



June 30, 1971

To Members of the MIT Community:

I wish to announce two senior administrative appointments as part of the redefinition of the Institute's Presidency. Effective on July 1, 1971, Professor Walter A. Rosenblith will be Provost, and Mr. Constantine B. Simonides will be Vice President in the Office of the President and Chancellor.

As the Institute enters a period in which the Presidency has been enlarged to include the Chancellor, it is appropriate to redefine the function of the Provost who, acting in partnership with the President and the Chancellor, is the senior academic officer.

The Provost will have Institute-wide responsibilities for educational programs, with particular emphasis on interdepartmental and interdisciplinary activities. Interdepartmental and interschool laboratories and centers will continue to report to the Provost. Laboratories and centers whose activities are within a school will report to the appropriate academic Dean. Academic areas of growing Institute-wide involvement, such as Health Sciences and Technology; environmental and urban programs; studies in science, technology and public policy; and international programs will continue to be of special concern to the Provost. The Office of the Provost will be involved with new educational programs of a non-departmental or extra-departmental nature. In this regard the Provost will continue as an *ex officio* member of the Committee on Educational Policy and will chair a new committee on educational programs, comprised of the academic Deans. The Provost will continue to be concerned with research policy and to participate in the allocation of Institute resources, including internal funds and space.

The academic Deans will report directly to the President and Chancellor on normal school and departmental business including budgets and appointments. The Provost will continue to participate in the review of all academic appointments and promotions.

In his capacity as Vice President of the Institute, Mr. Simonides will be the senior staff officer reporting to the President and Chancellor. He will assist the senior officers in institutional organization and planning and will be responsible for studies of academic programs and operations. In addition, Mr. Simonides will have administrative responsibility for the Institute Information Services and for the MIT Press.

His duties will include responsibility for coordination, agenda development and supervision of staff support for the Institute's academic councils and committees, and the senior executive group. He will also serve as Secretary of the Executive Committee of the Corporation.

Both Professor Rosenblith and Mr. Simonides bring to their new assignments a strong record of administrative experience and a deep understanding of the Institute's academic process and educational goals.

Professor Rosenblith joined the Electrical Engineering Department in 1951 and was responsible for the formation of the Communications Biophysics Group in the Research Laboratory of Electronics. He served as chairman of the MIT Faculty from 1967-69. Since 1969 Professor Rosenblith has been Associate Provost with major responsibility for the development of the interdisciplinary areas. In this capacity he has also served as Acting Director of the Harvard-MIT Joint Center for Urban Studies during the past year.

Mr. Simonides joined the Institute administration in 1960 as Assistant to the Director of the Summer Session. From 1962 to 1966 he served as Assistant Director of International Programs, Assistant to the Dean and Assistant Dean of the Sloan School of Management. Since 1966 he has been Assistant to the President, and for the past year, he has also been Vice President.

Jerome B. Wiesner  
President Elect



Dr. Rosenblith --MIT Photo



Mr. Simonides --MIT Photo

## Philosophy is 24th Course

The Department of Philosophy will be incorporated as the 24th academic department tomorrow.

The decision to establish philosophy as a separate department came at a recent meeting of the Corporation. Only a few weeks ago the faculty had voted that MIT offer an undergraduate program leading to an S.B. degree in philosophy.

A doctoral program in philosophy has existed since 1963 in the philosophy section of the Humanities Department. Professor Richard L. Cartwright, head of the philosophy section, has been named head of the new department.

Dr. Cartwright indicated that the objectives of the Philosophy Department are to draw support from and offer support to branches of knowledge in which MIT is now and will remain strong.

"This means," he said, "that we offer a program in philosophy whose center of gravity lies squarely in the general areas of analytical philosophy, the philosophy of science, logic, and the foundations of mathematics, linguistics and psychology.

"To give some breadth to the program, the coverage of graduate courses extends into general analytical philosophy, philosophy of

(Continued on page 3)

## Bruce Becomes Associate Dean of Engineering School

Dr. James D. Bruce, Associate Professor of Electrical Engineering and Executive Officer of that department, has been named Associate Dean of the School of Engineering, effective tomorrow. The announcement was made by Professor Alfred H. Keil, who becomes Dean of the School of Engineering at the same time.

Professor Bruce succeeds Professor Charles Miller, who will devote full time to his continuing position as Director of the Urban Systems Laboratory.

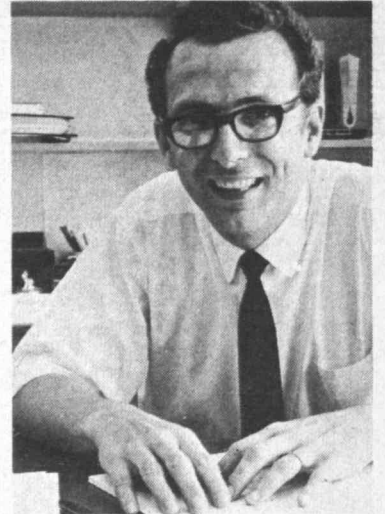
Professor Bruce will, as Associate Dean, be concerned with the development of techniques for appraisal of the effectiveness and significance of the educational activities of the School and for management of the School's resources. He will also be responsible for School-wide aspects of the development of junior faculty and for general engineering aspects of the undergraduate program, both of which are of vital importance to the future development of the School of Engineering.

First joining the department as a graduate student and Teaching Assistant in 1958, Professor Bruce was promoted to Instructor in 1960. Upon completion of his doctoral studies he was appointed Assistant Professor in 1964 and promoted to Associate Professor in 1968. In 1966 following the death of Professor Emeritus Carlton E. Tucker, who had served the department as its Executive Officer since 1943, Dr. Bruce assumed the responsibilities of managing the departmental resources and in 1970 was named Executive Officer of the Department.

