

OUT FOR BLOOD

Coming up in March is MIT's annual Blood Drive. This year it will be held from March 22-26 in the vacated quarters of the Registrar's Office, Bldg. 7-142, right near the main entrance at 77 Mass. Ave. And, to insure that there are no delays, the Red Cross will be on hand with double their usual force of nurses and helpers. They'll have two doctors and will schedule donor appointments at the rate of 60 an hour. Dietary restrictions have been removed this year; instead of the usual "no fats" approach, you can eat anything before you donate.

Last year our score was excellent. We gave 1,325 pints of blood in a record turnout. Says Lee Grace of the Cambridge Red Cross, MIT's contributions come at a vital time.

The blood bank suffers a "drought" in early spring, and our contributions are worth a lot more than we realize. We're actually filling the blood bank which all Eastern Mass. depends on now. Our '64 success set a peacetime record for the entire Eastern Seaboard. Often, says Miss Grace, MIT donations go immediately for open heart surgery. There are 7 hospitals in the area which do 2 to 3 of these operations daily on children from all over the world; and for adults it may take as many as 100 fresh pints of blood during that surgery.

At the same time we're insuring that our families will be protected, should we ever need to request blood from the Red Cross. That coverage stands whether or not we gave personally.

Scheduling of donor appointments will be done by forms, distributed in the Institute mail, and by an army of department and lab solicitors. To make or change appointments by phone, call Personnel, Ext. 4279 or -- if it's busy -- 4271; students may contact the TCA Office, Ext. 4885.

Faculty chairman for this year's drive is Prof. James W. "GIVE TILL IT HURTS" Mar (Aero. and Astro.) Student co-chairmen are Paul Lindsey (TCA) and Gardiner Gay (APO). For Lincoln's drive on March 29 and 30, Safety Engineer Eric Spencer is chairman; the drive will be held in Room A-166.

By the way, according to the Red Cross, people with rare blood types and/or RH Negative factor needn't feel they must wait to donate in emergency situations. These emergencies would be few, if such rare types were donated during regular blood drives.

TT Photo by Bob Lyon



Mar with secretary Ann Gorrasi (left) and TCA's Dotsie Reed



MEDAL TO DRAPER

In Washington this month, Dr. Charles Stark Draper received the 1964 National Medal of Science from President Johnson. He was honored for "Innumerable imaginative engineering achievements in aeronautics and astronautics." The Medal of Science was established in 1962. Eleven men were honored with the 1964 medals; only one other was an engineer -- the designer of the George Washington and Verrazano Bridges.

In December, Dr. Draper and the staff of the Instrumentation Laboratory received the Commander's Award from the Ballistic Systems Division of the Air Force Systems Command. At a recent meeting in Kresge, Dr. Draper briefed Lab personnel on the history of Instrumentation Lab and its past, present and future programs.

WILLIAM L. STEWART, JR., AWARDS

The William L. Stewart, Jr., Awards for MIT students who have made outstanding contributions to extracurricular activities, were first made last spring. They were created by the student-faculty Activities Development Board and given in memory of W. L. Stewart, Jr., Class of 1923, and a member of the MIT Corporation from 1952 until his death in 1963.

For this year's recipients, nominations are open now and may be made by any member of the MIT Community. Forms were distributed to student living groups and are available in Room 50-110 where they must be filed by March 15.

Any recipient nominated must be in one of the 77 member organizations of the Association of Student Activities, listed on the forms. Eligible are: A member of an activity; the head of an activity, or the entire organization. ADB chooses a selection panel of faculty and administration members.

FOR ART'S SAKE

The art dealer in "You Gotta Have Art," Tech Show 1965, is Bernie Simmons (see photo) from the Libraries' Microreproduction Laboratory. He's the only MIT employee taking part in this year's musical -- along with a good-sized group of student actors (in Italian Renaissance costumes, designed by John Leide '65), writers and technical staffers. The show will be given on March 4, 5 and 6; 12 and 13 in Kresge. Tickets will be available in Bldg. 10 lobby, or by calling Ext. 2910.

