge of scale and radiative transfer theory. Ph.D. in physics, atmospheric, ocean, or earth sciences required. 74-650-A (6/12).

Technical Assistant-Academic Staff in Biology will do work involving nucleic acid isolation enzymology, and biochemical assays; growth and maintenance of bacteriological and bacteriophage stocks. Well-organized person with previous technical assistant experience or graduate level laboratory work preferred. 74-730-R (6/26).

Technical Assistant-Academic Staff-Temporary in Nutrition and Food Science will help in preparation and teaching of a laboratory course in biochemical research methods. Knowledge of chemistry or biochemistry laboratory techniques required; BS degree desired. (8/1-12/31/74). 74-719-R (6/26). Managing Editor-Administrative Staff for the Technology Review (Alumni publication) will commission articles; review submitted articles; edit articles for publication; write reports papers, seminars, meetings; assist with the management of the magazine and participate in all editorial activities. Familiarity with current science and engineering, events essential. 4-5 years editorial experience required, preferably on material relating to science and/or engineering, with background in one or more fields of science, engineering, related social science as well as and science journalism. writing 74-591-A (5/29).

DSR Staff with the Energy Laboratory will work with an international project to assess global alternative energy strategies; participate in formulation and evaluation of regional energy assessments. MS in Management, Economics or Engineering with emphasis on energy, technology assessment and long-term implications of growth necessary. International program management or equivalent experience desired. Demonstrated writing and speaking skills essential. Extensive international travel required. 74-601-A (5/29).

DSR Staff in the Energy Lab will assist in the construction of a mathematical energy model for US supply and econometric model building and analysis of energy sectors. BS degree in Economics with econometrics and mathematics background desired. Experience in FORTRAN programming and use of Econometric Software Package necessary. Communication skills important. 74-602-A (5/29).

DSR Staff in the Energy Laboratory will prepare and coordinate various proposals for the Waste Heat Management Group. Assist in fund raising activities for facilities and research; prepare plans for construction of new facilities. Develop predictive models based on analytical and experimental techniques and of operational simulation models for economic assessment. Ph.D. required; experience in fluid mechanics (analytical and experimental), water resources management; ability to conduct independent research important. 74-604-A (5/29).

DSR Staff in the Energy Lab will develop a metal-air fuel cell preprototype and conduct research into powdered metal electrodes. MS in electrochemistry or chemical engineering; knowledge of electro-chemistry, semi-conductors; experience in fluid mechanics, academic or industrial exposure to metal-metal oxide systems required. 74-605-A (5/29).

DSR Staff at the National Magnet Laboratory will design, supervise construction of electrical cryogenic and vacuum systems for operation of Alcator Experiment. Design and fabricate electronic circuitry, mechanical structures and vacuum systems for high temperature plasma diagnostic experiments; supervise technical personnel. MS in Physics or EE. Minimum one year experience in operation of high temperature plasma physics experiments and diagnostic equipment; and solid state electronic design required. Work schedule will require evening and weekend work, 74-448-A (5/22).

DSR Staff Director of Vehicular Testing for the Energy Lab will design, supervise, administer program for testing 200-500 private vehicles operating on varying methanol-gasoline mixtures to evaluate driver reaction, gas mileage, and maintenance difficulties. Ph.D. in ME with minimum 5 years' industrial experience required. Extensive expenience in assembly and disassembly of internal combustion engines and administrative experience required. 74-606-A (5/29).

DSR Staff in Electrical Engineering will develop and construct specialized electronic circuits to interface with electrical/electronic equipment such as an electric power system physical scale model, a transmission, and automated electric power meter readers. MS in EE required; experience in the design, construction and testing of electronic circuits and computer interface equipment and in the operation of switching surge simulators necessary. 74-333-A (5/22). quired. Experience in design and operation of optical, electronic and spectroscopic instrumentation used in basic aerodynamic, combustion and engine related experiments important. Ability to work closely with faculty and students essential. 74-415-A (5/15).

DSR Staff at the Laboratory for Nuclear Science will design, develop, and maintain the operating system of the IBM 360/65 in the Laboratory's computer facility. Assist users with special projects. Degree in computer science, physics, or mathematics. programming experience, particularly 360Assembly Language required. 74-361-R (5/1).

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).

