Massachusetts Institute of Technology



April 19, 1972 Volume 16 Number 41



OFFICE OF THE PRESIDENT

To Members of the Community:

Today marks the opening of the fourth annual all-Institute drive in behalf of the MIT Community Service Fund. This MIT Fund, which assists volunteer projects undertaken in the surrounding community by students and others is widely recognized as a most successful new approach to university community service. May I commend the Fund to your attention and urge for it your support.

Since its establishment four years ago, the Fund has raised \$250,000; and last year fourteen different projects received financial support through it. These projects ranged from a vocational training program at Concord prison conducted by volunteers from Lincoln and Draper to a variety of large student-initiated programs such as Tutoring Plus and Urban Action in Cambridge and Boston. Each of you will receive soon a brochure summarizing the current activities and condition of the Fund.

While the Fund was created on the recommendation of the faculty, it is directed by a board of trustees broadly representative of the entire MIT community--including faculty, administration, students, employees, and representatives of the MIT Corporation and of the alumni. Established to recognize the responsibility each of us has to try to improve the quality of inner-city life, the Fund's basic objective is to maximize the effectiveness of MIT volunteers and to encourage and finance their service to the community. I salute the efforts of those individuals who offer their talents and time to so serve, and I endorse this campaign to raise from within our own MIT community the necessary funds.

The goal of this year's solicitation is \$50,000. Many members of the Institute Community--students, employees, faculty--are working to help achieve that goal. Please assist them by contributing to this year's appeal as generously as you can.

Jerome B. Wiesner



Among guests from MIT at the Apollo 16 launch were (left to right): Vice President Paul V. Cusick, Draper Laboratory Deputy Director Ralph R. Ragan, Mrs. Cusick, Mrs. Ragan, Mrs. Howard W.

Johnson, Mr. Johnson, Chairman of the Corporation, and Dr. Charles Stark Draper, founder and President of the Draper Laboratory. Other pictures of launch activities appear on pages 6 and 7.

Six Recent Armed Robberies Elicit Campus Patrol Warning

Following a wave of six armed robberies in the MIT vicinity in two days, including a chase of one robber by the Campus Patrol, MDC and Cambridge Police, the Campus Patrol is warning members of the MIT community not to carry large amounts of money and to avoid secluded areas

Four of the robberies occurred Danforth Street. on the campus, one on the Harvard Bridge and the sixth on Memorial Drive between MIT and Harvard. In every case, the robber was armed with a knife.

According to Captain James Olivieri of the Campus Patrol, four of the robberies occurred on Wednesday night between 7:45 and 8:45 and all appeared to be the work of the same robber.

The first occurred in Briggs Field near the Student Center when a student was approached from behind by a male who claimed to be carrying a knife. The man said, "I'm a junky and I need the money bad." The student emptied his pockets but had no money and the thief ran away.

Another robbery took place shortly afterward between Burton House and Briggs Field. According to the victim, the robber put a sharp object to his back and asked for his money. Finding that he had only 13¢, the thief allowed him to leave, saying, "Don't turn around."

A few minutes later another robbery occurred on Briggs Field near Kresge. This time the student

Aided by the MDC Police and the Cambridge Police, the Campus Patrol chased him on foot and in cruisers across Briggs Field and over the fences and railroad tracks. He was eventually lost in the vicinity of Albany Street.

According to Campus Patrol, there are no leads on the suspect, although they do have a very good description.

In the fifth robbery, a male student hitchhiker was picked up on the Boston side of the Harvard Bridge by a car carrying three men and one woman. While driving across the bridge, the driver took out a knife and forced the student to turn over all of his money. He had 15¢. The student was released on the MIT side of the bridge.

A similar robbery was reported by the Cambridge police last Wednesday in Cambridge.

Because there has been such a sharp rise in the number of robberies in the MIT area this year, Captain Olivieri warns that people (Continued on page 3)

at night. Students Develop New Kind of Numbers Racket with 'Alphabetic Number Tables'

Four students in 18.051, Surveys of Higher Mathematics, have developed a new kind of numbers racket which they are selling in the Maclaurin Lobby this week.

It is the vest pocket Alphabetic Number Tables which lists numbers from zero to 1,000 in alphabetical order "both in English literation and in Roman numerals," according to the preface. The students are selling copies for fifty cents each to defray printing costs on the novel volume. Copies are also available at the Coop.

The English listing begins with

In the Roman table, numbers one (I) through ninety-nine (XCIX) and one thousand (M) make up the final 100 numbers in the list.

The idea for such a listing apparently began with the late Professor John Von Neumann at Los Angeles at Los Alamos during World War II, according to Dan Bloom, '72, one of the compilers of the Tables. Von Neumann passed it along to Professor Stanislaw Ulam who, in turn, suggested it to Professor Gian-Carlo Rota several vears ago.

Professor Rota mentioned it to his class recently and four of the students decided to act on the idea. In addition to Bloom, they are Rick Collarini, '72, Radia Perlman, '73 and Anthony Zawadski, '71. Together they wrote the computer program which produced the book.



Faculty

eight, followed by eight hundred and eight hundred eight, right on to zero which, ironically, is the last of the numbers alphabetically. One hundred (C), two hundred (CC) three hundred (CCC) and three hundred one (CCI) lead the Roman table which closes with thirtyeight, or XXXVIII.

One is listed in 450th place in English and in 901st as a Roman numeral. One thousand, on the other hand is number 551 in English and number 946 in the Roman table.

Here and there are interesting justapositions. For example, the 354th listing in English is nine hundred fifty, or CML. Referring to the Roman table, CML is listed in 353rd position--only one digit difference.

The 18.051 numbers gang selling its book in the Maclaurin Lobby.

saw the knife which he described as having a four-inch blade. The thief escaped with \$11.

The third robbery occurred at 77 Massachusetts Avenue, where the knife with a four-inch blade was again displayed and the thief demanded, "Give me money; I need it badly." Again in this case, the student had no money, and the thief ran away leaving him unharmed.

The MDC Police had informed the Campus Patrol earlier that evening of a similar robbery which occurred on Memorial Drive and followed the same pattern as the three at MIT.

Later that night a man fitting the description of the thief was spotted by the Campus Patrol in the vicinity of Memorial Drive and

To Meet

A regular meeting of the faculty will be held today (April 19) at 3:15pm in Room 10-250.

Business on the agenda includes a report of the Committee on Nominations; changes in the Rules of the Faculty concerning the office of assistant secretary of the faculty and the Committee on the Libraries; rewording of the Regulations of the Faculty governing the grade of "pass." The Committee on Educational Policy will report on seminar-research proposals and experimental programs. Chancellor Paul E. Gray will remark on the Institute's Affirmative Action Plan and its progress.

Big Balloon

We got a cable from Alice Springs, Australia last week-a sufficiently arousing event in itself-but what it had to say was even more so. "Spectacular launch of largest balloon ever," cabled MIT's expeditionary x-ray astronomer Walter Lewin. "Sensational recovery from desert," he enthused telegraphically. "Feel free to contact Dr. McClintock who will be back at MIT shortly," he concluded.

And so, curiosity aroused to fever pitch and feeling free as anything, we took a minor expedition over to the Center for Space Research to have a chat with Jeff McClintock. He is a young and genial man, whose cheerful face is well tanned from his recent adventures in the southern hemisphere, and whose neat, blond beard gives him a distinctly down-underish air. We settled ourself in a chair and invited him to tell all.

"Alice Springs is really remote," said McClintock by way of introduction. "There's only one paved road out of town. It's called the Stewart Highway, but it's really just a road going north out of town. As you leave town there's a sign that says Tenant's Creek: 330 miles: Darwin: 980 miles. That's all. Of course one of the reasons we chose Alice Springs in the first place is because it's about 1500 miles to the coast, which meant we could get a long float and be reasonably sure of recovering the payload."

Professor Lewin's cable had reported that the payload touched down near Lake Frome in south Australia, and, recalling an earlier flight of his that had by mischance dumped the payload into the Tasman Sea (it had washed ashore in New Zealand a year later posing a perplexing problem for local authorities who thought it might be a bomb), we remarked it was lucky the payload hadn't landed in Lake Frome. "It wouldn't have hurt if it had," McClintock told us. "There's no water in the lake. It's just a salt flat."

Lake Frome is some 700 miles southeast of Alice Springs, McClintock told us, and since the balloon had a 23-hour flight that meant the winds at its float altitude of 150,000 feet were blowing about 30 miles an hour, much less than their normal speed because at this time of the year they are going through the semi-annual change of direction from east to west known as the "turn-around." "Normal wind speed at that altitude," McClintock went on, "is typically 150 miles an hour, which would put you out over the sea in just ten hours of float time. It's important to keep track of the balloon, and we like to try to predict what direction it will take off in so as to plot out the best route for the tracking airplane. For about six days prior to the launch we sent up probes; small balloons tracked by radar, to see which way they went. And they all took off the the northwest as nice as you please. Then the big balloon went southeast. So much for prediction. "Everyting else, though, was perfect. In fact it was that theoretically perfect textbook launch you think you'll never see in real life," McClintock continued with enthusiasm. "It was really incredibly beautiful. April 5th was an airless morning, surface winds at zero knots. We got out there about 2:30a.m. to begin setting up. Toward dawn the balloon began taking on helium from two trucks, one on each side, feeding helium up into the bubble through two polyethylene tubes. The helium looks

like a rushing liquid river running up into the light. In the early morning you get long shadows and the balloon gleams in the sun. It's very beautiful to see and kind of hard to describe.

"When most people think of space research they think of rockets and all the noise associated with them. But this is absolutely silent, except for the rushing of the helium, and then firing the squib that releases the balloon. The trick in a launch is to get the truck carrying the payload directly. under the balloon as it rises so there's no jerk and the payload is slipped gently up into the air. With this launch everything went like clockwork. The balloon began picking up its tail. The payload went up perfectly and the whole thing began going up into the air about a thousand feet a minute-soft and smooth, as graceful as ballet. The balloon expands as it rises and after a few minutes the payload looks like a speck. You can see the balloon for three to four hundred miles, trapping the light. It's pretty grand."