During the years that he has held these responsibilities, he and his students have developed several on-line computer systems to assist in the management of an academic department's resources. The latest of these systems is presently operational on MULTICS, the Information Processing Center's time-sharing system developed at Project MAC. Several departments in addition to the Department of Electrical Engineering in the School of Engineering are now using an earlier version of this system and all departments in the School plan to implement the MULTICS based system in the 1972 Fiscal Year.

Born in Livingston, Texas, in 1936, Professor Bruce received B.S. degrees in both mathematics and electrical engineering from Lamar State College of Technology in 1958, and the S.M. and Sc.D. degrees in electrical engineering from MIT in 1960 and 1964 respectively. During the 1964-65 academic year he was a Ford Foundation Postdoctoral Fellow in Engineering at MIT.

Dr. Bruce is widely recognized as an expert in digital signal processing and has done extensive consulting for organizations such as the Raytheon Company, the Cambridge Research Institute, the Oak Ridge National Laboratory, and the Honeywell Radiation Cen-



Professor Bruce

--Photo by Bob Lyon

ter as well as the Draper Laboratory. For the past three years he has taught an introductory subject in digital signal processing to students from government and industry who participate in the Program for Advanced Study, an education oriented company which was formerly a division of Bolt, Beranek and Newman.

Among the awards Dr. Bruce has received is the 1969 Television Shares Management Corporation Award for excellence in teaching. He is a member of the Institute of Electrical and Electronics Engineers, the American Society for the Advancement of Science, the Society for Management Information Systems, as well as Sigma Xi, Tau Beta Pi and Eta Kappa Nu.

## Early Mail Pickup Improves Service

The United States Post Office in a move to speed delivery of mail—next day delivery for areas served by the Boston Postal District—has changed the last pickup of mail from street mailboxes. The last pickup on weekdays from all mailboxes available to the MIT community is 4:30pm.

The purpose of the change, according to postal officials, is to get a more even distribution of mail throughout the day. With the change, mail will be ready for dispatch in the early evening to the various post offices for next day delivery.

MIT personnel should deposit their mail in any US mailbox before 4:30pm if they want the mail processed the same day. Meter users in particular are cautioned that all mail not posted before 4:30 should bear the following day's date. For example, a letter which is mailed at 5pm on July 1, should bear the meter date July 2.

The MIT Mail service is studying various means of arranging for an early evening delivery of Institute mail to the Post office, which would include the mail normally collected from internal mailboxes and administrative offices at the end of the day. The results of this study will be released to the com-

(Continued on page 2)



## Interphase Program Aids In Transition of Freshmen

Thirty-five members of the Class of 1975 have just enrolled in a series of summer subjects before they begin the coming fall term as freshmen.

"Project Interphase is an effort to help make the transition easier for students who are qualified to do MIT work, but whose educational backgrounds, through no fault of their own, are weak," says Assistant Dean for Student Affairs James Bishop, coordinator of the program.

After a short period of orientation and meetings with faculty and staff the entering freshmen began yesterday to take subjects in calculus, physics and humanities. In addition, about a third of the students are also taking the optional chemistry subject. All four classes will run for seven weeks, ending on August 13.

The 26 men and nine women have come to MIT from as far away as Puerto Rico and as close by as Cambridge, at the invitation of the Office of Admissions. No student was required to come as a condition for his admission. After admitting this fall's class of freshmen, the Admissions Office invited a small group of them to come to Interphase if they so desired. Most of those who were invited accepted.

The physics and calculus classes are similar to those offered during the regular school term. The program also offers a choice of two humanities subjects. Both courses emphasize the concepts of autobiography and self-identity. One, however, concerns its students with these concepts as seen specifically from a black cultural point of view. Most of the 25 black participants—about half of the total of 48 black members of the Class of 1975 were invited—have chosen this option.

Interphase provides free tuition, room (East Campus for the men, McCormick for the

women), board, books, medical insurance, travel and a small stipend for personal expenses to all participants. Staff tutors are living with the students in the dormitories to provide help. The program also provides athletic, recreational and cultural events for the freshmen, such as the use of the swimming pool, and tennis courts and a beach party scheduled for later this summer.

The Interphase staff consists of 20 faculty members, staff mem-



Janice Larkin, '75, looks over orientation material during her first day in Project Interphase.

—Photo by Karl Seeler, '75

bers, graduate students and undergraduates. All 20 have had experience working with freshman curricula.

Project Interphase grew out of a presentation made by the Black Student Union to the administration three years ago. In its proposal the BSU urged that MIT not only recruit and admit more minority-group students but also help assure their success once they got to MIT with a plan like Interphase. The program welcomed its first group of 44 students during the summer of 1969 and another group of 39 last year.

Success of the program is difficult to demonstrate. Of all students who have come to Interphase during its two years, however, nearly every one has since said that he could not have survived his first year at MIT without it.

### Positions Available

The Office of Personnel Relations is seeking a Counsellor for the Employee Training Program whose principal responsibility will be to assist new employees in on-the-job performance and resolving job related concerns. Applicant should have experience in counselling with inner city people and programs. Teaching experience is desirable but not required.

If interested please call extension 4278.



Exceptional Service Commendations from the Institute were awarded to 16 engineers at the Draper Lab on June 17 for their part in saving the Apollo 14 moon mission last February. Recipients of the certificates were, left to right, front: Vincent A. Megna, Dr. Charles S. Draper, president and founder of the Lab, Donald E. Eyles, David H. Moore and Anthony Cook; back: Philip G. Felleman, Lawrence J. Berman, Allan R. Klumpp, Robert E. Werner, Robert Lones and Samuel Drake. Not present for the picture were: Kenneth R. Goodwin, Jr., Russell A. Larson, Stephen L. Copps, Bruce J. McCoy, Peter Volante and Romilly Gilbert, manager of the Lab's office at Cape Kennedy.

—MIT Photo

### ERRATUM

In the listing of standing committee assignments in the June 16 issue of *Tech Talk*, the Registrar was erroneously named as an *ex officio* member of the Committee on Undergraduate Admissions and Financial Aid. That membership instead belongs to the chairman of the Freshman Advisory Council.

