

Wheel lowered into place. Magnet Lab construction is on schedule. By early 1963, Lab should be ready to start generating strongest continuous magnetic fields ever made by man.

BIG WHEEL ON CAMPUS

The biggest wheel at MIT has been eased into place at the Institute's National Magnet Laboratory on Albany St. It's an 84-ton solid steel flywheel that--along with a twin to be delivered later--will keep the lights in Cambridge from dimming after the laboratory starts operations next year.

The a-c power the laboratory will draw from the Cambridge Electric Light Co. will be converted to the d-c power needed to energize the facility's magnets by a pair of motor-generator units. Each unit will include one of the giant flywheels--each 16 feet in diameter--to store energy that can be tapped on those occasions when experimenters want to pulse the magnetic field up to maximum strength (up to 500 kilogauss or so). The wheels store up energy as they spin and give it up when they are slowed down. If the wheels were not present, the laboratory would draw so much electricity off the light company's line with each pulse--or kick--that all the lights in Cambridge would dim briefly.

The General Electric Co., Schenectady, N. Y., designed and built the motor-generator-flywheel units and is supervising installation. The units will be used together or separately, depending on how much field strength is needed for any one experiment.

It takes five days to set one of the wheels into place. The wheels are hoisted and moved into the building by giant cranes and lowered into place by hand-operated chain falls. It takes four hours just to get one lowered. Another half a day must be spent cleaning the shafts which are coated with a protective grease during shipment.



(L. to r.) Mandalian, Steinhauser, Boyajian

EVERYTHING SPOKEN HERE

The international standing of MIT's Department of Foreign Languages will be pointed up August 27-31 when more than 1000 language experts from over 50 countries gather in Cambridge for the Ninth International Congress of Linguists. Plenary sessions and group meetings will be held here at Tech and on the Harvard campus.

Secretary-General of the congress is Professor William N. Locke, head of the MIT Department of Modern Languages and Director of Libraries. Dr. Roman Jakobson, Institute professor of modern languages, is a vice president and the secretary is Modern Languages Professor Morris Halle.

MIT people are deeply involved in running the meeting. The local arrangements committee includes Professors Locke, Halle, Edward S. Klima, all of the Modern Languages Department; Professor Louis Kampf of the Humanities Department; and Victor H. Yngve of the Electrical Engineering Department. Graduate students, research assistants and instructors from Modern Languages will serve as aides and guides.

Heading the registration desk will be Ruth Mandalian, an administrative secretary in Modern Languages. Four others will be working on registration: Judy Steinhauser, Judy Boyajian and Mrs. Margot Pelkey, all of Modern Languages, and Mrs. Eva Ritter, secretary to Institute Professor Norbert Wiener. For three of the registration workers, a linguists convention should be a snap. Mrs. Pelkey and Mrs. Ritter speak French and German; Miss Mandalian speaks French.

HOW THE GARDEN GROWS

There are several garden spots at MIT, but the front runner probably is the formal garden at the rear of the President's House, Ill Memorial Dr. The reason: Tender loving care by caretaker Joe Lepore of Physical Plant.

This has been Joe's first season at the President's House (for the six previous years he was groundskeeper at Burton and Baker Houses). But despite his rookie standing (it takes time to get to know a garden) and despite a hot and dry summer, Joe and his green thumb have kept the garden an Institute showplace.

The garden abounds in peonies, geraniums, azaleas, chrysanthemums, tulips, wistaria, rhododendron and philodendron, interspersed among magnolia trees, white birch trees and oak trees. A tea house is at one side, a fountain and fish pool at the other. Tying the whole together is a green carpet-like lawn.

The garden is only part of Joe's job. He also tends flowers and hedges at the front of the house facing Memorial Dr. that make the residence one of the brightest spots on this side of the Charles River. Inside the house, Joe cares for floor palms, cactus plants, rubber plants and more philodendron plants.



Joe Lepore in garden at the President's House.

THE GOOD HUMOR MAN

Instrumentation Laboratory's answer to the "good humor man" is Ned Lenson.