We were impressed. We were also impressed by the size of the balloon, which contains some 20 to 30 acres of polyethylene and reaches a volume of 46 million cubic feet and 500 feet in diameter when fully inflated. Lewin's team also had a smaller balloon along, the inflated volume of which was 36 million cubic feet. "That's not a small balloon by any means," McClintock said. "In any case I regard all these big balloons as experimental because the success rate is only about 50 percent. Still the big balloon was perhaps a bit more experimental than others."

And we were finally impressed that, quite aside from the adventuresome side of ballooning, the expedition had almost certainly recorded previously undetected x-ray sources in space. "We like to be extremely careful about what we say in advance of analysis," McClintock said. 'Walter was in the plane tracking the balloon. I was at the ground station where some of the telemetered data comes in. Blick, blick, and every blick's an x-ray. The field view of the telescope changes with the diurnal rotation of the stars, and there on the ground I could see some of our old friends coming in, and then some new ones. We'll know for certain when we analyze the data, and I guess we'll be publishing in about six months. I wasn't in on the recovery, but I'm told it involved the help of a team of aborigines."

McClintock lent us the front page of the Centralian Advocate, which had reported the launch in glowing terms. "A lot of people came to watch it," he said. "Alice Springs tuns out to be something of a tourist town, although the main tourist attraction--Ayers Rock, a huge monolith in the desert--is about 250 miles away. But then central Australia is in the heart of the aboriginal reservation. Before getting there, as a matter of fact, I'd read that Allen Ginsberg was going to Australia to study aboriginal art. Then one day I was just sitting there in the motel talking to Walter and I said 'Holy Cow, there's Allen Ginsberg.' He was moving in to the next room and he must have heard me because he came in an talked for a while. Walter had never heard of him and he didn't seem to care too much about balloons. He went off the next day to study the aborigines and I didn't see him again. But it was pretty strange to meet Allen Ginsberg in Alice Springs."



Remand after

\$9000 robbery

Committee Seeks

New Library Head



MIT Band To Present Concert

Six ensembles, composed of members of the MIT Concert Band, will present a program of chamber music for wind ensembles on Sunday, April 23 at 3pm in Kresge.

The program will be directed by Felix Viscuglia, the Band's assistant conductor and a member of the Boston Symphony Orchestra. The concert is being sponsored by the MIT music faculty, and is open to the public free of charge.

The premiere of Songs from the Lord of the Rings by Steven Haflich, '72, will be performed. Haflich has taken songs which appear in Tolkien's popular novel Lord of the Rings and has set them to music for six instruments. The songs will be sung by soprano Delores Fox, wife of the band's conductor John Corley. U Thant Talk Changed to May9 The final lecture of the Lecture Series on World Peace, to be presented by U Thant, former Secretary-General of the United Nations, has been postponed to Tuesday, May 9, at 4pm in Kresge. U Thant had been scheduled to speak on Thursday, April 27.

Professor Walter A. Rosenblith, Provost, has announced the formation of an advisory group to aid the administration in selecting a successor to Professor William N. Locke as Director of Libraries. Professor Locke asked to be relieved of the post at the end of the academic year.

Members of the advisory group are:

Dr. Robert A. Alberty, Dean of the School of Science.

Professor Gene M. Brown, professor of biochemistry and executive officer of the Department of Biology.

Professor Robert M. Fano, Ford

significant growth of the libraries and recommended directions for the Libraries during the next decade. The Provost said that the advisory group will help to provide a wide spectrum of opinion in finding the most able person to guide the Libraries.

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TO ADELAIDE

TECH TALK Volume 16, Number 41 April 19, 1972 Editor Joanne Miller Staff Robert M. Byers Peter M. Close Linda Omohundro Ty Rabe **Michael Seif** Peter Spackman Mary Thornton **Business Manager** Paul E. Johnson Tech Talk is published 50 times a year by the Institute Information Services, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge. Mass. 02139, and distributed free to all members of the MIT community. Additional copies are available in the Information Center (Room 7-111) or in the News Office (Room 5-105). Large numbers of additional copies should be requested within two weeks of the issue date Mail subscriptions are \$7.50 per year. Checks should be made payable to Bursar, MIT, and mailed to the Editor, Room 5-111, MIT, Cambridge, Mass. 02139.

Professor of Engineering and associate head of the Department of Electrical Engineering for Computer Science and Engineering.

Professor Eugene Goodheart, professor of literature in the Department of Humanities.

Miss Natalie N. Nicholson, Associate Director of Libraries. Professor Mary C. Potter, associate professor of social psychology and city planning in the Department of Urban Studies and Planning.

Professor Rosenblith, who will chair the advisory group, said that many candidates from both inside the Institute and outside have been suggested for the position. Last fall an Ad Hoc Committee on the Library System reviewed the

Please address all news and comment to the editorial office, Room 5-111, Ext. 3277.

Obituaries Edward Dimond

Edward N, Dimond, Sr., 51, of Everett, manager of the Student Center, died suddenly on April 12.

Mr. Dimond came to the Institute in 1946 and worked as a mechanic in the Department of Mechanical Engineering for several years. In 1965 he was promoted to assistant manager of the Student Center and became manager in 1966.

Physical Plant Personnel Officer Henry J. Leonard commented, "Ed Dimond was a wonderful man. He helped many, many people through the years and everyone who came in contact with him had the highest regard for him."

He leaves his wife, Helen (Catino), and five children, Edward Jr., Kathy Venezia, Steven, Louis and Lawrence, all of Everett. Mr. Dimond is also survived by his mother, Margaret (Coogan) of Everett, and three brothers, George of Somerville, Thomas and John of Everett.

Ethan Murphy

Ethan A. Murphy, 65, of Lincoln, a former technical instructor in the Department of Meteorology, died on April 9.

Mr. Murphy joined the Institute staff in 1928 and retired in 1965.

He is survived by his wife, M. Dorothea (Hunt), and three sons, Allen H. of Boulder, Colorado, Dana W. of Berkeley, California, and Stephen E. of Malibu, California.

lames Darcy

James G. Davey, 71, of Duxbury, a former employee at Lincoln Laboratory, died on April 3.

He joined the Lincoln staff in 1956 as a distributing clerk and retired in 1966.

Mr. Davey leaves his wife Evelyn (Carlberg), and a daughter, Mrs. Evelyn Mann Dey of Duxbury.

Institute Increases Housing And Dining Hall Fees for 1973 fiting individual houses and costs

fees in the Institute Houses for fiscal year 1973 were formally announced to all House residents in an April 7 letter jointly signed by Philip A. Stoddard, vice president for operations, and Dean for Student Affairs J. Daniel Nyhart.

The increases average approximately \$30 per term, but vary significantly among individual houses. Most of the large changes in fees came about as the result of a restructuring of rates designed to reflect more equitably the actual costs within each house.

The announcement followed a three-month study by a rate review group composed of representatives from the Dormitory Council, Ashdown House, housing and dining, Mr. Stoddard's office and the Dean's Office. The group's recommendations were published last month and reported by The Tech.

The rent increases range from a low of \$12 in Baker to a high of \$94 in Burton-Connor. The yearly commons cost will remain at this year's level of \$660 per year.

In addition to the fee increase, several other actions were taken to minimize expenses. The housing and dining offices will continue cost reduction efforts which have realized considerable savings in the past. McCormick Hall's capacity will be increased by 20 residents. Linen will no longer be included in McCormick's rent, but residents will be able to purchase linen service for an additional \$25 per year, the same as in other houses. McCormick's dining hall will be closed.

As in the past, the campus housing staff will alter desk service on an individual basis according to the level of service requested by each house's government. In this way houses may their desk service. Houses can also alter costs by changing the house tax. (This is a resident fee controlled by each house government; the funds are used to support student activities of the house.)

The new pricing structure, to begin next year, will divide housing costs into two separate components--costs directly bene-

conditions, space available per resident and age.

Summary of Housing and Dining Rate Changes for 1972-73+

	1971-72 Rent	Housing	Dining Fee Change	1972-73 Rent	1972-73 Commons	
Ashdown	\$ 583	\$ 79	\$10	\$ 672	\$660	
Baker	684	12		696	630	
Bexley	586	60	and the second sec	646	660	
Burton-Conner	690	69	25	784	660	
East Campus	596	58	10	664	660	
MacGregor	746	42		788	630	
McCormick	740	85	(45)	780	660	
Senior House	576	58	10	644	660	
1) These floures	afte at average	I loude of deals a	and an and an auch	ant to ab an av	if a blause	

 These figures reflect current levels of desk service and are subject to change if a House should choose to alter its desk service 2) These figures do not include House tax, which will be determined by each House in

dividually. 3) The Commons fee shown includes \$40 for IAP.

Brass Rat Time For Class of '74

Brass rats, known more commonly as class rings, for the Class of '74 will go on sale next week in the lobby of Building 10.

Representatives of Dieges and Clust, the company which is making this year's ring, will be available from 9am to 5pm on April 24-26 and on May 3 in Building 10.

deposit at the time of the order.

MIT about November 1, 1972. At that time a representative of Dieges and Clust will come to MIT to correct any fitting problems which may arise.

According to Martin Davidoff, a member of the ring committee, rings which do not fit can be exchanged for up to 45 days after their arrival. Defective rings can be returned at any time. "They're guaranteed for life," he said.

Davidoff also said that according to tradition, MIT is the only school in the country which does not have a stone in its ring, but he did not know how or when the beaver on the ring was chosen as MIT's mascot.