Administrative Staff-Associate Director of the Alumni Fund will be responsible for staff support to alumni boards and committees engaged in the annual solicitation programs. Duties require extensive interaction with senior alumni and corporation executives throughout the country, at MIT. Individual must be an alumnus/alumna of MIT. Position entails a moderate amount of travel. 74-347-R (4/24).

Marketing Director-Administrative Staff at the MIT Press must have experience and skills in some or all of the following areas; direct mail, scientific/technical, international, research and planning, trade and library relations. Innovation, creativity, adaptability for goals; ability to work as part of a publishing team in a university environment. Please submit resume with educational background; accompanying letter must describe in detail marketing methods in achievements. 74-313-R (4/17).

DSR Staff in the Laboratory for Nuclear Science will participate in fundamental particle research at major accelerators and in data analysis. Candidate must have Ph.D. in high energy physics or a related field with experience in scintillation counter and spark chamber techniques and familiarity with large computer data analysis. 74-221-A (3/13).

Programming Analyst for the MIT Information Processing Center must have experience and knowledge of large-scale time-sharing computer systems. PL/1 and FORTRAN language. Documentation and communication skills are necessary qualifications. The User Services Group requires an individual who understands and is responsive to needs of the Center's users.

User Assistance – assisting users by providing programming information and debugging help and tracking down special problems.

User Information – instructional documentation and conducting seminars, workshops, and short courses. 74-178 (2/27), 74-632-R (6/5).

Programming Secretary-Administrative Staff for the Information Processing Center will assist with program and data maintenance and documentation. The group maintains special purpose language processors and libraries of programs for numerical analysis, statistics, simulation, census-data processing. Associates degree or equivalent in education and experience is required. Familiarity with IBM Job Control Language (or TSO Command Language), mathematical terminology, and a programming language is essential. 74-713-R (6/26).

Systems Analyst – Administrative Staff in the new Resource/Alumni Data Systems group in Resource Planning will be responsible for existing computer systems; develop new applications for Resource Development and the Alumni Fund and Association. Minimum 2 years professional systems analyst experience required; strong background in university data processing services preferred; knowledge of PL/1 desirable. 74-329-A (6/19).

analysis and system programming on a research version of Multics operating system. SM or EE degree required; 2-3 years programming experience in the supervisor of some advanced operating system required. Ability to contribute to research and work with students important. 74-1234-R (11/14).

Applications Programmer-Administrative Staff in the Office of Administrative Information Services will translate detail program specifications into computer code; test codes ant document program for operational use; review specifications; develop programs flow charts; test and debug programs; perform other duties as assigned. Minimum 2 years experience in Business application programming required. 74-279-R (4/3); 74-574-R (5/29).

Systems Analyst-Administrative Staff in the Office of Administrative Information Systems will develop under direct supervision, solutions to business problems; prepare, design, and program specifications for new programs and for modifications to existing systems. Applicants should have business and administrative experience, analytical ability and familiarity with computers. 74-391 (5/8).

Computer Operator IV in the Office of Administrative Information Systems will operate the IBM 370/135 Computer and monitor system performance via console messages. Report operational problems, take corrective action where called for; process production and testing as scheduled. Minimum 1 year operations experience preferably IBM 360 or 370, DOS multi programming or DOS/VS environment required. 74-620-R (6/5).

Senior Keypunch Operator III in the Office of Administrative Informaton Systems will operate the IBM 029 keypunch machine. Punch into computer input cards formated and unformated documents. Minimum 2 years experience operating IBM 029 or comparable equipment. 74-764-R (7/10).

Employment Coordinator-Exempt in the Office of Personnel Services will assist the Employment Officer in the development and administration of policy and procedures in the Employment Section. Responsible for the coordination of the entire employment process, including the administration of appointment scheduling, job post-ing, advertising, resume flow. Supervise two receptionists and one part-time secretary and the activities of the reception area. Responsible for internal liaison and communication between members of the Personnel Services staff; and external communication about job availability. College background and 3 year experience pre-ferred; demonstrated administrative, supervisory, and organizational skills required. Knowledge of MIT policy and procedures especially helpful. Maturity, tact, ability to work under pressure of deadlines, and act effec-tively in "tense" situations essential. Excellent coordination skills needed to work with many interruptions; and to keep details of several different prounder control simultaneously. 74-775-R (7/10).