For 10 years Ned has run the food concession at the Lab--and he's never been caught without a smile or a story. His concession has grown from a table setup when IL was young to snack bars in Whittemore Bldgs. 1 (68 Albany St.) and 5 (45 Osborne St.), and a regular cafeteria grill at the newly-renovated Whittemore 6 (224 Albany). His most recent addition is a wagon at the Itek Bldg. (75 Cambridge Pkwy.) where IL has expanded.

An early bird, Ned arrives at 6:00 in the morning to see that "the brains get a good breakfast."

There are always people in Ned's lines. Ned--and the eight girls he employs--pour 80 gallons of coffee daily and make to order approximately 600 sandwiches. Ned will make up any combination to please--even roast beef and jelly.

Ned and his girls fill another Lab need. When big meetings are held, they bring in the coffee and donuts for the breaks. If a meeting should not break for lunch, Ned and company meet the crisis with sandwiches, delivered. Ned grants another favor. For all Lab parties, employees and guests receive free coffee.

The Lab likes to humor Ned too. A few years ago he was presented with an Oscar for his special efforts. Also, he received a mock Navy "E" (for excellence) pennant, like the one the Lab received from the Navy for its work on the Polaris missile.

Ned owns Personnel Luncheon Services, Inc. in Kendall Square. He started several years ago serving lunches to businesses and shops in the area. When he discovered the Lab's need for eating facilities, he gave up the other part of his business to devote full-time here. He uses his office in Kendall Square as a commissary.

Lately, Ned's services have been spreading elsewhere in the Institute. This summer, he's been supplying the coffee in Kresge Auditorium for the Summer Session breaks. He also served in Kresge during the Centennial celebration.

Ned's a skier, tennis player, golfer and skater. Last winter he joined an IL group that played the MIT Varsity hockey team. Ned and pals were glorius--but, alas, in defeat.

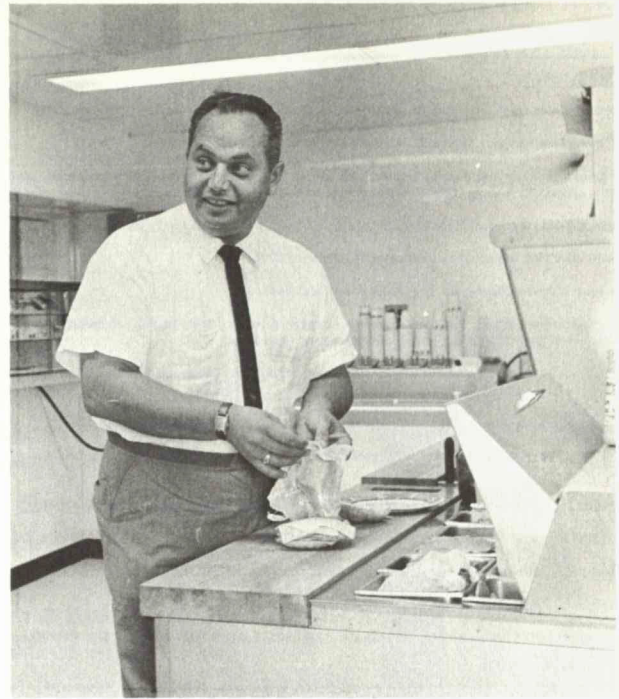
HELP WANTED

Do you have friends who might be interested in working at MIT?

The Institute has several openings for secretaries who can take shorthand and for technical typists as well as a few openings for talented machinists and electronics technicians.

The personnel office has found that a good source for prospective employees is among the friends of people who already work here.

If you know anyone who's interested, you might suggest they apply at Room 11-001 before the fall rush begins.



Ned at IL's new cafeteria grill (224 Albany St.).

FOR SALE ETC.

Admiral air conditioner, 1 ton, 10,500 BTUs. 1 1/2 yrs old. Ext 2715 or 944-9355 evgs.

27' keel sloop, dinghy. Must sell. \$1100 or best offer. Ext 3208 or PA9-0365.

