

Canadian Car Wins Competition

A two-passenger natural gas-powered car designed and built by students from the University of British Columbia out scored some 60 other vehicles in more than a dozen tests to win last week's Urban Vehicle Design Competition.

The overall winner, class winners and special prizes were announced at the UVDC Awards Banquet on Friday, August 11, following the close of the five-day competition at the General Motors proving grounds in Milford, Michigan.

MIT's entry in the competition, a converted Mazda burning liquid propane, shared the safety inno-

(Continued on page 2)

Samuelson to Give Lincoln Lectures

Institute Professor Paul A. Samuelson of economics was recently named by President Nixon as one of four American scholars who will inaugurate Lincoln lectureships abroad, marking the 25th anniversary of the Board of Foreign Scholarships.

In an effort to promote intellectual exchanges, Professor Samuelson and his three colleagues will travel abroad to present seminars and public lectures. Professor Samuelson is tentatively scheduled to visit Japan, Australia and New Zealand.

The other scholars named by President Nixon are: John Hope Franklin, professor of history at the University of Chicago; Charles H. Townes, professor of physics at the University of California at Berkeley and former provost at MIT; and author John Updike of Ipswich.

Four foreign scholars, not yet named, will come to the US as part of this exchange lecture series.



THEFT DETERRENT—Campus Patrolman Robert Solakoff displays a special lock which can be used to

bolt down a typewriter while Pat Paula of Campus Patrol looks on. See story on page 7.

—Photo by Marc PoKempner

Students Work to Make R/O Week Successful

When some 1,050 freshmen arrive on September 1, they will be greeted by a host of students who have been planning and preparing for the ten-day Residence/Orientation (R/O) Week which will introduce them to MIT.

Leading the student effort is Bill De Campli, a senior from Drexel Hill, Pennsylvania, who, in fact, has been working as coordinator of R/O Week since last January. During the summer approximately 60 student volunteers have been developing various facets of the program.

R/O Week is roughly divided into three sections: residence selection, academic orientation, and introduction to activities and social events. Residence selection takes place during the first four or five days when fraternities and dormitories alike try to interest freshmen. Academic orientation includes meetings with faculty advisors and introduction to the core curriculum, and an electives

midway, new this year, together with examinations for advanced standing. The Activities Midway features the many extracurricular activities available to members of the community.

An orientation program for parents of entering students is scheduled for Saturday, September 9. It will be followed by the traditional President's tea for freshmen and their families which closes the week on September 10.

Throughout the week, however, many additional activities are scheduled for freshmen who find time on their hands. With the help of Alpha Phi Omega service fraternity, De Campli has arranged several tours in Boston.

(Continued on page 7)

MIT Will Host ATA

The duPont Tennis Courts and the J.B. Carr Indoor Tennis Center will be closed to members of the community next week while MIT plays host to the American Tennis Association's 1972 National Tournament.

The Sportsmen's Tennis Club of Boston, a non-profit organization formed in 1961 by MIT Athletic Director Ross H. "Jim" Smith and other local tennis players, will formally host the tournament at its new club facilities at Franklin Field from Monday, August 21, through Saturday, August 26. Because of the size of the tournament, however, many of the early rounds will be played at MIT, Harvard and Boston College tennis facilities.

In welcoming the tournament to MIT, James C. Allison, assistant to the President and Chancellor for minority affairs, said, "MIT is happy to be associated with the Sportsmen's Tennis Club and the

(Continued on page 8)

Centrex Problems Are Few

"There's no turning back," says Telecommunications Director Morton Berlan about the new Centrex telephone system.

The old system was cut at 2:01am, last Saturday but it wasn't until about 2:30 that the first call was received by the Institute operator on the new main MIT telephone number 253-1000—evidence that the new system was working, according to Anges N. Morrice, administrative assistant in the Telecommunications Office.

The first hour of Centrex was a hectic one in the telecommunications office. The telephone consoles set up to intercept calls to the old, 864-6900, were the first to come alive. The standard speech for the intercept operator was to tell a caller to dial directly the desired extension by adding the 253 prefix. This was temporarily replaced, however, by explanations such as "the dorm line is not working now but the tie line will be 180."

When Mr. Berlan was told at 2:45 that it was then possible to dial New York information he replied, "yes, but I tried to make a local '9' call and couldn't get through."

Mr. Berlan says that there are "still a lot of wrinkles," but



Mr. Berlan.

Miss Morrice.

because of the hard work on the part of the New England Telephone over the weekend, service is working well this week.

He reports that a number of problems stem from misinformation about the use of the new system. He emphasizes that when making an outside call on a phone equipped to do so, the dial tone after the "9" is dialed sounds the same as the original tone.

Mr. Berlan also says that dialing long distance on anything but a class A phone requires a credit

(Continued on page 2)

Richardson Calls 'Sniffers' Good Air Piracy Preventive Possibility

Chemical and biological "sniffers" may turn out to be the nation's first line of defense against airline hijackers, according to Herbert H. Richardson, who has just returned to MIT after two years as chief scientist at the US Department of Transportation.

Dr. Richardson, 41, is a professor of mechanical engineering at MIT and has been a member of the teaching staff at the Institute since 1958. He was appointed chief scientist July 1, 1970, by Transportation Secretary John A. Volpe, former governor of Massachusetts, at about the time that the

current rash of airliner hijackings started. Anti-hijacking technology became one of his major concerns.

Much of the research being done now, he said, is in the area of "sniffers"—devices to detect molecules that are characteristic of explosives.

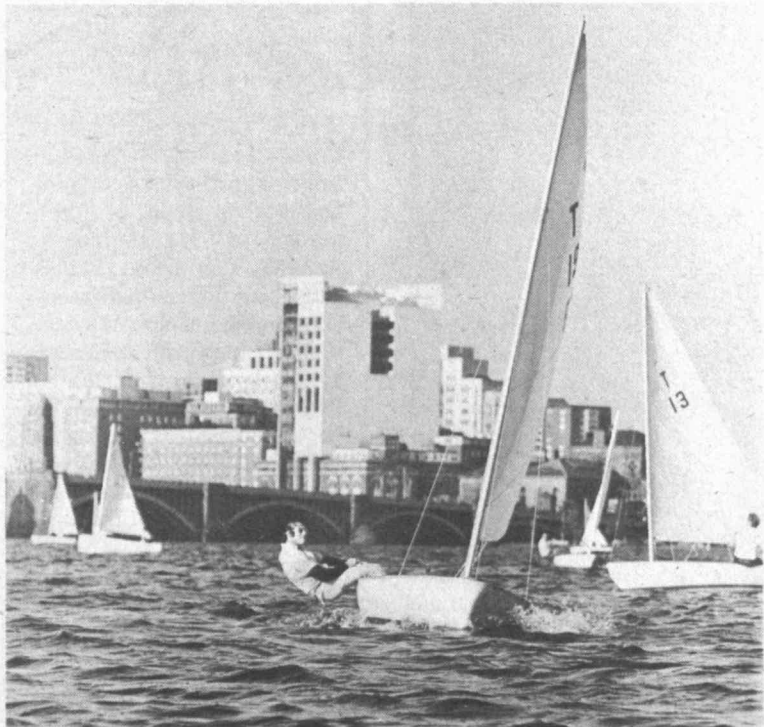
One of the components in dynamite is a complex and unstable molecule and—theoretically, at least—its presence in the air inside an airplane passenger or baggage compartment could be detected in one of several ways in concentrations as small as one part in ten

million.

One method being pursued, Professor Richardson reported, is gas chromatography. This is a technique that takes advantage of the fact that molecules of various kinds take individually characteristic times to pass along a resistive column. If, after a predetermined period, molecules pass from the chromatographic tube in a time period characteristic of explosives, then dynamite might be presumed to be present somewhere close by.

Another method of sniffing, Professor Richardson said, uses a

(Continued on page 2)



A familiar sight on the Charles. See page 5 for more.

—Photo by Margo Foote

Collins Pledges Support to Nixon Reelection Bid

Political analysts this week were puzzling over the effect there will be from announcement that Boston's Democratic ex-mayor John F. Collins, now consulting professor at MIT's Sloan School of Management and president of the Greater Boston Chamber of Commerce, is supporting the reelection of Republican President Richard M. Nixon.

Political reporter Robert Hannan in the newly-merged *Herald Traveler & Boston Record American* opined that the endorsement may "solidify for the Republicans the votes of those Democrats already veering from Senator George McGovern." Continued Hannan:

"Certainly John Collins, in cutting the mustard and putting himself on record for Nixon has forsaken any hope of trying Democratic politics ever again."

John B. Connally, Democratic ex-governor of Texas and more recently Secretary of the Treasury

Baker House Refurbished

Baker House residents returning to campus this fall will find a sparkling new look in their living quarters.

Usually the home of Summer Session students, Baker was closed this summer so cleaning crews could go in to scrub and polish the building from top to bottom—floors, ceilings, walls, everything. This job hadn't been done in over ten years, at least not all at once. Closing Baker House for the summer clean-up is a landmark in the building's history—Baker has never been closed since its doors opened in 1949.

In addition, the old wooden windows on the Memorial Drive side of the building were taken out and replaced with new aluminum windows.



THE NEW—Ruth Hazel (left) and Gertrude Carey show off one of the new Centrex consoles now located in the Telecommunications Office.

in the Nixon administration, last week listed Collins as among 40 national vice chairmen of "Democrats for Nixon" which Connally organized and heads. Collins immediately confirmed his support for Nixon and his opposition to McGovern in a move that newspapers said "rocked" Massachusetts Democratic circles.

Collins listed several specific issues—defense, taxes, urban problems, amnesty for draft evaders, parochial school aid, abortion—on which he disagrees with McGovern.

MIT Car Wins UVDC Safety Innovation Prize

(Continued from page 1) vation award with the University of Wisconsin's natural gas-powered Gremlin. The MIT car failed to meet pre-competition scores in exhaust emissions testing although it scored high in other tests during the five-day competition.