Bernie Simmons was in last year's Tech Show, also. As actor, he has worked with the Cambridge Community Players; more recently has helped organize a new group called the People's Theater.

NEW CHAPEL SERVICES

In the Chapel, to the accompaniment of recorders and guitar, the congregation was about to offer "When the Saints Go Marching in." Prefaced Episcopal Chaplain Myron B. Bloy, Jr., "Worship is a joyful act But you don't have to sing, if you



Leide (left) and Simmons with padding

don't want to." Mr. Bloy has recently organized for the Protestant Ministry at MIT a series of noontime services. They are aimed to fill the needs of our teaching-working community.

From 12:10 to about 12:35 each Wednesday, a sermon, discussion, artistic or dramatic presentation will be held. Each will be followed by a shortened form of Holy Communion using the Episcopal order. Then at the Religious Counselors' building at 317 Memorial Drive, a light lunch will be served -- for those who don't bring their own -- giving people time to get back to business at 1 p.m.

This is the coming schedule of services:

On Feb. 24, choreographer and professional dancer Amy Greenfield will present liturgical dances. On Ash Wednesday, March 3, there'll be a special program which has been arranged with the Rev. Harry Dooley, C.S.P. A Roman Catholic Mass will be celebrated at 12:05, and at 12:30 Protestants are invited to join the congregation to hear a sermon by Bishop John Burgess of the Episcopal Church, followed by the Protestant Communion. Between then and Easter there will be weekly dramatic readings of scenes from contemporary plays. MIT's Director of Drama, Prof. Joseph Everingham, will advise the group of MIT and Episcopal Theological School students who will present them.

HERE AND THERE

Coming "Science Reporter" programs involve MIT. On Feb. 25, in "Nuclear Collisions," Science Reporter John Fitch will interview Robert Van de Graaff at High Voltage Engineering, and will see a 20 mev Van de Graaff accelerator. "The Well Tempered Computer" on March 4, features Ercolino Ferretti, lecturer (Humanities) and researcher (RLE) who has developed a new computer program to compose music. Then, on March 11, Prof. Edward Merrill (Chem. Eng.) will discuss "What Happens When Blood Flows?" The programs are shown on Thursday nights at 9:30 p.m. on Channel 2 (WGBH-TV).

In a continuing series of Seminars on Seamanship, the MIT Nautical Association will give on Wednesday, March 3, "The Charles River Sailor's Introduction to Cruising and Ocean Racing," by John Hughes; and on March 10, "Power Boat Handling," by Tom Johnston. Seminars are held in Room 3-370 at 7:30 p.m. Everyone is welcome.

This evening, Feb. 24, there will be a Massed Choral Concert at the Prudential Center War Memorial Auditorium. The MIT Choral Society and MIT Glee Club will participate. With the Boston University Chorus, they'll present Four Choruses from Haydn's "The Creation"; two will be conducted by Prof. Klaus Liepmann, Director of Music -- "Achieved Is The Glorious Work" and "Sing The Lord, Ye Voices All." Later they'll join in a grand finale of combined choruses, including the New England Conservatory Chorus, Harvard Glee Club, Radcliffe Choral Society and The Handel and Haydn Society.



Bloy conducts service in Chapel

FOR SALE ETC.

German made Kodak Retina 3C camera, never used, orig \$115, now \$75. 262-0002 evgs.

Men's figure skates, size 7, exc cond, \$10. Ext 5260 or 267-7543 evgs.

Electric face massager, used once, \$3. UN8-7294.

'47 Harley, 74CI, stroked, exc cond, \$450. Carlton, ext 2461.

Must sell 3 month old gas clothes drier, \$130. Hugh, ext 5556.

Fem. toy terrier, 6 mos old, spayed, all permanent shots, \$40 or best offer. 535-2399.

Maple chest, easy chr, ironstone china, tble, 2 antique chrs, pine chest, pottery, etc. 864-0007 evgs.

Men's ski boots, size 11. Bob, ext 5993.

