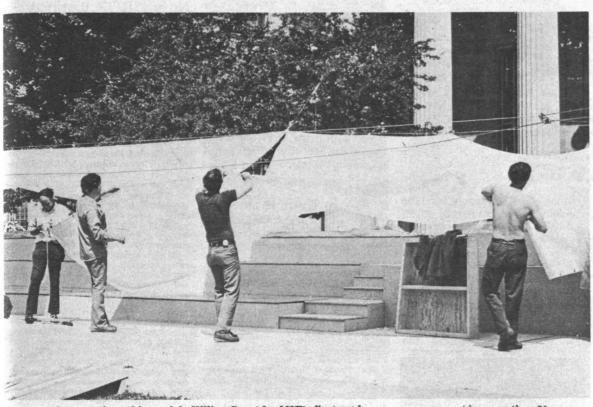
Massachusetts Institute of Technology



May 30, 1979 Volume 23 Number 36



Preparations continue this week in Killian Court for MIT's first outdoor commencement in more than 50 years. This week workmen are installing a giant "sail," to protect participants against the weather.

-Photo by Calvin Campbell

# Baruch To Speak At '79 Technology Day

Dr. Jordan J. Baruch, assistant secretary for science and technology in the United States Department of Commerce, will be the keynote speaker at the annual Technology Day program for Massachusetts Institute of Technology alumni on Friday, June 8.

Dr. Baruch, an MIT graduate, is currently directing a study of industrial innovation in the United States and will speak on the topic, 'Federal Policy and Industrial Innovation," at 10:30am in Kresge Auditorium

In the afternoon, starting at 2:30pm, he will moderate a panel discussion of "Technology in Innovation," sponsored by the MIT School of Engineering. At 4pm, the eight departments within the school will demonstrate the technology they are developing, and how it can be used, at an open

In a concurrent program spon-

there will be a panel discussion at 2:30pm focusing on some of the more innovative research that has led to new applications of knowledge, followed by tours of instructional and research

Technology Day for alumni highlights MIT's alumni week, which includes class and departmental reunions and the traditional Tech Night at The Boston Pops on Thursday, June 7.

A feature of the concert will be the appearance of an MIT alumnus, John W. Miller, Jr., principal bassoonist with the Minnesota Symphony Orchestra, as soloist. Mr. Miller is a member of the 15th reunion class, having received a bachelor of science degree in humanities and engineering in

Dr. Baruch, the Technology Day speaker, received three degrees in electrical engineering MIT-the SB and SM in 1947 and the PhD in 1950. He has taught at MIT and at Dartmouth, where he was on the faculty of the Amos Tuck School of Business Administration and the Thayer School of Engineering.

He has worked with numerous councils for the National Science Foundation and the National Bureau of Standards. His memberships include the Institute of Electrical and Electronics Engineers, the National Academy of En-

(Continued on page 8)

#### Chain Letters Violate Policy

Prayer chain letters have been circulated throughout MIT in recent months via the Institute Mail Service. Staff and employees are reminded that the use of MIT materials and services for such a purpose is not permitted.

Ted Doan, manager of building services has received complaints numerous concerning these letters and many people are genuinely disturbed at receiving them and the implied threat involved if the chain is broken.

# MIT Press Is Being Sued For Publishing Moon Book

Last week MIT answered a sum- testimony given before the House action by the International Cultural Foundation, which is affiliated with Sun Myung Moon's Unification Church, alleging that MIT Press's publication of Science, Sin, and Scholarship: The Politics of Reverend Moon and the Unification Church (1978) constitutes copyright violation.

The International Cultural Foundation demands that MIT Press cease publication of the book, turn over its inventory to the Foundation, and destroy the plates. In addition, the Foundation seeks damages of not less than \$5000.

Science, Sin, and Scholarship, edited by Irving Louis Horowitz, Hannah Arendt Professor of Sociology and Political Science at Rutgers University, has been praised by The Chronicle of Higher Education as "The first full-length and balanced treatment of the political, religious, and social implications of the American career of the Reverend Sun Myung Moon documents by Moon, objective presentations of Unification Church theology and extracts of

The inclusion of Reverend Moon's Founder's Address to the Fifth International Conference of the Unification of the Sciences is the grounds for the suit. The International Cultural Foundation claims that this speech is copyrighted and that it is the owner of the copyright, and as much is entitled to satisfaction of its demands.

MIT has refused to cease publication of Science, Sin, and Scholarship, denying any liability for copyright violation. MIT believes the alleged copyright to be invalid and believes that even were the copyright valid, publication of the speech is consistent with the MIT Press's First Amendment rights, and those of Professor Horowitz, to comment on the doctrines and activities of the Unification Church. MIT views the action as an attempt to stifle debate and criticism of Reverend Moon and the Unification Church.

### Killian, Edgerton To Sign Books

Two of MIT's most famous people -Dr. James R. Killian, Jr., and Dr. Harold E. Edgerton-will hold an autographing party Thursday, May 31, 12:30-1:30pm at the Tech Coop for their new book, Moments of Vision: The Stroboscopic Revolution in

The book, just published by the MIT Press, includes nearly 200 photographs-12 pages in color-and a text by Dr. Killian describing the development of stroboscopic photography and its applications as they have evolved.

"Doc" Edgerton is Institute Professor Emeritus and professor of electrical measurements emeritus in the Department of Electrical Engineering and Computer Science. Dr. Killian, former president of MIT and chairman of the Corporation, is now honorary chairman of the Corpora-

# Killian Court To House 113th Commencement

year, in order to accommodate more than 6,000 spectators, will be held outdoors in the Institute's flower-lined Killian Court, weather permitting, starting at 10am Mon-

It will be the first time since 1927 that an MIT Commencement has been held outside.

The move outdoors was made at the request of graduating seniors who sought a site that would allow seating for a maximum number of relatives and friends. The 6,000 expected in Killian Court is nearly twice the number who were able to attend in past years when Graduation Exericises were held inside (Boston Symphony Hall 1928-1948, MIT's Rockwell Cage 1949-1978).

In case of inclement weather, alternate arrangements have been made to hold an abridged Commencement in Rockwell Cage. A final decision will be delayed until the last possible moment. The location of commencement will be recorded on the SNOW line (253-7669).

In all, some 1,400 seniors and graduate students will take part in Commencement, receiving their degrees personally and individually from MIT President Jerome Wiesner as their names are called by the deans of their respective schools. By tradition, MIT Commencements are centered on students and their families. The short commencement address is always presented by the president, not by an outside speaker. Nor does MIT confer honorary

A highlight of Commencement this year will be the academic procession and recession, which, because the exercises are outside, will follow along Cambridge sidewalks leading to Killian Court. Principals, guests of honor, Corporation members, faculty and graduates, wearing colorful academic robes and regalia, will march from the 77 Massachusetts Avenue entrance to MIT to Memorial Drive and left on Memorial Drive to Killian Court. The recession will follow a reverse

By MIT tradition the chief marshal who leads the procession (Continued on page 8)

#### West Garage Closed Monday

West Garage will be reserved Monday, June 4, for use by participants and guests at Commencement Exercises.

West Garage permit holders are asked to make use of other parking facilities such as Westgate West, Tang and the 243 Vassar Street lots.

The parking attendant at West Garage will provide information and distribute some one-day passes for other locations where limited accommodations may be possible.

The Campus Patrol solicits the cooperation of the community for this special event.

# Commencement Music To Be Expanded This Year

Music for the 1979 MIT commencement exercises will be expanded in size and shape to accommodate the Massachusetts Avenue procession and the proceedings in Killian Court.

Usually limited to brass literature, this year's program will also feature the 45-member John Oliver Chorale, John Oliver conductor and music director. Mr. Oliver is also lecturer in the MIT Music Section and director of the famed Tanglewood Festival Cho-

The Chorale will give Preludes in Killian Court with a program that includes Ascendo ad patrem meum and Angelus ad pastores ait by Samuel Scheidt; three settings of poems by James Stephens: Mary Hynes, Anthony O Daly and The Coolin by Samuel Barber; and three folk songs of the British Isles: Ca' the yowes and Just as the tide was flowing by Ralph Vaughn Williams and Ay wauklin' O by Hugh Roberton.

As the Processional begins, the Brass Choir, Herbert J. Philpott conductor, will perform on the steps of the main entrance. First trombonist with the Boston Brass Ensemble, Mr. Philpott is the former dean of the Boston Conservatory of Music and was recently conductor of the Massachusetts All-State Band in Lowell.

The program for the Brass Choir will feature music by Johann Pezel, Dietrich Buxtehude, Gottfried Reiche, Giuseppe Guami and Giovanni Gabrieli.

The 15 musicians in the Brass Choir as well as some 20 players in the Brass Ensemble, which will perform in Killian Court, are members of the Boston Brass Ensemble, a professional group that regularly performs in the Boston area and at commencements. The conductor since the early 1950's has been John Corley, who has conducted the MIT Concert Band since 1948 and is in charge of music for the MIT Commencement.

Music for the Processional in Killian Court will include 17th century brass works by William Walton, Fernand Desprez, Andrea Gabrieli, Giovanni Gabrieli, Girolamo Frescobaldi, Benedictus Grep and Henry Purcell.

Lead by Mr. Corley, the Brass Ensemble will be joined by four members of the graduating class-Michael Good of Royal Oak, Mi., trumpet, Jerry Flanagan of Lurary, Va., trumpet, Michael Strauss of Harrison, NY., trombone and Gregory Bosch of Blue Springs, Mo., baritone.

The Brass Ensemble will also perform a double choir with the Chorale for a Musical Interlude in Johann Pachelbel's Der Herr ist Konig (The Lord God Reigneth). A festive piece, this music was selected for its ceremonious qualities and its appropriateness in the large outdoor space of Killian Court.

Commencement exercises will close with a Recessional program of music for brass by Beneditto Marcello, Adriano Banchierei. Giovanni Gabrieli, Girolamo Frescobaldi and Daniel Speer.

In the event of rain, the Brass Ensemble and the Chorale will perform in the Rockwell Cage and the Brass Choir will perform on the upper steps at the entrance of the Student Center.



Arthur T. Ippen Fellowships, supporting attendance at professional meetings and conferences, were presented recently to six undergraduate students by Mrs. Arthur T. Ippen, left, and Professor Donald R.F. Harleman, Ford Professor of Engineering, right. Winning students were (from left): Siong-Huat Chua, Roger W. Burke, David J. Fry and Kenneth M. Strzepek. Not present for the picture were John H. Gerstle and Jose R.

# Faculty, Students, Receive Awards

#### Aero & Astro

The following awards have been announced by the Department of Aeronautics and Astronautics.

The Henry Webb Salisbury Award, established in memory of Henry Webb Salisbury, '33, and made to the graduating senior who has demonstrated the highest degree of academic achievement was given to Krishnan Natarajan of Bangalore, India.

The Luis de Florez Awards, funded by a bequest from the late Admiral Luis de Florez, awarded to undergraduates who show outstanding ingenuity and creative judgement, went to Troy A. Crites, a senior from Kent, Wash., \$250; Fort Fraser Felker III, a senior from Dalton, Ga, \$250; Michel Alan Floyd, a junior from Reston, Va., \$250; Roberto Lopez-Aparicio, a junior from Puerto Rico, \$250; Bruce Curtis Lubow, a senior from Monroeville, Penn., \$250; and Jose Ignacio Garcia Rojas, a senior from Castella, Caracas, Venezuela, \$250.

The following students worked on the man-powered airplane called Chrysalis and demonstrated a high degree of ingenuity:

Hyong Eall Bang, a senior from Smyrna, Ga, \$200; Mark Drela, a freshman from Philadelphia, Penn., \$200; John Sholar Langford III, a senior from Atlanta, Ga, \$300; Robert William Parks, a senior from Boston, Mass., \$300; and Harold Haynes Youngren, a senior from Indianapolis, Ind., \$300.

#### Asinari Awards

The John L. Asinari Award, in memory of John L. Asinari, '75, given for outstanding research by undergraduates in the life sciences, was awarded to Alfred Geller, a senior in the Department of Biology, from New Rochelle, NY., Jan Kronish, a senior in the Department of Biology from North Bellmore, NY., and Irene Goldberg, a sophomore in the Department of Nutrition and Food Sciences from Lexington, Mass.

Honorable mention went to Andrea Bender, a junior from Wellesley College and James Liebmann, a senior in the Department of Nutrition and Food Sciences from Santa Clara, Calif.

#### AMITA Awards

Two senior women, Debra Meyerson from Pacific Palisades. Calif., and Evita Vulgaris from Skokie, Ill., have been selected for the Association of MIT Alumnae (AMITA) Senior Academic Awards for 1979, the only Institute awards given to women students on the basis of scholastic excellence

Debra Meyerson, a management major, spent a term at London School of Economics pursuing her interests in economics in an international setting. Beyond course work, she interned in government contributing an analysis of municipal finance which will serve

as the basis for future debt policy recomendation for Massachusetts. She will continue her studies at the Sloan School of Management next year.

Evita Vulgaris performed advanced research in high energy physics and in structure of materials at a level considered by her advisors to be at or above graduate. She continues to carry on a full-fledged independent theoretical research project in which she sustains herself the major planning and execution of the analytic effort. She plans to continue these interests in graduate school next year.

#### Chemistry Awards

The Department of Chemistry has presented \$250 Alpha Chi Sigma Prizes to Donald H. Berry, a senior from Huntington Woods, Mich., Jeremy H. Nathans, a senior from Baltimore, Md.; Ronald M. Wexler, a senior from Downers, Ill.; and Alfred I. Geller, a senior from New Rochelle, N.Y.

Jon T. Swanson, a senior from Quincy, Mass., received the Merck Index Award.

The American Institute of Chemists Certificate was given to Christine L. Peterson, a senior from Kenmore, N.Y.

#### Penn State Award

The Penn State Engineering Society Award as outstanding alumnus of the College of Engineering of the Pennsylvania State University for 1979 has been presented to Donald R.F. Harleman. Ford Professor of Engineering and director of the Ralph M. Parsons Laboratory for Water Resources and Hydrodynamics in the Department of Civil Engineering.

#### Athletic Awards

Awards for their contributions to MIT's athletic program were given to eight undergraduates at the Awards Convocation, held May 11 in the Little Theatre.

Preston L. Vorlicek, a senior in aeronautics and astronautics from Falmouth, Maine, won the Class of 1948 Award, presented annually to the senior athlete of the year. Mr. Vorlicek was co-captain of the men's swimming team, contri-buting to its three-year All American position by his performance in the NCAA Division III National Championships. He is a winner of the Straight T, and was named most valuable player by members of the swimming team.

Bruce J. Wrobel, a senior in management from Evergreen Park, Ill., was given the Admiral Edward L. Cochrane Award, conferred annually on a senior who has shown highest qualities of humility, leadership and scholarship in intercollegiate athletics. Mr. Wrobel, who was instrumental in bringing club football back to MIT, received the Award for his outstanding leadership and performance in four years of varsity wrestling squad and was selected most valuable player by squad members.

Leonard E. Dolhert of Dorchester, Mass., a senior in Materials

Science and Engineering, won the Malcolm G. Kispert Award, given annually to the senior scholarathlete of the year. Mr. Dolhert is captain of the men's sailing team which won the New England Team Racing Championship this spring, and took third in the New England Dinghy Championships.

Diane L. Medved, a junior in chemical engineering from Lea-

wood, Kans., captain of the

# INSTITUTE **NOTICES**

#### Announcements

If your club or activity is meeting during the summer, please notify the Calendar Editor by Friday noon, June 1. All currently listed Institute notices will be removed from the paper and not reinstated until notification is

Transcripts with June grades included will be available beginning June 18.

Student Loan Exit Interview notices have been mailed to June degree candidates with loans administered by MIT. Exit Interviews, mandated by HEW Office of Education, are required to maintain good standing on degree list. Select appointment date and return form to E19-225 as soon as possible. Interviews 3-5pm, May 30 and June 1 in OSP Conference Rm (E19-758). Call x3-4007 if you cannot attend group sessions.

MIT Furniture Exchange\*\*--Open Tuesdays and Thursday', 10am-2pm at 25 Windsor St. to buy or sell used furniture. Letters given for tax deductible donations. Info: x3-4293 during hours above.

#### Club Notes

Beginning Sailing Instruction\*\*--Every Monday and Thursday at 5:15pm in the Shore School of the Sailing Pavilion.

MIT Duplicate Bridge Club\*--Thursdays, 7pm, Rm 473 Student Center. All bridge players invited. Info: Adam Wildavsky,

Hobby Shop\*\*--Mon-Fri, 10am-6pm, Rm W30-031. Fees: \$10/term for students, \$15/term for community. Info: x3-4343.