## Administration Rooms, Phones Change Tomorrow

The following changes in room numbers and telephone extensions will take effect tomorrow, July 1:

Dr. Jerome B. Wiesner will be in the Office of the President, Room 3-208, Exts. 4665 and 4666.

Dr. Paul E. Gray will be in the Office of the Chancellor, also in Room 3-208, Exts. 1525 and 1526.

Mr. Howard W. Johnson and Miss Elizabeth J. Whittaker will be in the Office of the Chairman of the Corporation, temporarily located in Room 3-234. The telephone numbers will continue to be those of the Office of the Chairman of the Corporation, Exts. 4662, 4663, and 4664.

Dr. James R. Killian, Jr., Honorary Chairman of the Corporation, and Miss Elizabeth A. Pigott have moved to Room 9-235, Exts. 1515 and 1516.

## Mail Pickup

(Continued from page 1)

munity as soon as the details can be worked out.

The Mail Service also suggests a few steps that can help speed and improve delivery. Outgoing bulky packages containing books or printed matter should be tied with twine for added security. Incoming mail addressed simply to "John Smith, MIT" often takes an extra day to deliver because the Directory Service must locate the addressee within the Institute. A return address, complete with building and room number, should appear on all outgoing mail in an effort to encourage its use on replies.

## Wilson Heads Study Of Climate Problems

Professor Carroll L. Wilson of Management is directing a study this summer by more than 40 world leaders in atmospheric sciences from 14 nations. In addition, Professor William H. Matthews of Civil Engineering is a member of the study's planning group.

The concentrated Study of Man's Impact on Climate (SMIC), sponsored by MIT, will assess the regional and global effects that man's activities have on climate. It will also outline the research, data gathering and computer modeling systems that will be needed to find out if these effects are irreversible.

The study, which began last Monday and will run to July 16 at a study center in Wijk, Sweden, near Stockholm, is being jointly hosted by the Royal Swedish Academy of Sciences and the Royal Swedish Academy of Engineering Sciences.

The Swedish meeting will be a major follow-up to the Study of Critical Environmental Problems conducted last summer at Williamstown, Mass. The SCEP work, involving more than 70 US scientists, was also sponsored by MIT, and the results were published by MIT Press last fall under the title *Man's Impact on the Global Environment: Assessment and Recommendations for Action*. Professor Wilson said that the SCEP report from 1970 will form a major background document for the 1971 study.

Scientists who have accepted invitations to participate in the conference in Sweden have come from universities, academies and government agencies in Australia, Belgium, Canada, Denmark, England, France, Germany, Hungary, India, Israel, Italy, Japan, Sweden and the US. Invitations also have been extended to scientists in Nigeria and the Soviet Union. US participants will include senior scientists from three universities, the National Center for Atmospheric Research in Boulder, Colorado, the federal Environmental Protection Agency

and the federal National Oceanic and Atmospheric Administration.

Professor Wilson said, "Of particular importance to those of us meeting in Sweden will be the identification of those questions that ultimately will require international policy decisions by nations." He added that the Secretary-General of the 1972 United Nations Conference has encouraged the organization of the SMIC effort.

Financial support for the study is being provided by grants from the National Science Foundation through the newly-created program of Research Applied to National Needs, the Ford Foundation, the American Conservation Association and the Sloan Foundation.

### TECH TALK

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The deadline for classified ads is 5 p.m. Wednesday. Ads may be telephoned to Ext. 2707 or mailed to Room 5-105.

## Altshuler to Be in State Cabinet

Professor Alan A. Altshuler of political science has been appointed Secretary of Transportation and Construction for the Commonwealth by Governor Francis Sargent, '39.

Dr. Altshuler has been Governor Sargent's advisor on transportation problems in Boston for nearly two years as the head of the Governor's Transportation Task Force. In his new post he will be responsible for the Public Works Department, Bureau of Building Construction, Government Center Commission, Massachusetts Aeronautics Commission, Massachusetts Port Authority and the MBTA.

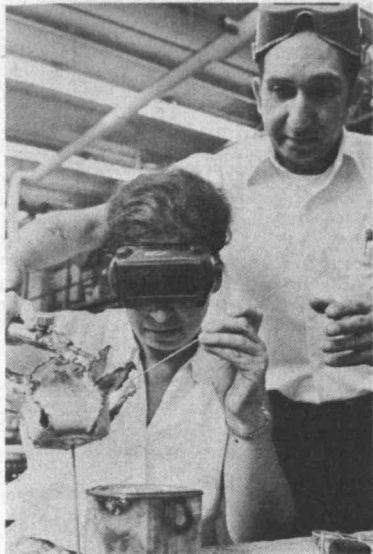
Dr. Altshuler is a proponent of mass transportation systems as an essential ingredient in a "balanced transportation program" for Massachusetts.

His appointment was the second of ten to be made to fill Governor Sargent's proposed cabinet.



# THE INSTITUTE CALENDAR

July 1  
through  
July 9, 1971



Tony Zona helps Mrs. Francis Kaplow use a torch in his metal sculpture class.

## Metal Sculpture Course Is Over

Tony Zona's popular metal sculpture course, long a favorite with undergraduates, has just completed a special session that was open to anyone associated with the Department of Metallurgy and Materials Science.

Tony, an engineering assistant, taught his ten students the basics of welding and brazing in three lessons on successive Wednesday mornings from 8 to 11am. The lessons ended last week.

"It's a little scary," says Mrs. Frances Kaplow, wife of Professor Roy Kaplow of Metallurgy. "All the sparks—it seems a little dangerous," she remarked as she put the finishing touches on a metal flower she was constructing.

During the first lesson each student learned how to use the torch and how to braze, as well as safety procedures. The second week the class made three-dimensional stars from sheet metal. At the final lesson they made the imaginative sculptured flowers.