Mod. Danish-style furn: Couch, 2 chrs, coffee tble, \$120. Also: Sports car luggage rack. Call Groneman, ext 2156 or 5909.

JBL 12" spkr DL23 in unfinished RJ enclosure, \$50. 354-5458.

Realistic tape recorder, 3-spd, 3 motors, \$50. Steinmetz, ext 695 Linc.

Hi-fi, mono FM and phono. Great sound at moderate cost. Also '62 Chevy II, 4-dr, blue, cream puff and perfect mech cond. Good buy. K17-0172.

AM-FM R, 2 spkrs, fine tone, tble model, never used, \$25. 729-1458.

Roberts 990 tape rcd, \$200; Eico 28w stereo amp, \$35; Heath AM tuner, \$10; FM tuner and multiplex adapter, \$25. R. Elder, ext 4512 or 522-5631.

Sofa bed, very good cond, \$20; refrig, \$30; 4-spd phono, \$15. Dick Fow, Grad House, Rm. 307B.

Set tire chains for full-sized cars (7.60 -8.00 tires), used once, \$9. Mike, 491-3255.

Italian guitar, \$30; sm elec heater, \$3; 2 fans, \$5 ea. 782-9349 evgs.

Typewriter, Royal Quiet Deluxe, elite type, port w/case, \$45. Mr. Haven, ext 3870 or 235-8184 evgs.

Air compressor, 1 hp motor, 33 gal tank, \$234; Delta shaper B450 rpm, \$169; Delta 10" hand saw. X 238 Linc.

New 3-yr guaranteed 6v VW batt, \$15.50; new Blaupunkt R for VW, all install. access, \$50. 491-5097.

Sears cardboard closet, orig \$9.88, sell for \$5. Takashi, ext 2279 or 345-7297.

Desk, approx 30" x 54", oak, asking \$20. Martin Thomas, TR6-8996.

Motorola 14" screen comb TV-R-phono, mahog cab, best offer. Peter Warren, 395-9159.

6.50 x 15 snow tires, tubeless, 2 Allstate Silent Allseason. Driven about 6,000 mi, \$15. 354-8155.

"Broil King" portable, bakes and broils, 18" x 11", like new. Yours for \$15. IV4-6670.

Slide trombone, \$70, good slide action; big alligator-type case. 262-2562.

Floor polisher-cleaner, Shetland mod, asking \$20; elec sun lamp with auto timer, \$8. Rosenberg, X5097.

French student wife will give French lessons. 864-0064.

2 mattresses with box springs; refrig. Matar, ext 2170.

Mattress and box spring, twin size, 39" x 72", \$35. Roger, ext 5524.

New status pet. Calico kitten, 12 wks, trained, \$10 or best offer. 491-0492 evgs.

All issues of Journal of Optical Society of America, '62, '63, '64, \$10/yr, \$30 total. Beth, ext 4550.

Elec motor, Westinghouse, 1/3 hp, used, \$8. Ted Jula, ext 4546.

Bell and Howell zoom 8mm movie cam, 1thr case, tripod, light gun, editing mach, orig over \$250, sell for \$125. Mike Develle, ext 30494.

Used baby bed and mattress, in good cond, \$10. J. Hochs, 734-7419.

Belmont nurse (R.N.) will care for 3-5 yr girl, playrm, yard, Belmont. 484-8354.

Frig refrig, porcelain, \$50; Tappan 4-burner gas range, lg oven, 2-drawer, \$75; Chrysler 2-ton air cond, \$250; 3 dble window cornices, \$5 ea. 665-5230, Melrose, evgs.

New Mercury motor, 9.8 hp, never used. Ext 3485.

Monaural hi fi system with fine sound repro: Record plyr, tuner, amp, spkr, \$140. Dick Greene, ext 3724 or 734-4653 evgs.

Will do typing. Ext 4550 or Room 2-121.

VW 1200 roof rack, steel, almost new, \$20. Ext 3161, Lou Schmider, Baker House.