Class winners in the competition were the University of California at Los Angeles in the internal combustion engine category for a Gremlin running on liquid hydrogen, the University of Western Ontario for a student-designed electric vehicle, and the University of Florida for a hybrid electric Datsun powered by non-leaded gasoline.

More than 60 cars from throughout the United States and Canada showed up August 6 at proving grounds in Milford for the start of comprehensive tests of pollution emission, handling, parkability, noise and ten other factors important to city driving. The winners were selected using a weighted formula that emphasized emissions and innovation in design.

The University of British Columbia car combined above average scores on all the tests and



Professor Collins.

very high marks in innovation to win the competition. Built from the ground up by students, it was much smaller than modified production-line cars, and included a drunk tester, electric door locks and rubber-coated safety bumpers.

In giving MIT the safety innovation award, the UVDC organizers cited the car's elaborate drunk alert system that compares each authorized driver's physical reaction time to his averaged past reaction time in order to find out if he is under the influence of alcohol or drugs. If the driver fails to react quickly enough in three separate tests, the ignition system is locked for half an hour. The MIT car also received no damage in five-mile-per hour collisions on both front and rear bumpers, and got extra points for seat belts fitted with inertia reels which allow the driver to move slowly forward and to the side, but lock with any rapid movement.

The UVDC coordinating committee plans to publish a summary report of the competition, including complete scores and analysis, later this summer.

Centrex Complete

(Continued from page 1)

card. Institute personnel should contact departmental administrative officers about obtaining a credit card and the classifications of their phones. Requests to change the classification of phones should also be made through administrative officers.

At the beginning of the week there were still some problems with the new system. Any difficulty in reaching the Institute from distant points should be reported to the Telecommunications Office.

The major change with the Centrex system is the necessity to dial five digits to reach an extension within the Institute. Mr. Berlan also emphasizes that people who have phones equipped with call forwarding remember that five digits must be entered into the system after dialing "72" to redirect calls.

Complete telephone books including the usual personal information, will be issued later this year, according to Mr. Berlan.

Monday afternoon brought fewer calls to the main MIT switchboard, indicating that more people were reaching the desired extensions directly—one of the primary advantages of the new system. Mr. Berlan hopes that most of the problems will be ironed out by the end of the week.

Dogs, Technology Used to Thwart Skyjacking

(Continued from page 1)

bioluminescent sensor, which takes advantage of bacteria that normally grow on squid, and produce light. Strains of these bacteria are being grown which are extraordinarily sensitive to various chemicals, and will vary their light output when those chemicals are present in the air.

As the bioluminescent sensor is now being tested, the bacteria are grown in a special vial. A small fan carries air from the airplane into a chamber over the vial, and a photocell measures light output. When light declines, then molecules of whatever the bacteria are sensitive to are presumed to be present in the air.

When it comes to sniffing, though, Professor Richardson says, dogs are the most obvious candidates. As one might expect, they are being trained to detect and point out the location of bombs that have been placed aboard airplanes, and they do it with great sensitivity.

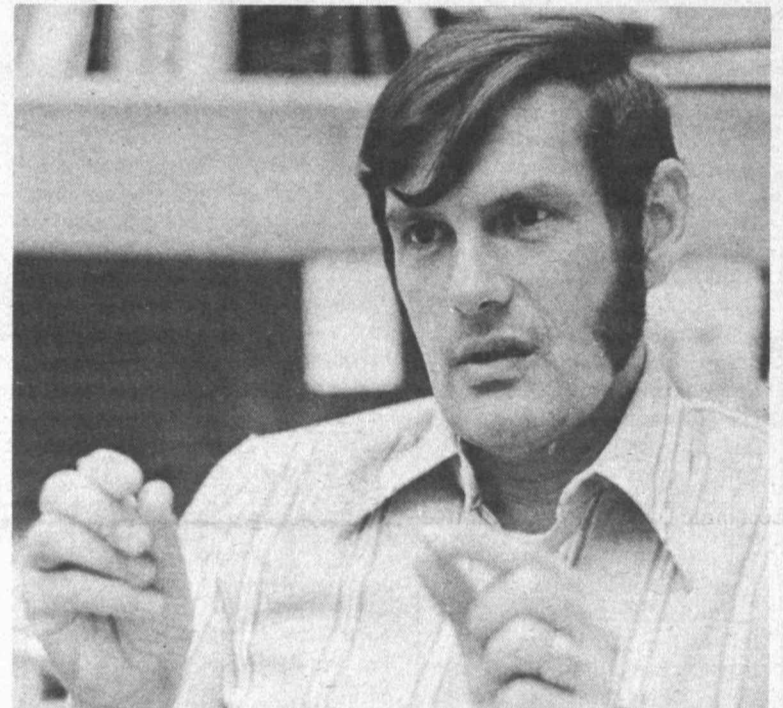
Meantime, however, pending

these new developments, the airlines and the government will continue to use magnetic metal detectors to scan passengers and x-ray devices to scan their baggage in an effort to thwart hijackers, Professor Richardson said.

Such devices are useful, he said, and most passengers do not object to their use. A few, however, do resist out of the mistaken belief that magnetic detectors might erase magnetic tape recordings or that x-ray scanners might erase photographs in their cameras.

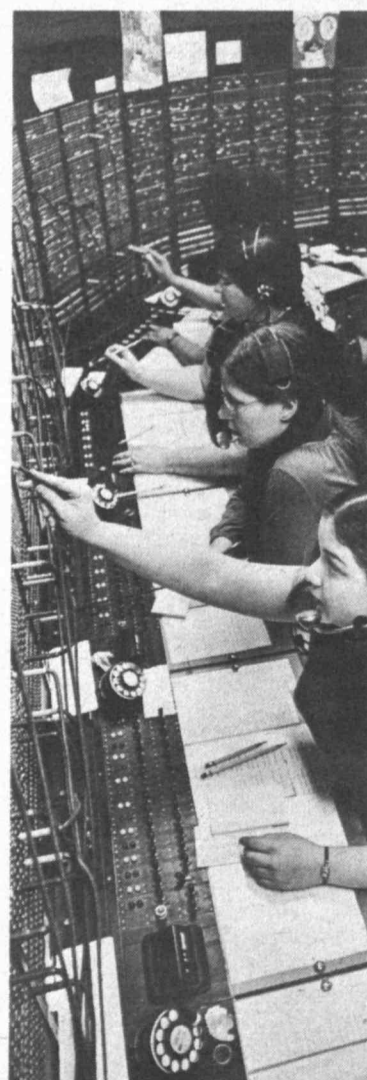
Not true, says Professor Richardson. The levels of magnetic fields being employed are too small to have any effect on magnetic tapes. Radiation used in scanning is far too small and delivered over time intervals that are far too short to affect camera film.

In some foreign countries, film can be affected by fluoroscopes used in luggage scanning, but even in those cases passengers are given adequate warning to remove film.



Professor Richardson.

—Photo by Margo Foote



AND THE OLD—Operators Patricia Grimes, Janice Bertozzi and Joy Judell (top to bottom) work at the now defunct switchboard in Building 10. —Photos by Margo Foote

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Joanne Miller

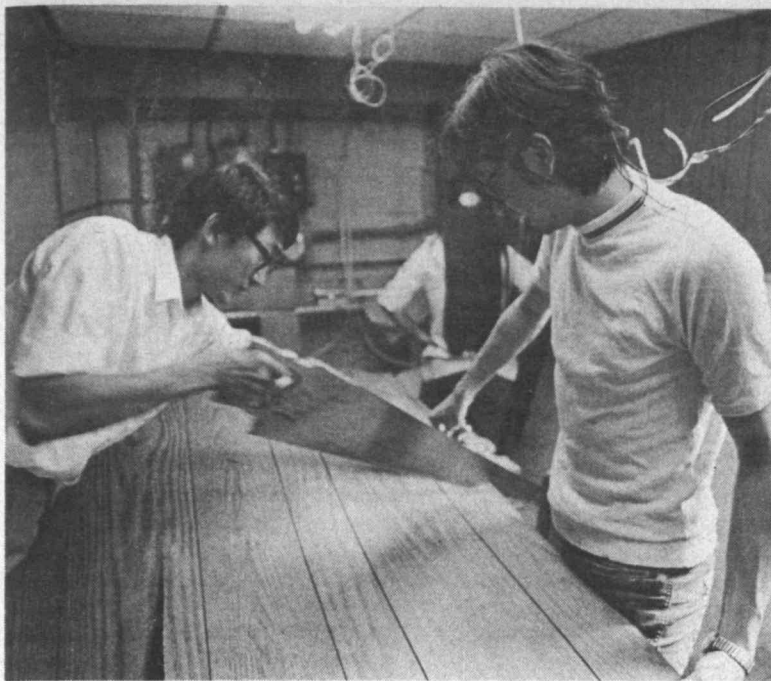
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Student Projects Help Elderly Cope with Urban Isolation



Albert Lau (left) and John Tsang working on refurbishing a basement room of the Chinese Golden Age Center where health services for the elderly will be provided.

—Photo by Marc PoKempner

Six students at the Massachusetts Institute of Technology are working—with pay—this summer helping community groups and residents in three neighborhoods cope with some of the problems of health care and social isolation that result from living in a large, impersonal city.

Two are helping start a health center for the elderly in Chinatown. Another has started a social service center for elderly people in the Fenway area. And three others are making surveys, planning and consulting for a Somerville citizens' health group.

The projects are among 15 Student Summer Projects in Community Affairs involving some 54 MIT students and ranging in

nature from landscape planning for public housing projects to development of fund-raising activities for black cultural groups. Student salaries are provided, in part, by MIT—through the MIT President's Fund for Community Affairs, MIT Community Service Fund, and the MIT Undergraduate Research Opportunities Program—and, in part, with grants from the National Science Foundation intended to help finance worthwhile student projects for the summer.

"Most college students need summer work to stay in school the rest of the year," Timothy Bird, special assistant in the office of the MIT provost and director of summer programs, said. "Often, summer work is unrelated to student interests, careers, or intellectual growth. In some ways, summer can be a wasteland.