Assistant Food Production Supervisor-Exempt in Food Service will assist in all areas of daily production, inventory and quality control, purchasing and a sanitation program. Will assume full responsibility in the absence of the Food Production Supervisor. Degree or experience in food production, knowledge of menu planning, food production, quality control, food purchasing required. Must be able to work irregular hours and weekends, 3 days 7am-4pm; 2 days 10:30am-7:30pm. 74-454-A (5/22).

Application Programmer-Exempt or DSR Staff will work with the space plasma group in the Center for Space Research. Work includes the data, computer graphics, numerical analysis. Knowledge of FORTRAN IV, familiarity with I/O on an IBM 360/370, strong mathematical background required. Familiarity with assembly language, small computers, operating experience on a large computer system desired. 74-665-R (6/12).

Systems Analyst (DSR) in Laboratory of Architecture & Planning (Overlap Project) will implement series of mathematical programs originally developed in FORTRAN for other computers and command interfaces for routines. Participate in level design; some original design of mathematical and other routines. Fluency in FOR-TRAN and PL/1, including knowledge of IBM or Univac and Multics version of FORTRAN. Knowledge of Multics command, programming and debugging environment. Ability to deal with major issues in mathematical programming, 74-795-A (7/17).

DSR Staff for the Cell Culture Facility will perform work involving a considerable amount of quality control; test media and serum for bacterial or mycoplasma contamination and for the ability to promote the growth of various cell lines. BS or BA in Biology; knowledge of tissue culture and media preparation required. 74-761-A (7/10).

Technical Assistant – Academic Staff in Biology will carry out studies of the interaction of blood clotting comStaff Recruiter (Admin. Staff) will report to the Employment Officer; will be responsible for coordination of search for well-qualified persons to fill non-academic staff positions. Particular emphasis will be given to assisting laboratories, centers, and departments in fulfilling Affirmative Action Plans with respect to research staff openings. Person will work closely with Personnel Officers and departments in defining description of positions and qualifications required. Frequent travel will be expected. Experience in Personnel and/or recruiting required. Technical background with degree in Engineering or Science preferred. Please submit resume. 73-643-A (6/26).

DSR Staff Physicist in the Research Laboratory of Electronics will work on development of radio interferometry. The project will combine development of computer-controlled electronic systems and participation in the observations, Ph.D. Physicist with several years experience in radio astronomy or allied field required. 74-62.6-R (6/5). DSR Staff Engineer in Earth and Planetary Science will supervise the design and implementation of electroptical data acquisition systems for astronomical applicaton; develop a solid state imager as a photometric data system; act as technical consultant to student projects. Degree or strong background in EE; extensive experience in analog and digital circuit design and mechanical hardwork design. 74-429-A (5/15).

DSR Staff Engineer in the Energy Laboratory will work in the Sloan Automotive Laboratory. Participate in basic and applied research programs on combustion problems related to performance and emission characteristics of automotive engines. Research will be experimental and theoretical. Ph.D. in Mech. Engineering or equivalent academic training, with good background in combustion, thermodynamics and fluid mechanics reProgrammer/Analyst-Administrative Staff in the new Resource/Alumni Data Systems group in Resource Planning will be responsible for existing DOS PL/1 computer systems; develop and program new applications under OS and DOS for Resource Development, Alumni Fund and Association. Three years PL/1 programming experience required. Previous experience with university data processing systems highly desirable. 74-330-A (6/19).

Applications Analyst-Administrative Staff at the Information Processing Center will work in the Application services group to advise users on procedures and techniques in setting up a statistical problem for computer solution. The equivalent of a master's degree in statistics or social science with statistical training required. Experience in programming and solving problems is essential. 74-403-R (5/8).

DSR Staff Systems Programmer at Project MAC will perform system Building Services Assistant-Exempt for Physical Plant will supervise custodians, polishers and other Building Services hourly personnel. Requires working on various shifts for indefinite periods of time. Minimum of 2 years supervisory experience is required. 40 hour work week. 74-695-R, 74-696-R (6/19).

Technical Training Supervisor-Exempt will assist supervisors and employees in establishing standard cleaning procedures, and to acquaint them with techniques and products through use of audio-visual aids, demonstrations, etc. Requires working on various shifts for indefinite periods of time. Industrial Engineering Degree and/or applicable experience required. 40 hour work week. 74-697-R (6/19).