During the regular school term 50 to 80 students normally sign up for the course (number 3.19), but only 30 can be admitted. The course was also one of the most popular during last January's Independent Activities Period.

## Philosophy...

(Continued from page 1)

mind, philosophy of language and theory of knowledge.

"And while teaching and research also take place in other areas such as philosophy of religion, aesthetics, and history of philosophy, it is only fair to say that our department appears unbalanced when compared with more typical departments of philosophy. However, we think such a program in philosophy at MIT properly reflects its location in an institute of science and technology."

The department now has a faculty of 16 and offers undergraduate and graduate courses to a total of more than 800 students a year.

Dr. Cartwright indicated that the size and scope of the new department "will remain about the same as that to which the philosophy section has evolved over the past eight years."

## MIT Club Notes

### Baker House SPAZ Jogging Club \*\*

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

### Classical Guitar Society \*\*

Summer classical guitar classes every Thursday and Monday, 4pm. Room 1-132.

### Outing Club \*

Every Thursday and Monday 5pm. Student Center, Room 473.

### Nautical Association \*\*

Basic Sailing Shore School. Repeated every Wednesday throughout the summer, 5:15pm. MIT Sailing Pavilion.

### Science Fiction Society \*

Friday, July 2; Friday, July 9; 5pm. Student Center, Room 421.

### MIT-DL Duplicate Bridge Club \*\*

Tuesday, July 6, 6pm. Student Center, Room 473.

## Movies

### Modesty Blaise \*\*

Saturday, July 3, 7 and 9:30pm. Room 10-250. 50 cents.

### Stalag 17 \*\*

Wednesday, July 7, 7 and 9:30pm. Room 10-250. 50 cents.

## Dance

### Modern Dance Class \*\*

Intermediate/Advanced. Thursday, July 1; Thursday, July 8; 5:30pm. McCormick Gym.

### Israeli Folk Dancing \*

MIT Folk Dance Club. Every Thursday; party last week of each month. 7:30-11pm. Student Center, Room 407. Basics taught from 7:30-8pm.

### Friday Afternoon Dance Break \*

MIT Folk Dance Club. International Folk Dancing on the oval lawn in front of Kresge Auditorium. Every Friday, 12-1pm.

### Dance Development Class \*\*

Friday, July 2; Wednesday, July 7; Friday, July 9; 5:15pm. McCormick Gym.

### International Folk Dancing \*

MIT Folk Dance Club. Sunday, July 4, 7:30pm. Student Center, Sala de Puerto Rico.

### Balkan Dancing \*

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

### Square Dance Club \*

Every Tuesday, 8pm. Student Center, Room 491. For information call x6213.

## Exhibitions

### Seymour Lipton: Recent Sculpture \*

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

### Steamboat Design \*

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

### Deep-Ocean Mining \*

Material from Sea Grant Project Office. Hart Nautical Museum, Building 5, First Floor, through the summer.

### Main Corridor Exhibitions \*

Presented by students and departments. Buildings 7, 3, 4, 8.

## Athletics

### Summer Rugby \*

Every Thursday and Tuesday, 5pm. Briggs Field.

## Religious Services and Activities

### Christian Bible Discussion Group \*

For details contact Professor Schimmel, x6739. Every Thursday, 12:15pm. Room 20B-031.

### Islamic Society Prayers

Every Friday, 12noon. Student Center, Room 473.

### Roman Catholic Mass

Every Sunday, 11am. MIT Chapel.

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

## Don't Forget

The Institute of International Education has opened the 1972-73 competition for grants for graduate study or research abroad. Full grants are available to 29 countries and travel grants are available to 12 countries. Grants offered by foreign governments, universities, and private donors of 14 countries are also administered by IIE. Information and application packets can be obtained from the Foreign Study Office, 10-303, x5243. Dean Hazen will be available to discuss the programs and advise prospective applicants. The deadline for applications processed through MIT is Friday, October 8, 1971.

Join your friends at the Muddy Charles Pub, 110 Walker Memorial, 11:30am to 7:30pm daily. \*

Monday, July 5, is a holiday—the official celebration of Independence Day.

### \*Open to the Public

### \*\*Open to the MIT Community Only

### \*\*\*Open to Members Only

\*\*\*\*Freshmen interested in departmental program encouraged to attend.

## CLASSIFIED ADS

### For Sale, Etc.

Conv sofa, blue/gray tweed, 40" wide, v gd cond, asking \$75. Gary, x 6862.

Elec blanket for twin bed, unused gift, \$10; complete 4 track car stereo sys w/13 tapes, \$35. Jerry, 491-7448.

SMC Classic 12 port pica typwrtr, 12" carriage, inter-changeable type, exc cond, \$75. Allen Merry, 868-1191.

Pearce Simpson Bimini VHF marine radio/telephone, w/6 channels & antenna; styrofoam plank for boat mooring. Bill Blatchley, x4576 or 868-5873.

Our Wonder World Book—A Library of Knowledge vol VIII, copyright 1914 story & history, \$10; blond wdn breakfast or DR tbl w/2 drop leaves & 2 additional leaves & chrs (28"x60" or longer), \$50; K tbl 40"x27", \$20; snlg bed bx springs, \$10. Call 232-0484.

Photovolt Densitometer, mod no. 525, 1961, w/Varicord & Integrator, for chromatography & electrophoresis, nvr used, orig cost \$1340, sell \$500 but w/ haggle. Linder, x6759.

Fedders 7000 BTU air cond, \$125; BF Goodrich 8.25x15 tire, \$10; Magnavox sml port TV, \$30. Rich, x6650 or 623-3463.

Bicycles, 3 spd; man's & lady's w/baby carrier, nearly new \$38 ea or \$75 both. Millard, x6807 or 729-2441.

Collier carriage, yr old, body conv to car bed; bottle sterilizer w/bottles; couch, can be used for sitting & sleeping, w/matt & spread, best offers. R. Daniels, x3448.