"At the same time, increasing numbers of students want to use their talents, skills and knowledge to improve human social conditions. Our effort is to explore how summer projects of this kind can be made to enrich the total college experience in a way that adds to the intellectual and personal growth of the individual student. However, we insist that the student projects we support must meet actual needs of community groups as articulated by those groups themselves. They are all joint projects, aimed at cooperative self-help."

At MIT, the ideas for projects originated with the students themselves. They sought out ways they thought they could be useful, wrote up proposals in cooperation with community agencies, and—based on merit—were awarded stipends and support. Each project has a faculty supervisor and a supervisor within the community.

In South Cove at the edge of Boston's Chinatown, John Tsang, a junior architecture student from New York City and Albert Lau, a senior in mathematics, also from New York City, are remodeling the basement of the Golden Age Center into a health center for the elderly. Elderly Chinese living in South Cove are more isolated than most Boston residents, Tsang and Lau found. They are a mile from Boston City Hospital and cultural and language barriers isolate them from other city services. Both students speak Chinese, which breaks down one barrier.

In the health center they are building, the students have obtained the volunteer services of at least four physicians and seven nurses who will work several days a week. In addition, community volunteers will serve as interpreters, clerks, and receptionists. The plan is to provide simple, inexpensive health examinations and tests, including tests for diabetes, blood tests, and blood pressure measurements plus referral to—and help in obtaining—additional health services, when needed.

Robert Moy, director of the Chinese Golden Age Center, is community supervisor and Professor Tunney F. Lee of the MIT Department of Urban Studies and Planning is the MIT supervisor.

Ralph Rusin, a junior in urban studies and planning from St. Petersburg, Florida, is involved in another project for the elderly—this one in the Fenway. The 1971 voter registration records show that 500 elderly residents live within five minutes walking distance of St. Clement's Student

Parish. With the help of the parish, Rusin has organized a club, the Hand-to-Hand Club, open three days a week with a full program of social activities.

One problem Rusin has had is that of getting elderly men interested in club activities. Most, he found, turned out to be shy about attending. So Ralph instituted a one day a week special men's lounge, where the men can gather over donuts, coffee, and playing cards.

Rusin hopes the senior citizens will take over the club and run it themselves. He has developed a steering committee and aims to encourage leaders to emerge from within the group before his studies cut into the time he can give.

Reverend Thomas J. Mickey is community supervisor of the Fenway project, and Professor Robert M. Hollister, of MIT's Department of Urban Studies and Planning is MIT supervisor.

Professor Hollister also supervises another group—this one involving three MIT students helping people in Somerville organize health projects. The three are Dean Freedlander, a senior in urban studies and planning from Montreal, Canada; Mitch Kaplan, a junior in economics from Holliswood, New York; and George Vitek, a political science senior from Jackson Heights, New York. Robert Buxbaum, M.D., of the Harvard Community Health Plan, is community supervisor.

During the last school year, the three students worked with The Health Advocates of Somerville, a group devoted to a long-term goal of organizing comprehensive community controlled health care. More immediate is the goal to impress upon some of the area's 90,000 residents a realization of what they can accomplish on their own. According to Freedlander, the MIT students are now working with the community on individual, well defined issues that can convince community leaders of their own power to obtain results for their efforts.

One project, for example, involved a large number of dumpsters for trash collection always sitting in the open at a housing project. Invariably, youngsters would find the open dumpsters inviting and set fire to them. After George Vitek helped organize the residents into an interested group, a graduate student in MIT's Civil Engineering Department, James Hudson of Brookline, an expert on solid waste disposal, was called in to speak with them. As a result, a group of residents is now applying for Federal funds to upgrade the rubbish collection and disposal at the housing project.

The three students also are making a survey of one of the Somerville wards to determine exactly what health services are needed. Kaplan already has determined that there are no preventative health services for the elderly in the area, and he is seeking ways those can be provided.

According to Bird, "These field-work projects are intended to make small but significant progress towards two closely related objectives: broadening students' educations through 'real world' experience, and assisting in constructive community development. We are now developing ways in which students can continue their projects during the school year, as part-time employment or for academic credit."

Co-op Provides Low Priced Food and Community Interaction

There is more to a food co-operative than low food prices, according to Nicholas Lazaris, a fourth year MIT student in humanities and science from Rosemont, Illinois.

Lazaris has been working with the Cambridgeport Food Co-op since last February. He is trying to expand the co-op to serve not only the young but the elderly and other members of the Cambridgeport community. He says that besides low food prices, the co-op can serve as a forum for community interaction.

The co-op operates out of an office donated by the Cambridge Economic Opportunity Committee (CEOC). Lazaris first worked through the work-study program at MIT and is funded for the summer by the Student Projects in Community Affairs at MIT.

One of the by-products of the Cambridgeport co-op has been an effort to acquaint community residents with the younger, more transient population. Lazaris sees the co-op as the first step toward other actions involving all elements of the community.

"Educating people to what a co-op is," Lazaris says, "has been one of my main jobs. People's buying habits have already been formed and they have certain expectations."

Lazaris admits that buying food through a co-operative is more involved than buying through a supermarket. Sometimes everything a member orders cannot be bought. "Most of the problems, however are worth the effort, in view of the 20-60 percent savings that a co-op can offer," he says.

The Cambridgeport Co-op presently has 60 members but Lazaris says this number will increase in the fall. About one third of the membership is elderly or from low income families.

Every Monday morning at 6am, one "work group" makes the trip to the New England Farmer's Market in Chelsea to pick up the co-op's order. The work group for the week has previously collated the orders and will be in charge of the distribution at the CEOC office.

Lazaris emphasizes that "the co-op is not a service organization. Each member of the co-op is called upon periodically to do his share of work because it is the co-



Chauncy Blackwell of the Cambridgeport Food Co-op picks up his order on distribution day in an office donated by the Cambridge Economic Opportunity Committee while another member checks the price list, which varies from week to week.

—Photo by Marc PoKempner

operation and shared labor that creates the savings."

One of the main differences between the Cambridgeport co-op and other co-ops, according to Lazaris, is the division of labor. In other co-ops, he says, everyone is expected to take a turn at every job. This can present problems for the elderly who normally would be expected to go to Chelsea with the others and handle the crates of food. The Cambridgeport co-op expects all of its members to work, but only at jobs they can be expected to do. The elderly usually work at jobs such as tabulating the weekly orders and bagging the food on distribution day.

Lazaris feels that this is a very important aspect of the Cambridgeport co-op because everyone can find something to do and no one feels useless—especially the elderly.

The Cambridgeport co-op also does not require payment in advance for food nor does it substitute one item for another in a member's order. Lazaris believes these practices are disadvantages in other co-ops.

One of the jobs Lazaris has tackled since February has been to enlarge the co-op's membership to an optimum size. At least 30

people are needed to get a co-op started, according to Lazaris, but with more people, a larger selection of food can be offered. More than 130 members, however, makes the co-op too impersonal and difficult to manage.

Lazaris emphasizes that everybody in the co-op has a voice in the operation of the organization. He encourages dissatisfied members to speak up and try to change policies they don't like.

Although Lazaris will be leaving the co-op this week, he is confident that it will continue without him. "The important thing," he says, "is that we proved a truly community co-op can work."

Beals Gets Dining Post

Arthur Beals of Watertown was appointed assistant director of the Institute Housing and Dining Services effective July 1.

He had served as assistant to the director for two years. A 1970 graduate of the Institute, Mr. Beals received the S.B. and S.M. degrees in management. While a student, he worked part-time in the Walker Memorial cafeteria.

THE INSTITUTE CALENDAR

August 16
through
August 25

Events of Special Interest

Steer Roast***

A summer get-together for members of the Silver and Quarter Century Clubs and their guests. Thursday, August 17, 5:30pm, Kresge Plaza. In case of bad weather, the gathering will be held in the Mezzanine Lounge at the Student Center.

Folk Dance Marathon*

Folk Dance Club. Saturday, August 26, 1pm-midnight, Sala de Puerto Rico. Admission 25 cents.

Women's Forum

Women's Forum**

Every Monday, 12n, Rm 10-105.

Student Meetings

Student Information Processing Board Meeting*

Every Monday, 7:30pm, Rm E39-200.

MIT Club Notes

Folk Dance Club**

Workshop-Party. August 18 and 19, 8-11:30pm, Sala de Puerto Rico. Admission 50 cents.

Classical Guitar Society**

Concert guitarist **Hugh Geoghegan** is available for private instruction for intermediate and advanced students. Call Vo Ta Han, 661-0297.

Hobby Shop**

Open weekdays, 10am-4:30pm, duPont Gym basement. Fees: students \$6/term, community \$10/term. Call X3-4343.

Tiddlywinks Association*

Every Monday, 8-11:15pm, Student Center Rm 491.

Classical Guitar Society**

Special summer lessons for beginners, group and private. Mondays and Tuesdays. Call Vo Ta Han, 661-0297.

Judo Club**

Every Monday, Wednesday, Friday, 5pm; every Saturday, 1pm. duPont Gym Exercise Rm. Beginners welcome.

Outing Club*

Every Monday, Thursday, 5pm, Student Center Rm 473.

MIT/DL Duplicate Bridge Club**

Every Tuesday, 6pm, Student Center Rm 491.

Fencing Club**

Every Tuesday, 6-9pm, duPont Fencing Rm.

Beginning Mandarin Classes**

Chinese Students Club. Lectures on Tuesdays, 7:30-9pm; recitations on Thursdays, 7:30-8:30pm; through August 17. Rm 3-442. Admission \$5.

Glee Club**

Every Tuesday, Wednesday, Thursday, 5-6:30pm, Kresge. New members, especially tenors, welcome. Call Cyril Draffin, 247-8691.

Rugby Club

Summer rugby. Every Tuesday and Thursday, 5pm, Briggs Field.

Urban Vehicle Design Competition

Volunteer meetings. Every Wednesday, 3pm, Rm E40-250.