Portable tape recorder, Ampro 2-speed hifi, model no. 758, remote control, microphone, push button operation, footage counter. \$100 or best offer. EL4-0210 or ext 3883.

Bogen B50-16LCS Manual Player w/carrying case. Good cond. Asking \$30. Joe Kappl, ext 4215.

1 Scott multiplex tuner, \$100. Dumanian, Lincoln ext 372.

Siamese kittens--affectionate & good humored. Ext 3428.

Large Chambers range, 4 burners, 4 ovens; Leonard 6 locker, 5 ice trays, refrigerator and compressor; both in working condition. Interested? Ext 2220.

Fish tank (30"x12"x12") overhead light. \$10. Rapid reading kit (Chicago Better Reading Program), never used. \$8. Call S. Lehrer, Lincoln ext 7551.

Woman's English bike. Very good condition. \$15--will haggle. BE2-7175 after 8/5/62.

Cold Spot refrigerator, medium size, good condition, avail Aug. 31 (\$25). Gen Tsuchihashi, ext 4537.

Basinette, \$5; Bathinette, \$5; Playpen (lg), \$15; baby chair, \$3; other items. Elmwood 8-2156.

78" RPM (some 500) collectors' items. Mike, ext 3472.

8-foot pram rowboat & 3hp motor. \$85 complete. Call Charlie, ext 4565.

Part Siamese kittens, housebroken. Barbara Signer, ext 4117 or TR6-6825.

Modern end table, like new. Will sacrifice for \$15. Also modern table lamp for \$10. Call Margie, Lincoln ext 7131.

Set of Spaulding golf clubs: 8 irons; 4 woods; putter; bag & cart. Only 1 yr old. Registered J. Barber model. Cost \$150, will sell for \$85. K17-9333 or ext 3983.

1 Parker 28" lawn sweeper, good cond. D. Webster, ext 765.

Elec range and auto washing machine. \$75 for both. FA5-9236.

Old fashioned bookcase (walnut). Almost 100 yrs old. 75", best offer or \$100. Clark, EL4-0131.

Shortwave radio, Hallicrafer Model #S 38. Frequency range 550 kc to 30 mc. AC-DC. \$20 or best offer. Dave Stevens, ext 30-241.

3 Thoroughbred Siamese kittens. \$15 & \$20. Inquire of Mrs. Edward Dunn, Duxbury or Parker Hill Rd., Gardiner, Mass. 632-5893.

Frigidaire, good cond, \$25; Easy washing machine w/wringer, exc cond, \$75; dining rm set, table & four chairs, \$20; China closet, glass front, \$15; LR set, sofa & 2 arm chairs, exc cond, \$125. George Homsy, ext 83-2813.

Siamese cats. Buy 1 and get Mephisto free. Spivack, ext 3410.

Misc items: Portable baby carriage that converts to car bed, to borrow, rent or buy; roll-top desk; old coins. Charles Wallace, ext 3910 or Phyllis Wallace, AL4-1332.

10' Fibre glass sailboat w/nylon sail, Exc cond. Barbara Johanson, ext 4169.

B. Altman "Balta" innerspring firm double bed mattress. Brand new, \$40. Ext 2643.

Caloric gas stove. 4 burners & storage. 5 yrs old, very good cond, \$75. Vernon Raine, ext 2801.

1 pair men's black saddle leather cavalry riding boots. Size 6 1/2-18" high. Excellent cond. \$15 firm. A. Ferola, Lincoln ext 241.

Stove, modern, standard, gas, in very good cond. Will deliver, \$35. Lincoln ext 5380.

Chain saw, electric, 14", Porter-Cable, in exc cond, with cord. \$85 or best offer. HO9-0060 evgs.

German Shepherd pup, male, 11 wks old, AKC registered, champion lineage, outstanding temperament, raised among children. W. Schmidt, Lincoln ext 7176.

Verifax machine, good cond, \$50. Call Miss Dedrick, ext 770.

'52 Jaguar, Mark VII, sunroof, new Hudson engine, \$250. 491-1776 evgs.