12 Book house bks, 8 picturesque tales for children; mahog coffee tble; maple night tble; mahog tble, 30 x 15 x 30; 4 pr aqua fig drapes; leather cigarette box. Ext 4141 or IV4-5690 evgs.

Mono amplifier, Heath, 14 w, \$15. Ext 30202.

Tire chains, new, sm car, \$5; Orbital sander, like new, \$10. Bill, ext 5993 or 924-6645 evgs.

Argus 8mm movie projector, zoom lens, auto thread; two 12" Copenhagen coax spkrs. Dunn, 547-1922.

Typing -- thesis, reports, etc. B. Krebs, 491-8025.

Ski boots, men's Reiker, 11 1/2, \$20. 623-1886 evgs.

AKC reg toy poodle puppies, 6 wks old. Ext 30313 or 491-4359.

'53 Porsche, blk coupe, no rust, \$750. John Weber, ext 30552.

'54 Pontiac, exc running cond; new tires, battery, tune-up, \$125. Also: Man's bike, \$12. Call Lattrell, ext 3703 or 868-0335.

Package deal, '55 Ford Tudor, '56 Lambretta, both run, need work, \$75. Hal, ext 3244.

'56 VW blue sedan. Glennie. PA9-4835.

'56 Ford V-8, 4-dr sedan, rebuilt motor, R&H, perf cond, \$100. Ext 2240.

'56 Ford 2-dr sedan, 69,000 mi, reliable trans, \$125. UN8-5654.

'56 Pontiac 2-dr auto trans, R&H, \$125. G. Perry, ext 4069.

'57 Ford 2-dr sedan, \$150. Ext 5241 or 489-1489 evgs.

'57 Mercedes Benz 190 sedan, good cond throughout, extras, \$800. Erlingsson, ext 2925 or 625-5133 evgs.

'58 Chevy V-8, 4-dr sedan, p steering, auto trans, \$450. 536-1141 evgs.

'59 Pontiac Bonneville hardtop, exc cond, p windows, brakes, steering, air cond, new tires, \$975. AT4-0033.

'59 Chevy 4-dr Bel-Air, \$600 or best offer. Lippincott, ext 5821 or 734-1587.

'60 VW, blk sedan, 40,000 mi, 2 extra tires, \$800. Art Baker, ext 7630 or 475-4957 evgs.

'60 Jaguar convert XK-150, Michelin tires, 3.8 litres, racing lts, ski rack, British racing green, exc cond, best offer. Pete, 536-9033 evgs.

'60 Ford Falcon, green, R&H, \$600. 547-4218.

'61 VW sedan, sunroof, \$1,000. Julie, ext 3201.

'62 VW, exc cond, sunroof, first owner, \$1,125. 244-2800, ext 6 evgs.

'62 Cadillac convert, blk, exc cond, \$3,000. Linc ext 5723 or VO2-5761.

'63 Karman Ghia, 1,900 mi, perf in and out, asking \$1,750. Ext 2523

'63 Valiant 2-dr, std trans, exc cond, orig owner, \$1,350 or best offer. Ext 2728 or 547-0568.

'63 Ford Country Squire sta wag, 6 cyl, std trans, \$1,900. Ext 2128.

'64 Yamaha YDS-2, exc cond, \$500. Ext 2250.

'64 Corvette, 365 hp, Pirelli tires, about 8,000 mi, asking \$4,000. Ext 712 or 354-6759 evgs.

Sublet studio apt for 2. Mod BR, tile, avail immed, furn, corner Mass. Ave. and Marlborough, \$120 a mo, incl ht. Also woman's gold ski pants, 14, never worn, \$15. Jean, ext 2261 or 536-1062 evgs.

Sublet apt, 3 rms and B, exc location, Charles St, Beacon Hill, \$115/mo. Chip, ext 2501 or 227-4481.

Sublet furn apt, Brighton near Comm Ave, 3 rms, hall, \$120/mo. 734-8722 evgs.