Moving: Piano, upright, \$125; TV \$25; snlg beds w/matt; elec clocks; sml appliances; fish tank. x3328 or 358-2816 evgs, Wayland.

Mexican picnic hampers, wicker, etc, nvr used, \$1.75-\$3.50. Call 395-6061.

Leica M-2, looks new, adapted for quick load, w/collapsible f/2.8 Elmar 50mm lens & Leica Meter MR; also avail 90mm f/2.8 Elmarit lens & shade; orig pcking & instruc. Tucker, x4644.

Bigelow-Sanford oriental rug, 8'3"x10'6", exc cond, \$100 or best; walnut tbls w/ceramic tile inlay, 2 step tble, 1 coffee tble, \$45 ea. Call 298-5597 evgs.

Sealy queen sz matt & bx springs, 9 mos old, \$60 or best; Gatelag tble, \$15 or best. Bill, x7862 or 391-6665.

Walnut BR dresser w/mirror \$60; ast silver bowls & trays; Braum strobe no. RL-515 H.V. pack guide no. 80, \$50; Great Books & bkcase. Bob, x2183 or 868-4015.

Oscillating 16" fan, \$12. Otto, x5823.

Polyester, wheat gold broadloom rug, 9x12, w/9x12 jute pad, \$30; 3x5 green print broadloom rug, \$4. x3664 or 868-9105 evgs.

Persian rugs, 2-9x12 & 3 smaller; color TV; Grundig tape rcrdr; Garrard SL 95 trtbl; '64 VW sedan; couch; hand-made brass punch bowl & smaller bowls; misc handcrafted Persian wd & brass; port typwrtr; dsk; chest of drawers; K tble; vacuum cleaner, etc. Call 643-3510 evgs.

Snows, 2, almost new, exc cond, for VW, \$30. Alfredo, 492-6040.

Emerson port 19" TV, b&w, w/stand, gd cond, \$40; red hassock 13" high, 31" wide, \$7.50; CBS stereo rcrd player, gd for summer cottage, \$30. Ralph, x2518.

Snlg bed, complete w/frame, Englander matt, exc cond, \$35. Nina, x7024.

Garage for rent for July & Aug, Harv Sq area, for car storage, etc. Call 868-6744.

AR trtbl w/Shure M91E cart, \$50; pr of armchrs, rust tweed, for contemp or mod, \$300. Dave, x6656 or 868-9614.



# CLASSIFIED ADS

(Continued from page 3)

Sears TV, 12" screen, 3 mos old, 1 yr guar, sales slip, \$60 or best. x5795.

Crib w/matt, \$40. Raymond, 489-2625.

Chrome K set, tbl & 6 padded chrs, best offer; hand lawn mower, best offer. Call 395-5587.

La Pierre man's 10 spd bicycle, 21" ridden twice, \$110. Dee Allen, x6774.

Mamiya Sekor 1000 DTL snl lens reflex camera, \$160, 1 yr old. Call 876-7827 evgs.

Royal stndrd trpwrtr, elite type, fine cond, \$40. Call 862-9462.

Walnut coffee tbl \$25; 2 twin beds \$20 ea; drapes; chest of drawers \$18; toaster \$4; baby dresser \$12; lrg dsk \$18; dsk swivel chr \$25; rug \$7; crib & matt \$10, VW snows \$12; Mercedes 250 snows \$65. Call 484-5877.

Garrard 40Mk II auto trntbl, Pickering ACE-3 cart, base & dust cover, \$35. Don Slater, x4153.

PA columns, 2, w/4-12" spkrs, \$125; Ampeg portaflex amp, \$150; 13" Zildjian hi-hat, \$50; Bogen CHB-100 PA amp, \$90, w/ haggle. Call 547-9580.

K tbl \$10; K chrs, 2, \$3 ea; elec broom \$10; ironing board \$3; folding chrs, 2, \$2 ea; 4 shelf bkcase \$6; 6 shelf bkcase \$8. Call 227-1479 evgs.

Regent 12 string guitar, \$50. Call 862-6782 evgs.

Moving: twin bed, exc cond, new matt, 1 yr old, \$20. Cathy, x6002.

Moving: rug, \$30; chrs, dresser, shelves, etc. Peggy, x2253 or 566-6071.

York barbell set 110 lbs, \$10. Charles, x4169 or 864-1411.

TVs, 2, floor mod w/rcrd player/FM radio, for camp or play rm. Fiorello, x3485 or 395-7265 after 3pm.

Kodiak bear hunting bow, 50 lb pole, used twice, \$35 inc access. W. Harney x366 Linc or 543-7128;

Brand new FET VOM & 30 VDC pwr supply, Heathkits lab quality, guaranteed. Stan, 868-0814.

Sofa \$30; dsk \$20. Connie, 924-4409.

Evinrude 18 hp outboard motor w/gas tank, \$100. Bob Brooks, x461 Linc or 773-8188.

Scott 299-T amp \$120; Sony tape deck 350 \$110; AR-2 ax spkrs \$85 ea; Dyna FM-3 tuner \$75, all exc cond. Call 267-8207.

Ladies bicycle \$20; window fan \$7; Bissell sweeper \$7; port phono \$11; baby toilet chr \$2; crib matt \$5. Call 491-2288 after 3pm or wkends.

GE port stereo, nds adjust, was \$120, asking \$50. Ann, x3811 or 354-5222 evgs.

Contemp couch & chr, blue, exc cond, best offer. Aldo, x232 Draper 7 or 625-2978.

Konika 135mm lens f/3.5, Hekanon auto, new cond, bayonet mount w/ case. Joe Cliff, x3785 or 266-2968.

Lange stndrd buckle boots, 8 1/2N, \$75; Etonic queen golf shoes, 7B, \$15; teflon elec broiler fry pan \$12; Van Wyck elec knife/mixer \$15; Universal elec mixer/beater \$6. Atle, x7959.