'53 Olds 98. 4 dr sedan, Hydramatic trans, R&H, \$150. John Harris, Lincoln ext 280.

'54 Ford sedan, new tires, bearings, etc. Very good cond. \$195. Firm. VO2-4493 evgs.

'54 Studebaker Champion. 6 cyl, std aft, hard top, red & blk, R&H, \$125. N. Onesto, ext 2503 or TR6-8386.

'55 Ford, competent vehicle in black w/1 dent, lft door. Owner leaves U.S. late August. Price axed, \$120. Hal, ext 2927 or 354-0440 from 6-8pm.

'56 Ford, blue & white, auto trans, R&H, exc cond. \$395 or best offer. P. Luybaert, Room 10-151. Leaving country.

'57 Ford, 4 dr, std stf, o.d., largest T-bird special engine, padded dash, seat belts, \$500. Wanted: late model Rambler station wagon. Ext 4436 or EL4-1371.

'58 VW, sunroof, in good cond, \$850. David Frech, ext 4211 or 648-3493.

'58 Mercury, 2 dr, hardtop, Mario, ext 2364.

'58 Volvo, new tires, bed kit, best offer. EL4-0210.

'58 VW sunroof sedan, R, snow tires, only 31,000 mi. Asking \$850. Avail 8/29/62. Also '61 Convair Greenbrier w/power glide, ww's, snow tires, exc R&H, only 11,000 mi. Only selling because leaving country. Asking \$2100. Avail 8/29/62. Contact Prof. Hallman, ext 2425 or VO2-0605.

'58 Vespa G.S. motor scooter, windshield and carrying rack. Red & green. Good cond. \$200. Harold Kimball, ext 2782 or GR9-3102 after 6:30 pm.

'59 Anglia (Eng. Ford), R&H, ww's, std trans, snow tires, 29,000 mi. \$550. Dick Locke, Lincoln ext 5320.

'60 Opel Rekord, exc cond, 23,000 mi, \$750. Lazarus, ext 4420.

'60 Opel station wagon, 29,000 mi, perfect cond. Asking \$1295. D. Dossin, Lincoln ext 7276.

'60 Chevy Impala convertible. Turboglide trans, good cond. \$1800. Ext 3733 or 536-5332 evgs.

'60 VW bus, Model 221, 37,000 mi, \$1525. T. Stewart, ext 3695.

'61 VW sunroof, 19,000 mi, R, ww's, seat belts, bumper reinforcements. \$1375. F. Mannis, ext 2380 or K17-2234 evgs.

'61 VW microbus, exc cond, \$1850, avail 9/1/62. Dot Gerety, ext 2367.

'62 Pontiac Catalina, auto trans, power steering & seat belts. 5,000 mi, only 2 mos old. Leaving country. E. Dubinsky, Lincoln ext 5758 or 894-6927 evgs.

A steal at \$21,500. 3 yr old, 6 rm, custom built, split level home. Basement garage, 11,000 sq. ft. Elec K w/ wall oven and garbage disposal. 1 1/2 baths w/vanity and cabinets. Separate laundry w/ dryer. Fire place. For more information call Calvin Holt, Lincoln ext 7559 or WES-0254.

Lexington, Manor Section, 4 BRs, lg LR, DR, 2 full baths, lg modern K w/ new dishwasher, garbage disposal, air conditioned. Will consider offer. Call VO2-4493.

Watertown, 3BR house, 1 1/2 baths, 30' LR, tiled elec K, basement panelled, air-conditioned BRs. Middle \$20,000's. WA4-0244.

Lexington, 3BR ctr entrance Colonial, beams, sun porch, lovely wooded lot. VO2-3263.

Furn newly-remodeled apt for rent. Avail Aug. 20. LR, BR, K, & bath. Easy walking distance from campus. Parking space. \$125/mo. 882 Main St., Cambridge. A. Waltar, 491-3198.

6 rm Dutch Colonial, twenty minutes from MIT, \$19,200, owner, ST2-0486.