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Positions Available (Continued from page 7)

Assistant Editor-Exempt will report and write about activities and events at MIT for Technology Review's alumni audience. Describe educational developments. student and alumni activities, etc. Training and/or experience in newspaper and magazine writing about people and events typical of those in the MIT community required. Ability to conduct interviews, write news and feature stories, plan photo essay important. 74-590-A (5/29).

Pantry Supervisor – Exempt in MIT's Food Service will be responsible for the unit serving areas, flow of food and utensils, portion controls and sanitation program for area. Will supervise the pantry employees. Technical knowledge of food production, ability to train personnel required. Must be able to work irregular hours and weekends. 4 days 10:30am-7:30pm. 74-455-A (5/22).

Administrative Assistant V-As Foundations Analyst in the Development Office will handle requests from senior Institute Officers regarding fund-raising objectives. Will maintain central files and records on foundations, evaluate donors for specific requests, write background memoranda. Supervise Sr. Clerk. Good writing and organizing skills, accurate typing. Minimum three years experience; tact and mature judgment essential. Offers significant internal visibility. 74-800-R (7/17).

Administrative Assistant V in Architecture Department will process student departmental registration, roll cards, class schedules and catalog copy for course descriptions. Familiarity with Registrar's procedures; ability to understand and give out curriculum information. 74-787-R (7/17).

Senior Secretary V in Resource Development will be personal secretary to the Vice President. Excellent organizational skills needed to prepare complex travel schedules, organizing con-ferences, coordinate busy daily schedules and other office functions; maintain reference files; prepare writ-ten summaries of correspondence, phone calls, and visits for quick reference by the V.P. Excellent typing and shorthand skills required. Maturity and poise in dealing with prominent people, both inside and outside MIT; ability to make decisions and exercise judgment required. Must be good willing to work overtime when needed. 74-722-R (6/26).

Sr. Secretary V-Secretary to Division Head in Civil Engineering, Monitor accounts, maintain payrolls, prepare budgets. Arrange seminars and travel, compose and type correspondence. Excellent secretarial and organizational skills. Ability to handle financial records. Tact in dealing with students and staff, 74-799-R (7/17).

Secretary IV or Senior Secretary V for Vice President in the office of the President and Chancellor will handle a variety of duties in a very busy office. Arrange and coordinate complicated appointment and meeting schedules; maintain communications among many people and offices of the Institute. Excellent typing, shorthand, organizational skills and command of language are essential; ability to anticipate, recognize and organize priorities and work as part of a team, resourcefulness for handling complex situations, discretion, tact, and good judgment important. 37% hour work week. 74-343-R (5/24).

Secretary IV or Senior Secretary V for the Energy Laboratory will handle secretarial duties for the Director and Assistant of the Energy Workshop organized to assess the energy options of North America, Europe and Japan. Set up filing system; type correspondence, manuscripts and papers; coordinate travel, appointments, schedules: handle financial records; organize other office functions. Minimum 5 years ence, college background cperi e %cellent typing required; shorthand/ speedwriting/dictaphone experience helpful; ability to communicate effectively with international participants essential. 74-755-R (7/10).

duties for two faculty members and other research personnel. Type course material, manuscripts, grant proposals. Knowledge of medical, biological and/ or grant proposals. Knowledge of medical, biological and/or technical terms helpful; good typing, organizational skills required. 74-750-R (7/10).

Secretary IV will handle general secretarial duties for three professors and one lecturer in Chemistry. Will type correspondence, reports, course materials, and a textbook manuscript (some technical material); monitor accounts; maintain files. May also do some technical illustrating for use in special seminars. Good typing required; ability to organize and work independently important. 74-756-R (7/10).

Secretary IV for a group of Chemistry faculty will handle all general secretarial duties; monitor office accounts; schedule weekly seminars, and appointments. Type technical manuscripts, class materials, reports. Compose and type some correspondence; maintain files and stock of supplies. Good typing required. Ability to establish priorities, organize and work independently important. 74-757-R (7/10).

Secretary IV in the Office of Personnel Relations will provide secretarial and statistical support for the Wage and Salary Section. Answer correspondence, arrange schedules and meetings; assist with the organization and maintenance of a complex subject filing system and a job classification file; process unemployment compensation claims. May also input data at a computer console. Good typing required (some technical); ability to work with figures and to handle responsibilities important. 74-774-R (7/10).