MIT Juggling Club\* -- Thursdays 7:30-11pm, Sundays 1-4pm, W20-491. Visitors welcome

Kundalini Yoga Group\*--Wednesdays, 5-6:30pm, Mezzanine Lounge, Student Center.

an undergraduate woman. The Burton R. Anderson, Jr.,

women's crew, won the Betsy

Schumacker Award given for excellence in athletic competition by

Award, given to the outstanding manager of the year in intercollegiate athletics was shared by Kevin H. Riehl, a junior in physics from Westland, Mich., manager of the men's basketball team; and John M. Canning, a freshman from Sunnyvale, Calif., manager of men's gymnastics.

The Varsity Club Award to the outstanding freshman athlete, was won by Karen M. Klincewicz of Consohocken, Penn., who was also selected most valuable player by fellow members of the women's swimming team.

The Harold J. Pettegrove Award, given in recognition of outstanding service to intramural athletics, went to Jason J. Tong, a senior in mechanical engineering from Fayetteville, N.Y., and chairman of the executive committee of intramural sports.

#### I. Austin Kelly Prizes

The 1978-1979 I. Austin Kelly III Prize, a scholarly award for undergraduate work in the humanistic disciplines, which carries a \$250 prize, was presented to Marjorie Beale, a freshmen from Anaheim, Calif., and David T. Gallagher, a senior in electrical engineering from Lexington.

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

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

Sangam\*--Summer classes in Indian classical music of the Hindustani tradition taught by Arati Shah, vocalist and sitar player. Classes begin Monday, June 11, 6pm, Rm 4-160, and will continue for 10 weeks. Info: Arati, 353-0223 or Rajen, x3-5195, or come to first class.

MIT Table Tennis Club\*--Sundays, 2-4pm. Thursdays, 8-10pm, T-Lounge, DuPont Gymnasium.

MIT Tae Kwan-Do Club\* -- Korean martial art. New members welcome. General meetings, Mondays and Thursdays, 8-10pm, Dancing Room; Saturdays, 3-5pm, T-Club Lounge. Info: dl5-9278.

MIT Chinese Martial Arts Club (Wu-Tang)\*--Physical and mental discipline through practice of Kung-fu. Northern Praying Mantis and T'ai Chi offered. Beginners welcome. Tuesdays, 8-10pm, W20-491, Saturdays, 1-5pm, W20-407. Info: Chen-dao Lin, dl5-9640.

#### Religious Activities

The Chapel is open for private meditation 7am-

Tech Catholic Community\*-Sunday masses 9:15am, 12:15 and 5:15pm. Weekday masses: Tuesdays and Thursdays, 5:05pm, Fridays, noon, in the Chapel.

Christian Service\*-Sundays, 10:30am, Chapel. All invited.

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

MIT Islamic Society\*--Weekly Friday prayers, 1pm, Kresge Auditorium, Rehearsal

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

Services, call Hillel Office, 3-2982. MIT Vedanta Society\*--Meditation and discourses on the Gita by Swami Sarvagatananda

of the Ramakrishna Vedanta Society of Boston, Fridays, 5pm, Chapel. Prayer Time and Bible Class\*--1-2pm, Fri-

days, Rm 20E-207. Guest speakers, music, refreshments. Led by Miriam R. Eccles, founder and director, Alpha and Omega Missionary

#### Cable TV

May 30 -June 5,1979

Wednesday, May 30

ATOMS. MOUNTAINS, AND STARS—Prof. Victor Weisskopf, Dept. of Physics. CHINESE CULTURAL VARIETY SHOW—by Video Club.

2:30-4pm

Thursday, May 31 Channel 8: 1-2:30pm

2:30-4pm

RAINBOWS-Prof. Walter Lewin.

Dept. of Physics.
SUPERNOVA REMNANTS—Dr.
Frank P. Winkler, Middlebury College, Vermont.

A.P. French, Dept. of Physics.

Friday, June 1 Channel 8: EINSTEIN AT 100: SIDELIGHTS ON HIS LIFE AND WORK-Prof. 1-2pm

3-4pm

2-3pm

PHYSICS OF MUSIC-Prof Bernard Burke, Dept. of Physics.
USE OF VIDEO IN QUICK
RECORDING OF TECHNICAL
SUBJECTS—Charles Miller, Dept. of Electrical Engineering.

Monday, June 4 Channel 8: 1-2pm

2-3pm

3-4pm

1-4pm

LADDERS-Elizabeth Goldring, Center for Advanced Visual Studies.

Visual Studies.

BIOMEDICAL ENGINEERING
AT MIT—Prof. Robert Mann, Dept
of Mechanical Engineering.
PHOTOGRAPHY OF BIRDS.
BUGS. BATS. AND BULLETS—
Prof. Harold Edgerton.

VOYAGER JUPITER ENCOUN-

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

#### Graduate Studies

New York State Senate Legislative Fellows Program\*\*—for New York State residents currently enrolled in a graduate program. Fellows receive salary of \$12,250 for the year beginning Sept. 1979, while working as professional level staff on standing committees and other units of the New York Senate. Applications from students in all disciplines welcome. Application deadline, June 1. Info: Graduate School Office, Rm

#### **New UROP Listings**

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

Neurology and Ethology of Sleep

A student is invited to participate in a multi-faceted study of the sleep of patients with spe-cific brain lesions and diagnosed CNS degener-ative disease. Routine clinical electrophy-siologic recording (EEG, EOG and EMG) will be correlated with time-lapse infra-red photographs of the subjects' sleep. Motor polygraph record will be videotaped. In a separate phase of the project, time-lapse photographs of the subjects' sleep in their own home environments will be obtained. Student should be willing to work through the night four or five days a week during the summer and be available to continue through the coming academic year.

Action for Boston Community Development The ABCD Boston Urban Gardening Program helps to create and support community gardens in eleven low-income Boston neighborhoods. Since land is rapidly being bought up by speculators, many gardens are threatened with extinction. A student is invited to research the land ownership of existing gardens with a focus on the potential for their permanent ownership by non-profit communi-ty groups. Work involves mapping the areas, doing research through records of the Boston Redevelopment Authority and the City Real Property Department, and investigating the legal and tax implications of land ownership.

#### Preprofessional

Information and applications for National Health Service Corps available at Preprofessional Office, 10-186. Application deadline, June 1

### **Echoes**

May 26-June 2

# 50 Years Ago

Plans have been finalized for graduate exercises at Symphony Hall. Senior Hiram Bingham of Connecticut will be the speaker.

#### 40 Years Ago

At the annual dinner of the School of Architecture, Dean William Emerson announced student awards. Among the recipients was Ieoh M. Pei '40, Shanghai, China, who received two of the five F.W. Chandler awards and the Freehand Drawing Prize for life class drawing.

#### 25 Years Ago

Eddie J. Schwarz '54 has been awarded the James Means Memorial Prize for the best aeronautical design in the senior class. The presentation was made by Dr. James Howard Means, son of the aviator pioneer in whose honor the prize is given. Dr. Means is a member of the medical staff at

Prepared by Marcia Conroy, MIT Historical Collections, x4444.

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**Professor Boolos** 



**Professor Bresnan** 



**Professor Busza** 



**Professor Feld** 



**Professor Garrett** 



**Professor Hausman** 



**Professor King** 



**Professor Larson** 



**Professor Magnanti** 



**Professor Melrose** 

# 20 Are Named To Rank Of Full Professor

Twenty members of the MIT faculty have been promoted to the rank of professor effective July 1. They are:

George S. Boolos, linguistics and philosophy, of Brookline. A philosopher whose fields of specialization are logic and the philosophy of mathematics, Dr. Boolos has attained an international reputation. He was one of the principal initiators of a new area of logical investigations and is the author of a widely acclaimed book and a

number of papers.

He holds the BA in mathematics from Princeton University (1961), the BPhil in philosophy from the University of Oxford (1963), and the PhD in philosophy from MIT (1966). Professor Boolos joined the MIT faculty in 1969 after teaching philosophy at Columbia University

from 1966-69. Joan W. Bresnan, linguistics and philosophy, of Boston. Considered the leader of her generation in the field of syntactic studies, Professor Bresnan is known as an innovator in an area in which MIT has established a position of world leadership. Her current research represents a major new thrust in establishing links between lin-guistic theory and the study of cognitive processes.

She joined the MIT faculty in 1975 after teaching linguistics at Stanford University (1972-73) and at the University of Massachusetts, Amherst (1973-75). Professor Bresnan's degrees are the BA in philosophy from Reed College (1966) and the PhD in linguistics

Wit Busza, physics, of Weston. Professor Busza, an experimental particle physicist, has pioneered the study of interaction of very energetic hadrons and is widely recognized as the leading authority in this field. In particular, by studying interaction of energetic pions with atomic nuclei, he has been able to probe space-time properties of reactions at high energies. He joined the MIT faculty in 1969 after several years as a research associate at University College, London, and at the Stanford Linear Accelerator Cen-

Professor Busza holds the BSc in physics (1960) and the PhD in nuclear physics (1964), both from University College, London.

Michael S. Feld, physics, of Cambridge. Professor Feld's work generally regarded as the starting point of experimental research in the area of superradiance. He has also worked extensively in high-precision laser spectroscopy, explaining the mechanisms involved in energy transfers between excited atoms and molecules. Well known as a leading investigator in the field of modern optics, Professor Feld is presently working on a novel application-the use of laser optical pumping to align short-lived atomic muclei to determine their electromagnetic properties.

All of Professor Feld's derees-the SB in the history and philosophy of science, the SM in physics (both 1963) and the PhD in physics (1967) - are from MIT. He joined the faculty in 1968.

Merrill F. Garrett, psychology, of Marshfield. Professor Garrett has won worldwide recognition for his experimental study of the mental processes underlying human language use. A psycholinguist, he is highly regarded as a research mentor and as a teacher of graduate students in the cognitive sciences.

He came to MIT in 1964 as a member of the staff at the Research Laboratory of Electronics and joined the faculty as an assistant professor of psychology in 1968. He holds the BS in chemistry from Montana State University (1959), the MA in speech from the University of Montana (1960), and the PhD in communication sciences from the University

of Illinois, Urbana, (1965).

Jerry A. Hausman, economics, of Milton. Econometrics, a field of central importance in economics, is Professor Hausman's specialty. His early research shed new light on problems in simultaneous equation estimation—the central focus of the profession for the last 25 years. His current work applies sophisticated techniques to experimentally generated data.

Professor Hausman is associate editor of Econometrica, the Bell Journal of Economics, and reviewer for Mathematical Review. He holds degrees from Brown University (BA economic history, 1968) and Oxford University (B Phil, economics, 1972, and D Phil, economics, 1973). He joined the

MIT faculty in 1976.

Charles E. Holt III, biology, of Concord. His research involves the physiology, biochemistry and genetics of the slime mold, Physarum polycephalum. The work is important because this organism is ideally suited as a model to study the fundamental aspects of differentiation and development. As a teacher, Professor Holt was instrumental in developing research-oriented project laboratories for undergraduates in the Department of Biology.

Professor Holt holds the BA from Wesleyan University (1957) and the PhD from MIT (1962). He

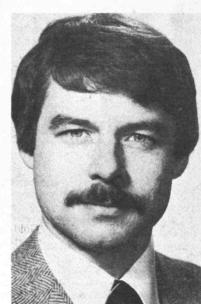
(Continued on page 4)



**Professor Negele** 



Professor Pindyck



**Professor Schmalensee** 



**Professor Senturia** 



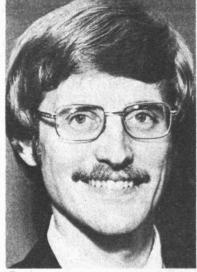
**Professor Sharp** 



**Professor Torriani-Gorini** 



**Professor Vanmarcke** 



**Professor Welsch** 



May 30 through June 10

#### Seminars & Lectures

Wednesday, May 30

Update on Enteral Hyperalimentation\* - Dr. William Steffee, director, Clinical Nutrition, University Hospital. Seminar at 9am, Rm E18-408.

#### Thursday, May 31

A New Approach to Preventive Medicine\* - Dr. Alan Blum, founder, Doctors Oughta Care, Miami, Florida, a review of campaigns to prevent smoking through humor. Sponsored by the Group Against Smoking Pollution, 7:30pm, Rm 407, Student Center.

#### Friday, June 1

Animal Spirits and the Neuron Doctrine — Two Centuries of Changing Ideas\* — Prof Sanford L. Palay, neuroanatomy, Harvard University Medical School. Psychology Colloquium, 4:30pm, Rm E10-013. Coffee at

### **Community Meetings**

Wives' Group\* — Wednesday, May 30, Litsa Mikhalevsky, member of the Wives' Group, will give a slide presentation on "Greece", 3-5pm in the Mezzanine Lounge, Student Center. Babysitting provided.

Seniors!\*\* - Sat, June 2, 3-6pm, Kresge Oval, "Clam Bake", lobster, steamed clams, Bar-B-Q chicken, corn-on-the-cob, watermelon, rolls, beer, coke. Ticket: \$9/person. Sun, June 3, 8pm-Midnight, "The Last Tango", semi-formal, two live bands, one playing swing and the other rock, hors d'oeuvres and cash bar. Tickets: \$4/person. All tickets on sale now, Lobby 10 or call Gregg x5-9481 or Marcia x5-8307 Dorm.

### Social Events

Faculty Club\*\*\* - Open Monday through Friday: Luncheon served Noon-2pm; Dinner served 5:30-8pm. Happy Hour: Monday through Friday, 4:30-6:30pm, wide variety of drinks \$1.05.

Wives' Group\* — Wednesday, June 6, the Wives' Group will have a picnic in the Great Court, 12 noon- 2:00pm. Bring your own lunch. Children are

Register for Summer Art Classes in Drawing, Pottery, Photography,

Calligraphy\*\* - Classes start June 18 for 10 weeks. Sponsored by the Stu dent Art Association. Register through June 15, 1-5pm, Student Center, Rm 429. Information call x3-7019.

#### Movies

African Queen \*\* - Special LSC Senior movie. Wed. May 30, 8pm, Rm 26-100. Free to seniors (bring ID or Brass Rat) 50¢ for others with MIT or Wel-

Double Feature\*\* - LSC Summer Movie. Fri, June 1: The Illustrated Man, 7pm. The Stepford Wives, 9pm, Rm 26-100. Admission: 75¢ w/MIT or

The Three Musketeers\*\* - LSC Summer Movie. Sat, June 2, 8pm, Rm 26-100. Admission: 75¢ w/MIT or Wellesley ID.

Double Feature\*\* - LSC Summer Movie. Fri, June 8: Meet Me in St. Louis, 7pm. An American in Paris, 9:15pm, Rm 26-100. Admission: 75¢ w/-MIT or Wellesley ID.

Marathon Man\*\* - LSC Summer Movie. Sat, June 9, 8pm, Rm 26-100. Admission: 75¢ w/MIT or Wellesley ID.

#### **Exhibits**

Processes in Architecture: A documentation of six examples\* — Works presented by architects: Marvin Goody/Simmons College renovation; Louis Kahn/The Yale Center for British Art and British Studies; Gerhard Kallman and Noel McKinnell/The Boston Five Cents Savings Bank; Donlyn Lyndon/Pembroke Dormitories at Brown University; Jack Myer/Dormitories at Hampshire College and Worcester State College and Richard Tremaglio/private residence in Marblehead, Mass. On view daily 10am-4pm; Wed evenings; 6-9pm, Hayden Gallery, through June 24, 160 Memorial Drv, Cambridge, Mass. Sponsored by the Committee on the Visual Arts. Information: 253-4400.

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

The Computer - From Counting to Cognition\* - Computers then and how they got that way, photographs, computers and repres tative documents that trace the historic and scientific development of puters, also indication of the ever-expanding use of computers and will clude many of MIT activities that contributed to this development. On y through Aug 15, Mon-Fri, 10am-5pm; weekends, 1-4pm, Margan Hutchinson Compton Gallery, rm 10-150, Camb, Mass.

MIT Historical Collections\* - In-house exhibits include antique glob the Ellsworth A. Wente Collection of motors and meters; rare instrument including compasses, sundials and other measuring devices from the and 18th centuries; Early Alumni and several exhibits of memorabilia photographs honoring prominent graduates of the Institute; The Comp Years, a photgraphic essay of the lives of Dr. & Mrs. Karl Taylor Compt Recently installed exhibits: "Hello Central", traces the development of telephone as well as the relationship between Alexander Graham Bell MIT: "X-Ray Astronomy Sounding Rocket", "L'ere de Despradelle architectual rendering from the Beaux Art period of 1893-1912 as influence by Prof Constant Desire Despradelle. On view daily, 9am-5pm. 265 Ma Ave, 2nd floor Camb, Mass.

MIT Historical Collection\* - Vannevar Bush, '16; Bldg 4 corridor. 7 New Technology Exhibit, 2nd floor balcony of Lobby 7. Energy Exhibits E40, 1st floor. Solar Energy, Bldg 8, main corridor. Harvard-M Rehabilitation Engineering Center, main corridor. Bdlg 4. Roge Building Exhibit, Bdlg 4. Meteorology, main corridor, Bdlg 8. Norb Wiener, and Karl Taylor Compton, Bldg 4. Laboratory for Physic Chemistry, Bldg 6.