3 BR Colonial, Lexington, 1 yr old, attached garage, 2 fire places, 6 rms & rec rm, 1 1/2 baths, lot 67'x110', \$23,900, owner, VO2-1678.

Beacon Hill apt avail Sept. 1. 2 rms, K, bath, fireplace & patio. \$115/mo. Call CA7-2189 after 6pm.

Sublet 3 1/2 rm apt in Brookline, Babcock St., lg sunny rms. \$115/mo. 3rd floor. Heated. Lease. Avail Sept. 1. Call AS7-9565 or AS7-2678.

8 rm apt, Watertown, near MTA, 5BRs, K, DR, LR. \$130/mo. unheated. Call 491-0085 or K17-7254 evgs.

Wanted: 3 rm furn apt for 2 girls in Cambridge, Harvard Sq. area beginning Sept. 1. Ann Harrison, 491-3696.

Roomate wanted: (male) to share furn apt in Allston (178 Brighton Ave.) 5 min drive from Harvard Sq. LR, DR, K, separate BRs. Rent \$50/mo. per person. Call Rhio, ST2-2465 after 6pm.

Give your old insufficiently loved & insufficiently needed icebox to a loving home. Ditto to toaster. Will pay if necessary. Write 14N-322.

Wanted: Girl to share lg furn apt w/3 other girls in Brookline. \$33.75/mo. (plus util). Call ext 781, Ann Morton.

Couple from France would like furn apt for Sept. & Oct. Please call Joan B. Galbraith, ext 2524.

Wanted: IRE Transactions on Information Theory. Vol. IT-6, No. 3, (Matched Filter Issue), June, 1960. Will pay \$4. Call M. Okajima, ext 5236 or 655.

Wanted: Responsible person to drive '60 Singer conv. to Colorado Springs o/a Aug. 22. F. J. Hale, ext 2264 or CO3-7128 (Acton).

Ride wanted to Chicago or Madison, Wisconsin 1st wk of Sept. Must arrive by Sept. 10th. Eileen, ext 2168.

Wanted: Automatic washing machine & elec clothes dryer. Tentler, 491-3149.

Wanted: Ride daily from Revere to MIT. Call Elaine, ext 726.

Ride wanted daily from Everett to MIT & return. Please call Carol, ext 3544.

Man wanted to share lovely 5-rm apt w/1 other man. Separate BR and use of entire house. K privileges and parking. All util incl. Brighton, near Lake St. car line. \$50/mo. AL4-3869 evgs.

Wanted: Viola, bow, and case. Lincoln ext 7604 or IV4-8932 evgs.

Wanted: Male rmmate (20-30) to share house in Cambridge. Lincoln ext 5747 for details.

Wanted: Ride to or from Newburyport; or rr station in Beverly, Salem, Lynn, or No. Station in Boston. MIT 9-5. Will pay. Call Mrs. Patton, ext 2838.

Visiting Lecturer in Architecture and his wife seek furn apt for fall term. Please call Mrs. Catalano, UN4-5529.

Wanted: Girl to share furn lg apt w/2 others as of Sept. 1. \$47/mo., 415 Beacon St. Call KE6-1866 evgs.

Wanted: 5 BR house for lg family to rent for academic yr or longer. Jack Larsen, ext 3465.

COLD CAUTION

Use of liquified gases in experiments around MIT has increased considerably in recent years. There are two major dangers you should watch out for if you handle or use any of this material.

First, the ultracold liquified gases--cryogenic fluids--will cause personal injury if they come in contact with your skin or eyes.

Also, the Dewar bottles--those large double-walled jugs the fluids are kept in--can explode if pressure is permitted to build up inside them. There's already been one accident like this at a project site. Fortunately, no one was hurt.

What happens most frequently is that ice plugs form in the neck of the vessel. As the fluids vaporize, the pressure inside mounts until an explosion occurs.

There are safeguards you can--and should--use. For one thing, the necks of the vessels should be rodded out regularly, especially when a fresh container is received and before and after each use.