Secretary IV in the Research Laboratory of Electronics will handle general secretarial duties for a group of faculty and staff. Type letters, course material and technical articles; organize files; coordinate other office functions. Excellent typing required. Previous secretarial schooling or experience, ability to work from handwritten copy and set up format important. 74-706-R (6/26).

Secretary IV for the Urban Studies and Planning Community Fellows Program will handle a variety of daily administrative and clerical duties. Attend a weekly Tuesday evening seminar, transcribe recorded tapes of the seminar. Will also attend a 10-day orientation program and a 3-day wrap-up program off campus. Previous secretarial experience, good office skills, ability to work for several people required. 40 hour work week. 74-715-R (6/26)).

Secretary IV in Resource Development will handle diversified office duties; type letter-perfect correspondence; maintain busy schedules. Excellent typing required; organizational ability, ability to work independently and under pressure when necessary important. 37% hour work week. 74-723-R (6/26).

Secretary IV for two professors in Political Science will type correspondence, manuscripts, class material; handle travel arrangements; schedule meetings. Excellent secretarial skills required; ability to work independently, establish priorities important; college background preferred. 74-725-R (6/26).

Secretary IV in the Arteriosclerosis Center will perform general secretarial duties for medical doctors and other staff members; transcribe letters; schedule appointments; type abstracts and manuscripts. Good typing, ability to work independently required. Secretarial school graduate with previous experience desired (preferably in a medical setting). 74-670-R (6/19).

Secretary IV in Medical will handle secretarial duties for two psychiatrists and assist with support for the part-time psychiatric staff and fellows. Transcribe patient case histories; maintain accurate records and schedules. Excellent typing required; maturity, ability to work under pressure and to deal with patients important. 37½ hour work week, 74-685-R (6/19). tient case histories, correspondence and reports. Excellent typing skills required; shorthand and knowledge of medical terminology preferred. Previous secretarial experience important. 74-581-R (5/29).

Secretary IV in Resource Development will handle all secretarial duties for the Institute Secretary. Plan travel schedules, make arrangements; assist in gathering and collating information on corporations. Previous experience; excellent typing required; shorthand preferred but not essential. Ability to organize and work independently important. 74-579-R (5/29).

Secretary IV in Project MAC will type technical manuscripts, class notes and correspondence for two professors. Maintain documents on the PDP/10 computer, answer some correspondence independently. Good typing, knowledge of office procedures, ability to organize and establish priorities required. 74-596-R (5/29).

Secretary IV to the Executive Officer of Chemical Engineering will handle general secretarial duties; maintain petty cash account; make travel arrangements; receive visitors. Good typing, shorthand, and dictaphone skills required; previous experience (MIT preferred) or secretarial schooling; ability to work independently, maturity, tact essential. 74-398-R (5/8).

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 to use discretion required. Knowledge of MIT desirable. 74-332-R (4/24).

Secretary IV in the Office of Administrative Information Systems will handle general secretarial duties; maintain inventory of technical manuals, program test logs, files; type memos, reports, documents. Excellent typing, dictation skills required. Knowledge of English grammar and general office procedures important. 74-617-R (6/5).

Secretary III-IV in Physics will handle a variety of secretarial duties for an Associate Professor. Maintain grant records and files; schedule appointments; type technical material. Ability to organize, to work under pressure, establish priorities important. Good typing and shorthand skills required. 74-646-A (6/12).

Secretary III-IV in the Research Laboratory of Electronics will handle general secretarial duties; type course notes, problem sets and other technical material; maintain special files. Accurate typing; ability to neatly draw diagrams, to work independently important. 74-673-R (6/19).

Secretary III-Secretary to Associate Director of Admissions and Associate Advisor to Foreign Students. Compose and type letters, prepare immigration forms, etc. At least three years of clerical experience. Excellent skills, ability to organize, cope with interruptions. Some seasonal pressure. Tact in dealing with students. 74-798-R (7/17).

Secretary III in Operations Research Center will perform secretarial functions for one professor; some typing for other staff members. General office work includes errands to various MIT departments, processing invoices and checking accounting statements. Willingness to acquire technical typing skills by taking the MIT Personnel Development course. Ability to work with students, faculty and other MIT employees. 74-777-R (7/17).

Secretary III for Project MAC will share secretarial duties for the Automatic Programming group; type technical manuscripts, class notes and correspondence; maintain files, schedule appointments. Excellent technical typing skills required; ability to organize important; previous experience helpful. 74-731-A (6/26). Secretary III in the Research Laboratory of Electronics will take shorthand, handle 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).