Nautical Association**

Basic Sailing Shore School, repeated every Wednesday throughout the summer, 5:15pm, Sailing Pavilion. Non-members welcome.

Student Homophile League*

Meeting and mixer meets Fridays, 8pm, Odd Fellows Hall, 536 Mass Ave, Cambridge. For gay help (anonymous) at MIT, call the student gay tutor, 492-7871 anytime.

Science Fiction Society*

Every Friday, 5pm, Student Center Rm 421.

Chess Club**

Every Saturday and Sunday, 1:30-5:30pm, Student Center Rm 491.

Social Events

Muddy Charles Pub**

Join your friends at the Muddy Charles Pub, 110 Walker, daily 11:30am-7:30pm. Call X3-2158.

Friday Afternoon Club**

Music, conversation and all the cold draft Budweiser you can drink. Every Friday, 6pm, the Thirsty Ear in Ashdown basement. Admission: men \$1, women 50 cents. Must be over 21.

Movies

The Bank Dick, plus selected short subject**

LSC Summer Entertainment Series. Saturday, August 19, 7 and 9:30pm, Rm 10-250. Admission 50 cents. ID necessary.

Ek Nanhi Munni Ladki Thi*

Sangam. Sunday, August 20, 3:30pm, Rm 26-100.

Devi by Satyajit Ray**

Film Society. Monday, August 21, 8:30pm, Rm 10-250. Admission \$1.

Music

Concert of Indian Music**

Sangam. Saturday, August 26, evening, Kresge Auditorium.

The Music Library will be open from 8am to 10pm every Monday during the summer.

Dance

Folk Dance Club*

International folk dancing. Every Sunday, 7:30-11pm, Sala de Puerto Rico (exceptions to be posted).

Summer Dance Classes*

Dance Workshop. Beginning modern, Tuesday and Thursday, 12n-1:30pm; beginning ballet, Tuesday and Thursday, 3:30-5pm; intermediate/advanced modern, Monday and Wednesday, 7-8:30pm. McCormick Gym. Admission \$1.75/class. Hannah, 492-4583.

Folk Dance Club*

Balkan folk dancing. Every Tuesday, 7:30-11pm, Student Center Rm 407.

Folk Dance Club*

Every Thursday, 7:30-11pm, Sala de Puerto Rico.

Friday Afternoon Dance Break*

International folk dancing on the Kresge Oval, every Friday (weather permitting), 12:30-1:30pm.

Exhibitions

Photography Exhibition*

An exhibit of photographs by local photographers including David Akiba, Roz Gerstein, Lawson Little, Mary Kay Simqu, Sean Wilkinson and others. Hayden Corridor Gallery through August 26. Free.

Autographed Music Scores

Exhibition of autographed musical scores in honor of Klaus Liepmann and the Choral Society. Music Library (Rm 14E-109) through the summer.

Hart Nautical Museum*

"Ocean Engineering Summer Laboratory Projects 1971 and 1972." Bldg 5, first floor.

Religious Services and Activities

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

Roman Catholic Mass*

Every Sunday, 10:30am, Chapel.

Divine Light Mission*

Discourses on the direct experience of Truth given by Guru Maharaj Ji. Every Monday, Wednesday, Friday, 7:30pm, Rm 4-145. Call 369-1603 (Concord).

Ananda Marga Yoga Society*

Group meditations. Every Tuesday, 5pm, Rm 14E-303. For information, call X3-3664.

Christian Bible Discussion Groups*

Every Thursday, 1pm, Rm 20B-031. Call Prof. Schimmel, X3-6739, or Ralph Burgess, X3-2415.

Islamic Society Prayers*

Every Friday, 12n, Student Center Rm 402.

Announcements

Society of the Sigma Xi certificates may be picked up daily from 2-5pm in Rm 5-230.

Group for New Parents*

Those interested in forming such a group may get further information from Adelle or Richard, 661-8690.

*Open to the Public

**Open to the MIT Community Only

***Open to Members Only

†Freshmen encouraged to attend

Send notices for August 23 through September 1 to the Calendar Editor, Room 5-111, Ext. 3-3279, by noon Friday.



DOC'S AT IT AGAIN—Back in 1966 Dr. Harold "Doc" Edgerton buried a time capsule beneath the Great Sail in McDermott Court. Last week, Doc was burying things again. This time he and Professor Louis D. Smullin (center), head of the Department of Electrical Engineering, along with Dean Powers (left), facilities officer in electrical engineering, buried eight bottles—Coke bottles, wine bottles and

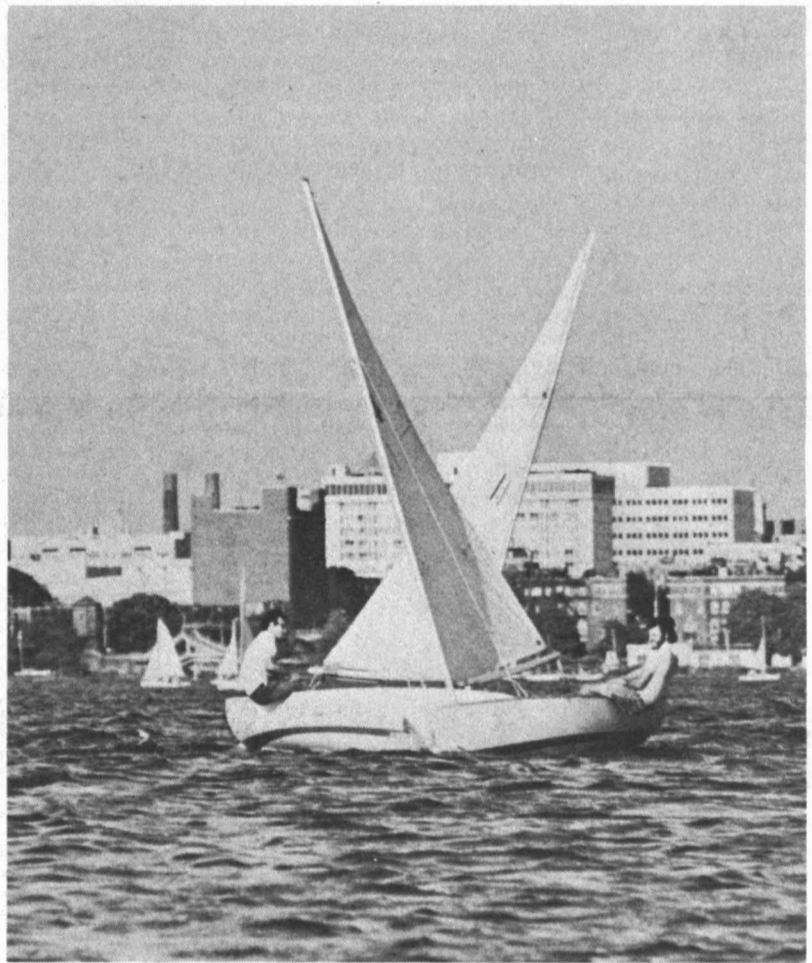
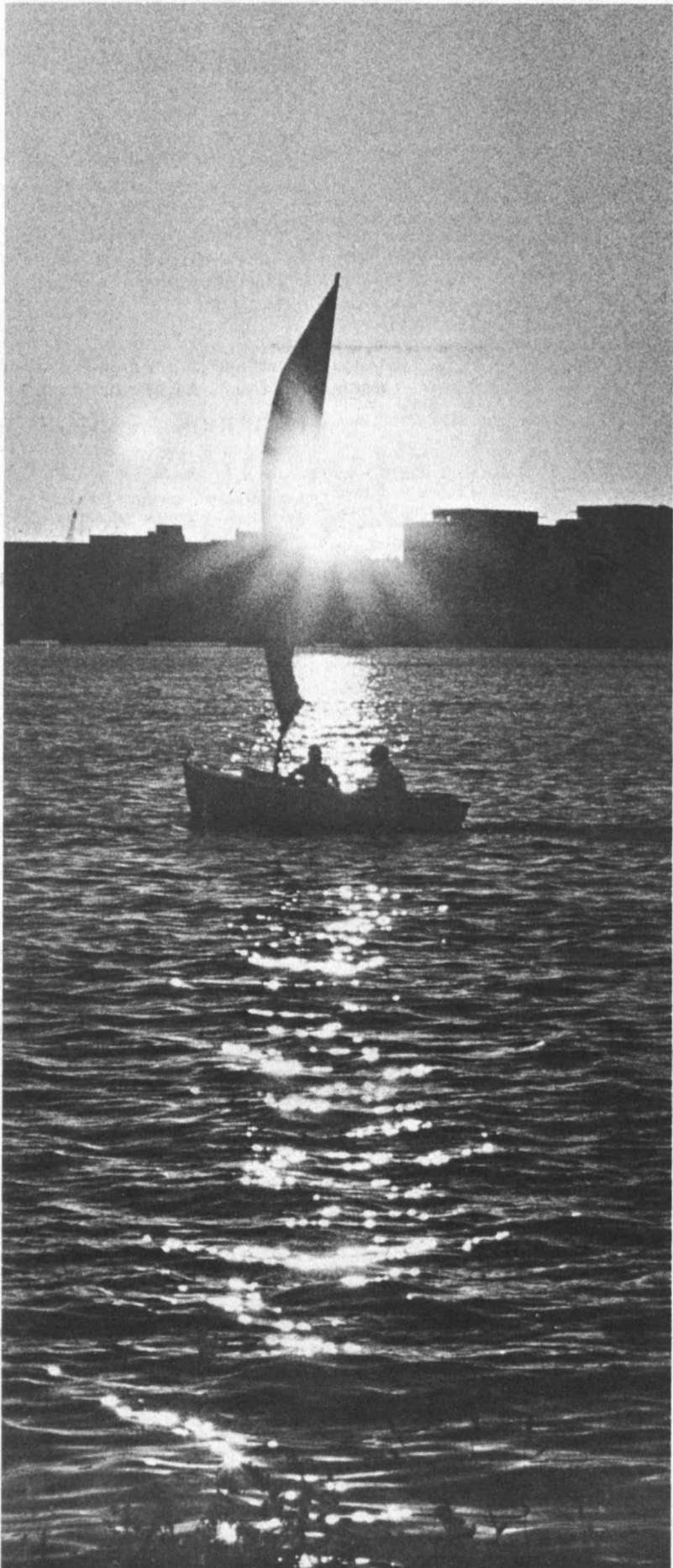
the like—near the construction site on Vassar Street. Unlike the time capsule which contained a sampling of the culture of 1966, the bottles were empty. However, they were etched with the names of students, faculty and staff from the Electrical Engineering Department as well as the dates on which the bottles were signed. How do you sign a Coke bottle?—with a diamond-tipped pen. What else?