The answer was found in "Tackling Tech," a student publication printed in 1948: "Thirty-odd



attributable to the entire housing

system. Each house will pay its

own direct costs, such as heat,

water, electricity and desk service,

plus a share of the system cost. To

make the charges more equitable,

the fraction of system costs each

house will pay depends on its living

The traditional brass rat.

years ago an alumni committee made a lengthy search to discover an appropriate animal to serve as mascot. They finally came up with a recommendation which seemed like a natural for a group of engineers, the beaver. In its report the committee stated that '...the Beaver not only typifies the MIT man, but his habits are peculiarly our own. Of all the animals of the world, he is noted for his engineering and mechanical skill and habits of industry. His habits are nocturnal. He does his best work in the dark.' Without further ado the beaver was unanimously adopted."

Exam Schedule Available

All students should obtain an examination schedule in the Information Center, Room 7-111. Unlisted examinations or conflicts must be reported to the Schedules Office, Room E19-338, by Friday, April 28.

Dr. R. McFarland To Speak April 25

Dr. Ross A. McFarland, a pioneer investigator of the effects of altitude on airline pilots and passengers, will deliver the 13th annual Lester D. Gardner Lecture on Tuesday, April 25, at 5pm in Room 54-100.

The lecture, entitled "The Development of Pressurized Cabins with Special Reference to Air Crews and Passengers," is sponsored by the Department of Aeronautics and Astronautics. Dr. McFarland is Guggenheim Professor of Aerospace Health and Safety at the Harvard University School of Public Health.

Reported

(Continued from page 1) should not carry large sums of money. "If you are approached by a thief," he cautioned, "do not offer any resistance. Cooperate with him. The only reason we've had no personal injuries yet is because no opposition has been given."

Captain Olivieri has requested that any victim of crime at MIT notify the Campus Patrol immediately. In many cases, he said, a crime is not reported for several hours or even days after it takes place. This makes it almost impossible for the Campus Patrol to apprehend the criminal.

In order to fight the present wave of robberies, the Campus Patrol has completely altered the patrol procedures in an effort to spend more time in the high crime areas at MIT.

In addition, Captain Olivieri is reminding members of the MIT community that the Campus Patrol offers an escort service to anyone present at MIT beyond working hours who would have to walk alone to a parking area or any other remote campus location. The number to call for an escort is Ext. 2997 or 2998.

Kidney Machine Progress Reported

A team of researchers from the Institute and Harvard Medical School last Wednesday reported encouraging progress in the development of a gelatin-like material, called a heparin hydrogel, that could reduce the danger of blood clotting in artificial kidney machines and other medical devices.

The hydrogel, still experimental,

sistency of a gelatin dessert. It is called a hydrogel because it is mostly (86 percent) water. When formed into a membrane, the hydrogel is supported by a fine web of nylon. The material's value lies in its chemical nature, for its constantly moving molecules offer little support to the blood proteins that initiate thrombus formation.

In addition, the natural an-

other types, culminating in a mass that entraps red cells -- a so-called thrombus.

The other starts when microscopic platelets with protein coatings sensitive to foreign surfaces find such a surface and stick to it. The platelets become sticky themselves, thereby attracting more and more platelets in a pile-up known as a platelet, or white, thrombus.





Students must make a \$5.00 Rings are expected to arrive at



President Emeritus Julius A. Stratton poses with a sculpture of his head now on exhibit at the Faculty Club.

An exhibition of sculptures and drawings by Beatrice Paipert are on display at the Faculty Club through the end of this month.

Four familiar MIT faces are included in the exhibit--Dr. Julius A. Stratton, President Emeritus of the Institute; Francis E. Wylie, former director of the News Office (Public Relations); Professor Minor White of architecture; and the late Dr. Norbert Wiener, Institute Professor and Professor of Mathematics who is known as the Father of Cybernetics.

Miss Paipert was a special student in the Department of Architecture in 1951, while attending the Massachusetts College of Art. She painted for several years, but says, "I switched to sculpting because I wanted to learn more about form. And I've never switched back." About 30 of her sculptures are included in the Faculty Club exhibition, together with many small paintings and drawings.

is being developed particularly for use as the membrane in artificial kidney machines under support of the Chronic Uremia-Artificial Kidney Program of the National Institute of Arthritis and Metabolic Diseases.

When used as a membrane, the greatest advantage of the new material is that as blood flows over it the material does not cause the blood to coagulate, or form a thrombus. At the same time, a sheet of the new material allows fluid wastes to pass easily out of the blood while retaining the large protein molecules that must remain in the blood.

The new material, described by Professor Edward W. Merrill of the Department of Chemical Engineering, is about the conticoagulant drug heparin is permanently attached to the material.

Professsor Merrill spoke at the annual meeting of the American Chemical Society in Boston. Coinvestigators are Edwin W. Salzman, Professor of Surgery at Harvard Medical School, and Patrick S.L. Wong and Jeffrey Silliman, both of the Department of Chemical Engineering.

Components in the blood may form two kinds of thrombi. One begins as a clotting factor protein dissolved in blood plasma and becomes activated when it attaches itself to a material it senses as foreign to the body. The activated protein triggers a cascade of biochemical events that activate more and more blood proteins of

Usually, the platelet thrombus is nature's first defense against bleeding by a puncture. The red thrombus is the second and more extensive defense, developing over the site of the white thrombus.

The heparin hydrogels do not trigger off the protein clotting system. Their effect upon platelets, however, is puzzling and is being carefully studied by the Harvard-MIT researchers. So far, they have found that upon first contact of the membrane with the blood, platelets settle on the material as if prepared to attack it by forming a thrombus. The attack never occurs, however, and after a few hours the platelets disperse back into the blood.



Events of Special Interest

Poetry Reading*

Humanities Dept is sponsoring a free poetry reading by Richard Wilbur. Wednesday, April 19, 8pm, Student Center Mezzanine Lounge.

April 19

through

April 28

Israeli Independence Week

Movies, films, photographic exhibit of Jerusalem, slides, party with singer Shuli Natan. For information, tickets and Israeli oranges, visit booth in lobby of Bldg 10. Wednesday-Friday, April 19-21.

Advisory Committee on Shareholder Responsibility** Open meeting. Thursday, April 20, 5pm, Rm 10-300.

Symposium and Panel Discussion on Bangladesh*

Dr. Ronaq Jahan, University of Dacca and Harvard; Dr. John W. Thomas, Planning and Advisory Council, Harvard; Dr. John Rhode, Harvard Medical School and Children's Hospital Medical Center. Sangam and Tagore Society Symposium. Thursday, April 20, 8pm, Rm 26-100.

Seminars and Lectures

Wednesday, April 19

Evaluating the Perceptual Process in Clinical Radiology* Prof. Barry Blesser, electrical engineering; and Dr. David Ozonoff, RLE, CIPG Seminar, 12n-1pm, Rm 20B-224.

Kinetics of Immobilized Enzymes and Their Use in Generation of Transport, Regulation and Signals*

Prof. Eric Selegny, University of Rouen. Chemical Engineering and Nutrition and Food Science Seminar. 2pm, Rm 10-105.

The Lindenwold High Speed Line: Impact Studies of Station Choice and Land Value*

Prof. David Boyce, University of Pennsylvania. Civil Engineering Transportation Division Seminar. 3-4:30pm, Rm 1-146. Followed with refreshments.

Heat Production in the Newborn Mammal

Dr. Peter Hahn, Dept of Obstetrics and Gynaecology, Vancouver General Hospital, University of British Columbia. Oral Science Seminar. 3-5pm, Rm E18-301.

The Wooden Age of American Technology*

Prof. Brooke Hindle, Killian Visiting Professor in Humanities. History of Technology Seminar. 4pm, Rm 14E-304.

The Rheology of A Suspension of Particles Subject to Brownian Rotations*

Dr. E. J. Hinch, University of Cambridge, England. Applied Mathematics Seminar. 4pm, Rm 5-134.

Physics and Medical Instrumentation with Application to Blood Flow Measurement*

Ronald Newbower, PhD, associate in anesthesia, Harvard Medical School and Massachusetts General Hospital. Harvard-MIT Joint Program in Health Sciences and Technology Seminar. 4:30pm, Rm 14E-311. Coffee, 4pm.

Thursday, April 20

Women's Forum

Subcommittee for bi-weekly and administrative staff; discussion of proposals. 12n, Rm 10-105.

Interdepartmental Acoustics Seminar*

Prof. Francis J. Fry, electrical engineering, University of Illinois at Urbana, "Ultrasound in Diagnosis and Surgery;" and Dr. Reginald C. Eggleton, Interscience Research Institute of the Indianapolis Center for Advanced Research, "Ultrasonic Studies of Cardiac Dynamics." 4pm, Rm 5-134. Coffee, 3:30pm.

Women's Forum

Subcommittee for faculty, research staff and others in academic roles. 1pm, Rm 3-310.

Some Problem Areas for Metallurgy and Materials Science: Engineering and Public Affairs

Prof. R. W. Dunlap, co-chairman, Program in Engineering and Public Affairs, Carnegie-Mellon University. Metallurgy and Materials Science Seminar. 2pm, Rm 4-370.

Chemical Engineering Doctoral Seminars*

J. Dearth, "Cyclic Operation of Tray Absorbers," 2pm; A. Jeje, tba, 3pm. Rm 10-105.

Waste Heat Disposal

Prof. Donald R. F. Harleman, civil engineering. Mechanical Engineering Seminar. 3pm, Rm 3-270. Coffee, 4pm, Rm 1-114.

Superconductivity in Less than Three Dimensions*

Prof. Douglas Scalapino, University of California at Santa Barbara. Center for Materials Science and Engineering Colloquium. 4pm, Rm 9-150. Coffee, 3:30pm.

Resistivity, Impurity Diffusion and Pressure-Gradient Driven Current in a Hot Tokamak Plasma

Dr. D. J. Sigmar, Research Laboratory of Electronics. Plasma Dynamics Seminar. 4pm, Rm 26-214.