VM tape-o-matic rcrdr mod F10, 2 track mono, 3 1/2 spd & 7 1/2 spd, \$25; Londen 7 day pendulum clock, \$25. Don, x419 Linc.

Slide proj, type super-cabin, cold-lt, auto-timer, remote controls & many xtras, album for 1000 slides, \$75 or best. Call 491-2990.

Dial-a-matic vacuum cleaner, all parts, new \$140, 2 years old, w/ sell for \$50. Call 742-6329.

Harpichords, 1 in walnut w/straight side \$700; 1 in maple-stained birch w/bent side \$850; ea w/sngl register; yogurt maker \$6. x5304 or 237-2467 evgs.

Wedding gwn, used once, sz 12, new \$145, now \$80. Call 354-4801 evgs.

Marblehead mooring, sub-rent for part or all seas. John x7352 Linc or 862-8424.

Port wash/dry, yr old, orig \$130, now \$75 or best. George, x7653.

New tires (4), 6.25x13, best offer. Augustine, x7639 or 876-6478.

Limed oak DR set, \$75; china cabinet, \$45; coffee tbl, \$20 or best offer. Edward, x5511 or 894-3167.

Heathkit/Daystrom mod AA-100, 100 w/pwr amp & AM/FM tuner, perf assembly w/ sell sheap because tuner shaken in moving, no visible damage but 1 channel has static, nd money w/ sell both \$125. Paul, x516 Draper 7.

Flying instruc, commercial & instrument, well-equipped aircraft, low rates. x4622.

Sony TC-350 deck \$110; AR2ax spkrs \$85 ea (walnut); Dyna FM-3 tuner \$75; Scott 299-T amp \$120; all exc cond. Call 267-8207 or 262-7207 evgs & weekends.

Seal pt siamese kittens, raised w/children, litter trained, ready for nice home, \$15 ea. Dick, x5430 Linc or 653-8189.

Wire fox terrier puppies, AKC reg, champ sired, beautiful, healthy. Prof. Abkowitz, x4334 or 862-8757.

Affectionate Himalayan seal pt siamese & persian cat, \$45. Debbie, 566-1012.

Free kittens: 3, litter trained males. Mark, 491-7303 evgs.

Guinea pigs, long haired Peruvian, brwn & wht, 1 mo old, \$5; LR furn, lk new, 1/2 price. Call 262-6907.

Super kittens, tiger w/wht trim, 1 gray, some bobtails. x2467 or 237-1350.

AKC reg Siberian husky, 3 mos old, w/shots, \$150 or best offer, blue eyes, affec, intell & hsbroken. x5367 or 631-7980.

Special gray kittens free, mother Russian blue, father Persian, gd homes only. Gisela, x4772 or 969-8412.

Free to gd home, healthy, friendly, blk & wht mouse, w/cage. Heather, x2955 or 247-8355.

Kittens, 2: 1M blk, 1 F calico, 3 mos old, ready now, w/distemper shots. John, x2566 or 244-5202.

Valiant; elec broom; coffee tbl; refrig; 9x12 rug; dresser; dshwshr; dsk. Bruce Goldstein, x2410 or 924-4509 evgs.

## Vehicles

'62 Olds Cutlass, R&H, auto, runs gd, \$150. Ali, x2256.

'63 Alfa Romeo Spyder 1600 conv, R&H, gd cond, asking \$750. x1831 or 235-2784.

'63 Ford Fairlane, 6 cyl, stick shift, gd mech cond, body has some dents, drives well, gd gas mil, always starts, \$150. Call 646-4797 after 8pm or Saturdays.

'63 Chevy Belaire, 8 cyl, air cond, pwr st & brks, auto, \$200. x7815.

'64 Chevy Belaire sta wgn, V-8, AM-FM, pwr st, new tires & batt, 1 owner, v gd mech cond, some body rust, \$450. x401 Linc or 862-3840 evgs.

'64 Porsch coupe, 1 owner, low mil, exc cond. Call 359-4776, Medfield, or 326-8935.

'65 F-85-Olds, 4 dr, 6 cyl auto, \$520. Tony Frisiello, x192 Linc.

'65 Buick LeSabre, 4 dr sedan, R&H, pwr st, new carb, 2 new tires, \$600; Call 438-3107.

'65 Morgan Roadster, 21K. Pat, x2995 or 522-2965.

'65 Plymouth st wgn, Belvedere 2, all pwr, V-8, runs & looks exc, lving soon, \$465. Joran Fjsher, 547-1421.

'66 Olds 88, 69K, v gd cond, always kept garaged, \$1000. John Gaschnig, x7843 or x3202 lv message.

'66 Ford 4 dr sedan, clean, exo, w low mil, gd cond, pwr st & brks, R, carefully maintained by 1 owner, \$500 below market price. Eckaus, x3367 or 969-6627.

'67 Pontiac Tempest, 4 dr, custom, auto, air cond, \$975. x2429.

'67 Chevy Camaro, 6 cyl, auto, air cond, xtras, v gd cond, 1 owner, lving country, \$1300 or best. S. Radcliffe, x6647 or 484-2806.

'67 VW, 1 owner, \$800. John, x5281.

'68 Fiat 124 Sport Spyder, 36K, runs great. Alan, x7711.

'68 Pontiac LeMans, V-8, auto, pwr st, R&H, buckets, viyl top, exc cond, best offer. Sue, x7511 Linc.

'69 VW sedan, \$1200. Barry, x5370 or 667-4595 evgs.

'69 VW fastback, 29K, radials guaranteed 25K, snows, \$1750 or best. Call 933-4724.

'69 Camaro Z-28, vinyl roof, new tires, 26K, minor body damage, best offer over \$2000. Kathy, x584 Draper 7 or 861-9192 evgs.