Sailing, Sailing

Sailboats are a familiar sight on the Charles River during the summer months, but upon closer inspection, familiarity often breeds symmetry, beauty, or humor, as shown by the scenes captured here.

On the right, four sailors race their boats along the Boston skyline, the masts tilting in unison with the wind. Below, a lonely boat catches the sunset in its sail. In the center, a near collision makes the sails look like a large pair of scissors. Finally, on the bottom, a rather exasperated, wet sailor tries to right his capsized vessel.

Photos by
Margo Foote



CLASSIFIED ADS

Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and extension. Only Institute extensions may be listed. Members of the community who have no extensions may submit ads by coming in person to the Tech Talk office, Room 5-111, and presenting Institute identification. Ads may be telephoned to Ext. 3-3270 or mailed to Room 5-105. The deadline is noon Friday.

NOTICE TO AD READERS: Effective with this issue, all undesignated extensions listed are for Institute telephones only. It is now necessary to use an access code or tie line for all Draper Laboratory extensions. If a tie line is necessary, the name of the location, Lincoln or Draper for example, will be given following the listed extension. Please consult your new telephone directory to find the appropriate tie line.

For Sale, Etc.

Tires: 7.00x13 w/tubes, 4, v cheap. X8-1392 Draper.

Carpets, 10x11, gold; 9x12, gold; 9x12, red; all exc cond. Feretz, X3-3679.

Skis, bindings, poles, boots, complete, \$30; telescope, 70mm, 92X lens w/var access, exc cond, \$60 or best; various math books, exc cond, gd prices. Les K., X3-5831.

Rectilinear Mini-III's, asking \$120 for pair. Lee Siler, X3-6046.

KLH mod 400 stereo comp sys, Heath AJ 15 FM stereo tuner, Super EX ST Pro B, stereo headphones, best offers. Lyle, X8-1387 Draper.

Pr Rectilinear XI-2-way spkrs, wal cabs, less than yr old, exc cond, \$100/pr; pr Wharfedale W 30-D bkshef spkrs, wal cabs, 1 1/2 yrs old, exc cond, \$85/pr. Bob, X3-2054 or 3-4826.

Cushion bkrest, \$10; fan, \$15; Eastgate air cond, \$90; hair dryer, \$10; 175cm skis w/Spademan bndgs, \$50. Also wanted: dbl bed used by one owner. Penny, X3-6766.

CTR-5 Realistic cassette rdr w/AC adapter, \$12.50. Rollins, 325-0503.

Oval mahog DR tbl & 6 chrs, exc cond, \$75. Mary, X3-5685.

Fl sz refrig w/door shelves, \$25; Whirlpool wash mach, \$25, moving must sell. Marilee, X3-6196.

Yashica 35mm cam & case, f2.8 lens, 1/300 sec shutter, \$30. Also wanted: sm rowboat. Bill, X8-3661 Draper.

AR-5 spkr sys, 2 yrs old, exc cond, \$350 new, best offer over \$175. X3-7730.

Aria folk guitar, used 8 wks, case & strap, \$50. Gil, X388 Linc.

Toastmstr broil/oven, \$8; youth bed, matt, cover & 3 shts, \$28; baby back carrier, \$5; ladies coats, sz 11-12, \$15-20. John Rosenburg, X3-4710.

Martin D-18 guitar, exc cond, hard shell case, \$250. Bill Lee, X8-4048 Draper or X3-3785.

Mason-Hamlin piano, lg uprite, exc cond, \$550; '67 Rambler, \$100; lg sgl bed matt & frame, yr old, \$30. Call 491-4308.

Bausch & Lomb 35mm slide proj, remote control, gd cond, \$25. X3-4156.

Bulgarian fur coat, \$27; AM/FM port radio alarm. Piotr Koziol, X3-5075.

Couch, \$10; shopping cart, \$3; TV, \$15; Habachi, \$5; ironing board, \$4; vanity bench, \$5; ski boots, 9, \$10. Laura, X3-4878.

TDC VI spkrs, 6 mo old, exc cond. X8-1286 Draper.

Console TV, b/w, 23", gd cond, \$25. X3-6909.

Philco air cond, 2 yrs old, 9000 BTU, 115v, 12 amps; GE fan, 2 yrs old, 3 spd, 20". Neil, X3-2109 or 3-4524.

Twin bed matt, bx spring & frame, gd cond, \$25. Elliot, X3-4612.

Twin bed, matt, bx spring, frame, lk new, \$50. Nick, X3-6920.

Maple Windsor DR chrs, nd refinish, 4 for \$15; new 12 string guitar, \$70. Nichols, X314 Linc.

Sears Ken port washer, 3 cycle, avocado, ideal for apt, 6 mo old, lk new, was \$229, asking \$125; 2 F-78 Sears Dynaglass stud snows, \$40 or best. Pat, X613 Linc.

Lg desk w/swivel chr; twin bed; dresser; reclin easy chr; 3 bkcases; 2 K cabs; 2 tbl lmps, must sell, no reas offer refused. Call 731-3766.

Volvo B18 eng, radiator; TR4A trans, starter. X3-4626.

Antique sgl bed w/matt & bx spring, gd shape, \$38.50 or best, must sell. X3-2627 or 3-7193.

Facit typwr w/case, \$45; crib w/matt, \$25; LR curtains, 12', red, \$25; hi chr, \$12; dress tbl, \$12; slide proj w/bulb, \$10; elec blinket, \$9; movie lght, \$5; elec alarm clock, \$4. Hans, X3-4294.

LR set & other items, best. Beth, X3-5941.

Dbl bed springs, matt & bdstead, \$45; bureau w/mirror, \$30, or best. Lucy, X3-6632.

Brand new Minolta SRT 101 w/wide angle lens, warr still gd. Jan Willums, X3-7828.

RCA 15" TV, old, \$10; Roto broiler, \$15; Port typwr, \$15. Mark, X3-5319.

Rem hot comb, man's, blk, hardly used, \$10. Lee Linsky, X3-1782.

Furn & rugs, plane ticket to Lon &/or Frankfurt, all cheap. Debbie, 864-9481.

Lt mtr, cam case, Polaroid flash, frpl tools, basket & grate, 2 chrome & uphol arm chrs, 2-pc wh sofa, lmp tbls. X3-6010.

Dbl bed w/o bx spr & matt, \$15. Marilyn, X3-5251.

Oriental des rug, 9x12 w/foam pad, gd cond, moving, must sell. Call 387-2952.

Dbl bed, couch. X3-2058.

Stoves: RCA Whirlpool 40" gas, 4 bnr, thermo griddle, oven & brlr, rotis, \$50; old Magic Chef gas w/brlr, \$10, you move. X8-3551 Draper.

Washer, dryer, sewing mach. Paul, X8-1357 Draper.

Lt beige 7 1/2' sofa, orig \$600, now \$200. Lynn, X3-4875.

Hotpt port dish, yr old, \$150 new, asking \$80. Li, X3-7193.

Study desk, \$20; drws, bkshelves, tbl & 2 chrs, lmp, iron, mirror, lawn chaise, etc, best offers. X3-6857.

Nikon Photomic FTN, new, body w/FTN finder, TTL exp mtr, 50mm f1.4 lens w/UV filter, case, \$350. X3-4840.

Span style 9-drw credenza, new cond, \$50. John, X3-2680.

Overhd gar door sales & serv. Richard, X249 Bedford.

Stereo recrds, gd cond, \$1 ea; stereo tapes, gd cond, 1800' reels, 6 for \$10. X3-2428 or 3-2278.

Dbl bed, \$40; lg wd desk, \$40; '66 Yamaha 250cc, \$350; '66 Honda S-90, not running, make offer; lg hi-fi spkr, \$30. Rick, X8-1469 Draper.

Guitar w/case, \$40; sofa & arm chr, \$35; cab, gd cond, \$40; floor to ceiling lamp, \$15. X3-3703.

Voigtlander Bessa 120 folding camera, exc cond, best offer. Call 277-6090.

Comp amateur radio station, HW-100, linear amp, 4BTV vert, antenna, all pwr supplies & cables, \$600. Judy, X8-7328 Draper.

Children's bikes, fire engs, misc toys, stack tbls, pictures. Gundersen, X3-6085.

Frig refrig, 12 cu ft, separ freez, very gd cond, \$70. Call 646-5818.

Complete 10 gal aquarium, filter, pump, thermostat, pH kit, 9 fish, lght, etc, \$15. Ann, Dorm X8825.

Tan couch, \$30; match couch & cof tbl, \$20; dresser w/mirror, \$25; 9x12 gold rug, lk new, \$30; K tbl, 4 chrs, \$20; 3 bkcases, \$5, \$10 & \$15; 2 dressers, \$10 & \$15; 2 nght tbl, \$5. Call 492-1786.

Wedding gown, orig \$500, now \$300; Presto broiler oven, nvr used, \$18; 2 dresser, lt pink & hot pink, sz 16, fl length, \$15 ea. X3-4905.

Vehicles

'53 Bentley R, 4-dr, 10K since mech overhaul, handbk, new tires, tools, gd lthr, \$4100 or '57 Bentley S-1, 4-dr, exc orig cond, 57K, auto, \$5900. John, X8-2570 Draper.