Monday, April 24

Women's Forum

Dr. Mary Howell, M.D., PhD., chief, Behavior Unit, Children's Service, Massachusetts General Hospital, will discuss family planning. 12n, Rm 10-105.

Economics of Education*

Dr. Alice Rivlin, Brookings Institution, and Prof. Lee Hansen, University of Wisconsin. ERC Colloquium. 12n, Rm 37-252.

Nuclear Engineering Doctoral Seminars*

P. Deaton, "Nuclear Power Management Studies: Results and Conclusions;" J. Kearney, "Nuclear In-Core Simulation and Optimi-zation Model;" C. Forsberg, "A Technical and Cost Study of Uranium Enrichment by Mass Diffusion." 3-5pm, Rm NW12-222.

Thermodyanmics of the Heisenberg Chain*

Prof. B. McCoy, State University of New York at Stony Brook. Applied Mathematics Colloquium. 4pm, Rm 2-390. Tea, 3:30pm, Rm 2-290.

Microbiological Approaches to Water Pollution*

Prof. Ralph Mitchell, Gordon McKay Professor of Engineering and Applied Physics, Harvard. Water Resources and Hydrodynamics Seminar. 4-5pm, Rm 48-316. Coffee, 3:30pm, Rm 48-410.

Megavolt Electrons for Sterilization and Tumor Control* Dr. John Trump, electrical engineering, director of High Voltage Laboratory. Biomaterials Seminar. 4:30pm, Rm 9-150. Coffee, 4:15pm.

The Revolutionary Struggle for Liberation in Angola, Mozambique and Guinea-Bissau*

Rev. Gladstone Mxolisi Ntlabati. Political Science Seminars on "Black African Liberation Movements in Southern Africa." 7pm, Student Center Mezzanine Lounge.

Tuesday, April 25

Information Sources in the Field of Bioengineering* Barker Engineering Library Seminar. 10:15am, Rm 10-550. (Repeated on Thursday, April 27, at 3:15pm.)

Control Theory with Applications to Ship Maneuvering* Prof. R. Timman, Delft University of Technology, the Netherlands. Ocean Engineering Seminar. 4pm, Rm 3-270. Coffee, 3:30pm, Rm 5-314.

What One Biophysicist Does*†

Prof. Walter Gilbert, Dept of Biology, Harvard University. MIT Society of Physics Students informal discussion. 7:30pm, Rm 26-414.

Wednesday, April 26

Optical Guided Waves*

Prof. E. M. Conwell, Abby Rockefeller Mauze Professor in Electrical Engineering. Mauze Lecture. 12n-1pm, Rm 3-133.

Extranalities and Other Market Imperfections in Urban Transportation Systems*

Prof. Jerome Rothenberg, economics. Civil Engineering Transportation Division Seminar. 3-4:30pm, Rm 1-146. Refreshments following.

Ontogenesis of the Endoplasmic Reticulum

Trace Element Data Bearing on the Origin of Salic Rocks from T/D African Rift

Dr. Ian L. Gibson, Bedford College. Earth and Planetary Sciencebdel Colloquium. 4pm, Rm 54-915.

Recent Studies in Vocal-Tract Theory*

Prof. Gunnar Fant, head, Dept of Speech Communication, Institute of Technology, Stockholm. Speech Communic, Seminar. 4pm, Rm 20E-222.

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Receptor*

Dr. Howard Katzen, Merck Institute for Therapeutical Reservating Nutritution and Food Science Seminar. 4:15pm, Rm 54 Every Coffee, 4pm. Followed by sherry hour, Rm 16-322.

Collision Phenomena with Highly Stripped Ions Prof. Hans D. Betz, physics. Physics Colloquium. 4:30pm 26-100. Tea, 4pm.

Friday, April 28

Amazon Workshop*

lee C Augusto L. Dias Carneiro, senior in management science. Discus Augusto L. Dias Carneiro, senior in management science. Discuervery of progress of a systems analysis approach to the creation of unemb centers in the Amazon. 1-3pm, Rm E52-461.

Chemical Engineering Graduate Seminars*

lassi T. Burke, "An Improved Polyvinyl Alcohol for Biomaterials," ; G. Wildman, "Carbon Gasification," 3pm. Rm 10-275.

The Misbehavior of Electrons in Ferromagnetic Metals* Prof. Brian Schwartz, physics. Center for Materials Science racti Engineering Colloquium. 4pm, Rm 9-150. Coffee, 3:30pm.

Student Meetings

IFC Rush Committee**

Meeting of all fraternity rush chairmen. Wednesday, April 19, racti Student Center Rm 473. uPot

Premedical Students

Dr. John L. Caughey, Jr. associate dean, Case Western Re Every School of Medicine, will meet with all premedical stud Thursday, April 20, 5pm, Rm 4-145. tude

Premedical Students

Dr. Timothy Canty, University of California, Los Angeles, Scholsude Medicine, will speak with all premedical students, Thursday, CBI 20, 8pm, Student Center Mezzanine Lounge.

ridg Students for McGovern* eml Canvassing in Cambridge, Saturday and Sunday, April 22-23, meet at Goodale 103, East Campus. hese

Premedical Students*

Former MIT students who are now attending medical schools speak with the Premedical Society. Monday, April 24, 8pm, Stu So Center Rm 407.

Students for McGovern*

ocie Meeting to discuss election day activities. Monday, April nfor 7:30pm, Student Center Rm 451. -5p

Student Information Processing Board Meeting Every Monday, 7:30pm, Rm 39-200.

Thursday Staff Meeting** Every Thursday, 8pm, 2nd floor, Walker.

Technique Staff Meeting Every Saturday, 11am, Student Center Rm 457.

ERGO Staff Meeting Every Sunday, 6pm, Student Center Rm 443.

MIT Club Notes

Ecology Action** Frid Election meeting. Wednesday, April 19, 5:15pm, Student C Musi Rm 002. eat

Alpha Phi Omega**

Scuba Club

Radio Society**

Tiddlywinks Association*

Student Center Rm 407.

White Water Club**

Meeting. Wednesday, April 19, 7:30pm, Student Center Rm 407

Pool session. Wednesday, April 19, 8pm, Alumni Pool.

Meeting. Thursday, April 20, 8pm, Student Center Rm 491.

Boston Invitational Tournament. Saturday, April 22, 9am Hun

Airport Planning-A Dark Future?*

H. Theodore Graves, architect and manager of long-range facility planning, American Airlines. Aero and Astro Flight Transportation Seminar. 4pm, Rm 35-225. Coffee, 3:30pm, Rm 33-412.

Building Models for Decision-Makers-An Application to Family Planning

Prof. Glen Urban, Sloan School of Management. Operations Research Center Seminar. 4pm, Rm 24-307.

Energy, Economy, Environment and MIT Modeling Studies* Prof. David C. White, electrical engineering. Thermodynamics Seminar. 4pm, Rm 3-343.

A Nuclear Physicist's View of Neutron Star Matter Prof. John Negele, physics. Physics Colloquium. 4:30pm, Rm 26-100. Tea, 4pm, Rm 26-110.

Friday, April 21

Fysics in the Phinger Tips: A Reintegration of Mathematics, Physics and Intelligence*

Prof. Seymour A. Papert, mathematics, co-director of Artificial Intelligence Lab. ERC Colloquium. 12n, Rm 10-105.

Dr. Philip Siekevitz, Rockefeller University. Oral Science Seminar. 3-5pm, Rm E18-301.

Environmental Radiation and Impact on Nuclear Program*

Ragnwald Muller, consultant, Technologic Hazards, General Electric Company. Nuclear Engineering Seminar. 3:30pm, Rm NW12-222. Coffee, 3pm.

The Convection Due To A Moving Periodic Heat Source: A Model for Venus's 4-Day Atmospheric Circulation*

Dr. E. J. Hinch, University of Cambridge, England. Applied Mathematics Seminar. 4pm, Rm 5-134.

System Identification: Applications to Electric Power Systems* Prof. F. C. Schweppe, electrical engineering. Decision and Control Sciences Group Seminar. 4pm, Rm 37-212.

Prehnite-Pumpellyite Metamorphic Rocks, Northern Appalachians Dr. E-An Zen, US Geological Survey. Earth and Planetary Sciences Colloquium. 4pm, Rm 54-100.

Thursday, April 27

Information Sources in the Field of Bioengineering* Barker Engineering Library Seminar. 3:15pm, Rm 10-550. Scuba Club*

Election meeting. Wednesday, April 26, 8pm, Rm 20E-017.

Pool session. Tuesday, April 25, 8-10pm, Alumni Pool.

Nautical Association**

1972 season sailing memberships now available in E19-215, stud \$6, faculty and staff, \$15. For information, call Ext. 4884. 81/2 Hur

Classical Guitar Society**

Concert guitarist Hugh Geoghegan is available for private ins The tions for intermediate and advanced students. Call Vo Ta Hur 661-0297.

Baker House SPAZ Jogging Club** Daily, 10:45pm, Baker 2nd Floor West.

Unicycle Club*

Every Sunday, 3pm, in front of Student Center. Beginners welco cen Call Andy Rubel, X3161. The

Hobby Shop**

Open weekdays, 10am-4:30pm, duPont Gym basement. 12: students, \$6/term or \$10/year; community, \$15/year. Call X4

Tiddlywinks Association*

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

T/DL Duplicate Bridge Club**

very Sunday, 2:30pm, Walker Blue Rm. Every Tuesday, 6pm, obdell.

aring Association**

rst and third Mondays every month. 7:30pm, Student Center Rm

do Club**

Erery Monday, Wednesday, Friday, 5pm; every Saturday, 1pm. In depont Gym Exercise Rm. Beginners welcome.

54 Duting Club* 54 Every Monday, Thursday, 5pm, Student Center Rm 473.

autical Association**

sic Sailing Shore School, repeated every Monday and Thursday roughout the spring, 5:15pm, Sailing Pavilion, non-members elcome.

encing Club** very Tuesday, 6-9pm, duPont Fencing Rm.