Secretary III in Chemical Engineering will type quizzes, reports, technical manuscripts, proposals for three associate professors. Will arrange appointments, file, act as receptionist for the office. Dictation from tapes; technical typing experience preferred. Prompt, dependable, able to accept supervision and follow through on details. 74-162-R (2/20).

Editorial Assistant V at the MIT Press will coordinate and service all aspects of international sales: handle correspondence with foreign accounts, distributors; reroute orders; distribute catalogues, promotion copies of books, book jackets, monthly inventory, and other relevant information. Coordinate international publicity; update advance book information for *Publishers Weekly*; maintain files and assist exhibit unit. Responsible, motivated individual must be able to deal with a wide range of responsibilities, establish priorities, communicate with people. 74-739-R (7/10).

Senior Library Assistant IV in the Aeronautics and Astronautics Library will prepare orders and process all material received by the library; maintain card catalog; train and supervise personnel assisting with other library duties, Accurate typing, library experience, knowledge of cataloging required; supervisory capabilities important, 74-709-R (6/26).

Senior Clerk IV in the Summer Sessions Office will handle a variety of clerical duties; type letters and memos, distribute mail, keep inventory of office supplies, file purchase orders, process bills and keep track of applications for programs. Will also assist with summer registration, and training office assistant. Excellent typing required; ability to work under pressure. 74-789-R (7/17).

Receptionist/Sr. Clerk III in Student Accounts will assist Student Counselors in servicing student financial aid requirements. Answer questions, provide forms, answer telephone, type letters. Participate in review of accounts. Poise in dealing with students; ability to retain composure in very busy area; ability to communicate clearly. 74-785-R (7/17).

Senior Clerk III-Assistant to Corporations Analyst will handle information requests from senior Institute Officers regarding fund-raising objectives. Help maintain files, evaluate donors and prospects, write background memoranda. Excellent opportunity for promotion. Excellent skills; dictaphone. Mature and experienced individual. 74-801-R (7/17).

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. 74-803-R (7/17).

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 (7/10).

Statistical Typist II-III in the Comptroller's Accounting Office. Grants and Contracts Section, will type billings to other clerical work as assigned. Maturity, dependability important, alert, pleasant person necessary. 16 hrs./ week; 11pm-7am Friday and Saturday. 74-802-R (7/17).

Clerk-Typist II in the Information Processing Center will distribute publications; maintain and update collections of reference manuals, mailing lists. Good typing needed for training in the use of the MTST and technical/ statistical typing. Ability to deal with people important; (lots of public contact in this job). 74-572-R (11/24).

2nd Class Engineer must have a Mass second class Engineer's license or higher. Individual must be willing to work on any shift. 73-182-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, switchboard and fed water control required. Some experience on turbine-driven refrigeration equipment is desirable. 74-422-A (5/29).

Cook at Endicott House, Dedham, MA. will cook breakfasts 6 days a week and make desserts for lunches and dinners. May also occasionally prepare lunches and cook dinner one night a week. Expertise in cooking and presenting a variety of breakfast foods, desserts, hors d'oeuvres required. Maturity, dependability, honesty important. Must be willing to work on a very irregular and demanding schedule. Will begin_at 6am when preparing breakfasts; will need own transportaton. 40 hour work week. 74-658-R (6/12).

Reactor Operator IV in Nuclear Engineering will serve as shift operator on the MIT Reactor after passing A.E.C. Operator's Examination. Monitor operation of a 5MW reactor; assist with various technical tasks; maintain Togs and check sheets. 3-4 years experience in the Nuclear field will be necessary for preparing for operator's licensing. Knowledge of electronic circuits helpful. Ability to work under pressure of emergencies important. 40 hour work week. 74-766-R (7/10).

Swimming Pool Attendant in Physical Plant must be a fully qualified Life Guard having a Red Cross Senior Life Saving Card, and at least two years' experience. Will rescue bathers, administer resusitation as required; enforce safety regulations; maintain order and cleanliness; clean and refill pool, washing high walls and windows. Must be able to pass periodic physical examinations, and complete refresher work as required. Irregular work schedule; will not have two consecutive days off. 74-680-R (7/17).

Jr. Animal Caretaker will clean cages and equipment, feed and water animals, perform related duties and assist other caretakers. High School graduation is required; ability to work without constant supervision. 74-729-R (7/17).