'54 Ford Custom V-8, p br, extra whs, etc, fair run cond but easily improved by mech talent, \$85. Call 547-0950 pms.

'59 Mercedes, 220 SE sedan; '58 Mercedes, 219, many 220 type parts, make one out of basket, \$250. Charlie, X5373 Linc.

'59 Mercedes 220S, 4-dr, 4 spd, bl w/wd & red lthr int, AM/FM/SW, exc cond, best offer. X8-1392 Draper.

'61 VW, gd mech cond, gd body, reliable transport, new clutch, partly reblt eng. Lin, 547-9472.

'64 Chevelle Malibu SS, 2 dr hrdtop, auto, 283 V-8, gd cond, \$250; Admiral stereo, receiver w/AM/FM plus 2 spkrs, Garrard turntbl, 5 wks old, must sell, \$210 new, asking \$125. Marilyn, X3-6255.

'64 Ford Gal wgn, exc body, p st & br, air cond, R, blk w/red int, clean; lg mahog cab w/gd storage racks, Garrard turntbl, separate spkr in match mahog cab, gd for apt or fam rm, \$70 or best. Call 263-8485.

'65 Corvette convert, w/removable hrdtp, 327 cu in, 359 hp, 4 spd, AM/FM, disc br, \$1600 or best. Nick Stratis, X256 Bedford.

'65 Fiat wgn, new snows, 62K, gd city car, 50 mph max, \$125 or best. Rand or Abbie, X3-3213.

'65 Ford Country Squire wgn, 6 pass, p st & br, gd mech cond, gd tires, nds paint, \$350. Bill, X600 Linc.

'65 Ford Fairlane 500, AM, v gd cond, new clutch, new brakes, \$400. Dave, X3-1978.

'65 Ford Gal, best offer, nds repairs & tow, fixable. X3-4791.

'65 Pontiac Grand Prix, auto, Mark IV air cond, AM/FM stereo, snows on rims, new brakes, shocks & ball joints, orig owner, \$600. Madeline Johnson, X8-1280 Draper.

'66 VW, just runs, cheap. Thomas Gilmartin, X5568 Linc.

'67 MGB, grn, wire wh, AM/FM, tonneau, 40K, orig owner, \$800. X3-7148 lv msg.

'68 Austin America, 29K, auto, R, lving country, must sell, \$600; also furn to sell. X8-1181 Draper.

'68 Renault 10, gd cond, \$500. X3-5626.

'69 Chevy Impala Custom, 2 dr hrdtop, vinyl rf, auto, air cond, \$1750. Ray DeCampo, X8-3632 Draper.

'69 MG Midget, must sell, going abroad. X3-5765.

'69 Opel Kadett, 30K, exc cond, 1.9 eng, auto, tape deck, gd tires & snows. Lou, X8-1313 Draper.

'69 Toyota Corona hrdtop, 20K, \$1000 or best. X3-4936.

'69 Valiant, gd cond, 41K, \$1000 or best; Yashica D twin lens reflex, \$50. Richard, X3-5763.

'69 Volvo, auto, air cond, exc cond, best. Arun, X3-7425.

'70 Olds Cutlass Supreme, 2-dr, vinyl top, R&H, 23K, exc cond, asking \$2400, wl haggle; Doberman Pinscher, 5 mos, no papers, all shots, well trained, \$100. Irene, X3-1971.

'70 Peugeot 504, 4-dr, sunrf, low mi, R&H, v clean, exc cond, powder blue. Call 284-7086.

'70 Volvo 142S, exc cond, 4-spd on fl, console, AM/FM, rear window defrost, low mi, new HD batt, gd tires, \$1950. Ray, X3-4586.

'71 Pinto, grn w/blk int, 2000cc, 4 new radials, new spare, 2 snows, 8 track tape deck, \$1600. Leon Janikian, X8-4025.

'64 Vespa, red, exc cond w/removable windshld & spare, \$95; Buco trailers helmet w/bubble face shield, \$15. X3-1997.

'66 BMW R-60, 2 helmets, tools, repair man, saddle bags, fairing, \$850 firm. Nick, 623-6707.

'67 Kawasaki 250cc, been in spill, frame bent, otherwise gd cond, \$125 or best. X3-4813.

'68 Honda CL450, gd cond, must sell, \$600 or best. Call 776-1158 evgs.

'70 Yamaha 175cc Enduro CT1B, 3.5K; '71 Yamaha 350cc, street, R5-B, 2.3K, both exc cond w/extras. Myron Frommer, X3-3241.

'71 BMW R75/5 cycle, 12K, Avon Fairing, new tires, exc cond, many extras, \$1650. James, X8-1518 Draper.

Austrian built 10-spd bike, lk new, \$75. X8-3571.

Woman's 3-spd bike, 2 yrs old, \$65 or best; Yamaha stl str folk guitar, \$70 or best. Elaine, X7537 Linc.

Bike, 20", convertible, \$10. X5708 Linc.

Old balloon tire bike, \$6; lock & chain, \$3; also bed & sm tbl. Malcolm Best, X3-4301.

Housing

Allston, Camb St, 4-BR apt, \$250 htd, also others, on T. Jeff, X8-5181 Draper.

Bk Bay, 2-BR apt, Marl St, entire 2nd fl, 2 frpls, blt in bkcases, lg stor clos, much more, nr MIT, shops, T, avail 9/1, \$285/mo. X8-1440 Draper.

Everett area, mod 2-BR apt, sublet now-1/31/73 w/opt, w/w carpet, free pking, conv to shops & T, \$223/mo. X3-2355.

Jam Pl, furn rm in priv home, no K priv, nr T, 15 min from MIT, \$17/wk. Nancy, X3-7426.

Northgate duplex/twnhse, from 9/15 or 10/1, for married cple w/child, \$290/mo, 2 BR, LR, DR, separate K w/dish-disp, refrig-freez, full base, 220v outlets for air cond, washer-dryer. Burns, X3-1906.

Som, Northgate 1 BR apt, w/w, dish-disp, air cond, avail 9/13, \$225/mo, incl pking. Chouet, X3-1911.

Watertown, new 2 BR apt to sublet, dish, air cond, priv pking, nr T, \$195/mo incl all util, avail 8/20. Linda Chuang, X3-5656.

Exeter, NH, 5 BR, 3 1/2 B, ranch, 2 car gar, new stable for 4 horses w/deeded pasture rights, \$55,000. L. Baghdoyan, X7792 Linc.

Lynn/Lynnfield line, 4 BR hse, separate entrance, 2 B, frpl, panel LR, upper 30's. Ray, X3-4139.

Carlisele, 4 1/2 yr old contemp deck hse on 2.6 wded acres, 4 BR, 2 B, eat-in K, frpl LR-DR, frpl fam rm, util rm, 32' deck, avail 9/1, upper \$50's. Frank, X8-3309 Draper.

Animals

Poodle, min blk, 10 mos old, AKC reg, spayed, finished obedience, must part w/this loving animal, will accept reas offer from gd home. X3-4351.

Free kittens, 2, org & fluffy. Ed Carbrey, X8-3993 Draper.

Alaskan malamute puppies, born 7/23, v affec, m & f. Peter, X8-1584 Draper.

Siamese/Russian blue kittens, 3 m grey w/grn eyes, 1 f blk w/grn eyes, avail end Aug; Siamese blue pt avail for stud. X3-4409.

Wanted

Used lead. Dan Killoran, X8-1438 Draper.

Mother's helper to live in w/doc's fam in New, prt time baby-sit & hse work, own rm & bath plus salary. Shuka, X3-5935.

Cpl nds woman to care for sm child in home for 2 days/wk, begin 9/1 or before. X3-5524.

Gd cond used furn for 2 BR apt, refrig, LR, DR, BR, mod rate price, cash. Bill, X3-6222.

Garage w/elec to work on my car; 3 stud rims for Peugeot. Dick, X3-5560.

Usable BB gun. X3-3120.

Used port elec typwr, in gd cond. X3-5763.

Old rotary lawn mow eng for go-cart. Sara, X7195 Linc.

'67-'68 Valiant sedan, gd cond; treadle sewing mach in wrking cond. Edward. Haines, X6085 Linc.

Ride to Mich end of Aug, will share driv & expens. Dulcy, X3-4112.

Elec typwr, v gd run cond, under \$50. Joan, X3-1554.

Used florescent architect's desk lamp. Marc, X3-2268.

Ride to NY & back, 1 day, anytime next 2 wks. Mahesh, X3-2652.

Babysitter for 1 1/2 yr old child, 3 or more afternoons/wk, Brkl, Bri area. Kathy, X3-2859.

Family w/1 or 2 kids about 5 yrs to share spac home in Win, convenient to schools & T; single male to share Win house, reas rent. X8-1211 Draper or X8-1440 Draper.

Visiting English sci nds housing, 2 BR, for 3 mos, 9/15-12/15. X3-2311.

Male rmmate to share 8 rm htd, furn apt w/3 grads, Bk Bay, walk to MIT, avail 9/1-1/31/73, \$75/mo + util. Dick, X3-2532.

Rmmate for own lg rm of huge 2 BR apt w/grad student, nr Cent Sq, avail 9/1, furn, util, pking, \$130. Dan, X3-2116 lv msg.

Van, pref Amer, in gd cond, \$500-700 range. Call 536-7924 evgs.

Daily ride, Rte 2A Acton to MIT, round trip. George, X3-5306.

Miscellaneous

Will do gen, man or thesis typing on IBM Selec. X3-4563.

Day care avail for 1 or 2 sm children at home in Cambport, Morse sch district. Stew, X3-4479.

WI give priv Portuguese lessons in Westgate apt. Semira, 491-7537.

Commercial & instrument flight training, well-equip aircraft, low rates. Bill, X3-2297.

Positions Available

The Office of Personnel Relations each week lists a sample of the available opportunities at the Institute. Employees interested in transfers are encouraged to call the appropriate extensions for further information about these and other job openings.