Glee Club**

9

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

lassical Guitar Society**

lassical guitar classes, group or private. Every Tuesday and hursday, 5-8pm, Rms 1-132, 1-134, 1-136. Anyone interested in ssons, call Vo Ta Han, 661-0297.

ugby Club ractice. Every Tuesday and Thursday, 5pm, Briggs Field.

rban Vehicle Design Competition olunteer meetings. Every Wednesday, 3pm, Rm E40-250.

able Tennis Club***

Practice session, every Wednesday, 7:30-10:30pm, T-Club Lounge, duPont.

Science Fiction Society* Re Every Friday, 5pm, Rm 1-236.

tudent Homophile League³

leeting and mixer meets Fridays, 7:30pm, Mission Church, 33 owdoin St, Boston. For gay help (anonymous) at MIT, call the udent gay tutor, 492-7871 anytime.

CBL Duplicate Bridge*†

ridge Club. Every Saturday, 1:30pm, Student Center Rm 473. Iembers, free; non-members, 75 cents.

thess Club**

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

Social Events

ociety of Sigma Xi**

nformal coffee hour. Thursday, April 20, with **Prof. J. Dugundji.** -5pm, Student Center Rm 407.

ot Luck Coffeehouse**

riday, April 21: poetry reading with Lee Rudolph, George Greig nd Marni Elci, featuring the Ghoul and his Idiot Savant playing an ccordian. Saturday, April 22: Matrix. 8-12pm, Student Center lezzanine Lounge.

Casino Night**

ponsored by Non-Resident Students Association. Saturday, April 2, 7pm, NRSA, 311 Memorial Drive. Admission of \$1 covers chips.

luddy Charles Pub**

oin your friends at the Muddy Charles Pub, 110 Walker, daily 1:30am-7:30pm. Call X2158.

riday Afternoon Club**

Iusic, conversation and all the cold draft Budweiser you can drink. Featuring folk singer Rich Holloway. Every Friday, 5:30pm, shdown basement Games Rm. Admission: men \$1, women 50 ents. Must be over 21.

Movies

sraeli Short Films*

sraeli Club. Wednesday-Friday, April 19-21, 12n-2pm, Student enter West Lounge. Free.

e Bourgeois Gentilhomme

lumanities Film Series. Wednesday, April 19, 8pm, Rm 26-100. Free.

hree Days and a Child*

sraeli Club. Wednesday, April 19, 9pm, Rm 10-250. Tickets 75

Asli Naqli and Tere Ghar Ke Samne* Sangam. Sunday, April 23, 3:30pm, Rm 26-100. Admission \$1.50.

Night of the Living Dead*

LSC. Sunday, April 23, 7pm and 9:30pm, Rm 10-250. Tickets 50 cents.

The Mouse That Roared Humanities Film Series. Monday, April 24, 7pm, Rm 26-100.

The Cabinet of Dr. Caligari Humanities Film Series. Wednesday, April 26, 6pm, Rm 10-250.

Spanish Earth

Humanities Film Series. Friday, April 28, 10am, Rm 14N-0615.

Klute**

LSC. Friday, April 28, 7pm and 9:30pm, Rm 26-100. Tickets 50 cents. Must show ID.

The Raven**

Student Center Committee. Friday (Saturday morning), April 28, 12:30am, Sala de Puerto Rico. Free.

Music

Noonhour Concert*

A program of Italian cantatas with soprano Leslie Holmes and John Cook on harpischord. Thursday, April 20, 12n, Chapel. Free.

Concert Band Spring Concert*

Program of chamber music by ensembles of members of the Concert Band. Sunday, April 23, 3pm, Kresge. Free.

Loew Arts Program of the MIT Hillel Society*

Recital of operatic, Latin, American, Israeli, Yiddish and cantorial works with Manuel Zymelman, tenor, and Leonid Milius, piano. Sunday, April 23, 8pm, Kresge. Free.

Flute Recital*

April Showers. Sponsored by Music Section of Humanities. Monday, April 24, 5pm, Music Library (14E-109).

Theater and Shows

Company

Musical comedy performed by Musical Theatre Guild. April 21, 22, 26, 28 and 29, 8:30pm, Kresge. Tickets \$3 and \$3.50, available at X6294 or in Bldg 10 lobby.

Dance

Folk Dance Club*

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

Modern Dance Technique Class**

Elementary/Intermediate. Every Monday, Wednesday, Friday, 5:15pm. Every Sunday, 1pm. McCormick Gym.

Folk Dance Club*

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

Tech Squares*

Every Tuesday, 8-11pm, Rm 10-105. Call dorm X0888 or 492-5453.

Folk Dance Club*

Israeli folk dancing. Every Thursday, 7:30-10pm, duPont Gym T-Club Lounge.

Exhibitions

Klaus Liepmann Retrospective*

Exhibition of posters and programs illustrating the history of music at MIT, honoring Klaus Liepmann, director of music. Hayden Corridor Gallery, April 28 through May 22.

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.

Graduate Show*

Photographs taken by students enrolled in Minor White's photography course. Creative Photography Gallery through May. Open daily 12n-7pm.

To Look on Nature*

Exhibition of 19th Century landscape painting of France, England, America, Germany, Holland, Italy and Spain. Hayden Gallery, April 7 through May 8.

Photography Exhibit*

Photographs by MIT students Peter Sramek and Baldwin Lee.

Frosh Tennis*

Varsity Baseball*

JV/F Baseball*

Roman Catholic Mass*

Christian Worship Service*

Every Sunday, 11am, Chapel.

Christian Discussion Group*

Hillel Religious Services*

information, call X3664.

Saturdays, 9:30am, Chapel.

Ananda Marga Yoga Society*

Christian Science Organization*

Latter Day Saints Student Association**

Christian Bible Discussion Groups*

day.

547-4279.

Rm 8-314.

X2415.

Lounge

Christians for Dinner*

Hall (under sign of the fish).

Islamic Society Prayers*

Vedanta Services*

Dining Hall.

Praying, Singing, Sharing Meeting*

Every Friday, 1pm, Kresge Rehearsal Rm B.

College Life Campus Crusade for Christ*

Open Book. Every Friday, 7-9pm, Rm 1-132.

Freshman and Varsity Tennis*

Belmont High School. Friday, April 21, 3pm, duPont Tennis Courts.

Women's Sailing* Novice Regatta. Saturday, April 22, 9:30am, Sailing Pavilion.

Heavyweight Crew* Northeastern, Boston University. Saturday, April 22, 10am, Charles River Basin.

Lightweight Crew* Biglin Cup with Dartmouth, Harvard, Coast Guard. Saturday, April 22, 10:15am, Charles River Basin.

Rugby* Harvard Business School. Saturday, April 22, 1:30pm, Briggs Field.

JV/F Baseball* Browne and Nichols. Saturday, April 22, 2pm, Briggs Field.

Varsity Baseball* Fordham. Saturday, April 22, 2pm, Briggs Field.

JV/F Tennis* Tufts. Saturday, April 22, 2pm, duPont Tennis Courts.

Brandeis. Wednesday, April 26, 3pm, Briggs Field.

Women's Sailing* CCT Invitational. Sunday, April 23, 9:30am, Sailing Pavilion.

JV/F Baseball* New Preparatory School. Tuesday, April 25, 3pm, Briggs Field.

Dartmouth. Wednesday, April 26, 3pm, duPont Tennis Courts.

Religious Services and Activities

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

Bible study and discussion of Christianity today. Every Sunday,

9:30-11am, McCormick Seminar Rm A. Call Ron Gamble, X6712 or

Monday-Friday, 8am, Rm 7-102; Fridays, 7:30pm, Chapel;

Group meditations. Every Tuesday, 5pm, Rm 14E-303. For

Meeting includes testimony of healings. Every Tuesday, 7:15pm,

Religious seminars. Every Tuesday, 8am, Student Center Rm 473.

Every Wednesday, 12:30pm, Rm 4-343; every Thursday, 12:30pm,

Rm 20B-222. Call Prof. Schimmel, X6739, or Ralph Burgess,

United Christian Fellowship. Every Thursday, 6-7pm, Walker Dining

United Christian Fellowship. Every Thursday, 7-8pm, East Campus

Every Friday, 5:15pm, Chapel; discussion hour, 6pm, Ashdown

Brothers and sisters for fellowship and a time of teaching from the

Bryant and Stratton. Friday, April 28, 3pm, Briggs Field.

Every Sunday, 9:15am, 12:15pm, 5:15pm, Chapel.

cents.

Rheological Behavior of Fluids and Cavitation

Fluid Mechanics Films. Thursday, April 20, and Monday, April 24, 4-5pm, Rm 3-270.

81/2

Humanities Film Series. Thursday, April 20, 6pm, Rm 10-250. Free.

ins The Forbidden Planet

Ta Humanities Film Series. Thursday, April 20, 6pm, Rm 4-370. Free.

Belle de Jour

Humanities Film Series. Friday, April 21, 2pm, Rm 14N-0615. Free.

Willard**

LSC. Friday, April 21, 7pm and 9:30pm, Rm 26-100. Tickets: 50 cents. Must show ID.

The Great Race**

Student Center Committee. Friday (Saturday morning), April 21, 12:30am, Sala de Puerto Rico. Free.

New Leaf**

LSC. Saturday, April 22, 7pm and 9:30pm, Rm 26-100. Tickets 50 cents. Must show ID.

Hayden Corridor Gallery through April.

Jerusalem of Gold*

Photographic exhibit by Israeli artist **Yossef Ben-Purat**. Wednesday, April 19 through April 28, 10am-3pm, Student Center "Center Lounge."

Hart Nautical Museum*

Exhibits include "Naval Undersea Research and Development Center," "The Art of Rigging," and "French Undersea Research" (through April). Bldg 5, first floor.