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

The Outdoor Collection\* — There are many fine pieces of contempor sculpture displayed on the MIT campus, including works by Alexan Calder, Louise Nevelson, Pablo Picasso, Henry Moore, Tony Smith and Jo ques Lipschitz. For information and guides to the campus, call the Information tion Center, x3-4795.

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

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

naval ship models, half models of yachts and engine models. Open daily Bldg 5, 1st floor.

Hart Nautical Museum\* - Permanent exhibit of rigged merchant

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

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

\*\*\*Open to members only

Send notices for June 6 through June 17 to Calendar Editor, Rm 5-1 x3-3270, before Noon, Friday, June 1.

# Professor

(Continued from page 3)

joined MIT in 1962.

Jonathan King, biology, of Boston. Professor King's research has been primarily in the field of the mechanisms involved in the assembly of the structural components of bacterial viruses to form intact and infective viruses. His work has been important to the entire field of morphogenesis, which deals with the formation and differentiation of tissues and organs. Professor King is considered one of the leading investigators in this field.

In addition to his research and teaching, Professor King directs the biology department's Electron Microscopy Facility. He holds the BS degree from Yale University (1962) and the PhD from California Institute of Technology (1967). Professor King joined MIT as an assistant professor in 1971.

Richard C. Larson, electrical engineering and computer science, and urban studies and planning, of Winthrop. Co-director of the Operations Research Center at MIT, Professor Larson is known internationally for his analysis of public systems especially patrol deployment and ambulance allocation systems. He holds joint appointments in the Department of Urban Studies and Planning and the Department of Electrical Engineering and Computer Science.

Professor Larson's degrees are all from MIT and all in electrical engineering. He received the PhD in 1969, the same year he joined the faculty. Professor Larson has been co-director of the Operations Research Center since 1977.

Thomas L. Magnanti, management, of Holliston. Professor Magnanti has an international reputation for his theoretical and applied research work in the areas of operations research and operations management. He has worked closely with scholars in civil engineering, mathematics and electrical engineering to solve many important management pro-

He holds the BS in chemical en-

gineering from Syracuse University (1967), two masters degrees-statistics and mathematics-from Stanford University (1969 and 1972, respectively) and the PhD in operations research, also from Stanford (1972). Professor Magnanti joined the faculty at the Sloan School of Management in

Richard B. Melrose, mathematics, of Belmont, is a widely respected mathematical analyst who works in the field of partial differential equations.

Professor Melrose joined the MIT faculty in 1976 after two years as a research fellow at St. John's College, Cambridge. He has a BS in mathematics and physics from the University of Tasmania (1968), a second BS in theoretical physics from Australian National University (1969), and the PhD from Cambridge University (1974).

John W. Negele, physics, of Belmont. Professor Negele is a theoretical nuclear physicist who is regarded by the nuclear community as one of the leaders of the field. He has contributed to a broad range in nuclear physics, including the structure of nuclei, the time-dependence of heavy ion reactions, and the extraction of electromagnetic properties of nuclei.

Professor Negele holds the BS in ngineering sciences from Purdue University (1965) and the PhD in theoretical physics from Cornell University (1969). He came to MIT as a visiting assistant professor in 1970 and was appointed assistant professor in 1971.

Robert S. Pindyck, management, of Newton, A world-renowned authority on the economics of energy demand and production, Professor Pindyck is beginning exploratory research in an entirely new area-the economics of epidemic control. He is developing theoretical models of optimal government policy for subsidization of vaccination programs.

Professor Pindyck has been a member of the faculty at the Sloan School of Management since 1971. All his degrees are from MIT-the SB in electrical engineering and physics (1966), the SM in electrical engineering (1967), and the PhD in economics in 1971.

Richard Schmalensee, management, of Brookline. An applied microeconomic theorist, Professor Schmalensee works on the problems of industrial organization and the issues entailed in the government regulation of industry. Considered to be at the forefront of his field, he is often called upon to provide expert testimony on these matters.

Professor Schmalensee came to the Sloan School of Management as an instructor in 1967. From 1970-77 he taught at the University of California, San Diego. He returned to the Sloan School in 1977. He holds the SB in economics, politics and science (1965) and the PhD in economics (1970), both from MIT.

Stephen D. Senturia, electrical engineering and computer science, of Boston. Professor Senturia has played a major role in maintaining the reputation for excellence in education enjoyed by the Department of Electrical Engineering and Computer Science, of which he has been a member since 1967. He has developed key undergraduate subjects that have established the tone of the department for many new students. In addition, he has maintained a research effort in the field of semiconductor materials, devices and instrumentation applications.

Professor Senturia, whose BA is from Harvard College (1961) and whose PhD is from MIT (1966), joined the faculty in 1967.

Phillip A. Sharp, biology Newton. Professor Sharp's work on RNA splicing, which involves the transcription of genetic information, has had a revolutionary impact on the field and has marked him as one of the leaders of this field of biology. His earlier work on the molecular biology of adenovirus infection of mammalian cells is also widely recognized.

Professor Sharp received his undergraduate degree in 1966 from Union College in Barbourville, Ky. He received his PhD in 1969 from the University of Illinois. He was a postdoctoral fellow at California Institute of Technology from 1969-71 and came to MIT as an associate professor in 1974 after three years at Cold Spring Harbor Laboratory.

Richard P. Stanley, mathematics, of Newton. A combinatorialist (one who works on finite or discrete mathematical problems), Professor Stanley's research is characterized by remarkable ingenuity. His work bridges the gaps between pure and

applied mathematics and between combinatorics and computer sci-

He holds the BS in mathematics from California Institute of Technology (1966) and the PhD in mathematics from Harvard University (1971). Professor Stanley joined the MIT faculty in 1973. Before that he was C.L.E. Moore Instructor at MIT from 1970-71 and Miller Research Fellow at the University of California, Berkeley, from 1971-73.

Annamaria Torriani-Gorini, biology, of Brookline. Professor Torriani-Gorini's general research interests are in the fields of bacterial physiology and the molecular biology of bacteria. Her contributions in the area of regulation of the synthesis of bacterial alkaline phosphatase is often cited as the model for studies in regulation of enzyme sythesis.

Since 1972 she has had major responsibility for the organization and teaching of the introductory laboratory subject that all undergraduate biology majors must take. Dr. Torriani-Gorini holds the PhD in biology-botany from the University of Milan, Italy, (1942). She joined MIT in 1960 as a research associate and became a member of the faculty in 1971.

Erik H. Vanmarcke, civil engieering of Wayland, Professor Vanmarcke's technical specialization is in the application of probability and decision analysis to problems in geotechnical and structural engineering. He is ranked among the leaders of the movement to apply formal probabilistic methods to civil engineering practice. Professor Vanmarcke, is also making important contributions to dam safety and is head of the Department of Civil Engineering's Systems Methodology Group.

He holds the engineer degree from Catholic University of Louvain, Belgium (1965), the MS from the University of Deleware (1967), and the PhD from MIT (1970). He joined the faculty in 1969 and from 1974-77 he was the Gilbert W. Winslow Career Development Associate Professor.

Roy E. Welsch, management, of Reading. Professor Welsch's work is in the center of activity of modern statistical research and deals with such varied topics as robust regression, statistical computing, nonlinear estimation and econometrics. His research interests and statistical outlook are focused on applications. He has played an important role in the development and growth of the Operations Research Center and the Center for Computational Research and Economics in Management Science.

Professor Welsch, holds the AB in mathematics from Princeton University (1965) and the MS (1966) and the PhD (1969), both in mathematics and both from Stanford University. He joined the faculty at the Sloan School of Management in 1969.

### Group To Study Monsoon Season

Several MIT scientists and students are participating in an international scientific study of the atmosphere's single most massive weather phenomenon, the monsoon.

Dr. Kshudiram R. Saha, Dr. Frederick Sanders and Dr. Jagadish Shukla, all of the Department of Meteorology, are involved in the four-month-long summer Monsoon Experiment (MONEX), which began earlier this month. Nearly 200 American scientists are participating in the 36-nation study signed to learn more about mo soons. Dr. Saha is a visiting scientist from India and is director of the Indian Institute of Tropical Meteorology.

The best-known monsoon is the summer monsoon which delivers nearly all of India's rain during June, July, and August. The monsoon can change the Indian landscape virtually overnight from brown and yellow to verdant green. However, when the monsoon is weak much of the nation is unable to grow enough food and the economy suffers drastically.

Less well-known but also important, is the winter monsoon that delivers three-quarters of the total rainfall to the Philippines, the Malay peninsula, Indonesia and parts of Australia.

The MIT scientists will participate in the study of the summer monsoon. Professors, Sanders, Shukla, Dr. Saha and student Philip Sabella will spend part of this summer in India on this National Science Foundation sponsored research.

Page 4, Tech Talk, May 30, 1979



Armstrong



Atwater

Baker



Barocci





Clark

Clearey



Etheredge



Goldfeld



Gossard





Kazimi



Kobrin







Martinez-Sanchez Levitt

#### Greitzer Hall To Associate Professor **Promoted**

Thirty-four MIT faculty members have been promoted to the rank of associate professor effective July 1. They are: Harold Abelson, Division for

Study and Research in Education and Electrical Engineering and Computer Science (joint), of West Newton. Professor Abelson, who has combined theoretical work in computer science with uses of computer technology to enhance education, received the AB in mathematics from Princeton University (1969) and PhD in mathematics from MIT (1973). He was appointed an assistant professor in

Robert C. Armstrong, Chemical Engineering, of Lexington. Professor Armstrong, an expert in the flow of polymer liquids and in the processing of polymers, holds the B ChE from the Georgia Institute of Technology (1970) and the PhD in chemical engineering from the University of Wisconsin at Madison (1973). He was appointed assistant professor in 1973 and was the duPont Assistant Professor of Chemical Engineering in 1974-76.

Tanya M. Atwater, Earth and Planetary Sciences, of Boston. Professor Atwater, a geologist working primarily in marine problems, received the BA in geophysics from the University of California at Berkeley (1965) and the PhD in earth sciences from the Scripps Institution of Oceanography (1972). She was an assistant professor at the Scripps Institute of Oceanography in 1972-73 and came to MIT as an assistant professor in

Raymond M. Baker, Biology, of Stoneham. Professor Baker's research interest is in the area of the genetics of cells of animal origin-including human-maintained as tissue and cell cultures. He received the BS in biophysics from Yale University (1962) and the PhD in biophysics from the University of California at Berkeley (1969). He was a staff scientist at the Division of Biological Research, Ontario Cancer Institute, Toronto, 1971-74; assistant professor at the Department of Medical Biophysics, University of Toronto, 1973-74; staff scientist at the Research Institute, the Hospital for Sick Children, Toronto, 1973-74; and became an assistant professor at the MIT Center for Cancer Research and Department of Biology in 1974.

Thomas A. Barocci, Sloan School of Management, of Boston. Professor Barocci's research has concentrated on the evaluation of government-sponsored employment and training programs, evaluation of public works and economic development projects, and the impact of the structure of collective bargaining laws on the outcome of contract negotiations. He holds the BA in economics (1968), the MA in industrial relations (1969) and the PhD in industrial relations (1972), all from the University of Wisconsin. He was an assistant professor at Cornell University in 1973-74; chief economist for Massachusetts' Executive Office of Manpower Affairs in 1974-75; special assistant to the director of the Regional Manpower Institute in 1975-76; and became assistant professor at the Sloan School in

Michael J. Bevan, Biology, of Somerville. Professor Bevan is a cellular immunologist whose research focuses on the study of factors that result in the formation of special kinds of cells important in the antigen-antibody reaction. He received the BSc (1967) and MSc (1968) from London University and the PhD from the Council for National Academic Awards (1972). He was an assistant professor at the Salk Institute in 1975-77 and came to MIT as an assistant professor in 1977

Rafael L. Bras, Civil Engineering, of Lexington. Professor Bras' research is in the general area of surface water hydrology, with emphasis on the treatment of rainfall and runoff as random processes in space and time. He holds the SB (1972), SM (1974) and ScD (1975), all in civil engineering and all from MIT. He was a natural resources specialist with the Puerto Rico Department of Natural Resources in 1972-73; an assistant professor at the University of Puerto Rico in 1975-76, and came to MIT as an assistant professor in

Joel P. Clark, Materials Science and Engineering, of Sherborn. Professor Clark, who has pioneered the establishment of research and teaching programs in materials systems and policy studies, received the BS in engineering science (1966) and MS in materials science (1970) from Florida State University, the ScD in materials science (1972) from MIT and the SM in management (1975) from MIT. He was a project manager in research and development for Texas Instruments, Inc., in 1972-75; and was appointed an assistant professor at MIT in 1975.

Michael J. Cleary, Mechanical Engineering, of Lincoln. Professor Cleary, a researcher in the field of continuum mechanics with current interests in the behavior of geological and/or porous materials, received the BE in civil engineering from the National University of Ireland (1972) and the MS (1974) and PhD (1975) in Mechanics and structures from Brown University. He became an assistant professor at MIT in 1976 and has been the C.R. Soderberg Assistant Professor

in Power Engineering since 1978. Lloyd S. Etheredge, Political Science, of Cambridge. Professor Etheredge, a specialist in political psychology, political behavior and methods of political analysis, holds the BA in economics from Oberlin College (1968) and the MA in international relations (1970), M Phil in political science (1972) and PhD in political science (1974), all from Yale University. He was an assistant professor at the University of Manitoba in 1974-75 and was appointed an assistant professor at

MIT in 1975. Chritos Georgakis, Chemical Engineering, of Newton. Professor Georgakis, an expert in the modeling and optimization of the dynamics of chemical reactors and processes, has the Chemical Engineering Diploma from the National Technical University in Greece (1970), the MS in chemical engineering from the University of Illinois (1972) and PhD in chemical engineering from the University of Minnesota (1975). He was duPont Assistant Professor at MIT in 1975-76, assistant professor in 1976-77 and has been Edgerton Assistant Professor since 1977.

Dorian Goldfeld, Mathematics, Arlington. Professor Goldfeld, who works in analytic number theory, received the BS from Columbia University (1967) and PhD in pure mathematics from Columbia (1969). He was a member of the School of Mathematics, Institute for Advanced Study, Princeton, in 1973-74, visiting professor at the Scuola Normale Superiore in Pisa, Italy, in 1974-76, and was appointed an assistant professor at MIT in

David C. Gossard, Mechanical Engineering, of Watertown. Pro-fessor Gossard, a researcher in the field of computer aided design and computer aided manufacture, received the BS (1968) and MS (1970) in mechanical engineering from Purdue University and the PhD in mechanical engineering from MIT (1975). He was appointed an assistant professor in 1975.

Edward M. Greitzer, Aeronautics and Astronautics, of Wayland. Professor Greitzer, an authority on surge and stall in axial flow compressors, a subject of crucial importance to the aircraft engine industry, received the AB in physics (1962), MS in engineering (1964) and PhD in mechanical engineering (1970), all from Harvard University. He was a research engineer with Pratt & Whitney Aircraft, United Technolgies, Inc., in 1969-76, an Industrial Fellow Commoner at Cambridge University in 1975-76, and a senior research engineer at United Technologies Research Center in 1976-77. He was appointed an assistant professor at MIT in 1977.

Linda M. Hall, Biology, Cambridge. Professor Hall's research has been directed toward an understanding of the structure-function relationship of components of the excitable membranes of nervous tissue in Drosophila melanogaster. She received the BS in biology and chemistry from Bucknell University (1965) and PhD in biochemistry from the University of Wisconsin at Madison (1970). She became an

assistant professor in 1973. Mujid S. Kazimi, Nuclear Engineering, of Newton. Professor Kazimi, whose research has been in the area of liquid metal fast breeder reactor safety, holds the B Eng in nuclear engineering from the University of Alexandria (1969) and the SM (1971) and PhD (1973) in nuclear engineering from MIT. He was a senior engineer for the Westinghouse Electric Corporation in 1973-74 and an associate nuclear engineer at the Brookhaven National Laboratory in 1974-76. He was appointed an assistant professor at MIT in 1976.

Stephen J. Kobrin, Sloan School of Management, of Arlington. Professor Kobrin, whose research has focused on the relationship between international business and politics, received the B Mgt E from Rensselaer Polytechnic Institute (1960), the MBA from the University of Michigan (1975). He became an assistant professor at the Sloan School in 1975 and Ford International Assistant Professor in 1976. He has been a research associate at the Center for International Studies since 1977

Steven R. Lerman, Civil Engin-

eering, of Winchester. Professor Lerman's expertise is in transportation systems, with emphasis on location and travel demand modeling. He holds the SB (1972), the SM (1973) and PhD (1975), all in civil engineering and all from MIT. He became an assistant professor in 1975 and was named Gilbert Winslow Career Development Assistant Professor in 1977

Raymond E. Levitt, Civil Engineering, of Bedford. Professor Levitt, whose research has been in areas of fundamental importance to the construction industry, such as construction safety, received the BSc in civil engineering from the University of Witwatersrand, South Africa (1971) and MS (1973) and PhD (1975) in civil engineering/construction management from Stanford University. He became an assistant professor at MIT in 1975.