Secretary IV to department head in urban studies will act as recording secretary for Faculty Executive Committee and Departmental Policy Committee, and will prepare background materials and minutes for weekly distribution to faculty and students. Set up frequent committee meetings, luncheons, faculty colloquia; compose letters, arrange travel, maintain files and phones. Shorthand required; some academic experience preferred; business school training; flexibility, maturity, a sense of humor important.

Secretary IV—A new joint program in environmental design seeks a bright capable individual to coordinate the secretarial/organizational/communication tasks of the group. Skills and interests should include some combination of the following: organizing meetings and events, answering letters and inquiries, editing and typing manuscripts, tracking students' and faculty members' schedules, "tending the shop", directing the work of a part-time secretary.

Secretary IV to advisor for educational program should be an experienced responsible person to deal with varied matters and handle questions from students, faculty and visitors. Ability to work well with others and set up active appointment and meeting schedule. Should have competence in composing business letters, good typing, and dictaphone experience.

Secretary IV to three staff members in an administrative department. Duties involve typing of correspondence and reports; some light accounting, handling of petty cash; receiving all incoming calls and visitors, travel arrangements and appointments. Excellent typing skill required and a minimum of two years experience.

Biweekly, Ext. 3-4251

Anti-War Ads Set for Miami

Mrs. Kay Worden of Weston, wife of an MIT staff member, will take her one woman advertising campaign to raise a flood of anti-war mail to the Republican National Convention next week.

Mrs. Worden, whose husband is Dr. Frederick Worden, executive director of the MIT Neurosciences Research Program, said this week she will purchase full page anti-war advertisements in Miami area newspapers encouraging Republicans to express anti-war sentiments in letters to President Nixon.

She already has spent \$30,000 of her own money—an inheritance—on similar ads in Ohio and Kansas and she estimates the ads in Miami will run another \$10,000.

Mrs. Worden's purpose is to encourage people to write to the White House in opposition to the war in Viet Nam. She conceived her idea after writing her own protest letter to the President after the mining of North Viet Nam harbors and realized that "one more letter from Massachusetts wouldn't make any difference."

She went to Ohio and Kansas when her ads appeared to answer telephone inquiries that might result and she plans to do the same in Miami Beach next week. Two thirds of the calls she received in Ohio and Kansas supported her actions.

Her ads also elicited letters to her. So far she has received more than 1,000, mostly from people supporting her and telling her they have written to the President.



WELCOMING COMMITTEE—Loren Dessonville, '75, Greg Hawkins, '75, and Bill DeCampi, '73, (left to right) discuss a mailing to incoming freshmen explaining R/O Week.

—Photo by Margo Foote

New Trouble Center to Be R/O Feature

(Continued from page 1)

such as the Museum of Science, the Freedom Trail and the Aquarium. In addition a coffee house in the Student Center will be in continuous operation.

New this year, as a result of a proposal De Campi made when he sought the coordinator's job, will be a Trouble Center, also in the Student Center. "It is easy for freshmen to get discouraged during their first days here," he said. "Often, they just need someone to listen to them, or perhaps direct them to persons who will help. We believe the Trouble Center will fill this role."

Working in cooperation with the Dean for Student Affairs Office, De Campi also hopes to set up a series of seminars for freshmen after the term begins. "The chief reason for the seminars is to see what kinds of problems the new

class has in settling into the academic program," he said. "But also, the seminars will be useful in getting feedback on the R/O Week program and suggestions for improving it."

Olivieri Urges Use of New Lock

Captain James Olivieri of the Campus Patrol is encouraging all departments at the Institute to bolt down typewriters and other portable pieces of equipment.

Captain Olivieri reports that 22 typewriters have been stolen so far this year compared with only 13 for all of 1971. He notes that the problem has not reached epidemic proportions but says that there has been a gradual rise.

A new locking bolt, the Bolen maximum security lock, has been stocked by Physical Plant and is

available to all departments. Captain Olivieri says that there have been no incidents of thieves taking bolted down equipment although attempts to do so have been made.

Locking bolts will be installed for about \$15 apiece, according to Fred Fahnley of Physical Plant. The cost per installation is less if more than one can be carried out at the same time.

Campus Patrol also encourages Institute personnel to lock small valuables up when no one is around.

This fall the Campus Patrol hopes to expand the program known as "Operation Identification" on campus. The program of embossing valuable items with some kind of identification—social security number, for example—was instituted here on a trial basis this spring at Westgate.

Two embossers were bought this spring and Captain Olivieri hopes to buy more. Once everyone in the residence halls has had a chance to use them, Captain Olivieri hopes to make them available to the general Institute community.

Academic Calendar

1972

September 1	Freshman Orientation
September 11	Registration Day, First Term
September 12	Classes Begin
October 9	Columbus Day (holiday)
October 23	Vacation, Veterans Day
November 23-26	Thanksgiving Vacation
December 13	Last Classes in Subjects with a Final Exam
December 15	Last Classes in Subjects with No Final Exam
December 18-21	Examination Period
December 22-January 7	Christmas Vacation

1973

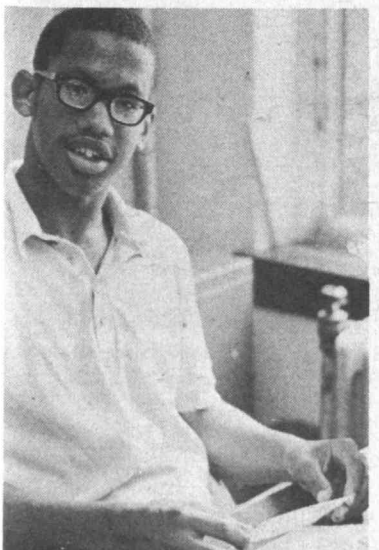
January 8-31	Independent Activities Period
February 1-2	Vacation
February 5	Registration Day, Second Term
February 6	Classes Begin
February 19-20	Vacation, Washington's Birthday
March 24-April 1	Spring Vacation
April 16-17	Vacation, Patriot's Day
May 16	Last Classes in Subjects with a Final Exam
May 18	Last Classes in Subjects with No Final Exam
May 21-24	Examination Period
May 28	Memorial Day (holiday)
June 1	Commencement Day
June 11	Summer Session Begins

MIT Employs High School Students for Summer

This summer 46 high school students have been working in various departments and laboratories around the Institute.

These young people are participating in MIT's Summer Employment Program, coordinated by India Thompson of the Office of Personnel Relations. A majority of these students came to the program through the Neighborhood Youth Corps which is funded by the Department of Labor and sponsored by the Cambridge Economic Opportunity Committee.

This summer the teenagers were offered the widest and most varied assortment of jobs in the



JACK OF MANY TRADES—Working in the Admissions Office, Jerry Pearson has served as a messenger, conducted a stock-mess inventory and performed clerical duties.

program's five year history. The high school students are engaged in such jobs as keypunching for a cable television project, helping an MIT student set up a community radio station in Cambridge, performing clerical duties in several Institute offices, working in the libraries, assisting in the set up of a photographic dark room, serving as laboratory and technical assistant/trainees for several professors and graduate students, and providing messenger services for several departments.

In addition to gaining basic work experience, the high school students also have been exposed to a wide variety of opportunities and experiences. For example, 28 of the program participants have been attending typing classes four hours each week. These classes are being taught voluntarily by three MIT secretaries: Dee Bowman of electrical engineering; Ada Diaz of personnel; and Susan Mattes of the Sloan School.

The typing classes have been successful both in holding the students' interest and in increasing their typing skills. The students' department supervisors have been impressed by their young employees' increased desire to type as well as by their improved typing performance on the job. As a result, many of the students have taken on added typing responsibilities.

A weekly workshop series is another aspect of the Summer Employment Program's multi-stimuli approach to providing a

broad educational experience for the students. Every Friday afternoon the students attend discussions on topics of interest and importance to their age group—how to get and hold a job, ethnic identity, and the Swahili language.

Also during these workshops, the students have taken short tours around the Institute, stopping to investigate Dr. Harold Edgerton's strobe light, MIT's entry in the Urban Vehicle Design Competition, and a hovercraft built by students in the Department of Aeronautics and Astronautics. In addition, the high school students have been given free access to Alumni Pool facilities during lunch hours and after work.

Bill Polk, who holds a master's degree in social work and is now a graduate student in the Department of Urban Studies and Planning, serves as vocational counselor for the young employees. Speaking about the overall program, he says, "The most self-redeeming factor is its attempt to do what many federal programs fail to do—provide employment and training for those people who really need help. These teenagers were given jobs because they needed both the jobs and the experience, not because they were the best candidates for program success.

"This mean," he continues, "that instead of 'creaming the crop,' allowing only good kids to get the jobs, more of the hard-to-motivate young people were reached. In the final analysis, this



TECH TALK'S GAL FRIDAY—Debbie Watson has spent the summer building a clipping library for Tech Talk and updating reference sources for the News Office.

—Photos by Marc PoKempner

program offers real opportunities for 'street kids' to acquire transferable job skills and incentives to get the most from an education."

Program coordinator India Thompson hopes that the Institute will also benefit from the program. She says, "Through the day-to-day supervision and periodic supervisors' meetings with the Personnel Office, I hope the program has been as much of a learning experience for the individual supervisors as it has been for the young employees. The program should give supervisors valuable experience in creative

job building and on-the-job training. The knowledge derived from this experience can be used on an everyday basis to foster the same kind of job growth, interest and development among permanent Institute employees."

She continues, "I've been particularly excited about the success of the program this year—the supervisors' interest in their student employees, the students' level of interest in their jobs, and the kinds of long-term career goals many of the teenagers are beginning to think about."

Draper Man Is Also Rec Leader

Draper Lab technician Ken Haskell of Cambridge is using his experience with teenagers to good advantage during his off hours.

Haskell is the recreation leader of the Cambridgeport Teen Center and he loves his second job. His background includes looking after his four teenage brothers and sisters after their mother died and two years with Rindge Shelter, another Cambridge area teen center.