Equally important, always use the special cap and rubber tubing provided with each container. These are designed to keep ice plugs from forming and provide a means of continual pressure venting.

MIT's experts on cryogenic fluids are Professor Samuel Collins of the Cryogenics Engineering Laboratory (Bldg. 41) and his assistant, Bob Cavileer. Both are available for consultation (Ext. 2215) on the safe handling and use of cryogenic fluids. Also, they are offering laboratory tours for groups of three or four persons. The lab supplies the cryogenic fluids used around MIT.

BACKYARD BARBECUE

The barbecue is usually a happy occasion, but it can become a nightmare. A year ago July 4, a Massachusetts family had a horrifying experience. The father, hurrying to finish a cookout in time to view a parade, squirted ethyl alcohol on glowing coals. Resulting flames burned his arms and enveloped his wife and three children standing nearby.

Flammable liquid is a barbecue's number one troublemaker, but there are other dangers. Fires have started from carelessness--leaving potholders on or near grills or discarding hot coals in cardboard boxes. Another dangerous practice is using the grill indoors. Burning charcoal gives off carbon monoxide (CO) gas. Outdoors CO diffuses harmlessly in the air, but in closed areas it can reach poisonous concentrations.

For safe barbecuing use either wood shavings or those specially-formulated fire starters--both liquid and solid--that won't flash or explode. Never gasoline, kerosene or lighter fluid! Also available are electrical fire starters. (Should you get one be sure it carries the Underwriters Laboratory, Inc. safety label.)

Grill equipment should include: a long wick for lighting the fire; tongs for adding fuel; a long fork to get potatoes from the coals; and a long-handled spatula for turning meat. Also, a pair of heavy glove type potholders are useful and a water spraying device should be near at hand.



Prof. Collins (left) and Bob Cavileer remove ice plug--just in time.

CAUTION

**THIS EQUIPMENT PRODUCES
HARMFUL VISIBLE LIGHT
WHEN ENERGIZED**

New caution sign for lasers.

Research involving optical masers--or lasers-- is growing rapidly at MIT. The Occupational Medical Service (Ext. 2596) is interested in keeping track of all these units as soon as they are acquired because the optical maser represents a potential hazard to the worker as well as bystanders.

The coherent light from the optical maser may be millions of times more intense than light from the sun. The extremely narrow optical maser beam is capable of cutting diamonds and punching holes through very hard steel. The eye is most vulnerable to energy from the optical maser. The lens system in the eye can focus the optical maser light onto the retina and produce a burn. The first and most obvious safety rule, then, is simply: Don't look into an optical maser beam.

Other safety measures include a well lighted room (to produce small pupils), a caution sign on the unit, and the use of a warning light or buzzer to show that it is energized. Shielding should be used where possible to prevent inadvertent exposure to the beam or its reflections.

WALLET SIZE LIFESAVERS

MIT employees are receiving two wallet size plasticized cards with their pay checks. These cards contain instructions for performing so-called "closed-chest heart massage" and "rescue breathing", for the revival of drowning, electric shock and asphyxiation victims. Keep them, they might help you save a life.

One note of caution. These cards make the techniques seem deceptively easy to perform. You really need a little practice first. The Safety Office has two practice dummies available. Why not take five minutes or so some day and have a "make sure" check out?

HIDDEN OBJECTS

"Look before you leap" seems apropos for those who unsuspectingly reach into drawers and come out with cuts and scratches from letter openers, razor blades, scissors, thumbtacks, etc.

A good rule to follow is to point all sharp objects away from the front of the drawer and keep small items in covered boxes.

FANS

MIT people are trying to keep cool this summer. Their answer--the circulating fan.

These fans which have stationary, rotating or swinging heads can present a serious hazard. For your protection--from blade contact and hair or clothing entanglement--there are fan guards available.

The guards come made of cotton mesh, perforated metal or wire lattice and will not interfere with air flow. If interested in purchasing a fan guard please call the Safety Office at MIT (Ext. 736; 5246).



Maryann Macleod (City Planning) applies a cotton mesh fan guard.