'69 Fairlane, 4 dr hrdtop, auto, R&H, V-8, 2 mtd snows, 32K, top cond. Catherine, x5254 or 492-3176 evgs.

'69 Toyota, mint cond, 12K, \$1700. Jack Lindon, x4711.

'69 Fiat Spyder, 26K, \$1000. Lloyd Perry, 935-1514.

'70 Plymouth Barracuda, conv, fully equip, 13K. Call 924-1571 after 4pm.

'70 VW sedan, exc cond, 22K, \$1600. x6936.

'70 Fiat 850 SC, 8K, exc cond, \$1400. Andy, x7234.

'70 Datsun, 4 dr sedan, PL 510, R&H, full reclining seats, ww, snows, \$1895; '70 VW, sunrf, R, snows, \$1895; both provide 26-28 mpg, have been driven 10 mos, perf phys & mech cond, buying new cars. Lambert, x3839 or 692-8853 evgs.

'70 Renault, R-16, stndrd, lk new, 18K, must sell, lving country. Call 484-0694 before 7/2.

'63 Layton travel trailer, 13', self-contained, sleeps 5 or 6, gas heater, \$675 or best. Jim, x5794 Linc.

'67 Honda CB450, Avon tires, new carbs, windshield, carrier, crash bar, air horns, \$450. Mike De Estrada, x2961 (Ashdown).

'68 Honda CL 450, 4800 mi, \$400. x1936 or 623-3712 evgs.

'69 MG midget; Honda CL 450. Robert, x7664 Linc.

'69 Honda CB 350, approx 8000 mi, nds batt, \$500. Call 646-5319 evgs.

'70 BMW, R60/5 motorcycle, \$1200. Lew, x5768 or 547-8615.

Boat, 14' fibergls, 35 hp eng, gas tank & trailer, \$650. John Shea, 776-8092.

Sailfish sailboat, 13 1/2' long, made by Alcott, \$225. Call 957-0219.

Ski craft boat, 18' trailer inc, 40 hp Johnson motor, dual tanks, 5 life preservers, seat cushions, boat cover & conv top, \$750. Bruce, x2552 or 699-7427.

Old town lake boat, 16', w/10 hp Johnson eng, trailer & all equip. Jones, 495-2817.

Yawl, 26' dacron sails, fibergls covered, handmade w/pram, \$1000 or best. Bob McNaught, x425 Draper 7 or 667-4509.

Fibergls canoe, 15', 2 seater, 2 paddles, \$125. Frank Dufault, x2546.

Aqua cat, 12' sailing catamaran, wht fibergls hulls, dacron deck, 90 sq ft sail, spray shield, \$650 or best offer. Mike, x6762.

Chris Craft 20' sea skiff, fibergls, 185 hp inboard, exc cond. Call 646-0330 days.

## Housing

Concord Ctr, snl family home for rent, 3BR, lrg new K, LR, DR, 1 1/2B, lrg screened porch, spacious yard, 2 air cond, sep gar, step from schools, library, stores & tennis courts, lease renewable on yearly basis, \$350/mo. Call 484-5761.

Apt, 2BR, ww carpet, yard, avail immed, \$230. Sonia, x5614 or 354-2908.

Apt, 1BR, exc loc, 41 Broadway, \$160. Call 491-2883.

Apts, 5 rm: Belmont, avail 7/15; S. Boston, avail 8/1. Mr. Payne, x5814 or 268-8822 evgs.

Camb, avail now, 5 1/2 rm apt, 2BR, \$200, on 1st fl. Ann 864-1241 evgs.

Sunny 2 BR apt w lrg patio & enclosed land, air cond, prking, avail immed, furn, option-either sublet or renewal, 1st fl, \$215; for sale: maternity & baby clothes & baby furn, gd cond, reas. Call 354-6063.

Spacious 3BR apt w beautiful view, mod K, lrg sunny porch, 5 min walk to Arl Heights bus, avail now, \$275. Bill or Joe, x3223 or landlord 648-6338.

Bay St Rd 1BR apt, avail 8/1, 15 min walk from MIT, 1 block from Kenmore

Sq, exc cond, frpl, lrg LR, prking & all util inc, \$225/mo. x3902 or 262-7705 evgs.

Carnaby basemnt studio on Beacon Hill, \$125/mo, new K & B, avail 9/1. Jeff White, x1825 or 742-2769.

Watertown, mod 2BR apt, ht & water inc, prking, storage area, avail now or 8/1, \$180/mo. Celeste Guttman, 261-8750 days.

Arl, w/ reduce \$225 rent for July & Aug on 2BR unfurn apt, option to renew in Sept, heated, air cond, ww carpet, disp, playground. Ihara, x6849 or 643-0574.

Arl, 1BR unfurn apt, sublet 7/1 or anytime thereafter, option for renewal in Sept, MIT affil people only, \$190/mo. inc ht, air cond, ww carpet, offstreet prking, playground. Donna, x1871.

Lrg rm in Allston apt, sublet now to 9/1, partially furn, nr T, \$65/mo. Bob, x3312 or 731-4994 evgs.

Back Bay Beacon St nr Dartmouth sublet w option, 1BR, K, LR, B, furn, frpl, \$195/mo inc all util. Mark, x4840;

Back Bay Beacon St, summer sublet, nice furn studio, 5 min to MIT, lrg sep K, huge closets, util paid, \$130/mo. Christine, x6587 or 665-8564 evgs.

Beacon St sublet w option, v nice studio, K, ww carpet, \$135/mo negotiable. x2636 or 267-2659 evgs.

Beacon St nr Coolidge Corner, completely furn apt, sublet mid-July to mid-Aug. Ann, x3855.

Camb summer sublet, 2BR, air cond, furn, big yard, now - 9/1, \$220/mo, laundry, prking, quiet, lovely street, nice view. Call 661-0990.

Camb nr Cent Sq, 10 Soden St, sublet, 1BR mod apt, avail now, option for Sept, \$245 inc prking, air cond, heating, hot water, 4th fl. Call 864-8746.