Manuel Martinez-Sanchez, Aeronautics and Astronautics, of Lexington. Professor Martinez-Sanchez's research has been in fields as diverse as MHD power generation and wind energy conversion. He has the Aeronautical Engineer degree from the University of Madrid, Spain (1967) and three degrees from MIT in aeronautics and astronautics, the SM (1968), EAA (1969) and PhD (1973). He was appointed an

assistant professor in 1974. Nathaniel J. Mass, Sloan School of Management, of Acton. Professor Mass' research has focused on the elaboration of computer simulation techniques as applied to the search for solutions to complex socio-economic problems. He is currently director of the System Dynamics National Model Project in the Sloan School. He received the BS in applied mathematics (1972) and PhD in management (1975) from MIT. He became an assistant professor in 1975.

Jeffrey A. Meldman, Sloan School of Management, of Cambridge. Professor Meldman's research has focused on the application of concepts derived from computer science and management information systems to substantive legal problems, particularly those dealing with privacy and computer-aided legal analysis. He has the SB in electrical engineering from MIT (1965), the JD from the Harvard Law School (1968), the SM in electrical engineering from MIT (1970) and the PhD in computer science from MIT (1975). He became an assistant professor at the Sloan School in 1974, and since 1977 has been a member of the adjunct faculties at Boston College Law School and the Franklin Pierce Law Center.

Philip C. Myers, Physics, of Winchester. Professor Myers, a radioastronomer whose special concern is the physics of dense interstellar clouds from which stars are eventually formed, received the AB from Columbia University (1966) and PhD from MIT (1972). He was an Office of Sponsored Research staff member of the Research Laboratory of Electronics in 1972-75 and was appointed an assistant professor in 1975.

Starr Ockenga, Architecture, of Ipswich. Professor Ockenga, an artist and photographer who has been instrumental in the reorganization of the Creative Photo-





Ockenga



Rowell



Solomon



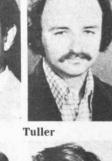
Steadman



Sung



Tanaka





Vandiver



Ward



Weinberg

Wilson

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Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and Institute extension. Persons who have no extensions or who wish to list only home telephones may submit ads by coming in person to the *Tech Talk* office, Rm 5-113, and presenting Institute identification. Ads may be telephoned to x3-3270or mailed to Rm 5-113. **Dead line is noon Friday before publication.** 

#### For Sale, Etc.

12' alum Skiff Sea Nymph w/full floatation, oars & oarlock incl, ideal for car top boat will take up to 10 hp motor, weight appr 80lb, fine cond, \$175. Call 523-3792 aft 6pm.

Framelss, plate glass mirror, gd cond, 351 "x6'8", \$24. Call Lillian x3-5313.

Custom made curtains, best; white hi fi cab w/sliding drs, 18x42x27, \$35; Creative Plaything bldg blcks, ½ prc; 4 K wall cabs, maple, best. Call

Stripping down '72 Vega GT, mny parts avail, real mags w/stl beltd rads; GT dash & instrumentation, stablilizer bars & racing sprngs, gd eng & much more. Call Alan x5-9540 Dorm or 828-6925.

Fine Exakta camera & access used only a week, \$350 or best. Call 464-2709.

Tennis rackets, Wilson T2000, 414 med, strung, \$20; seamlss 412 med, nds repair, \$5. Call x3-8240.

Summer furn for sale, chaise lounge, white, plastic, exc cond, 30" round tble, white gd cond, best. Call Mary x3-5646.

Sigma 200/4 macro-tele-lens, \$95; aux tele & wide lens set for rangefinder cameras, \$40. Call Helmut x3-1859.

4 pc drum set w/I crash & 2 high hat symbols & all nds, \$100, Call 354-2164 eve

Waterless cookware 19pcs stainlss, brnd nw. Call Paul x3-2979.

Aquarium 20 gal w/stand, light, htr & filter, \$65. Call Bill x8-1206 Draper.

TV 23" Cetchell-Carlson console color TV, nds work, \$25. Call Gary x3-3021.

Hahvahd t-shirts, mfd by Champion, sz M, L, X-L. only, \$5.50. Call Fred x5-7121 Dorm or ly msg at Baker x3-3161.

GE, Refirg, 2 dr med sz, clean, works fine, frzr doesn't, free. Call Jon 862-7103.

Sofa bed, \$35; end tble, \$15; smoke cab, \$10; carpet \$25; other furn, all nego, mst move. Call Harry x5760 Lincl or 648-4286 eves.

Old plywood record-cab radio 1x3x4', best. Call

Boys 3 spd bike, 19" frme, \$35. Call x8-4009

Stereo equip: JBL Lancer 99 oiled walnut spkrs, McIntosh MA 230 amp & MR67 FM tuner; Thorens TD 124 trntble w/Stanton 681EE cart. Call Dr. Biller x3-7802.

Moving mst sell hsehold furn, sofa, arm chrs,tble, color TV & more surprises. Call Avi x3-7039.

Wrought-iron patio thle w/umbrella & chrs. Call Dianne x3-1762.

Fisher upright piano 60 yrs old refinished, \$400 or best. Call x3-1658 or 723-4838 eves.

3 wooden bed frme, tw sz, \$25 ea. Call Mandel x3-

Utility trailer 4x6' pickup, bed w/wood sides, 15" whls, lights, tongue crank, safety chains, \$175. Call Ed x8-4334 Draper or 396-1911 eves.

3 spd W bike, 19", br, gd cond, \$45. Call x5589 Lincl.

6" reflecting telescope, Critenon RV-6 complete, incl 3 eyepieces, \$175 or best. Call x3-5551 or 358-

Kg sz foam matt, 112 yrs old, \$40; 2 tw sz box sprng matt, \$20; B&W TV 19", \$20. Call 643-5791.

Sm wood desk, classic design, beautiful carpentry, exc cond. \$30 or best. Call Tom 864-7087.

Child car seat, exc cond, lk nw. Call 494-0073 eves

Set M golf irons, \$25. Call Peter x3-1575. Sherwood S.9000 intergrated stereo amp, 150wat-ts/channel, \$60. Call x3-7848.

Color TV 10" port, GE gd cond, \$100. Call Helen

Fastened concrete blocks from 2 car garage. Call Pat x8-1177 Draper.

Stereo csst tape deck, top loading, Dolby sys; Technics by Pansonic RS-64OUS, \$150. Call Molly or Dave 261-2442 eves.

Oriental rug 9x12 gr pastel bekgrnd w/floral desgn, exc cond, \$525. Call x3-5421 Lincl ask for Ken.

Jan '68 to Aug '71 issues of the Journal of the American Chemical Society, free, Call Joanne x3-6739. Trnthle BIC 940 w/wood base, dust cover & Shure

cart, exc cond, \$45. Call Jeff x3-2540 TV color RCA 19", exc cond, nego. Call x3-7802.

Farberware elect open hearth broiler, \$15. Call x3-

CB radio Royce 23 channels, plug-in mike, best. Call Holly x3-7786.

Refrig, 2 dr, 8.2 cf, fits dorm or apt, dim appr 5x-2x2, gd cond, \$75 or best. Call 489-1544 aft 6pm.

BR furn, 2 dressers, mirror, night stand, lamp, almst nw qu sz bed w/firm matt, \$170; wl sell items separately. Call Suzy Zipkin x3-3137.

Vacuum cleaner, Sears powermate W/attachments, \$25. Call x3-5049 N. McGavern.

10 spd bike, 26", 21 FR, exc cond, 1st owner, \$75. Call Farid x3-4218 or 494-8377.

2 swivel, rock LR chrs, vy gd cond, \$60 ea; chest of draw, \$30; many other hsehold items, lv the country, mst sell. Call 277-5493 aft 6:30pm.

IBM Typewrtr, executive W/extra keys, \$145; Persian rug, Tabriz, 11x9 \$2450; couch & chr, sofa dble bed, \$550; Sony color TV, KV-17120, 17", \$350; shortwave radio, Panasonic RF-2800, Digital freq tuning, \$165; Zenith Alarm radio, circle of sound, \$25, all nego. Call 646-4241.

Asahi Spotmatic Pentax 50mm lens, adapotr, gd cond, \$125; pocket programbl calculator, mod aft Tl#58, \$50 or best. Call Susan Gill 547-6369.

Canon AE-1 35mm camera w/55mm f/l.8 all cases pw winder 8 strap, lk nw, \$360 or better; also Sony 9" Trinitron color TV, exc cond, \$249. Call 321-

Lawn mower Sunbeam elect, usd 2 season, \$45. Call Alan Hein x3-5759.

Sofa, refrig, steel desk, sngl bed, matt, sprng, frme, & misc, in gd cond. Call 666-9681 eves.

6 port TV, some in work cond, also 1 colored, best. Call 395-7265 aft 2pm. Pr of tw beds, \$125 ea; butcher-blck & metal cabs desk, \$250; Labofa desk chr, \$80; 9x12 rug, \$80; exc

cond. Call 536-6697. 2 sets X country skis, all equip, M sz  $10^{+}\rm{z},~6'3''h,$  W sz  $8^{+}\rm{z},~5'6''h,$  all for \$110 or \$55 ea; 2 prs ice skates, M sz  $10^{+}\rm{z},~\$5,$  W sz  $8^{+}\rm{z},~\$20;$  2 #15 snows mntd, \$40. Call x3-6944 or 729-1425.

Kg sz waterbed, vy gd cond, complt grid pedestal

stand, frme, matt, fitted liner, htr & thermo, nw \$290, ask \$150. Call George x3-7795.

Elect lawn mower, 18" Sunbeam runs but motor nds work, \$10; sngl bed & box matt, \$25. Call x3-4629.

Dbl bed w/box sprng & frme, Simmons super firm, exc cond, \$100. Call Alan x3-2521 or 492-0344.

Child's bike & ice skates, bike 20", 13", \$25; B ice skates, sz 11, figure, blck, \$5, all are in exc cond, prc nego. Call Kawabata x3-6726.

EMS divided backpack, \$45; EMS Toursack w/internal frme, \$40. Call John x5-6228 Dorm or ly Zuckermann 7' French dbl man harpischord, part-ly built, all parts & man avail, \$1500. Call x3-7364.

Apt furn, desks, chrs, dressers, bkshlvs, etc. Irv x3-6328 or 864-0789. A/C high efficiency 14000 BTU 110V/12A EER

equals 10, auto, 3 spd fan, exc cond, nw \$469, ask \$200. Call x8-4426 Draper. 10 spd French made, Astra, M bike, touring

cluster, Heret derailures, quality components, gc cond, \$80. Call Dick x368 Lincl or 443-8549 eves Tw sz bed w/box sprng, matt & metal frme, \$40; metal bkcase, \$10; med sz vnyl covered sofa-bed, \$15. Please contact 494-8883 late afternoon.

#### Vehicles

'63 Buick Wildcat convertble, vy beautiful cond, mny extras, incl bucket seats, custom lacqueur paint job, Cragars whls, prc, \$3000 nego. Call 321-

65 Buick wg. mid-sz. runs fine, brks & tires gd. rustprf, usd every day. Call x3-2228 or 244-4181. '66 Mercedes 230S, complt reblt motor, 5 nw rads, exc cond in & out, \$4000 firm. Call J. May x8-2843 Draper or 492-1403 aft 5pm.

'66 Pontiac, gd cond. nd minor motor work, \$125. Call x5521 Lincl or 447-4293 eves aft 6pm.

'66 Saab, 2 stroke, 20K on reblt eng, gd trans, tires endable, sell quickly, lea 494-8300.

'67 Ply Fury II, 4 dr. gd cond, clean, \$550 or best. Call Sal x7321 Lincl or 396-6754.

'69 Chevy wg, Kingswood model, gd bdy & interior, gd tires + pr of mntd snows, 327 V8 eng, hydramatic trans, nw brks, shocks, frnt eng, ign sys, doesn't burn oil & dependable, \$650. Call x3-2720.

'69 Volvo 4 dr sedan auto, 78K, gd cond, nw shocks, brks, bttry & exh sys, no dents, \$975, 6 extra tires & rims. Repair manual. Call Mark 729-4652.

'70 Chevy Malibu, 6 cyl, auto, dryable complt or parts, cheap. Call John x8-1345 Draper.

'70 Dodge Polara vy gd cond, mny nw parts, \$1050 or nearest offer. Call 494-9281.

70 MGB Covertbl w/roll bar, AM/FM, 30 mpg, \$1000, Call x3-2991.

'70 Ply Duster, 6 cyl, man trans, mech & bdy gd, 95K, \$750. Call Bill x3-6727 aft noon.

'70 VW Bug, 2nd owner, 84K, exc cond in & out, AM/FM, pr snows, lv country mst sell, ask \$650. Call x3-5106 or 734-1203 eves.

'71 Chrysler New Yorker, bdy gd cond, eng vy gd cond; vy dependable, gd tires, mst sell in nd for some cash, \$450 or best. Call Pat x7705 Lincl.

'71 Dodge Colt stat wg, gd cond, runs well, \$400. Call Mark x3-2955 or 625-0542 late eves.

'71 Ford Country Sedan wg, 80K, runs vy well, gd cond. except for r/fender rust, \$650. Call x7681 Lincl.

'71 Town & Country wg, A/C, auto, PS & PB, gd run cond, \$550. Call x5341 Lincl or 876-1316 eves. '71 Vega, gd eng, tires gd, low mlg, nds trans, \$150. Call 625-4078.

'71 VW Super Beetle, sunrf. AM/FM, 15K on reblt rust, gd city car, \$1000. Call 267-6147

72 Chevy Bel Air, 8 cyl, 4 drs, gd tires, nw brks, nw bttry, vy gd bdy cond, runs well, \$90 mst sell. Call Jose 492-4317 aft 7pm. vell, \$900, ly country

72 Dodge Polara, 4 dr HT, V8, AM/FM, A/C, PS & PB, 48K, recent brk job & universals, vnyl rf, kill switch, ask \$875 or best. Call Rocky x3-4834.

'72 Ford Mavrick rebit eng, mny other nw parts, nd some work, best. Call before 2pm, 289-1263.

'72 Vega, 57K, running cond, some rust, \$100. Call

'73 Ford Gran Torino, \$1000, Call x3-2617.

74 Buick Skylark, 2 dr. A/C, PS, PB & windows, rads, 80K, \$950. Call Benny 734-7850.

'74 Ford Mustang II, stand, exc cond, 35K, PS & PB, nw rads & mffler, mst see to appreciate. Call x3-5957.

'74 Pinto, 2 dr. auto, AM, 59K, vy gd cond, lk nw, \$500 or best. Call Kalvey x3-5557 or 536-2813.

'74 Ply Sports Suburban Wg, auto, A/C, PS & PB. Call Jim x7724 Linel.

'75 Alfa Romeo Alfetta GT, AM/FM stereo, rads, garaged, rust proofed, exc cond, 22-35 mpg, \$4900. Call 838-2946 aft 8:30pm.

'75 Chevy Malibu, exc cond, PS & PB, V8, A/C, cruise control, AM/FM, 48K, w/stud snows, \$2500. Call Hiro 661-4131, avail end of May.

'75 Honda ('B750F Su-per Sport, exc cond, jst tuned, nw chain & r/tire, 14K, \$1500. Cal Mark

'77 Mustang, 6 cyl, A/C, AM/FM, stereo tape, r/defrost, PS, digital clock, snows, low mlg, Call 924-0264.

'79 Chrysler La Baron, 2 dr. 6 cyl, auto, PS & PB, AM/FM stereo, exc cond, \$4800. Call Walt x3-

79 Pinto stat wg. 7600mi, 4 spd, AM, r/defog undercoat & rust proof, only, \$850 + assume finance payments. Call 327-5691 Cesar or 325-5449 Margaret.

# Housing

Sublet 7/1, 1 BR apt, Allston, Union Sq, \$220/mo, 2 mos-14mos. Call Michael x3-6295.

East Arl, 1st fl of 2 fam hse w/2 BR, & cls to T, avail June 16, \$280/mo + util, no park, no pets. Contact John x3-1923 or aft 646-6160 aft 9pm.

Sublet, furn rm water bed in Back Bay, secure, great view, shr K, B. Call 266-7797.

Back Bay 1 BR summer sublet, 10 min walk to MIT, avail June 13-July 8, furn & util, \$310/mo. Call x3-3665 or 353-1029.

Beacon apt, summer sublet, 1 BR, LR, furn, nr Bos Common & Arl station, \$285/mo incl all util, avail July 1-Sept 2. Call Yama x3-3193 or 536-7710 eves.

Bel lg furn rm 10x18 in furn bsmt of beaut hme, pool & tennis nr by, K prvlg, park, non-smoker, \$29/wk. Call 484-6833.