Main Corridor Exhibitions*

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

Athletics

Varsity Golf*

Babson, Boston University, Maine. Thursday, April 20, 12:30pm, Crystal Springs Country Club, Haverhill.

Varsity Baseball*

Harvard. Thursday, April 20, 3pm, Briggs Field.

Varsity Tennis*

Massachusetts. Thursday, April 20, 3pm, duPont Tennis Courts.

Isha prayers followed by discussion of various aspects of the Islamic way of life. Every Friday, 7:30pm, Student Center Rm 473. Coffee and doughnuts served.

Free Draft Counselling*

Islamic Society Discussion*

Hillel, 312 Memorial Drive, X2982. Call or visit 10am-5pm.

Announcements

Numbers

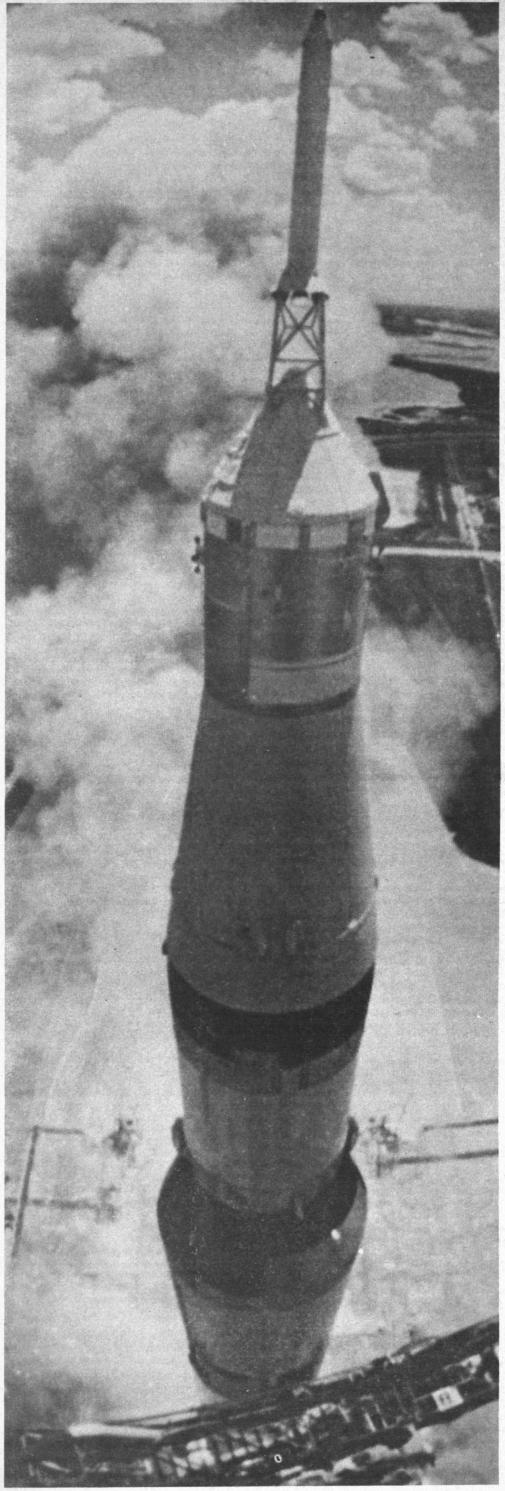
18.051 Professor Rota's long-awaited booklet of alphabetical number tables is now available for 50 cents at the Tech Coop book dept and sporadically in the lobby of Bldg 10.

1974 Class Rings

Rings will be on sale Monday through Wednesday, April 24-26, in the Lobby of Bldg 10 from 9am to 5pm.

*Open to the Public **Open to the MIT Community Only ***Open to Members Only †Freshmen encouraged to attend

Send notices for April 26 through May 5 to the Calendar Editor, Room 5-111, Ext. 3279, by noon Friday, April 21.



In Support of Apollo 16



APPOLLO 16 SUPPORT--John P. Higgins of Beverly (left) and Stephen R. Femino of Wakefield, both of the Draper Lab, were among the Draper Lab engineers assigned to Cape Kennedy, to support Apollo 16 launch to the moon.

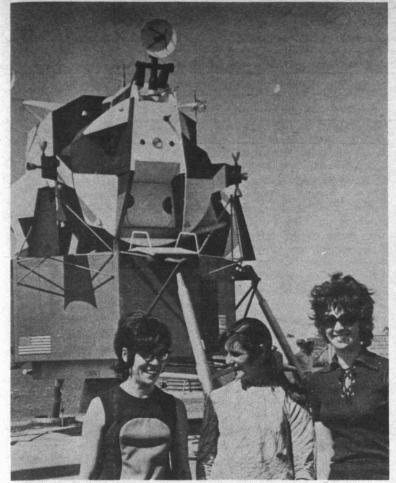


APOLLO 16 READY-George L. Silver (left), David G. Brown of Cambridge and Richard A. Sheridan of Belmont (right), all of MIT Draper Lab, pause in ACE centrol room at Manned Spacecraft Operations Building, during pre-launch preparations for Apollo 16 mission to the moon. Silver, formerly of Needham, heads Draper office at Houston, Tex. Brown and Sheridan work in Cambridge.



Photo courtesy of the Associated Press.

HELLO, APPOLLO--Russell A. Larson of Boxford, engineer and computer specialist at the Draper Laboratory, monitors guidance system console in ACE control room at Kennedy Space Center, preparatory to the launch of Apollo 16, while another Draper Lab engineer, Robert L. Lones of North Reading, pauses momentarily in background.



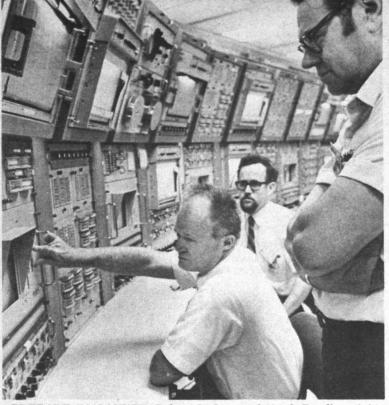
WIVES, TOO--Several engineers from the Draper Lab assigned to support Apollo 16 at Kennedy Space Center, took their wives along to watch the launch to the moon. Shown touring the NASA museum are (left to right) Donna Higgins of Beverly, wife of engineer John P. Higgins; Alice Brown of Cambridge, whose husband is David G. Brown; and Paula Femino of Wakefield, wife of Stephen R. Femino. In the background is a lunar module mock-up.





Jayne Partridge.

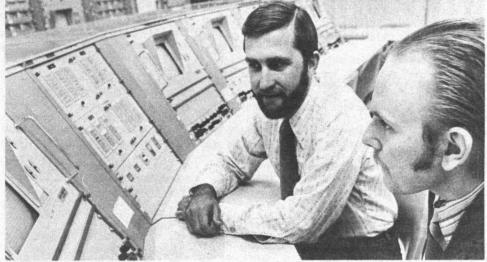
Daniel F. Dolan.



PREPARE TO LAUNCH--Robert L. Lones of North Reading (left), Richard A. Sheridan of Belmont and William Saltzberg of Waltham (standing right) are shown at consoles in ACE control room at Cape Kennedy preparing for launch of Apollo 16 to the moon.



OLD NAME--Hard hats used by Draper Lab engineers at Cape Kennedy still bear the former name, Instrumentation Laboratory. The lab was renamed two years ago for its founder and president, Dr. C. Stark Draper, but hard hat decals in Florida haven't caught up.



CONSOLES ON GUARD--Robert N. O'Donnell, head of MIT Draper Lab field office at Cape Kennedy (left), and Cecil C. Ogren of Melrose, a staff engineer with the Lab in Cambridge, watch status reports on Apollo guidance systems at a console station in ACE control room at Kennedy.



...MIT SOUTH--Judy Stevenson, secretary, is shown with the sign that proclaims the office in KSC's Manned Spacecraft Operations Building to be MIT's

Florida branch office.



CLASSIFIED

Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and 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. 3270 or mailed to Room 5-105. The deadline is noon Friday.

For Sale, Etc.

Underwd port typwr, \$20. Luraschi, X5069.

Schwinn man's 10-spd bike, \$60; woman's 3-spd Raleigh, \$35. Ronald, X2053.

Dynamic VR-70 skis, 1 wk old, w/ Nevada toe, Rotamat heel, were \$225, now \$125. Pres Ford, X3782.

Fires: 5.60x15 mtd on VW wh; 6.70x15 mtd on Rambler wh; 6.50x13 unmtd, best offers; bird cage. Frank, X6814.

Convert baby carr, \$25; old TV, gd for pts only, free. Martinez, X7472.

Childworld crib, reas. Ann, X3601.

Yr old waterbed w/3-mo old custom frame, king, htd, incl cinderblocks for base, \$150. Brian, X5358.

Paramount bowling balls, candle & duckpin, engrav done, gd prices. X7522.

Dbl bed, exc cond, \$35. Leo, X6022.

Waterbed, 4'x7', UL-htr, thermostat, hardwd frame, raising platform, top qual, \$100 or best. Lenny, X7930.

Hoover Porta-washer, nrly new, \$125. X4061.

SCM Portawriter elec typwr w/batt pack, clean, seldom used, nds some work, \$40. Brooke, X5642.

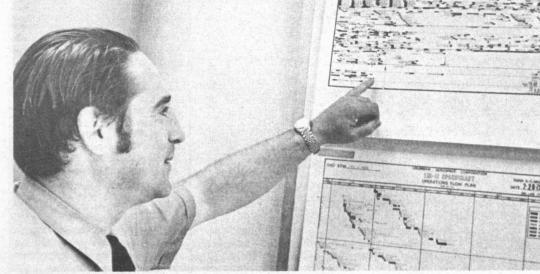
Vindale deluxe mobil home w/20' expando LR, 2 BR, w-w carpet, dish & disp, ptly furn, lg porch, 2-car drive-way, nr Hudson, NH, 35-40 min drive to Linc. X7409 Linc.