Laboratory Assistant for the Cell Culture Facility will wash laboratory glassware (by hand or machine), occasionally this may involve the use of chromic acid cleaning solutions. 40 hour work week. 74-760-A, 74-763-A (7/10).

Dishwasher at the Faculty Club will wash dishes, glassware and silverware; clean dish machine and dish table; set up dishroom; replace clean dishes in pantry. Steady work record desired; some experience helpful. Mon-Fri 12:00-9:00pm; some weekends. 74-752-R (7/10).

Campus Patrolwoman/Patrolman Minimum 10 years experience required in all phases of law enforcement to include knowledge of court procedures and case preparation, investigation of criminal and other complaints and reporting on same. Rotating shift/40 hour work week. 74-94-A (2/6).

Secretary IV in the Real Estate Office will transcribe shorthand dictation; order supplies; maintain inventory and records; occasionally assist with figure work; handle other general office duties. Good typing, shorthand skills required; ability to organize and to work with figures important. 74-663-R (6/12).

Secretary IV will handle standard secretarial duties for a Civil Engineering professor. Type technical papers, proposals; schedule appointments, travel; maintain files and accounts. Good typing required; ability to work under pressure of deadlines, to organize office procedures important. Flair with figures and financial records needed, 74-749-R (7/10).

Secretary IV in Nutrition and Food Science will handle standard secretarial

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Secretary IV to two geology professors in Earth and Planetary Sciences will work closely with the department's Affirmative Action Committee. Handle some administrative tasks; maintain affirmative action statistics; type correspondence, class material, proposals, manuscripts. Good typing skills required; ability to act with tact and discretion when dealing with sensitive procedures helpful. Much contact with students in this non-smoking office. 74-688-R (6/19).

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 will be responsible for secretarial support for full-time physicians in the Medical Department. Schedule appointments; transcribe paSecretary III to one professor and two research associates in Civil Engineering working on the development of a new transportation system, will type proposals, maintain account records, handle all general secretarial duties. Good typing required; ability to work with deadlines and with many people important. 74-743-R (7/10).

Secretary III in the Office of Exhibitions will handle general secretarial duties; arrange for poster distribution; monitor magazine subscriptions; maintain files for the annual art lottery. College liberal arts background preferred. Good typing required. 74-771-R (7/10).

Secretary III will handle general secretarial duties for several Energy Lab staff members. Type proposals, reports, correspondence (some technical); handle some classwork-related activities; good typing, dictaphone skills required; ability to work for several people and to determine priorities important. 74-603-R (6/5). Contracts Section, will type billings to industrial and governmental sponsors, grant reports. Excellent typing required. 74-645-R (6/12).

Payroll Clerk II-III in the Comptroller's Payroll Office for the Biweekly payroll will receive Biweekly DINDI's from departments; log distribution changes to individuals; investigate and clear suspense account entries and charges to terminated accounts. Good attendance and the ability to communicate effectively over the telephone are required. 74-796-R (7/17).

Payroll Clerk III in the Comptroller's Payroll Office for the Staff payroll will receive Staff SANDI's from the departments; prepare account changes prior to keypunching, log adjustments, handle vacation cards and credits. Maturity, accuracy, ability to communicate over the telephone are required. 74-797-R (7/17).

P.T. Library Asst./Bookchecker III in the Student Center Library is responsible for operation of Reading Room and other library facilities in absence of librarian. Checks MIT ID cards, charge dates on books; answers questions re: directions, library admissions regulations; tabulate statistics; handle The following positions have been filled since the last issue of *Tech Talk* and are no longer available:

74-664 Secretary 74-683 DSR Admin. 74-720 Histologist III 74-770 Sr. Clerk IV 74-406 SecretaryIV 74-738 Sr. Clerk III 74-672 Mech. "B" Asst. Unit Manager 74-453 74-609 Secretary IV Secretary IV 74-639 74-693 Secretary IV 74-655 Secretary IV 74-386 Secretary IV 74-667 Adm. Officer-Acad. Staff 74-705 Secretary III 74-676 Sr. Secretary V 74-362 Secretary IV (CXL)

The following positions are on HOLD
pending final decisions:74-252Dorm Main. Mech.74-768Acct. Asst.74-327Asst. Dir. Admin. Staff74-594Secretary IV