Billerica, 8 rm hse, nw wiring, plumbing, town sewerage, hot air ht, \$37500; tent trailer, slps 6, 2 burner gas stove, cooler, canopy, \$1100; '77 Chevy pickup w/carpet, trailer hitch, 6 eyl, 3 spd stand, \$3500 or best. Call x7085 Lincl or 663-4767 eves.

Billerica-Bedford line, 8 mi to Lincl Lab, complty renovated cape, 2 or 3 lg BR, 112B, DR, LR, 14x24', frpl, ww. deck, beaut 1, acre corner lot, \$68,500. Call x7124 Lincl.

Brkline, furn hme avail Aug 7, '79 to Feb '80, 8 rms, 3-4BR, 3B, 1st fl laundry, porch, yard, park, walk to elem & high sch & shops. Call 277-3711.

Brkline 3 BR, quiet neighborhd, nr T, avail 7/1. Call Irv x3-7212. Spc apt, Beautiful, sun, Brookline, LR, DR, frpl,

eat-in K, porch, 2 BR, study, summer sublet 6/1 t 9/30, nr T, \$450/mo incl util, A/C. Call x3-6215. Summer sublet hse in Camb, betw Har & MIT, 2

BR, LR, K, DR, porch, vy quiet w/secluded yard, flly furn, \$350/mo. Call 868-3228. Summer sublet w/opt, 1 BR apt on Inman St, Camb, \$275/mo incl ht. Call Paul x3-5040.

Camb summer sublet, desirable, lg hse nr Harv Sq. 2 or 3BR, avail mod K & laundry facilities. Call 491-4258 eves.

Camb townhse for rent begin Sept, nw 3BR,  $2^{+}zB$ , carpet, patios, D&D, Cambport, conv T to MIT, Kendall Sq., Bos Back Bay, City Hos, Medical ctr BU. Call 491-4258 eves.

Cape Cod cottage for rent Eastham, <sup>1</sup>1 mi from Great Pond 1 mi from beaches, on wooded lot, sundeck, 3BR, usd of 4 bikes, slps 4-6, \$200/wk. Call Ince 862-6509.

New Cape Cod hse on acre nr Auset, \$300/wk. Call x3-1316.

Deck hse in Carlisle on 2 wooded acres; cath ceilings, 4BR, 2BR, DR, util rm, 2 brick frpl, fam rm, LR, central A/C, 2 car gar. Call Jerry x7754 Lincl or 369-2118 eves.

Chelsea, duplex twhse sublet July 1 opt to lease, 1200 sf apt, 2 flrs, 2 BR, 2B, K, study & LR, 10 min by car to MIT, recently reblt. Call x3-2173.

Visiting prof furn hse for rent in Boulder, Colorado, 3BR, 21-B, exc sch \$550/mo + util, avail Sept 1, '79-June 30, '80, children OK, pets nego. Call Monica x3-4021.

tractive 1 BR cottage in Surrey village, 50 mins from Central London, Please call 547-0180 Peter Sun, studio, apt for rent July 1, 1 rm, walk-in

England, MIT student would like to rent his at-

closet, B, separate efficiency K, 2nd fl of Victorian hme, Jamaica Plane, prv entr, 'z blck from T, safe neighbrhd, all util incl., non-smoker, no pets, \$150. Call 524-4397 9am-6pm. Vacation hme on ME seacoast, furn, restored 200 yr old sea captain's hse on 100 acre woodland, Westport Island nr Weiscasset Me, \$400 for 5 wks. Avail June 25-July 31. Call starting June 4 Mat-

thew Scott x3-6839. Fryeburg, ME, White Mtns, 3BR chalet w/frpl, 500 yrds to Saco Rvr, exc loc, canoe, hiking & bird watching, \$115/wk. Call x5084 Lincl.

Newton furn hse, design by famous architect, top of-the-hill w/commanding view, 5 BR, 25 min drv from MIT, avail fall semester, \$200/ wk+ util. Call

Glenco Nova Scotia; no gas shortage in Canada, vac retreat loc on prv 12 acre hllsd site, overlks East Rvr Valley, 2 BR+ loft, swim in nrby river or waterfall pool, prime spot for birdwatching, hike, rock hunting, \$150/wk. Call Alex Parker x7453

Nantucket, 3BR delux townhse, ocean view, pool, tennis, reas rate, avail June 9-16. Call 924-0264 or 861-7487.

Summer lodge, lk Champlain NY, sailing, tennis, waterfrnt w/in walk distance, boats supplied, slps 6, \$350 for 2 wks. Call Catherine 924-4262 or Louis van de Velde, (401) 295-0290 or write LV 151 Main

St Wickford RI 02852 Stoddard NH, lakefrnt cottage screen porch, row boat, avail late Aug, Sept-Oct, brochures avail.

Call x8-1130 Draper. Lake Winnepesaukse, 1 stop vacation, 2 BR, 2B condo, alps 6, cable TV, A/C, swimpool, free tennis lessons, \$250/wk. Call x3-5169.

No Reading for rent Aug 1st, 7 rm hse, exc neighborhd, 3BR, 21-B, fam rm, frpl, 2 car gar, scrnd porch, ww, 12 acre wooded lot, \$525/mo sec dep & lease, no pets. Call Charlie x5750 Lincl or 664-2341

Somervile sublet w/rental opt, 4 rm, 2BR apt, nr bus & stores, ww, D&D, A/C, 2nd fl, laundry. \$30-0/mo incl ht. Call Karen x8-4499 Draper.

iblet, Tang Hall, 18F, furn, \$113/mo. nego Call Kim x3-4620 or 494-9287.

Tang Hall furn apt sublet for M, \$100/mo & all util incl, avail June 1 to Aug 31. Call Steve x3-6530 or 494-0455. Tang Hall sublet for M, avail June 1 w/opt for fall. Call Doug x3-5743.

Truro 6/15-7/31, betw ponds/ocean, swell hse, 4 kid's rms, guest rm, special master BR, d/d & w/d, decks, frplcs, 3B, etc, wonderful place, isolated in National Seashore, \$3100. Call 492-1458.

Quechee Lake Vt. 21 shrs Bos, via Rts 93 & 89, flly equip nw lodge, 8 rm, 4BR, 2B, LR, K, fam rm, sundeck, mtn view, prv area w/lg beach indr & out-dr pool, 2 golf courses, 11 tennis courts, 2 squash crts, stable, rent by wk or longer, reasonbl. Call x3-4291 or 545-1852.

Wayland dramatic 9 rm contemp set on 2 acres of mature woodland, cath ceiling, frpl, LR, oversz master BR & office, study w/sep entr, walls of mny beaut custom features throughout. Call (1) 358-7879 or 358-5023 Woburn, West Side, by owner, 6 yrs old, split, 3BR, dine area, 2 frpl, finished fam rm, sundeck,

ww, ask \$70,500. Call 933-6616 aft 6pm. Summer sublet 2 rm apts, Kenmore Sq. Bos, June 1-aug 20, \$750 ea. Call 267-2199.

BR apt, T at door, MIT property; all util laundry, D&D, AC w/carpet, \$285/mo, avail June
 88 Beacon St. #44, Somervlle, Call 354-6059

Prof on ly wants to rent his for 1 yr to responsible person 4-5 BR, A/C, D&D, w/d, burglar alarm, gar, 2 decks, wood stove, easy to ht, a real beauty at a gd prc, refs req'd. \$440/mo + util Call 522-7639 6-

Sublet, July 1-Aug 31, sm 2BR apt, totally furn, 812 Mem Drv, \$350/mo incl ht & util, mod high rise overlk Harv & river, 10 min walk to Harv & MIT. Call x3-4830 or 492-6216.

#### Animals

Free to gd homes, health active, 3 grey tiger kittens, 7 wk old, litter trained. Call Rita x3-4971. Vy affectionate M kitten approx 10 mos old, grey & white, mst fin a gd hme, lv the countr. Call 277-5493 aft 6:30pm.

Poodle puppies for sale, mom is a minature poodle dad is a toy poodle, puppies are 5 wks old, all blck, tails cut & temp shots, \$100 ea. Call x3-5332 or 685-

Mature, blue point siamese cat nd loving hme. Call Mo x3-5710.

Abandoned yng M long hair tiger cat hopes for better luck this time. Call Gisela x3-2291 or 266-2788.

#### Lost and Found

Lost: white bell star motorcycle helmet, lost Thurs, May 10, back of bldg 7. Please call Brian x3-1392 or 643-0447.

#### Wanted

Apt nd for Sept-May '80, around \$300 for post-doc. Contact Ms. Dandekar, 2647 6th Street, Apt 12, Santa Monica 90405 or call (217) 396-9690.

Nice & quiet part of Back Bay, Beacon Hill or Harv Sq 1 or 2 BR, furn or not, from June 9-Aug 30, rent nego. Call 262-6354 eves ask for Jean-Louis.

Visit prof looking for 2BR sublet July 1-Aug 15. Call 494-8379.

Young W 20's responsible quiet, sks 1BR apt or lg studio w/K & B & some greenery in Watertown/-Camb/Bel area or nr Fresh Pond/Huron Ave, I have full-time position at MIT & can provide reference, sec dep, etc, would lk to occupy by or before July 1 '79 for at least 1 fll yr, lease OK. Call x3-4366 or x3-

Mature, quiet, non-smoking foreign service couple 79-80 sch yr would lk to rent furn apt, min 2BR or sm hme, especially from prof absent on sabbatical, exc references. Write: James R. Phippard, American Embassy, Box 10, FPO New York 09527.

Colorful adult picture books, animal & baby pic. post cards, or other easy-to-handle pic, for us nursing hme. Call x3-4105. Shop manual for '70 Cadillac Eldorado. Call x465

Lincl or 374-8403. Beginning racquetball player looking for practice partners. Call Dorothy x3-3604.

10 spd bike. Call Mike x3-4136. Usd citadel or kryptonite bike lock. Call Loretta

A/G for sm rm. Call Alice x3-6211. Canoe 17'. Call x3-1734.

Reliable daycare of 10 mo old in Stowe, MA for summer, Mon & Wed, 7:30-5:30pm, refs req, Call for interview. Cindy x5401 Lincl or 897-7238 eves.

Babysitter to care for our 8 mo old daughter on our hme 20-30 hr/wk or full time, Brkline nr T. Call 731-5379 or 731-5374 aft 6pm. Wtd 2 used baseball gloves & 1 baseball. Call Alex

Usd refrig, Is than \$100 by June 1 or aft. Call x3-5957 ly msg for Brian Cat care — 3 beautiful, loving, intelligent cats, who go outdrs, to take care of 1 or more loving person(s) at your hse, care from July 6 to Sept 1 or middle Aug, will provide food, sick fund & stipend for carer. Call Susan 492-8057 or x3-2424.

Babysitter for infant child, returning to work, fll Camb hme, apprx 6 wks, begin mid June.

Call 661-1455. Shr moving expenses to Wash DC, lv in mid-June

### Roommates

Call x3-6464.

M or F wtd to shr apt in Allston nr BU prefer working person or grad student \$110/mo, avail July

1. Call Brenda x3-4784. Neat, quiet hsemate wntd to shr pleasant Arl hme, porch, frpl, nr T, \$80/mo + util, non-smoker. Call Susan x3-7709.

Camb, lg co-op heehold nr Central Sq, sks F rmmate 23 or older, shr stly vegetarian meals, cooking, chores, interests, 2 cats. Call 547-5539 or 661-

M rmmate wntd for lovely apt in Charlestown, MIT 10 min by car on T in residential area across from park, sm BR, rent \$130 + util, avail in July. Call x3-6829 or 242-1228.

Rmmate wntd for 3BR apt, quiet, non-smokers grad. Somerylle, T, quiet neighbrhd, \$87/mo + util, open in June. Call Terry x3-5806. Sublet, 1 M or F rmmate to shr 3 BR apt on Harv furn, for June & July, \$120/mo. Call Tom or Mike

2 F teachers looking for non-smoking rmmate to shr lg 3BR hse in Winchester, park, washer & dryer, dishwash, util incl, \$185/mo. Call 729-9499 sublet June 1-Aug 30, F rmmate wntd to

fill 1 BR in 5 person apt, co-op cooking & shopping, \$113/mo incl ht. Call Jenny, Bo, Brian, or Stuart

#### Carpools

864-5398 eves best.

864-7087.

Rd needed Swampscott-MIT M-F, wl shr gas expenses, Call Cheryl x3-6732.

Looking for someone to shr drving from Worcester area to MIT, 9-5pm, M-F. Call Dick x3-5640.

### Miscellaneous

in July. Call 864-3367 eves.

like company for the journey. Call 232-0219 eves.

Biking from Bkline to MIT in gd weather

Fam toddler day care, 1-21: yrs, loving, experienced pro staff, fil time only, Lex. Call 861 Looking for someone to shr dry & exp from Brusels. Heligum to Marsailles. France poss thru Swiss Learn to sing or play the piano! experienced, qualified conservatory grad w/12 yrs experience now has openings for nw students, all levels & ages, for more info please call 643-5791.

Moving? Dan's Van has a large truck & pro equip-ment, careful, dependable service at economical rates. Call 661-1683 anytime.

Heating, Air conditioning, Ventilation, Insulation work to be done, Arthur Dubois, 893-5174,

Wl do gen, tech, & thesis typing, IBM Correct Select, 11 yr exp. Call x3-6695.

WI do thesis typing, MS, reports, fast & accurate, self-correct IBM. Call Carol x3-4674.

Wl do gen, tech & thesis typing IBM Correct Select, 10 yrs exp. Call x3-4965.

# **POSITIONS AVAILABLE**

available on the MIT campus. Duplicate lists are posted on the Women's Kiosk in Building 7, out-side the offices of the Special Assistant for Women and Work (10-215) and Minority Affairs (10-211), and in the Personnel Office, (E19-239).

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

Dick Higham

Employees at the Institute should continue to contact their Personnel ()fficers to apply for positions for which they feel they qualify.

3-1594 3-1593 (Secretary Virginia Bishop 3-1591 Richard Cerrato 3-4266 3-4267 Ken Hewitt (Secretary - Marsha Gens) Sally Hansen 3-4275 Lawrence Milan Kathleen Rick

Academic Staff, Administrator, in the School of Humanities and Social Science, Educational Programs and Program in Science, Technology and Society to oversee a broad range of administrative ns related to School Programs: personnel functio functions related to School Programs: personnel, payroll, academic appointments, physical plant activities, space allocation, budget preparation and monitoring. Position requires a Bachelor's degree. At least 2 years' experience in academic administration is preferred. Training and/or experience in financial managment preferred. C79-14 (5/30)

(Secretary - Jenni Leibman)

Acad. Staff, Admin. Asst. in the Nutrition and Acad. Staff, Aamin. Assc. in the Nutrition and Food Science Dept. to assume responsibility for accounting related functions of Dept: prepare and review monthly projections with individual faculty members; supervise 4 accounting clerks; verify requisitions and invoices; maintain check register; prepare research proposal budgets; perform mis-cellaneous duties as necessary. Bachelor's degree or equivalent training and experience required. Good interpersonal skills also necessary. C79-11

Admin. Staff, Asst. Comptroller, in the Lincoln Fiscal Office to plan and direct adminsitrative and operational activities; direct recording and authentication of all transactions and financial reports (including analysis, review and interpretation o financial reports). Will also develop accounting procedures and systems; participate in computer feasibility studies; interface with auditors; advise and counsel others re: finances, handle training, review and evaluation of staff. Bachelor's degree in accounting or related field, or equivalent, neces-sary. Experience in contract administration, ac-

counting and university supervisory also necessary A79-31 (5/16) Admin. Staff, Production Manager, in the School Admin. Staff, Production Manager, in the School of Engineering Word Processing Center to participate in policy formulation including pricing policy. Will be responsible for production and accounting, public relations, performance, supervision training of employees, and overseeing general operation of production equipment. Bachelor's degree and supervisory experience, or equivalent, required. Knowledge of basic accounting, billing procedures and word processing equipment and good interpersonal and English grammar skills necessary. A79-28 (5/16)

Admin. Staff, Assistant Director, in the Office of Sponsored Programs to be responsible for proposal Sponsored Frograms to be responsible for proposal review, grant and contract negotiations, post award administration for sponsored programs, and acting as liaison with a number of academic departments and research laboratories. A Bachelor's degree, or the equivalent combination of formal education and experience is necessary Considerable experience in sponsored program administration and an understanding of university accounting is necessary. Previous MIT experience preferred. A79-30 (5/16)

sary. A79-28 (5/16)

Admin. Staff. Editor, in the MIT Press to prepare manuscripts for publication, copy editing, rewriting and reorganization as necessary; working with authors and with other members of the staff during the production process. Three or more years in a publishing house as an independent manuscript editor of scholarly books or equivalent in-house and free-lance work experience. Background in mathematics or sciences desirable. A79-29 (5/16)

Academic Staff, Assistant to the Dean in the School of Humanities and Social Science to assist the Dean in academic and administrative matters: act as secretary of the Faculty Committee on the Humanities, Arts and Social Science Requirement; process appointments, prepare budgets and monitor accounts, supervise payrolls and provide administrative assistance to programs reporting to the Dean. Bachelors degree or equivalent derstanding of budget preparation. C79-10 (5/16) Administrative Staff, Assistant to the Director in

coordinate financial, business, personnel, faculty and student related, and other administrative matters of the Center; to assist in the technical and administrative review of programs undertaken by administrative review of programs undertaken by the Center and to conduct special projects as as-signed by the Director. Bachelor's degree or equivalent required. MIT experience preferred. Previous experience in academic and/or research environments desirable. A79-27 (5/16) ored Research Staff, Sr. Counselor, for the

the Center for Policy Alternatives to manage and

MIT/Wellesley Upward Bound Program, Provost's Office, to supervise summer residental counseling program and counselors; develop and supervise program supportive of high school matriculation; establish and maintain a personal presence in the neighborhood to provide counseling to students; establish and maintain community contacts.