"Our's is probably one of the most successful teen centers in Cambridge, as I understand it," he says. The Cambridgeport Teen Center has 188 members and Haskell says he is constantly challenged to keep them interested.

"The kids have nothing to do, especially during the summer, and if we don't set up a good program, they won't stay," he says. The teen center has an ongoing arts and crafts program and also sponsors dances, movies and camping trips for its members.

The teen center also offers a number of trophies for everything from ping-pong to bumper pool. "Kids are trophy hounds," Haskell says.

The Cambridgeport Teen Center is located on Henery Street in space donated by the Polaroid Corporation. MIT leases the build-



Ken Haskell supervises a card game at the Teen Center.

—Photo by Marc PoKempner

ing to Polaroid.

Several MIT people were involved in the renovation of the basement which is now the teen center. Architecture student Peter Bruckner, a resident of Cambridgeport, and Dick DeWolfe and others from Physical Plant drew the plans which were used for the redesign.

The cost of renovating the 4,000 square foot area was shared by MIT with the city of Cambridge.

A lot of the actual cleaning was done by the teen center members. "Kids have more talent when you just let them go," Haskell says.

There are still some improvements Haskell would like to see made at the teen center. He is presently looking for someone willing to donate a used electric stove and/or refrigerator. "And if we get the stove and refrigerator," he says, "of course we'll need kitchen supplies, too."

A. S. Bufferd Accepts Alumni Fund Post

Allan S. Bufferd, '59, of Newtonville, has joined the MIT Alumni Fund as associate director, Kenneth S. Brock, director of the Fund has announced.

Dr. Bufferd's responsibilities at the Alumni Fund will include coordination of Fund programs for the 20 youngest classes, the Graduate School, the Independent Residence Development Fund (primarily fraternities), parents and the general administration of telethons. His appointment was effective August 14.

In addition to his bachelor's degree, Mr. Bufferd received the S.M. in 1961 and the Sc.D. in 1965, all in metallurgy. He is president of the Class of 1959.

Most recently, Dr. Bufferd was director of engineering for the Nuclear Metals Division of the Whittaker Corporation. Earlier he held posts with Avco Systems and Teledyne Materials Research. Dr. Bufferd has also taught graduate courses in engineering at Northeastern University, in addition to technical consulting activities.

Registrar's Notice

Friday, August 18, is the last day of classes during the regular Summer Session period. Final examinations for regular Summer Session subjects will be held Monday through Thursday, August 21-24.

Joint Center Names 6 Fellows from MIT

Six MIT graduate students have been selected as 1972-73 members of the Joint Center for Urban Studies of MIT and Harvard.

Students were awarded fellowships for one year, totaling up to \$1,000 for research expenses with a maximum stipend of \$3,400 and tuition. All Joint Center Fellows are provided offices and given full access to the activities of the Joint Center.

The six 1972-73 Joint Center Fellows are: Rachel G. Bratt of

Boston, Steven Girton of Cambridge and Arnold J. Yoskowitz of Brooklyn, New York, in the Department of Urban Studies and Planning; Richard V. Butler of Newport Beach, California, in the Department of Economics; Donald E. Dickson, Jr., of Cambridge, in the Department of Political Science; and James Wilson, Jr., of Los Angeles, in the Department of Architecture.

Mr. Wilson is the only student selected as a member who is not writing a doctoral dissertation.

Obituaries

Joseph Mangano

Joseph Mangano of Dorchester, a retired mechanic in metallurgy, died in Miami, Florida August 4.

He is survived by his wife Julia and children Mrs. Mary Traniello and Sam Mangano, both of Somerville, five grandchildren and eleven great-grandchildren.

Funeral services were held August 8.

John Powers

John T. Powers of Roslindale, a retired night custodian in Physical Plant, died in Newfoundland August 6.

He is survived by his wife Bridget and children Joan L. Fasanello of Roslindale, James T. of South Weymouth, Ellen M. Parker of Tewksbury and Hannah M. Flaherty of Kingston.

Funeral services were held August 10.

New MIT ID Cards Now Being Distributed

Institute identification cards bearing each individual's name and social security number are now being distributed to all MIT faculty, staff and employees, according to Kerry B. Wilson, assistant to the director of the Office of Personnel Relations.

The new cards are designed to provide all employees with a means of identifying themselves as members of the MIT community. The cards will apply to various administrative processes at the Institute. First, they will replace the blue Bursar's card now used for cashing checks in the Cashier's Office. Later they will be used for checking in at the Medical Department and withdrawing books from the libraries.

Because of the volume of cards being distributed—some 6,500 on campus and another 1,600 at Draper Laboratory—everyone will not receive his or her card at

the same time. Initial distribution is being handled by the various department and laboratory administrative offices and is expected to continue for another two or three weeks.

Employees hired after May 31 will not receive cards in the initial distribution process, Kerry B. Wilson explained. "Only those persons employed at the Institute before May 31 will receive cards now. We are in the process of compiling a list of employees hired since the beginning of June and will send them cards as soon as possible. Issuance of identification cards will soon become part of the regular hiring process for new employees."

Any questions concerning the identification cards should be directed to the appropriate administrative officer or to Mr. Wilson on Ext. 3-1674.

MIT Provides Courts for Tennis Tournament

(Continued from page 1)

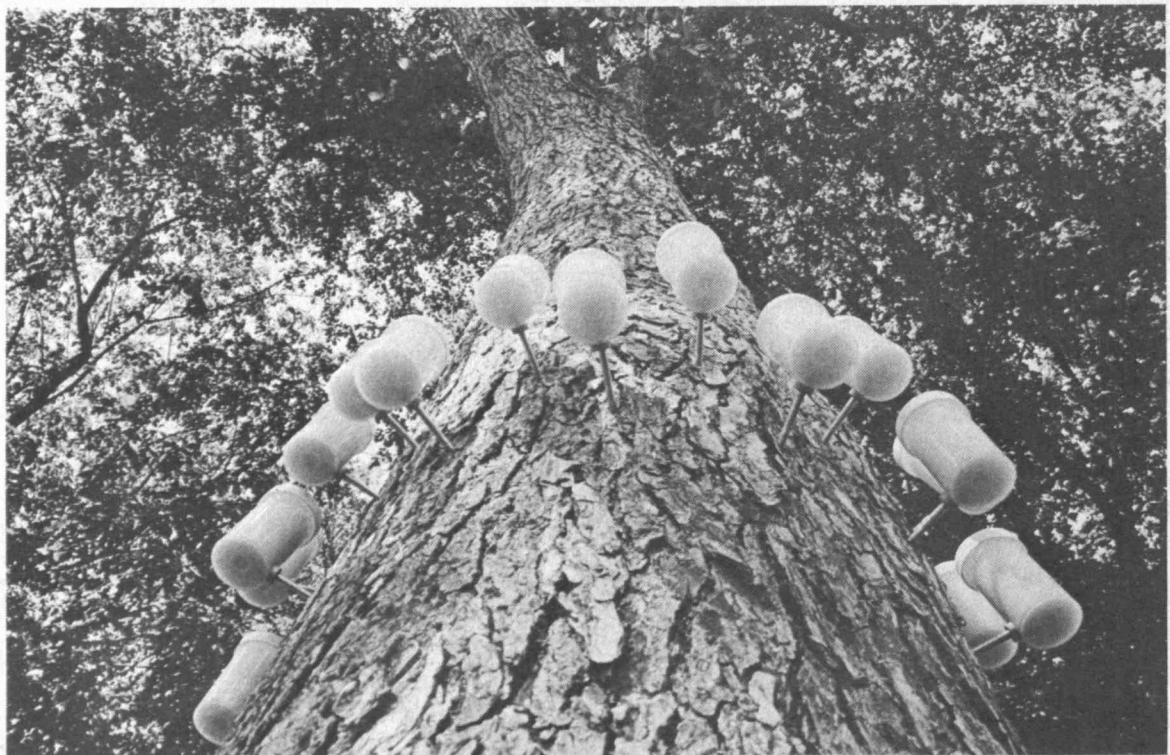
American Tennis Association's National Championship. We hope this event will be a huge success and that the tennis lovers in Boston will support the Sportsmen's Tennis Club in making this event a memorable one. Our association with Jim Smith and the Club started when they began their drive to build a tennis facility three years ago. We hope to be associated with them for many more years to come."

The American Tennis Association (ATA) was founded in 1916 by blacks who wished to provide other blacks an opportunity to participate in organized and competitive tennis. The first national tournament was held in Baltimore in 1917 and has been an annual event since then. Black

Americans were denied the opportunity to participate in tournaments sanctioned by the US Lawn Tennis Association (USLTA) until 1940 when Donald Budge and Jimmy McDaniel played an interracial match in New York City. At that time both the ATA and the USLTA adopted a policy of integration.

Top-ranking amateur tennis players from across the country will be in Boston for the competition. Several former ATA players, including the notable Althea Gibson and Arthur Ashe, will be on hand. Scheduled events include singles and doubles matches for all age groups, ranging from the seniors' division to the 16, 14, 12 and under age group. All of the junior events except the finals will be played on MIT's duPont Tennis Courts.

Law and Disease Force Felling of Two Great Court Elms



IT WON'T HURT A BIT—this application of Benlate may help save the elms.

—Photo by Marc PoKempner

The large elm tree in the small garden at the rear entrance to Building 7 was cut down last week—a victim of Dutch elm disease.

Two of the Great Court elms also will be felled because of the disease. State law requires that diseased trees be removed and destroyed promptly in order to curtail the spread of the blight.

The Institute will experiment with a new product, Benlate, in a further effort to control the disease, according to Laurence Pickard, Physical Plant superintendent of grounds. All the elms in the Great Court will be treated with the substance, which is injected directly into the bloodstream of the trees.

In addition, half of the elms on

the grounds between the East Campus parallels will also be treated. The other half will be left untreated as a control for the experiment.

Mr. Pickard also notes that several of the Institute's sycamores have been removed because of disease. The disease, which affects many sycamores in the northeast, has not yet been diagnosed.