Hamilton Beach chrome mixer w/ timer, nearly new, \$35. Doris Adams, X7155 Linc.

Artley flute w/case & cover, gd for student, asking \$40. Dan, Dorm

Hi-perf parts for MGB: hi-comp pistons, con rods, lightened flywheel, all balanced, will haggle or trade. Bill Lee, X4048 days, X3785 nights.

Troy-bilt roto tiller. Henry Stommel or Dennis Moore, X7828.



TIME TO GO--Philip G. Felleman of Sudbury, a leading engineer at the Draper Lab in Cambridge assigned to Kennedy Space Center, to help launch

Apollo 16 to the moon, checks over a time sequence chart for the mission at the Manned Spacecraft **Operations Building.**



Romilly Gilbert, of the Kennedy Space Center.

Kitz 6' wooden skis and sz 8 Korflach boots, both for \$40, free boot rack. Mary, X6487.

Architecture books and periodicals inc big Bauhaus book to sell separately or as whole. Tony, X4418.

Man's bicycle, Raleigh Sport, 3-spd, \$35. Don, X5869 Linc.

Upr piano, gd practice instrument. Barry Sharpless, X1848.

King size bedspread bought in Greece, black w/geometric design, revers, \$20. X3668.

Two boys spyder bikes, 10 mo, exc cond, chrome fenders, 20", \$25, 24", \$30. X7785 Linc.

MIT Orchid and Tropical Plant Club wl sell orchids from member collections. Dorm X8206 after 7pm.

Conn alto saxophone, v gd cond, \$100 Vehicles or best offer. X4771.

Elec dryer, v gd cond, \$50; woman's Columbia 5-spd bicycle, \$50. Ethel Vokey, X358 Linc.

Heath AR15 recvr, \$275, Sony TC352D tape deck, \$140, Sony TC366 tape deck, new \$180. Bob, Dorm X8421.

Two 14" rims for '68 Chevy, \$6 for pair. Joe, X6145.

RCA-RZF-399-T home intercom w/ addl 3-story wiring, cost \$37.50, used 1 week, now \$30. Agnes Zakszewska, X5697.

Crosby Corinthian forward seat saddle, 17" seat, with fittings. Barbara, X6233.

Kawai console piano, 3 yrs old, walnut fin, exc cond, \$500. George Rathjens, X7282.

Evening Dress, fl length, belted, 10, linen w/contemp floral print, nvr worn. Greg, X5005.

Two white wash basins w/faucets, fair cond, \$5 each; white double sink on stand w/faucets, fair cond, \$20; GE 40" elec stove, works but sold as is, \$20. Corry, X5780.

Two 14" Chevy rims, \$10 for pair. Oliver Sweeny, X397 Linc.

Westhse bacon grill, nvr used, \$10. Walter, X3105.

Stereo tuner w/AM-FM R, AFC, 2 spkrs, phono jacks, sep vol controls, wal cab, \$33. Carol, 235-3295, lv msg.

D'ette set, lam fruitwd look, 4 sturdy chrs, 36" dia w/2 leaves, like new; Hart prof metal skis, 180cm, w/bndgs & poles; woman's Kastinger ski boots, 7 extra narrow. Ann, X2168.

Photo printing paper, Agfa No. 2, 3, 4, \$3; lamp, \$5; black chest of drawers, gd cond, \$10; Microscope Mono Lux, 1200 mag, 4 lenses, \$15. Malcolm, X4301.

Swim pool, 18' dia, 4' deep, all acces incl, \$350. Larry, X6186.

GE steam iron. Mike, X5567.

Parkway 3 pc wet suit, 3/16" neoprene w/bonded nylon lining, med/med, outgrown by owner, \$15. Henry Brainerd, X2467.

Box-type car top carrier, wooden playpen. Cal, X7235.

Miranda F SLR 35mm camera w/50mm f/1.9 lens, Sekonic auto leader 111 exposure meter, all exc cond, \$110. Mary, X3648.

Wards Signature 6 spd white blender, exc cond, needs blade adjustment, \$10. Rob, X302 Draper 7.

Sgl bed, \$20; sofa bed, \$50. Sally, X7769.

Impressive empire mahog couch. Regina, X5700 Linc.

Roberts 720A tape rcdr/deck. Chris, X5550.

Man's 26" 3-spd Chiorda bicycle, new 10/71, w/baskets, \$55 or best. Dave,

323-8472 evgs.

Barcolounger, green naugahyde; gold uphol platform rocker, fair cond; marble top cof tbl w/sew mach treadle base. X3823, lv msg.

'62 Linc Continental, classic car, all pwr & elec options, maroon, showrm cond, asking \$1000. Marjorie, X7182 Linc.

'62 Chevy Bel Air wgn, 3-spd, 6 cyl, one owner, \$250. Tom, X3784.

'63 VW, AM/FM, 2 new tires, reblt eng, nds work. Wanda, X7078.

'63 Chevy II station wgn, gd cond, new tires, 2 extra wheels, \$120. Donald Wiggin, X7328 Linc.

'63 VW sunrf, 74K, eng exc, 2K since valve job, paint poor, Dunlop studded . Housing snows, \$350. Michael, Dorm X0434 or 0436.

'63 Porsche classic super 90, new cond, epoxy undercoat, eng exc, stored all winter, \$2300 or best, X189 Draper 7.

'64 Chevy van w/camper int, exc in & out. Bob, X2534.

'65 Ford 2-dr hrdtp, gd eng, fair body, \$200 or best. X4791.

'66 Cadillac DeVille convert, 47K, air cond, AM-FM stereo, pwr seats & windows, exc cond, \$1095. Frank, X5716 Linc.

'66 Dodge Dart, gd cond, 56K, must sell, leaving soon, \$500 or best offer. Tim or Marshall, 876-2098.

'66 Dodge Coronet 440, 4 dr sedan, exc cond, auto, pwr str, R & H, orig 53K, \$795. X7492.

'66 VW rebuilt eng, sunrf, new batt, trans, rec tuneup, R, must sell immed. X5171.

'67 Sunbeam Alpine convert, exc cond, new clutch & brakes, X7142.

'67 Firebird 400, 400 cu in, 360 hp, 4-spd, 4:11 rear end, hijackers, wide ovals, hood mtd tach, wh w/bl vinyl top, runs well, \$1000. Maureen, X3801.

'67 Dodge van, gd shape, best offer. Margaret, X7254.

'68 Opel, beige, std, snows, 25K, new clutch, brakes, muffler, gd cond, \$850 or best. Linda, X3277.

'68 Mercury Montego, V8, p st & br, lt blue, 2 snows used 1 season, 60K, exc cond, \$1000 or best. Lee, X6037.

'68 VW bug, snows, 55K, gd cond, asking \$800. Bob, X1538.

'69 Mustang convert, V8, auto, R, pwr st, gd cond, new roof, \$1350 or best. Bill, X5719 Linc.

'69 Buick Skylark, exc cond, warranty still gd, low mil, \$1800. Susan, X3231.

'69 Impala 4-dr, p st & br, ac, 7 new mtd tires incl 2 snows, new br shoes, exc cond, \$1900 or best. X2103.

'69 Ford Galaxy 500, fac ac, auto, p str, rear spkrs, defrost, other extras, \$1300. Mark Haber, X2879.

'70 Opel GT, red w/blk interior, 1.9 liter, 7 radials, exc cond, 23.8K, \$2075. Mrs. Geltman, X4239.

'70 Mustang Mach 1, 351 4-bbl, auto, p st & disc br, R, 27K, green, \$1999. X3373.

'71 Bridgestone 350, perf cond, 3.3K, serious inquiries only, \$495 firm, David Weber, X465 Linc.

Goldfish sailboat, fiberglass, 13'8", alum mast & boom, br new Lady Bea trlr, \$350. Peter, X5203.

Duxbury Duck racing sloop, 18', 6'4" beam, fiberglass over wden hull & centerboard. Lou Hirshberg, X5551 Linc.

Incomplete dune buggy, green flake fiberglass body, shortened chassis w/trans, air shocks, wiring, gas tank, '66 eng w/Isky cam & lift kit, new bearings, etc, \$750. X653 Linc.

Allston 1 BR apt, sublet, inc porch, cheap in return for feeding cat & watering plants, X1973.

Allston, 2 BR mod apt, ac, ww carpet, off st pkg, 2 blocks from T, avail 6/1 for sum lease or perm, \$250/month. Call 254-6286.

Allston, mod apt, 2 BR, htd, air cond, pkg, laundry room, \$250/mo. Cheryl, X6575

Back Bay, Marl St, sunny furn studio w/frpl, avail 5/1, \$110/mo. Kaaren, X6708.

Back Bay, lg studio apt, sublet, 5/1, Hemenway St, \$125 inc heat. Bob, X4160.

Bos, studio apt nr Pub Gardens, frpl, w-w carpet, \$140/month, inc util. Pauline Dow, X6240.

Bos, Chas St, 2 BR apt, furn sublet w/opt. Call 723-6946 evgs.

Belmont, furn 3 rms, \$150 inc util, near trans, avail immed, women only. Tom Dryer, X4791.

Brk apt off Comm Ave, 1 BR, K, B, \$145/month inc util. Neil, X5460.

Camb sublet w/opt, N of Harv Sq, 1 BR, \$168/mo; wl sell GE port TV, \$35. Marilyn, X5831.

Camb, nr Central Sq, 20 min walk to MIT, 1 BR apt, mod K & B, LR, pkg, sublet 6/1, option, \$180/month. Deborah Scogin, X1786.

Camb, Harv St nr Cent Sq, 1/2 of 2 BR, 2 B, in new apt, priv B & entrance, air cond, avail 5/1-8/31 or 6/1-8/31, \$150. Marjorie, X1826.

Camb, Porter Sq, 4 BR, LR, K, unfurn, sublet 6/1 w/opt, \$250/mo htd. Steve, X7546.