## Page 6, Tech Talk, May 30, 1979

Master's degree in counselling or Bachelor's degree with 2 years of related experience required. Mass. driver's license, good interpersonal skills and willingness to work a varied and demanding schedule also required. Applicant must be willing to live at Wellseley Collect For yeach. Wellesley College for 7 week summer se 125 (5/30)

Sponsored Research Staff, Technical Assistant, temporary, in the Biology Dept. to assist with research on the genetics, biochemistry and regulation of bacterial enzymes involved in nitrogen metabolism. A Bachelor's degree in Biochemistry or Molecular Biology required. Laboratory experience in genetic analysis using localized mutagenesis, transposons, and transduction, as well as experience in the assay of the bacterial enzymes glutamine synthetase and histidase also rezymes glutamine synthetase and histidase als quired. Temporary for 1 year. R79-127 (5/30)

Sponsored Research Staff, Microwave Engineer, in the Research Laboratory of Electronics to develop and test microwave radiometers, antennas and associated computer programs in order to evaluate the use of microwave radiometers for medical diagnosis, especially of breast cancer. Strong background in microwave hardware required. Master's degree and/or relevant experience also re-Master's degree and/or relevant experience also re quired. R79-135 (5/30)

Sponsored Research Staff, Experimental Plasma Physicist, in the National Magnet Laboratory to participate in project on ICRF heating of plasmas in the Alcator plasma fusion devices. Will assist in planning and executing experiments; analyze data and make correlations with theory. PhD in experimental plasma physics or related field with thesis work in area related to tokamak plasmas revisited Executions 19 page quired. Experience in rf plasma heating and/or the physics of parametric plasma processes desired R79-128, R79-129 (5/30)

Sponsored Research Staff, RF Engineer, in the National Magnet Laboratory to install, modify and operate multimegawatt VHF source for plasma heating in a tokamak plasma fusion machine; refurbish one megawatt rf amplifier chains with associated the programment of the staff of the sociated power supplies and control systems; design major modifications; oversee design and design major modifications; oversee design and fabrication of antennas and impedance matching network for ion cyclotron resonance heating. Bachelor's degree in Electrical Engineering or related field required. At least 5 years experience in high power VHF engineering also required. R79-130 (5/30)

Sponsored Research Staff, temporary, in the Center for Material Science and Engineering to provide silicon device and other microelectron processing services for research programs; assist setting up new processing equipment and develo new processing equipment and develop laboratory procedures; assist in es ing new laboratory procedures; assist in es-tablishing and conducting process monitoring programs. Bachelor's degree in Electrical Engineering including undergraduate experience in microelectronic device processing required. Temporary for 1 year. R79-131 (5/30)

Sponsored Research Staff, Research Specialist Sponsored Research Staff, Research Specialist, Software Systems Engineer, at Haystack Observatory, Westford, (MA) to develop, maintain and improve systems supporting real-time control, data processing, and data recording portions, of a sophisticated long-range, high-resolution radar system. (The system incorporates both minicomputers and array processors.) Strong math, engineering or physics background required as well as knowledge of assemble language and Fortran. Bachelor's degree plus 2 years' related experience required. R79-58 (5/30)

Sponsored Research Staff, Magnet Design Engineer, in the National Magnet Laboratory to use digital computer techniques for the design of superconducting and copper magnet systems; write and encode algorithms for design and analysis of magnets and magnetic fields; set up and operate computational facilities. Bachelor's degree in engineering, applied physics or computer science required. At least I year's experience in digital computation also requied. Magnet design experience desired. R79-133 (5/30)

Sponsored Research Staff, Electronic Design Engineer, in the National Magnet Laboratory to design and supervise construction and debugging of analogue and digital electronic circuits and systems: work with staff to develop hardware interfaces to computerized data requisition system; develop stand-alone data acquisition system. Knowledge of analog and digital electronic design-techniques and computer data acquisition hardware and software systems required. Bachelor's degree in electrical engineering or equivalent also required. R79-132 (5/30)

Sponsored Research Staff, Design Engineer, in the National Magnet Laboratory to design large super-conductivity magnets for MHD and power generators; design electrical and mechanical subsystems of superconducting magnets including windings, mechanical support members and cryogenic enclosures. Advanced degree in electrica quired. Superconductivity background desired. R79-121 (5/16) or mechanical engineering or applied physics and 5

Sponsored Research Staff, Technical Asst. in Arteriosclerosis Center to participate in clinical work and medical research in lipid and lipidprotein biochemistry and do related quantitative measurements. A Bachelor's Degree in Biology or Chemistry, and clinical laboratory experience re-quired. Familiarity with techniques for cholesterol and triglyceride analysis is desirable. R79-97 (4/18)

Sponsored Research Staff, in the Center for Cancer Research to work on projects involving molecular biology of poliovirus. Will also handle general lar responsibilities: order supplies; prepare solutions; maintain cells; assay virus. Bachelor's degree and expertise in electrophoretic analysis of proteins and nucleic acids, cell culture and virology re-quired. Laboratory experience in chemistry, biochemistry or cell culture also required. R79-98 (4/18)

Sponsored Research Staff, Technical Assistant, in related to the molecular biology of animal viruses: maintain animal cell lines in tissue culture: prepare titering virus stocks; collaborate on research in molecular biology and biochemistry of animal viruses and mammalian cells. Techniques include nucleic acid biochemistry, hybridization, general analysis of macromolecular components of cells. A Bachelor's degree in a basiscience and working understanding of current research in molecular biology required. Experience with tissue culture techniques, nucleic acid or pro-tein chemistry desirable. R79-90 (4/11)

Admin. Staff, Programming Analyst, in Information Processing Services, Academic and Research Computing Services, to consult with users of IBM and Honeywell systems — CMS, OS/VS1, Troll and Multics; advise on applications and operating systems; assist in developing consulting polic and consulting tools. Bachelor's degree equivalent, communications skill, and ability perform effectively in an "interrupt-driven" at-mosphere required. A79-35, A79-34 (5/30)

Admin. Staff, Systems Programmer, in the Information Processing Services Office to work with a team to support IBM 370/168 running VM/CMS and VS1: bring up new releases system tailoring; analyze problems; apply fixes, documentation and consulting. Primary languages used are Assembler, PL/1 and Fortran. A Bachelor's degree or equivalent combination of education and experience required, as well as experience in one of the above systems and in a time sharing environment. Proficiency in systems programming also required. A79-32 (5/30)

Sponsored Research Staff, Programmer, full or part time, temporary, in the Laboratory for Architecture and Planning to develop several large data sets and assist in analysis of data sets. At least I year of programming experience, experience on 370 — CMS and JCL — and in handling files on magnetic tape required. Fluency in Fortran also required. Knowledge of PL1 desired. 3 months full time or 6-8 months part-time. R79-136 (5/30)

Exempt, Area Food Service Supervisor, in the Food Service Dept. to supervise deliveries, preparation work, sanitation in dishroom, diningroom, pantry, etc.; conduct inventories, order supplies; avail self to customers for directions, questions and/or complaints; provide necessary staff and provisions, as well as supervise catered functions. A degree, or equivalent, in food field required. Some technical knowledge of menulanning and quality control and good interpret. and quality control and good interper lls also required. E79-17 (5/30)

Exempt, Credit and Collections Manager, at the Press to administer extension of credit to customers, and be responsible for collection of ac-counts receivable on credit sales. College degree in a business field preferred. Comunications skill necessary. Position requires occasional travel. E79-

Academic Staff, Assocatie Librarian, to coordinate collection activities in the three Science Libraries and to be responsible for selection and user outreach in all parts of the life sciences section. Will also maintain overall administrative responsibility in the Science Library in the absence of the Science Librarian. Master's degree in Library Science and an undergraduate degree in Chemistry or Biology or three-four years of experience in a science library required. Three to five years ex-perience in an acedemic library also required. C79-

Academic Staff, Asst. Librarian, in the Science Library to be responsible for developing and coordinating orientation and instructional services: schedule and conduct tours; prepare user aids; plan directional and instructional signposting. Will also be responsible for preparation of bibliographies, perform liaison services to research organizations; serve at Science reference desk. Master's degree in Library Science and two years library experience, preferably in reference, required. C79-12 (5/30)

Library Asst. IV, in the Libraries, Catalogue Dept. to be responsible for cataloguing serial/periodical added and second copy subscriptions and con-tinuations; search for bibliographic data; revise charge card/pocket preparation; perform various miscellaneous duties. Accurate typing skills, foreign language facility and capacity for catalogu ing detail required. College background a experience desired. B79-238 Secretary V in the Electrical Engineering and Computer Science Dept. Crystal Physics and Optical Electronics Laboratory to edit proposals, papers and reports; coordinate purchase order requisitions; monitor expenditures; type course work quisitions; monitor expenditures; type course work and problem sets; handle a variety of duties related to administrative and secretarial functions. Technical typing skill required. Shorthand or dic-taphone abilities desired. B79-278 (5/30)

Secretary V to faculty members of the Sloan School of Management's Industrial Relations Section to maintain supervisors' schedules; answer and screen phones and other inquiries; arrange luncheons; dinners and meetings; handle travel arrangements; coordinate other secretarial workload. Will also handle publications, contributions and some correspondence and manuscripts; monitor some correspondence and manuscripts; monitor funds; serve as liaison between Section and fiscal office with regard to accounts. At least three years experience required. Good secretarial and interpersonal skills and ability to set priorities also required. B79-286 (5/30)

Secretary IV/V to the Director of the Spectography Laboratory to type correspondence, proposals and papers; act as liaison between professors and graduate students; arrange travel; housing and schedule for visiting scientists; screen calls; schedule seminars and meetings; compose correspondence; maintain files and accounts. Excellent organizational and secretarial skills, and ability to coordinate and follow through on projects required. MIT experience preferred. B79-282 (5/30)

Secretary IV in the Real Estate Office, Treasurer's Office to handle mail; arrange travel; schedule meetings; maintain files; prepare correspondence, financial reports; type reports and correspondence Will also maintain budgets and handle tenants bil lings and calls; arrange repairs when necessary; perform miscellaneous duties related to real estate management. Excellent typing, organizational and interpersonal skills, ability to use calculator and pleasant telephone manner required. At least 3 years office experience required. Knowledge of MIT-Cambridge area and real estate business desired. B79-274 (5/30)

Secretary IV to two faculty members in the Program in Science, Technology and Society/School of Humanities and Social Science to type manuscripts, research notes and cor respondence; transcribe interviews from tapes; prepare class materials; maintain files and records organize meetings; schedule appointments; ar-range travel. Excellent typing and organizational skills, ability to set priorities and maintain confidentiality of materials required. Willingness to learn operations of computer for text editing and data entry also required. Knowledge of written French desired. B79-287 (5/30)

Secretary IV to four faculty members in the Chemistry Dept. to transcribe machine dictation type correspondence, technical manuscripts, gran proposals and course materials, schedule appoint ments; arrange travel; monitor accounts records; perform miscellaneous duties as neces sary. Excellent interpersonal, organizational and technical typing skills, ability to handle ac-counting and purchasing functions required. Ability to draw chemical structures or willingness to learn also required. 37.5 hrs/wk. B79-284 (5/30)

Secretary IV to three faculty members in Sloan School's Technology and Health Management Group to handle correspondence; type manuscripts, proposals, questionnaires and reports according to specific format; coordinate research project schedules; manage and coordinate data for computer analysis; edit manuscripts. Will also work on student registration process; maintain student records; maintain appointments; prepare and arrange for duplication of course materials. Good typing required. Shorthand skills desirable. B79-268 (5/30)

Secretary IV in the Sea Grant College Advisory Program which assists local communities in management of ocean resources. Will type material from rough draft to final form; assist in coordination of program activities agenda; maintain office equipment and conference room schedule; process publications request; provide backup phone and secretarial support when necessary. Excellent typing and organizational skills and good phone m required. At least one year of experience also

Secretary IV. part-time, in the Architecture Dept.'s Creative Photography Laboratory to han dle correspondence; type course materials; assist in gathering background and technical materials for treaching catalogue slides; perform reception duties; handle publicity of exhibitions and lectures. Excellent secretarial skills required. Familiarity with field of photography desired. 25-30 hrs./wk., M-F, 10-4, Sept-May. B79-276 (5/30)

Secretary IV in the Nutrition and Food Science Dept. to one faculty member to monitor accounts and purchasing; review manuscripts; type cor respondence, manuscripts, proposals and reports; act as liaison between research staff and Dent's administrative office; maintain files; send out reprints requested. Excellent typing skills, ability to recognize priorities and flexibility to work overtime required. Two years' experience preferred.

Secretary IV, part-time, in the Mathematics Dept, to type correspondence, course notes, mathematical materials; file; maintain records; arrange travel; answer phones and inquiries; arrange weekly statistics seminars. Excellent secretarial and organizational skills and ability to set

priorities required. At least 3 years' secretarial experience also required. Technical typing and shorthand skills desired. 20 hrs./wk., schedule negotiable. B79-258 (5/30)

Secretary IV in the Architecture/Engineering/Construction Office, Physical Plant., to file Construction Office, Physical Plant, to file; answer phones; schedule meetings; process mail; type various materials; handle employee time cards; perform basic accounting works; perform miscellaneous related duites. Excellent interpersonal, typing and spelling skills, ability to compose letters and knowledge of account systems required letters and knowledge of account systems required t least 3 years secretarial experience also re-uired. B79-261 (5/30)

Secretary IV, part-time, to a Radiochemistry Group at the Nuclear Reactor Laboratory to type croup at the Nuclear Reactor Laboratory to type correspondence from verbal instructions or written draft, proposals and reports (some technical); organize and maintain filing system; arrange travel; schedule appointments; assist in billing procedures; perform other duties as required. Good interpersonal, organizational and secretarial skills (including technical typing) necessary. Se years secretarial experience also necessary.

Secretary IV, part-time, to a faculty member and research group in the Earth and Planetary Sciences Dept. to type correspondence, class material, manuscripts; file; schedule appoint-ments; answer phones; handle mail; monitor accounts; handle routine purchases; assist in preparation of proposals and budgets; act as liaison between headquarters and research group. maison between neadquarters and research group. Excellent typing (including technical) and organizational skills, ability to set priorities re-quired. Secretarial experience and familiarity with accounts helpful. B79-236 (5/16)

Secretary IV for the MIT/Wellesley Upward Bou Program an educational program for Cambridge high-school aged youths designed to provide colnights-enois aged youths designed to provide cop-lege motivation and skills. Responsibilities include preparation of meeting materials; organizing orien-tations; maintaining files and records; typing cor-respondence and managing accounts. In addition to good secretarial skills, applicants must have ability to deal effectively and sensitively with inability to deal effectively and sensitively with in-dividuals from varied cultural and ethnic backgrounds. Position also requires commute to Wellesley College and working at that site during 7 week summer session. Mass. drivers license also necessary. B79-245 (5/16)

Secretary IV, part-time, to one faculty member in the Political Science Dept. to type correspondence, class materials and manuscripts from dictaphone and handwritten drafts; file; schedule meetings; interact with students; arrange travel; maintain records. Excellent secretarial skills, and at least 2 years secretarial/administrative experience or graduation from college required. Knowledge of 1 or more foreign languages helpful. B79-246 (5/16)

Secretary IV, in the Humanities Dept., Writing Program to assist in scheduling and developing in-struction programs. Excellent organizational and secretarial skills required. Secretarial experience also required. B79-247 (5/16)

Secretary IV, in the Chemistry Dept. to handle key requisitions, room reservations and parking assignments; answer phones; assist with various forms; type correspondence, manuscripts, etc. Good typ ing skill and good telephone manner required. At least 1 year of secretarial experience also required.