Apt for rent, Lexington, 5 rms, conv location nr schools, bus line, enclosed grounds, \$135. 862-8542.

For rent, Belmont upper, 3 BRs, mod B, K, LR w fp, DR, sunporch, near shops, trans. IV4-9017.

Sublet apt, Beacon St, spacious 2 BRs, furn, birch panelled walls, fp, priv patio, \$190/mo. Lee, 267-9860.

For rent, studio apt, tile B, mod K, fp, Marlborough St. Ext 4669.

Sublet to Sept 1, avail renewal, Comm Ave, 15 min to MIT, very attrac 1 BR apt, wood panelled LR, mod K and B, \$115/mo, incl heat and hot water. Mrs. Scherr, ext 2681.

Newton Corner, Eliot Church section, front corner rm, K priv's, quiet, near trans, \$50/mo. Call 969-5376.

Lovely colonial, 1 1/2 acres, N. Billerica, 7 rms, 2 1/2 Bs, 2-car G, 369-3066.

Boston CORE desperately needs donation of useable or repairable office equipment. HI5-9458.

Wanted: Grad student to tutor high school algebra in return for free foreign car repair service. Ryan, 354-9381.

Wanted: roommates to share apt. Gary, 262-1663 evgs.

Wanted: Girl's English bike, under \$10. Phil, 262-3454.

Wanted: 5 LP-l cathode ray tube. Dick, ext 201 Linc.

Wanted: Spring suspended rocking horse. 245-0687.

Wanted: Female roommate to share apt with 2 other girls, Comm Ave near Mass in Back Bay. Call 5442.

Wanted: Female roommate to share lg front-view furn apt with 3 others, Comm Ave, Boston, 10 min to MIT, \$38.75/mo, laundry in basement. Susan, ext 2735 or 536-5683 evgs.

Wanted: 2 typewriters in good cond. 387-5201.

Wanted: Portable TV and portable phonograph, cheap. 262-1663 evgs.

Wanted: Used iron and ironing board. Ext 2279.

Wanted: Old time player piano rolls. 268-0546 evgs.

Wanted: Used banjos, guitars, mandolins, etc. Owen, ext 2552 or 262-4534.

Wanted: Thesis typing. Betsey, ext 4681.

Wanted: Hollywood double bed, 80" long. WA6-1931 evgs or before 8 a.m.

Wanted: Ride from Wellesley to MIT daily, 8 a.m. Doug Owens, CE5-6548.

Wanted: Technical and thesis typing. Also, for sale: Dark blond wig, reas, worn twice. Pat Y., ext 5495 or 491-1319 evgs.

Wanted: Used guitar for beginner, under \$10. 625-8543 evgs.

Wanted: Baby grand piano, any cond, urgent. Ext 30527 or JU 1-1208 (Nahant) evgs.

Wanted: Typing. 254-0642.

Wanted: Boy's bike. D. Nicoll, ext 2363.

Found: In Bldg. 10 basement, a key stamped "Melrose Supply." Benton, ext 6051.

Wanted: 4th girl to share apt with 3 others; 2 BRs, 2 Bs, lg LR, mod K, Back Bay. 266-0156 evgs.

DRIVING LECTURES

Recently Physical Plant drivers attended a series of lectures on driving hazards and how to avoid them. The program was headed by Jim Healy, Division Fleet Engineer from Liberty Mutual Insurance Company, who discussed among other things stopping distances, backing, night driving, snow removal hazards, vehicle inspection and accident reporting. Mortimer L. Cashman, Liberty Mutual Fleet Supervisor, demonstrated a reactometer for determining braking time, and a sight screen for measuring depth perception and peripheral vision.



ST Photo by Bob Lyon

Jim Healy lectures at Armory

FIRE AWAY

Fire-retardant paints, for you who don't know about them, are chemical compounds which impede the spread of fire by slowing down combustion. They don't make a structure fire-proof, but their action in a fire provides an important margin of time for building evacuation, fire fighting and reducing potential damage.