Camb'port, furn 1 BR apt, lg K, \$185/mo inc util. Pat, X5392 or Mark, X1978.

Camb, lg 5 BR house for rent to faculty, furn, 7/3-8/28, \$450/month. Mrs. Sebol, X2101.

Camb, 1 BR apt w/basement, furn, nr Cent Sq, avail 6/1. Bill Porteous, X4560.

Camb, Cent Sq summer sublet, 2 BR, air cond, dish wash, furn, \$265/month. Dan, X7787.

Camb, sum sublet, 6/1, lg 1 BR in 3 BR apt, nr Mem Dr, well-furn, 10 min walk to MIT, \$87/mo, incl priv pking. Ray, X2268.

Northgate, 2 BR furn apt, mod, skylight, 5th fl w/elev, 12 min walk to MIT & Harv, sublet for sum or part, \$150/mo + elec. Shirley, X7236.

Som, mod 1 BR apt, sublet w/opt. Margaret Shea, X4669 or X4956.

Som, nr Porter Sq, Northgate, mod, 2 BR, L, K, AC, ww carpet, pkg, secure bldg, good view, \$250, sublet, 6/1 w/opt. Craig, 776-6347.

Som, Inman Sq, 2 BR, mod, apt, ac, dish & disp. Jim Hunt, X3109.

Andover, split level on acre+, LR, DR, eat in K w/fl appl, 3 BR, 1 B, 2 lavs, laundry, lg panel fam rm, sep den, 2 car gar, mid \$40s. Bob, X7245.

Linc, 4 BR, hse, lg yard, summer sublet, avail 6/14-9/6, \$350. Tong, X1986.

Lynnfield, furn 3 BR hse, LR, DR, K, study, wash & dry, dish, lg yd, nr sch, shop, avail July for 18 mos, \$375/mo. Jay Galbraith, X6675.

Newton Ctr, lg 5 BR furn hse, avail 7/1/72-9/1/73, and 4 BR ski chalet, Rumney, N.H. (Ski 93), w/exc view and swim, avail 9/15/72. X7759.

Waltham, nr Bel, fl frun 4 BR hse, LR, DR, 11/2 B, 1/3 acre, avail '72-'73 acad yr. X2994.

Winch, old col, comp remod in & out, w-w carpet, 3 BR, LR, DR, B, eat in K, rec rm, lg gar, \$35,900. Paul, X6770.

Harvard, lakeside cottage, 2 BR, LR, K, avail 6/18-9/4, \$600. Write Bx 210, Radcliffe Inst, Camb, 02138.

Lakeside house on Canadian-Vt border. 3-5 BR, spring skiing (nr Jay Peak) or summer, boat incl. Denny, X5606.

Lake Winnepesaukee chalet, priv pool, beach, sports, sauna, \$125-\$155/wk. Call X6415.

Moose Pond, Denmark Me, 3 BR chalet w/loft, seas, mo, wkly rental. X3468.

Summer rental, Green River, Vt, secluded home, swimming, nr Marlboro music. Michael Baram, X7146.

Animals

Dachshund puppies, 3, standard smooth, nd perm homes, \$15. Engel, X6433.

Frisky kittens, 6 wks old, 2 tiger, 2 black, 2 bl & wh, 1 clown, basic alley breed. Kathy, X7160.

Adorable puppies to gd home, 6 wks, weaned, sgl litter, asst medium sized, hunter-type ancestors. Ralph, X2415.

Free, loving, beautiful kittens, 5 wks old. Tessman, X2917.

CFA reg Siamese kittens, champ bloodlines. X3380.

Lost and Found

Found: raincoat left in 37-252 on April 7 Compton seminar, come to 3-221 or call X1896.

Lost: black address book, 51/2"x61/2", w/2 sm books inside. Anne, X4401.

Furn apt or hse, July-Dec '72, for visiting prof. X4715.

Girl's or boy's 3-spd bicycle, \$25. Gary, X4760.

AM-FM radio w/2 spkrs. Zvi, X1476.

Pt time help for mother w/back injury

w/2 sm children, 5 days/wk, must have

own trans to Lex, mother w/child ok,

lg yd, nr beach, \$1.25/hr. Jim, X7384

Ride to NYC or New Brunswick, NJ, lv

4/21, return 4/23 or 24, wl share driv

Fem rmmate to share mod 4-rm, 3rd fl

apt w/fem grad student, nr Medford

Sq, air cond, w-w carpet, dish & disp,

avail now, own rm, \$115 + util. Karen,

Rmmate for lg Brk apt, own BR, util,

Fem, 25-35, to share grandiose Brk hse

w/6 mixed people, 2 cats, \$88/mo.

Waterfront cottage or camp, 2-3 BR,

NH or Me, 3 hr drive from Boston. Bill,

Male to share Lexington hse w/2 others

beg 6/1, nr Arl line, own BR, 1 acre

land, lg basement, patio, \$111 + util.

Students interested in forming a stamp

and coin club. Adela, Dorm X0907, or

Fem rmmate for sum-in mod Walth

apt, own BR & pool privs, conv to T.

Grad student foreign wife will babysit

every day inc wknd. Ricardo, X4192.

WI do any type of drafting. Ron,

Wl give priv piano lessons, reas rate.

Positions Available

The Office of Personnel Relations is

seeking individuals from within the

Institute to fill the following openings:

Technician A (E-M): Maintenance of

electronic equipment associated with

controlled low background facility,

breath radon and thoron equipment.

Troubleshoots nuclear pulse instru-

mentation. Some fabrication and

transistor pulse circuitry. Good know-

ledge in use of oscilloscopes and other

test instruments. Some knowledge in

use of shop machinery. Ability to work

Hourly, Ext. 4268

Assistant Loan Officer: The Student

Loan Office has a position available. Its

1) Responsibility for input and

output controls on the compu-

terized Student Loan Systems and

functions will include the following:

with minimum supervision.

Good to excellent knowledge of

pking avail, avail 6/15. X3631.

& exp. Betsy, X4408.

Linc.

X161 Linc.

X325 Draper 7.

X437 Linc.

Wayne, X3770.

Peggy, X6337.

X7273.

wiring.

Anne Kim, X1713.

Dave, Dorm X8206.

Miscellaneous

Framus classical guitar w/solf case, yr old, \$40; Shure M91E cart w/stylus, used 4 mos, \$10. Mike Charek, Dorm X9668.

Concord tape rcdr, 4-trk stereo w/spkrs, \$75. Joanna, X1539.

Minolta 16II submin 16mm cam, Rokkor 22mm f/2.8 lens, flash, filters, other access, exc cond, \$15. Brad, Dorm X8789.

Hart Jubilee 175 cm skis w/Spademan bndgs, gd cond, all for \$50. Penny, X6766.

Realistic TRC-X20 CB transcvr w/5 xmtr crystals incl, rec calibrated, \$75 firm; '62 VW bug w/'66 eng, some body rot, \$200 firm; '65 VW sqbk, rebuilt eng, new paint, int exc, no dents. Quent, X6449.

'70 VW bug, yellow, exc cond, 17K, \$1450. Sidney Borrson, X7633 Linc.

'70 MG midget, 24K miles, good cond, \$1500. Brian Cuevas, X7311.

'70 BMW 2002, blue, 22K, exc cond, w/sunrf, stereo deck, price negotiable. Seth Schneidman. X6886.

'70 VW bug, sunrf, yellow, opening rear windows, AM-FM, snows, other extras, exc cond, asking \$1650. Fred Anderson, X2213.

'71 Maverick, automatic, 15K miles, best offer. Maureen, X7888.

'69 Honda 90 auto, 3K, good cond, \$125 + helmets. Jeff, 661-9480.

Honda 350cc, gd cond, low mil, reas price, Linda, X501 Draper 11.

Camb, sublet to MIT-affiliated, furn 1 BR apt, balc, view on river, adj to campus, rent negotiable. Ferne, X3645.

Camb, sum sublet, 5/1-8/31, 1/2 of new BR, 2 B apt, priv ent, \$130-\$150/mo. Marjorie, X1826.

Camb, sum sublet w/opt, nr Cent Sq, 5 rms, \$195/mo, Call 661-9698.

Camb, 15 min to Harv Sq, sublet w/opt, 3 BR, LR, DR, K & B, wash mach, air cond, porches, \$315/mo incl util, avail 6/1. Susan, X1525.

Framingham, mod 1 BR apt, air cond, ww carpet, pool, pking, \$160, avail 6/1. Morry, X177 Draper 7.

Lex, 1 rm, furn apt in basement of ranch home, nr 128, shower, refrig, thermostat, \$125 incl util, 1/2 hr walk to Linc. Mechler, X327 Linc.

Wanted

Portacrib. Jeffrey, X5934.

Full-shell cycle helmets and 10-spd bike. Stephen Powelson, Dorm X0530 after 8pm.

Male to accompany high sch freshman boy on 1 month bicycle trip to Canada, starting from Wilbraham. X6154.

Purdue prof and wife want to sublet Sm hse in Boston area for summer. Write R B Homes, 2308 Sycamore Ln, W Lafayette, Ind, 47906, or call Ingrid, X4393.

Wet suits for waterskiing, reas, sizes 38-40 & children's. Bob Bauman, X5318.

verification of the charges to loan and Note funds Receivable Accounts.

2) Responsibility for the preparation of monthly, annual and special management accounting reports for the Administration and the Federal Government.

3) Assistance in collection, correspondence and exit interviews with graduating students.

4) Liaison with data processing in the operation of the Student Loan System for regular updates and special program runs.

Applicants must have Accounting and supervisory experience. Knowledge of Student Loan operations is most desirable. In addition, the person selected for this position should have the maturity and tact to discuss financial planning in regard to delinquent Student Loan Accounts and advise graduating students on the policy and options available for the repayment of their student loans.

Mr. Higham, Ext. 4278