Secretary IV in the Optical and Infrared Laser Lab of the Physics Dept. to monitor accounts; handle lab purchasing; prepare budgets; perform miscel-laneous duties. Good secretarial skills necessary. Knowlege of MIT preferred. B79-251 (5/16)

Secretary III/IV in the Student Financial Aid Office to type correspondence and reports; assist in the compilation of statistics and financial data; provide information and assistance to students approvide information and assistance to students applying for financial aid; handle miscellaneous administrative duties. Excellent typing and interpersonal skills and a willingness to handle a variety of tasks required. B79-259 (5/30)

Secretary/Receptionist III, in the Graphic Arts Service to handle telephone system; type and process purchase orders; perform general clerical duties as necessary. Will also perform secretarial duties for the Purchasing Agent, Asst. Directors and Director. Good typing skill, ability to use calculator required. High school graduation also required. P20. 255 (20). required. B79-255 (5/30)

Secretary/Receptionist III, in the Center national Studies to answer phones and inquiries; sort and forward mail; address and stuff envelopes; greet visitors; type correspondence. Typing skill and excellent interpersonal skill required. Office experience also required. B79-260 (5/30)

Secretary III in the Research Laboratory of Electronics/Digital Signal Processing Group to 2 faculty members: type correspondence, technical manuscripts and course materials; maintain appointment calendar; xerox; file; answer phones and inquiries; arrange meetings and travel. Will also provide back up clerical support as required. Good secretarial skills, including machine transcription skill and willingness to learn how to use a computer editor required. Non-smoking office. B79-280 (5/30)

Section Head V in the Office of Personnel Services to coordinate computerized applicant flow system: route input slips through system; verify data receipt, accuracy, keypunch instructions and com-parison with log book; submit processing schedule; correct edit, update and error runs. Will also comdata pile statistics and assist in coordination of section work load; provide backup support to supervisor; perform special projects as necessary. Experience in working with statistical reports on computerized data system required. Excellent interpersonal skills, ability to set priorities and interest in supervision required. Background in personnel and familiarity iwth preparation of material for com-puter processing helpful. Some overtime may be necessary. B79-273 (5/30)

Admin. Asst. V in the Center for International Studies to perform secretarial and administrative duties: type correspondence, financial reports, etc.; process accounting data; payroll, personnel accounts payable and research proposals: forms, monitor account statements prepare budgets; forecast expenditures; maintain files. Good in-terpersonal, typing and communications skills and ability to make independent judgements required. Experience in payrolls, accounting, purchasing and personnel procedures also required. B79-234

Administrative Asst. V, part-time, in the Center for Advanced Visual Studies to assist Administrative Officer in project and academic ac-tivities; perform secretarial duties (type, answer phones, etc.); handle accounts; perform some editorial duties. Excellent secretarial and interpersonal skills and ability to solve problems required. Familiarity with the arts desirable. Familiarity with MIT preferred. M.F, 9-1. Applicants must have flexibility to work additional hours when necessary. B79-249 (5/16)

Technical Asst. V to support 2 working groups in the Artificial Intelligence Laboratory: produce documentary films relating to visual perception occumentary films relating to visual perception; operate photowriter. Strong background in photography and film making and knowledge of photowriter required. Ability to learn to write simple LISP programs and desire to learn about LISP Project also required. Knowledge of pyschology/physiology of visual perception preferred. 40 hrs/wk 173-250 (5/16) pyschology/physiology of visus red. 40 hrs/wk. B79-250 (5/16)

Technical Illustrator IV in the Research Technical Illustrator IV in the Research Laboratory of Electronics to produce camera-ready illustrations from rough sketches for use in journal articles, progress reports, slides, etc. Experience with Leroy, other drafting equipment and ability to do free-hand drawings required. Willingness to take directions from a variety of people also required. B79-279 (5/30)

Sr. Clerk IV in Information Processing Services to assist in the operation of a publications book store: order, receive and sell materials over the counter; distribute materials internally. Will use a computerized inventory control system, mailing system and text editing system. B79-184 (5/30)

Editorial Asst. IV to assist a faculty member in the Research Laboratory of Electronics in preparing scholarly articles and books; handle extensive correspondence; maintain archives, library and related files. Experience in bibliographic and editorial work required. Some training in linguistics and Slavistics. Ability to speak Russian, French and German and typing skill also required. B79-271 (5/30)

Sr. Clerk IV in Physical Plant/Building Operations to handle Job Order System; provide clerical support in the Preventive Maintenance Program; assist in scheduling and planning work for Mechanical Shops. High school graduation re-quired. Good typing, filing and interpersonal skills also required. Operation experience in a similiar environment desired. B79-266 (5/30)

Editorial Asst. IV, temporary, in the Industrial Editorial Asst. IV, temporary, in the Industrial Liaison Program to assist in the preparation of the Directory of Current Research: coordinate and organize incoming correspondence; maintain records and files; work closely with Editor, staff and publisher in preparation/typing of manuscript; proofread galleys; organized distribution of final product. Good organizational, communications and typing skill and ability to structure workload to meet publication timetable required. Temporary through Jan., 1980. B79-277 (5/30)

Accounting Clerk IV in Graphic Arts Service to handle all accounts payable functions, job billings and related clerical duties. Good math and interpersonal skills, and ability to operate calculator required. Accounting or business school graduate in three years of applicable experience also required. B79-240 (5/16)

Technical Typist IV, part-time, in the Research Laboratory of Electronics to type manuscripts; verify footnotes and references; edit manuscripts for proper grammar and format. Excellent English and technical typing skills required. B79-244 (5/16) Clerk/Searcher III. in the Libraries Microreproduc

tion Laboratory to receive and fill requests for microfilm and photocopy services; type invoices; file; retrieve requested materials from branch libraries. Typing skill, command of English required. Bookkeeping skills helpful. B79-283 (5/30)

Clerk III, Data Librarian, in the Information Processing Services Office/Administrative Computing Services to issue data files as required: puting Services to issue data files as required; maintain data files; perform procedures necessary to transfer backup files to, and retreive from, alternate storage sites, operate files purging system; perform standard library operating procedures. At least 6 months data processing experience required. 40 hrs./wk. B79-256 (5/30)

Data Entry Operator III in Information Processing Services Office/Administrative Computing Services to operate data entry equipment; enter routine data; punch cards from previously coded data or from data requiring application of routine codes; operate verifier in checking operations. codes; operate verifier in checking operations. Basic training in the operation of data entry equipment required. B79-257 (5/30)

Clerk III in the Medical Dept.'s Record Room to pull and file medical records as requested; dis-patch records to proper station; file a variety of materials; assist with maintenance of patient in dex file and periodic purging of active files; trace records; answer phones; occasionally perform special projects. Speed, accuracy and ability to work as a team and physical stamina to stand on feet all day required. Office experience with demonstrated success with varied clerical tasks also necessary. 37.5 hrs./wk. B79-270 (5/30)

Sr. Clerk III, part-time, in the Clinical Research Center to maintain admissions and discharge paperwork; chart patient data; update computerized records; answer phones; prepare various forms; type correspondence. Strong organization and interpersonal skills, and at least 1 year's experience required. Typing skill also required. B79-177 (5/30)

Keypunch Operatory III in the Comptroller's Ac counting Office to be responsible for data entry of all accounting systems: create magnetic tapes; retrieve data from tape to update on correct data. Ability to maintain batch balances and to verify all data required. Two to three years experience on Data-Entry systems (preferably on Inforex) also required. B79-241 (5/16)

Clerk /Messenger II/III in the Energy Labor operate and maintain Xerox machine and records order supplies; provide messenger service on campus; meter and post mail; perform general clerical duties. Good interpersonal skills required. Position involves a substantial amount of indoor/outdoor walking. Typing ability would help to expand clerical duties. B79-239 (5/16)

Clerk/Messenger II in the Office of Spon Programs to perform messenger duites on campus; handle mail: maintain xerox machines: file: prepare summary account statements; type lists and letters; perform miscellaneous clerical duties Typing skill required. B79-272 (5/30)

Clerk/Messenger II, temporary, in the Dept. of Materials Science and Engineering to handle general clerical duties; xerox; deliver and pick-up materials. Clerical skills required. Temporary for 1 year. 40 hrs./wk. B79-285 (5/30)

Clerk/Typist II, part-time, in the Medical Department's Health Information and Education Office to answer phones; type various projects; perform miscellaneous clerical duties. Good typing skills and good telephone manner required. Office experience desired. M-F 15 hours/week, 2-5 B79-243

Hourly, Plumber, in the Physical Plant Dept, to blueprints, specifications, verbal instructions or sketches. Mass. State License and five years ap-plicable experience required. Will be required to work an irregular schedule and must be available to work all shifts as necessary. H79-77 (5/30)

Hourly, Bus Person, part-time, in the Faculty Club to bus trays of dishes to kitchen; unload trays into dishwasher; assist in arranging tables and chairs for special functions. Experience helpful. Must be at least 18 years of age. 20 hrs./wk. M-F, 11am-3pm. H79-45, Positions include possible weekend

Hourly, Technician B (Electronic), at the Bates Linear Accelerator, Middleton, MA, Laboratory for Nuclear Science to construct circuitry from schematics, and provide general assistance in laboratory and research work; operate experimental and technical equipment. Graduation from a 2 year (day) technical school, or equivalent ex-perience, required. Familiarity with TTL logic is desirable. H79-75 (5/16)

The following positions were still available at *Tech Talk* deadline. The date following each position is the date of the most recent *Tech Talk* in which the was described

ADMINISTRATIVE STAFF:

A77-3, Admin. Staff, Systems Programmer, Information Processing Services (2/16)
A79-9, Admin. Staff, Mechanical Engineering A79-13, Admin. Staff, Alumni Regional Director

(Southeast), Alumni Association (3/14) A79-15, Admin. Staff. Industrial Liaison Officer. Industrial Liaison Program (3/21)
A79-18, Admin. Staff, Business Manager, Dean for Student Affairs (5/2)

A79-19, Admin. Staff, Sr. Applications Programmer, Information Processing Services (5/2)

A79-20, Admin. Staff, Admin. Officer, Lab of Architecture and Planning (5/2)
A79-21, Admin. Staff, Asst. Equal Employment
Opportunity Officer, Office of Vice President of
Administration and Personnel (5/9)
A70-29 Admin Staff, Charles Western Medical Property of the

A79-22, Admin. Staff, Technical Writer, Infor

A79-25, Admin. Staff, Perancial writer, Indiramation Processing Services (5/9)
A79-24, Admin. Staff, Programming Analyst, part-time, Information Processing Services (5/16)
A79-25, Admin. Staff, Programming Analyst, Information Processing Services (5/16)

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

Res. Staff, Sr. Accelerator R77-91, Spons. Res. Staff, Sr. Accelerator Physicist, Lab for Nuclear Science (5/18) R77-137, Spons. Res. Staff, Experimental

Physicist, Bates Linear Accel. (3/31) R77-228, Spons. Res. Staff, Plasma Physicist, Res. Lab of Electronics (1/4) R78-58, Spons. Res. Staff, National Magnet Lab R78-93, Spons. Res. Staff, Res. Engineer, Civil

R78-103, Spons. Res. Staff, Res. Engineer, Civil Engineering (5/10)
R78-103, Spons. Res. Staff, Lab for Nuclear Science (5/31)
R78-105, Spons. Res. Staff, Temp., Lab for Nuclear Science (5/31)
R78-117, Spons. Res. Staff, Temp., Economics

(7/12)

(7/12)
R78-135, Spons. Res. Staff, Research Lab of Electronics (7/26)
R78-145, Spons. Res. Staff, Electronics Engineer, Lab for Computer Science (8/16)
R78-161, Spons. Res. Staff, Engr. Asst., Center for Material Science (8/30)
R78-168, Spons. Res. Staff, Programmer, Center for Space Research (8/30)
R78-207, Spons. Res. Staff, Applied Magnetism Reseach, National Magnet Lab (9/27)
R78-208, Spons. Res. Staff, Postdoctoral Research, Nculear Materials, Nuclear Reactor (9/27)

R78-209, Spons. Res. Staff, Postdoctoral Research, Nuclear Materials, Nuclear Reactor (9/27)

R78-217, Spons. Res. Staff, Research Associate,

K/6-21/, Spons. Res. Staff, Research Associate, Civil Engineering (10/18) R78-228, Spons. Res. Staff, Research Engineer, tempoary, Energy Lab (10/18) R78-246, Spons. Res. Staff, Systems Program-mer, Lab for Computer Science (11/1)

R78-253, Spons. Res. Staff, Digital Engineer, Research Lab of Electronics (11/15) R78-268, Spons. Res. Staff, Tech. Asst., Biology (12/6)

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

(12/13)R78-285, Spons, Res. Staff, Accelerator

Physicist, Lab for Nuclear Science (12/13)
R78-286, Spons. Res. Staff, Systems Programmer, Lab for Computer Science (12/13) R78-305, Spons. Res. Staff, Theoretical Plasma

Physicist Plasma Fusion Center (1/10) R78-306, 307, 308, Spons, Res. Staff, Laboratory or Information and Decision Systems (1/10) R78-311, 312, Spons, Res. Staff, Lab for Com-

puter Science (1/10)

R78-315, Spons. Res. Staff, Experimental Plasma Physicist, National Magnet Laboratory R79-4, 5, 6, 7, 8, 9, 10, 11, Spons. Res. Staff, Postdoctoral Research, Center for Theoretical

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

R79-17, Spons, Res. Staff, Experimental Physics, National Magnet Lab (1/24)

R79-19, Spons. Res. Staff, temporary, Center for R79-19, Spons. Res. Staff, temporary, Center for Transportation Studies (1/24)
R79-21, Spons. Res. Staff, Research Scientist,
Energy Lab (1/24)
R79-22, Spons. Res. Staff, Lab for Nuclear
Science (2/7)

R79-24, Spons. Res. Staff, Research Associate,

Heterocyclic Chemist, Chemistry (3/7) R79-27, 28, 29, Spons. Res. Staff, Transportation Systems, Center for Transportation Studies (2/14) R79-38, Spons. Res. Staff, Policy Analyst,

Energy Laboratory (2/28) R79-43, Spons. Res. Staff, Laboratory for Nuclear Science (2/16) R79-55, Spons. Res. Staff, Research Scien-Res. Staff, Laboratory for

R79-53, Spons. Res. Staff, Programmer, partitime, Earth and Planetary Sciences (3/21)
R79-72, Spons. Res. Staff, Programmer, partitime, Earth and Planetary Sciences (3/21)
R79-72, Spons. Res. Staff, Magnet Design Engineer, National Magnet Laboratory (4/11)
R79-74, Spons. Res. Staff, Technical Asst., Biology (4/11) R79-75, R7 R79-75, R79-76, Spons. Res. Staff, Research ngineer/Design Engineer, Energy Laboratory

R79-78, Spons. Res. Staff, Research Associate, Dept of Nutrition and Food Science (4/11) R79-89, Spons. Res. Staff, Res. Assoc., Earth &

R79-90, Spons. Res. Staff, Tech. Asst., Center for Cancer Research (4/18)

R79-91, Spons. Res. Staff, Tech. Asst. Biology (4/18)R79-92, Spons. Res. Staff, Res. Assoc. Materials

R79-92, Spons. Res. Staff, Res. Assoc. Materials Science & Engineering (4/18)
R79-95, Spons. Res. Staff, Scientific Programmer, Earth and Planetary Science (4/25)
R79-97, Spons. Res. Staff, Technical Asst., Arteriosclerosis Center (4/25)
R79-98, Spons. Res. Staff, Center for Cancer Research (4/25)
R79-99 Spons. Res. Staff, Programmer, Energy

R79-99, Spons. Res. Staff, Programmer, Energy Lab (4/25)

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

Meteorology Dept. (5/2) R79-106, R79-107, Spons. Res. Staff, Experimen-tal Plasma Physicist, National Magnet Laboratory

R79-111, Spons. Res. Staff, Research Associate,

Materials Science and Engineering (5/9) R79-112, Spons. Res. Staff, Research Associate, Materials Science and Engineering (5/9) R79-114, Spons. Res. Staff, Program

K.9-114, Spons. Res. Staff, Programmer/Engineer, Architecture (5/9)
 R79-116, Spons. Res. Staff, Scientific Programmer, Earth and Planetary Sciences (5/16)
 R79-117, Spons. Res. Staff, Research Associate, Earth and Planetary Sciences (5/16)

ACADEMIC:

C78-17, Acad. Staff, Research Associate (7/12) C78-26, Acad. Staff, Librarian, Head, OCLC/LC Cataloguing Section, Libraries (9/20) C78-38, Academic Staff, Asst. Rotch Librarian,

Rotch Library (1/10)
C79-6, Academic Staff, Asst. Engineering Librarian, Engineering Library (4/25) C79-7, Academic Staff, Associate Director of

Libraries (5/9) C79-8, Academic Staff, Technical Instructor, Plysics Dept. (5/9)

EXEMPT

Exempt, Tech. Supervisor, Physical ecommunications (8/16) E79-2, Exempt, Foreman, Physical Plant (2/7) E79-7, Exempt, Training Supervisor, Physical

-9, Exempt, Nurse, Clinical Research Center E79-12, Exempt, Laboratory Manager,

Aeronautics and Astronautics (5/2) E79-15, Exempt, Writer/Editor, Center for Transportation Studies (5/16)

Tech Talk, May 30, 1979, Page 7

### **Davey Wins** Commuter Race

Kent Davey, MIT graduate student in electrical engineering and computer science, won the first annual Boston Commuter Marathon in mid-May riding a 10-speed bike from Wellesley Town Hall to the State House in Boston in 45 minutes.