The paints have special ingredients which work in different ways. One type contains an intumescent agent that puffs up like foam, retarding heat penetration while entrapped inert gases blanket off oxygen. Another kind includes agents that, in the heat of fire, liberate vapors such as carbon dioxide to slow down a blaze. A third type utilizes a glazing agent to form a hard retardant surface which remains virtually intact when exposed to moderate heat.

These paints are applied in the same manner as ordinary paints, though two or three layers are necessary. They are not usually thinned and cannot be used on exteriors. If you decide to use such paints, remember that they are not a cure-all. The unpainted surfaces are vulnerable and so are portions where paint is chipped, scratched or worn away.

When purchasing fire-retardant paints, make sure they carry the Underwriters' Laboratories label, and when applying them, follow the manufacturer's instructions specifically.

NO WAY OUT

Most people leave a building the same way they entered. And usually there's a main route -- stairway or elevator -- which is very heavily traveled.

In normal day-to-day living, this presents no particular problem except perhaps some minor inconvenience; but in an emergency such as a serious fire or earthquake, crowding at exits can result in disaster.

If you have ever been several stories up in an unfamiliar building and wondered how you

would get out in the event of a fire, perhaps these few suggestions will help:

Most state and city building codes require two or more exits from each floor of a public building. Be sure you know where they are and check to be certain the doors are operable and that the fire escape or stairwell is clear and usable. Never use an elevator as a means of escape from a fire. Fires can short-circuit elevator electrical systems, leaving car occupants trapped between floors in a natural flue where smoke, toxic products of combustion and heat are able to envelop the car quickly. If you suspect a fire, use stairs to leave the building immediately. It's easier to return than to be trapped by delaying too long.

If you are traveling and have a choice of hotel rooms, remember that few, if any fire departments have ladder equipment capable of reaching over 100 feet. In large city hotels, this is seldom above the fourth or fifth floors, since the first two or three are usually lobbies, ballrooms, mezzanines and meeting halls.

DANGER: CARBON MONOXIDE

Carbon monoxide is the most widely encountered gas that has a poisoning effect on man and animals. It has produced problems in industry, schools and homes; in fact, wherever one may encounter the incomplete combustion of carbonaceous materials such as wood, coal, gasoline or any organic material.

At times the danger of carbon monoxide poisoning exists when one is least aware of the possibility. Recently, fumes from an improperly-adjusted wallpaper steamer, run on liquid petroleum gas, made the operator sick; he was using the machine at home.

Tests showed that in a typical, well-ventilated room (12' x 12' x 8') with 15 air changes per hour, use of the steamer would result in a concentration of 2,500 parts of carbon monoxide per million parts of air. This concentration is dangerous to life in an hour's time. But steamers properly maintained and adjusted should not create a health hazard.

Other carbon monoxide sources that we encounter frequently are gasoline engines run in confined areas, improperly ventilated stoves, etc.

If you feel that your operations at MIT may result in exposure to carbon monoxide, please call the Occupational Medical Service, Ext. 2596, for a proper evaluation of the extent of the hazard.

State regulations require that anyone using or storing any amount of L. P. gases indoors or out, must obtain a permit from his local fire department.

MUD IN YOUR EYE

Driving this time of year requires extra caution when road conditions are bad from melting snow, rain, frost and snow plows. Your vision is greatly reduced when slush and mud are flung on your car windshield by oncoming or passing automobiles. For those whose cars don't have windshield washers, it's a good idea to carry a large wiping cloth or paper towels. Then stop, well off the road, to clean the windshield frequently.

Often there are potholes in the road, resulting from frost heaves and the passage of snow plows. If your car hits these while traveling at even moderate speed, they can ruin tires, misalign your car's front end, or throw your car out of control.

Wet, slippery roads which mean greater stopping distances are the rule rather than the exception because of melted snow. Going through puddles in the road can wet brake linings. Pressing and depressing the brake pedal several times while the car is in low gear will dry them out rapidly. Occasionally at night the temperature may drop low enough to freeze puddles; and then, too, they will cause unsuspected hazards.