Central Sq area, 2BR unfurn apt, sublet on 7/7 w option to renew in Aug, \$250 inc ht, prking, air cond & disp. Luiz, x6894 or 354-4847.

Nr Harv Div School, sublet, 3 rm unfurn apt in 2 fam house, 7/1-9/1, stove, frig, disp, cool, quiet, 10 min walk to Square, \$150/mo plus util. x3391.

Lex sublet, 2BR furn duplex, \$225/mo, 7/8-8/5. David Sutton, x4376.

Marlborough St sublet, lrg basemnt apt, furn, 1-2BR, LR, K, patio, 1 block from public garden, \$225/mo w/ negotiate for summer, avail now. Call 262-1261 evgs.

Somerville, summer sublet, \$180 for July & Aug, 58 Lawden Ave. Joan, 864-3088.

Watertown sublet, July-Nov, or rental, townhouse apt, 2BR, \$200 excluding util. Call 924-6872.

Canterbury, NH, wooded lot, 10,000 sq ft, Sherwood Forest Shores priv lake & picnic areas for the residents only, all util, 1971 taxes \$33.70, \$1000 firm. Call 776-1239 betw 1-4pm.

Burlington cape house for sale, 8 yrs old, full dormer & shed, 3BR, lrg dbl eat-in K, enc porch, ww carpet, 1 1/2B, knotty pine basemnt, exc landscaping, \$34.5. x2335 or 272-3073.

Cabin by lake in Maine, nr Sebago-Windham-Naples, \$4500. Call 868-3078 evgs.

N Hampton, NH, authentic cape, 2BR, lrg porch, cellar, attic, new heating sys, 6 acres, rolling fields, conv to beach, 1 hr 20 min from Boston, easily rented in winter, \$18,000. x476 Draper 7.

Cape Cod, Harwichport, atrac cottage for rent, July 17-31, sleeps 6. Ed, x5646.

Hyannis apt to rent, mod w sun deck, priv, sleeps 4/5, minutes to beach & stores, \$150/wk. Paul, x7803 or 775-1297 (Hyannis).

Old Marblehead, furn, 3BR, townhouse, w harbor view, pref snl cpl, 7/5-Aug. William Grindley, 631-6733.

Charming, spacious chalet on Pleasant Mt, Bridgeton, Me, 7/10-17 & mos of Aug & Sept, beautiful mt setting, all priv, overlooking 9 Mile Moose Pond, hike, swim, 2 sundecks, 2B, canoe & frpl, quiet atmos, sleeps 10-12, \$150/wk. Call 495-2418 or 358-7162 evgs.

San Juan, PR, July & Aug only, br new lux beach frnt apt, 2BR, 2B, swim pool, air cond, \$100/wk, sleeps 6, nr Americana hotel, conv to clubs, casinos & restaurants. Call 926-9821 evgs.

Nr Lake Sunapee, NH, new beautiful vacation chalet w beach on clear pond, 3BR, sleeps 8, rowboat, \$150/wk. x7302.

## Wanted

Up to 3 sleeping bags, used, in gd cond. Aviva, x2040 or 547-1135.

F rmmate for 2BR apt in N. Camb, avail July or Aug. Ellen, x6633 or 354-8183.

F rmmate for apt, 10 min walk to MIT. Call 354-4716.

Business woman to share lrg furn apt in Winchester, no pets. Alice, x7410 Linc.

Pilots w over 100 hours, for simulations w collision warning systems. Curry, x7756.

F rmmate to share v nice furn 3BR apt, frpl, on Comm Ave, nr Copley Sq, 7/1-8/31, option to renew lease, \$115. Sylvia, x2021 or 262-3829.

Babysitter, half days, nr Harv Sq. Mrs. Halverson, 491-2183.

Elec typwrtr, selec or better. Roger, x6032.

F rmmate starting 8/1, own rm, furn, betw Harv & Cent Sq, \$85 inc ht & all util. Mary, x5685 or 492-2860 evgs.

Babysitter, exp w infants, to change, feed & be nice to our baby at our house, Belmont-conv to T, several half days per wk; also crib or porta crib & old music stand. x3223 or 484-9275.

Matt for snl bed. x5789.

Man's bike, 3 spd, used. Bill, 489-1095.

Rmmate for lux 2BR furn apt, own rm, ww carpet, air cond, sundeck, \$125/mo. Rich, x520 Draper 11.

Ladies 3 spd bike, any cond. Call 625-1211.

Ride to Boulder or Chicago area early July. Pat, x3822 or 492-5499 evgs.

Apt, 1BR, LR, K, nr MIT, or T, prking, \$140-160/mo, Sept 1. Mike, 354-6164 evgs.

Ironing board, gd cond, cheap. Connie, x5243.

Ride betw Brockton & MIT daily, w/ pay. Skip Berger, x6153.

Piano for 10 yr. old aspiring musician, can only pay cost of moving. x4105.

Lionel trains, cheap. Alex Jacobson, x6813 or 491-7801.

Sublet, for 1st semester, 1BR w study or 2BR apt, Aug or Sept 1-Dec 31, \$200-\$250 w/ht. Call collect 609-924-7022.

Used metronome, w/ buy or trade. Call 492-4572 evgs.

Inexp rm on or nr Lake Winnepesaukee for 1st or 2nd wk of Aug. Claire, x5619 or 267-7964.

Mod 1BR or efficiency apt, unfurn, from 8/1 or 9/1, pref in Camb, can pay up to \$200 all util, respectable grad student cpl. x5305.

F rmmate for July-Sept 1 &/or after, own rm in 2BR mod apt w 2 other girls, 22 & 23, in Brighton on Comm T line. Nancy, 566-5987 evgs.

## Miscellaneous

WI do house painting, guar wrk, you supply paint we supply labor & equip, refer avail. Tim Heatwole, x3