The marathon was organized by Ann Rappaport, an MIT alumna and now an engineer with the state Department of Environmental Quality Engineering, to point up the need for alternative commuting methods to downtown Boston.

Among other cyclists in the race was James R. Melcher, professor of electrical engineering at MIT.

BT8-511, Sec. IV, Sloan School (9/13) B78-573, Sec. V, Dept. of Material Science and Engineering (9/13) B78-688, Sec. IV, Lab for Nuclear Science (11/8) B78-693, Sec. IV, Center for Policy Alternatives

(11/22) B78-755, Admin. Asst. V. Nuclear Engineering

B79-23, Sec. III/IV, Office of Sponsored Programs (d1/24) B79-40, Sec. III/IV, Lab for Computer Science

B79-87, Sec. IV-V, Urban Studies and Planning B79-110, Clerk Typist IV, Center for Space

Research (3/14) B79-151, Sec. IV, Industrial Liaison Program

B79-152, Sec. III/IV, Materials Science and Engineering (4/11)
B79-163, Sec. III/IV, Undergraduate Physics Of-

B79-163, Sec. III/IV, Undergraduate Friysics of fice (4/11)
B79-164, Sec. III/IV, part-time, temporary, Dean for Student Affairs (4/11)
B79-165, Jr. Programmer V, Laboratory for Information and Decision Systems (4/11)
B79-167, Sec. III, Medical Dept. (4/11)
B79-169, Tech. Asst. IV, Psychology Dept. (4/11)
B79-172, Sec. IV, Mechanical Engineering (4/18)
B79-179, Sec. IV, Material Science and Engineering (4/18)
B79-181, Sec. IV, National Magnet Laboratory (4/18)

B79-183, Sec. IV, National Magnet Laboratory

(4/18)
B79-185, Sec. III, Energy Lab (4/25)
B79-186, Sec. III, Materials Science and Engineering (4/25)
B79-187, Sec. III, Physical Plant (4/25)
B79-188, Accounting Asst. V, Comptrollers Ac-

B79-188, Accounting Asst. V, Comptrollers Acounting Office (4/25)
B79-191, Sec. IV, Division for Study and tesearch in Education (4/25)
B79-194, Cashier III, Food Service (4/25)
B79-197, Sr. Clerk IV, Sloan School (4/25)
B79-202, Sec. IV, Office of the Chancellor (5/2)
B79-205, Sec. IV, Sloan School (5/2)
B79-205, Sec. IV, Mathematics (5/2)
B79-206, Sec. IV. Aeronautics and Astronautics 5/21

B79-208, Tech. Asst. V, Psychology (5/2) B79-209, Sec. III/IV, Electrical Engineering and Computer Science (5/2) B79-210, Sec. IV, Earth and Planetary Sciences

B79-212, Sec. IV, MIT Associates Program (5/9) B79-214, Sec. III, National Magnet Laboratory

B79-215, Sec. IV, Linguistics and Philosophy B79-219, Sr. Clerk III, Medical Dept. (5/9)

B79-221, Sec. V, Psychology (5/9) B79-222, Sr. Clerk IV, Physical Plant (5/9) B79-224, Lib. Asst. III, part-time, Rotch Library B79-227, Sec. IV, Industrial Liaison Program

B79-228, Sec. IV, Medical Dept,. Psychiatric ervice (5/16)

B79-232, Sec. V, Mechanical Engineering (5/16) B79-233, Clerk IV, MIT Press (5/16)

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

H78-207, Hourly, Tech. A, Energy Laboratory H79-26, Hourly, Waiter/Waitress, Faculty Club

H79-33, Hourly, Technician A. (Electronic), Chemistry (4/11) H79-40, Hourly, Instrument Systems Worker, Physical Plant (4/11) H79-44, Hourly, Second Cook, Food Service

(3/2) H79-58, Hourly, Technician B, Research Laboratory of Electronics (5/9) H79-68, H79-69, H79-70, H79-71, H79-72, Hourly, Custodian, Physical Plant (5/2)

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

B79-199 Tech. Asst. V
B79-218 Clerk III Lib. Asst. V Sec. IV B79-217

Admin. Staff Sec. IV B79-196 Hourly Acad. Staff (cancelled) Sec. III/IV Spons. Res. Staff C79-5 B79-216 R78-284 Spons, Res. Staff Sec. V R79-26 R78-119 R78-283 R78-160 B79-229 B79-207 R79-289 (cancelled) H79-34 Res Spons.

Hourly Spons. Res. Staff R79-84 Spons. Res. Staff Spons. Res R79-79

Staff

R77-161 (cancelled) ('78-9 B79-199 Acad. Staff Tech. Asst. V Admin. Asst V B79-242 E79-14 E79-5 Exempt B79-132 Exempt Sec IV B79-230. Spons. Res. Staff Sec. IV R78-104 B79-213

The following positions are on HOLD pending

further decision H79-65 R79-58 Hourly Spons. Res. Staff Exempt Admin. Staff Acad. Staff Payroll Clerk III Sec. IV/V Tech. Asst. IV Acad. Staff E79-12 A78-67 C79-4 B79-155 B79-230 B79-195 Acad. Staff

Hourly H79-61

# 113th Commencement

(Continued from page 1)

bearing a four-foot golden mace that is the symbol of MIT's academic authority will be the president of the 66,000-member MIT Alumni Association.

This year's chief marshal, Mr. Joe F. Moore, is a 1952 graduate of MIT in chemical engineering who is now president of Bonner &

The Class of '79 has invited the entire MIT community to celebrate their "Last Tango" on Sunday, June 3, from 8pm until midnight in the Student Center.

A rock band, the Formations, will play in the Sala de Puerto Rico, while swing music by Ken Reeves and his Orchestra will prevail in Lobdell. Free hor d'oeuvres and a cash bar also will be available.

Tickets are \$4 each and may be obtained by calling Carole or Debbie at 494-8652. Community friends of members of the Class of 1979 are especially encouraged to attend the commencement eve dance.

Moore Associates, Inc., a major Houston, Tex., consulting and service firm in the petrochemical industry

Marching with Mr. Moore will be the sections for principals and honored guests: President Wiesner; Howard W. Johnson, Chairman of the MIT Corporation, the Institute's governing body; Chancellor Paul E. Gray; Governor Edward J. King, who, as governor of the Commonwealth, is an ex officio member of the Corporation; Cambridge Mayor Thomas W. Danehy; Dr. James R.

Killian, Jr., former MIT President and Chairman of the Corporation and now Honorary Chairman; and the Reverend Scott Paradise, Episcopal chaplain at MIT, who will present this year's invocation.

They will be followed by deans, members of the Corporation, the faculty and, in the place of honor, the graduates themselves. Of the 1,650 seniors and graduate students who will be receiving degrees this June, more than 1,400 have chosen to take part in Commencement. They include some 800 seniors and 600 graduate students receiving advanced degrees.

The graduates will be led by their officers. For graduating seniors this year, all class officers are women: Marcia H. Grabow, a physics major from Bloomfield Hills, Mich., president; Carole S. Ruegsegger, a biology major from Bronxville, NY., vice president; and Sharon Lowenheim, a mathematics major from Rego Park, NY., secretary-treasurer. Leading the graduate students will be the president of the Graduate Student Council, Fernando Cruz-Villalba of Cambridge, who will receive the master of city planning degree.

Another highlight of this year's Commencement will be the variety of music and musical groups. A brass choir conducted by Herbert J. Philpott will be seated on the steps of the 77 Massachusetts Avenue entrance to MIT and provide music for the processional there. The 45-member Oliver Chorale, John S. Oliver conducting, and an 18-member Brass Ensemble conducted by John D. Corley, Jr., will provide processional, recessional and interlude music in Killian Court during the Graduation Exercises themselves.

# Jordan J. Baruch To Speak At '79 Technology Day

(Continued from page 1)

gineering and the American Academy of Arts and Sciences.

The panelists for the School of Engineering afternoon program, and the subjects they will discuss,

Dr. James M. Utterback, research associate in the Center for Policy Alternatives, "What Do We Know About the Innovative Industry?"; Dr. Thomas J. Allen, Jr., professor of organizational psy-chology and management, "How Innovation Happens"; Dr. Myron Tribus, professor of engineering and director of the Center for Advanced Engineering Study, "The Industrial Perspective" Dr. Robert C. Seamans, Jr., dean of the School of Engineering, Henry R. Luce Professor of Environment and Public Policy and former head of the US Energy Research and Development Administration, "The Governmental View," and Dr. J. Herbert Hollomon, Japan Steel Industry Professor of Engineering, director of the Center for Policy Alternatives and former Assistant Secretary of Commerce for Science and Technology, "What Can and Should We Do?"

The School of Science panelists, and their subjects, will be:

Dr. Malcolm L. Gefter, professor of biochemistry, "Research in DNA Biochemistry and the Chemical Basis of Regulation of Gene Expression"; Dr. Ali Javan, Francis Wright Davis Professor of Physics, "Research in Design of Lasers and Their Use in Scientific Inquiry"; Dr. M. Nafi Toksoz, professor of geophysics and director of the George R. Wallace, Jr., Geophysical Observatory, "Research on Earthquakes and Earthquake Prediction," and Dr. George M. Whitesides, Arthur Clay Cope Professor of Chemistry, "Research on Organic Synthesis Using Cell-free Enzymes.' Technology Day will begin with a

continental breakfast for alumni in the Sala de Puerto Rico at the Student Center at 8am. There will be a memorial service in the MIT Chapel at 11:35. The reunion classes will present their class gifts at a luncheon in the Rockwell Cage beginning at 12:15pm. Massachusetts Gov. Edward J. King, who as governor is an ex-officio member of the MIT Corporation, will address the alumni at the luncheon. The day will conclude with a reception from 5 to 6 pm in Walker Memorial.

Dr. L.N. Scaturro Dr. Louis S. Scaturro, 28, assis-

tant professor of nuclear engin-

eering, died unexpectedly of a

heart attack Wednesday, May 16,

Professor Scaturro was a mem-

ber of MIT's Plasma Fusion Cen-

ter. Researchers there are work-

ing to develop a controlled fusion

reaction that would provide almost

limitless energy using readily

available fuels. He was considered

to be a pioneer in his particular

field-the study of the details of

power loss from plasmas, the hot

fuels inside fusion devices. His

recent work in this area had gained

A native of Brooklyn, NY., Pro-

fessor Scaturro was graduated

from Brooklyn Technical High

School and received his BS degree

in 1972 from Cooper Union for the

Advancement of Science and Art in

New York City. He received the

PhD in plasma physics from Col-

him national attention.

at his home in North Andover.

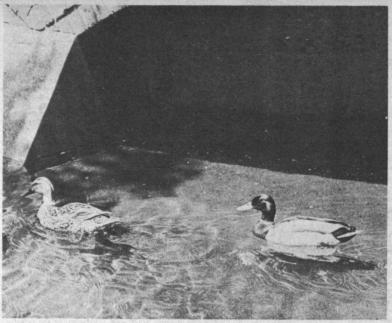
umbia University in June 1976 and immediately joined the faculty at

He is survived by his wife, Joyce (Basile) Scaturro, and a son, Louis, eight months old, of North Andover; his parents, Albert and Anne Scaturro of Brooklyn, NY., and a sister, Mrs. Nanette Caruso, also of Brooklyn.

#### **Jacob Newman**

Jacob Newman, a stock clerk at Lincoln Laboratory from 1963 until his retirement in 1975, died May 17, at the age of 69.

Mr. Newman, who lived in Reading, is survived by his wife, Anne (Youdivitz) Newman; three sons, Edward Newman of Windham, NH., Arnold Newman of Lawrence, and Steven Newman of Melrose; a daughter, Lois Liberman of Columbus, Ohio; two brothers, Murray Newman of Winchester and Samuel Newman of Revere, and 10 grandchildren.



Ms. and Mr. Mallard (left to right) have a dip in the MIT Chapel moat. Rumor has it that they are raising a brood of ducklings on the campus but photojournalist Calvin Campbell was unable to locate the young ones.

# Associate Professor

(Continued from page 5)

graphy Laboratory, has been engaged in an experiment utilizing photography as a means of therapy for the handicapped. She received the BA from Wheaton College (Ill) and the MFA from the Rhode Island School of Design. She was appointed an assistant professor in

Derek Rowell, Mechanical Engineering, of Needham Heights. Professor Rowell is a researcher in the field of rehabilitation engineering, which employes technology and knowledge of psychophysical factors to help the handicapped. He holds the BE (1966) and PhD (1970) in electrical engineering from the University of Canterbury, New Zealand. He was an Office of Sponsored Programs research engineer at MIT in 1973-76 and has been director of the Sensory Aids Evaluation and Development Center since 1975. He was appointed an assistant professor in 1976 and has been technical director of MIT's Joint Computer Facility since 1978.

Edward I. Solomon, Chemistry, of Cambridge. Professor Solomon is a physical inorganic chemist with specific interest in bioinorganic chemistry, surface chemistry and catalysis, and in the electronic structure and spectroscopy of transition metal com-plexes. He received the BS from Rensselaer Polytechnic Institute (1968) and the PhD (1972) from Princeton University. Professor Solomon continued his studies as a postdoctoral fellow at the HC Ørsted Institute at the University of Copenhagen, Denmark (1973-74) and then as an NIH postdoctoral fellow at the California Institute of Technology (1974-75). He was appointed an assistant professor in 1975 and awarded an Alfred P. Sloan Research Fellowship (1976-77).

Stephen G. Steadman, Physics, of Somerville. Professor Steadman, an experimental nuclear physicist who has made significant contributions to the understanding of the collision of complex nuclei, received the BS in physics from the University of Rochester (1964) and the PhD in physics from Rutgers University (1969). He was a senior research associate at MIT in 1972-74 and guest scientist at the Max Planck Institute for Nuclear Physics at Heidelberg, Germany, in 1974-75. He was appointed an assistant professor in 1975.

Chong Sook Paik Sung, Materials Science and Engineering, of Lexington. Professor Sung is a polymer scientist who works on biomaterials and on the structureproperty relationship in a number of modern polymers of potential importance in advanced engineering. She also works in surface analysis of the polymers and interfaces. She received the BS in textile engineering from Seoul National University, South Korea (1968), the SM in polymeric materials from the Polytechnic Institute of Brooklyn (1969) and the PhD in polymer chemistry from the Polytechnic Institute of Brooklyn (1972). She became an assistant professor in 1976.

Toyoichi Tanaka, Physics, of Newton. Professor Tanaka, an experimental condensed matter physicist whose work is directed toward understanding the properties of complex substances, received the BS (1968), MS (1970) and DSc (1972) in physics, all from the University of Tokyo, Japan. He was on the Office of Sponsored Research staff in 1972-75 and was appointed an assistant professor in

Harry L. Tuller, Materials Science and Engineering, of Wellesley. Professor Tuller, whose research concentrates on ceramic materials with special optical or electrical properties, received all his degrees from Columbia University. They are the BS (1966) and MS (1967) in electrical engineering and the ScD in solid state science and engineering (1973). He was a research associate at the Technion-Israel Institute of Technology in 1974-75 and was appointed an assistant professor at MIT in 1975.

J. Kim Vandiver, Ocean Engineering, of Lexington. Professor Vandiver's area of emphasis is offshore engineering pertinent to the petroleum industry, to military systems and to other possible industrial activities such as deep ocean mining and ocean energy conversion. He received the BS in engineering from the Harvey Mudd College of Science and Engineering (1968) the SM from MIT (1969) and the PhD (1975) in oceanographic engineering from MIT, and the Woods Hole Oceanographic Institute. He was appointed an assistant professor in 1975 and was Doherty Professor of Ocean Utilization in 1976-78.

Stephen A. Ward, Electrical Engineering and Computer Science, of West Roxbury. Professor Ward, whose professional field is computer systems engineering focusing currently on real-time systems, received the SB (1966), SM (1969) and PhD (1974) in electrical engineering from MIT. He was appointed an assistant professor in

Martha W. Weinberg, Political Weinberg is a specialist in American politics, state and local politics, and public policy. She received the BA in government from Smith College (1967), the MA in political science from the University of Wisconsin (1969) and the PhD from Harvard University. She was assistant to the Massachusetts Secretary of Human Services in 1972-73. She was appointed an assistant professor in 1975.

John L. Wilson, Civil Engineering, of Wellesley. Professor Wilson's research covers a broad spectrum in the area of groundwater hydrology, including the basic fluid mechanics of groundwater movement, the mathematical modeling of groundwater systems and the planning and management of groundwater use. All his degrees are in civil engineering, the BCE from the Georgia Institute of Technology (1968), and the SM (1970), CE (1970) and PhD (1974) from MIT. He was appointed an assistant professor in 1974.

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