



Overlooking MIT from Earth Sciences (tallest Cambridge building), photographer Bob Lyon was on the top floor, 277 feet up.

## TOPS

Like the Green Center for Earth Sciences (see view from aloft), which was topped out last month, the United Fund has reached its peak. The goal set for MIT was \$91,000 and by Thanksgiving \$93,500 had been collected. Even more is expected to come -- putting the Institute far over its mark. To both campaign workers and donors -- congratulations.

## STORM WARNING

According to the "Old Farmer's Almanac," it's going to be a good winter: "... a real cold spell. Fuel bills swell. You'll perspire only by the fire."

On those mornings when snow starts to pile up, it's a good idea not to dial the Institute. School and work will probably keep, for our commitments are great, but to be sure, tune to station WHDH (850 kc) or WBZ (1030kc) for the no-school announcements between 6:30 and 8:30 a.m.

If snow falls during the day, it's business as usual unless official word comes through department or laboratory headquarters.

Efforts to get the scoop early or to telephone home put an impossible load on the switchboard, delaying important emergency calls. On bad days, say the telephone operators, all 84 outside lines are busy at once. That means about ten and one-half lines per girl. No matter what the weather, these intrepid ladies must get to MIT; says one, "by sled, if necessary."

## HELP

A large dog called Max was a present from MIT students to the oldest settlement house in the country, Neighborhood House, located behind the Institute on Moore Street. Also, through a fraternity service project last year, MIT students worked to renovate this ten-room building

during mid-term vacation. Working with them were Polaroid employees -- on their own time. Over the years, students have often participated in community service projects.

For the rest of MIT there's an opportunity to help, too. In Cambridge, sponsored by the Cambridge Community Services, are five settlement houses. All need people to assist in their programs. What MIT volunteers can do, most likely in their evenings, involves young people. Each house has many small groups of teen-agers who work together on projects, go on field trips, discuss topics which interest them, have parties, etc. These groups need volunteer leaders to help them develop ideas and to give direction to their activities.

Staff members of the different houses, of course, help volunteers. Families of MIT people, who might be available during the day, could assist projects involving young children, mothers' groups and Golden Age clubs.

Cambridge settlement houses are: Neighborhood House, Margaret Fuller House (71 Cherry St.), Cambridge Community Center (5 Callendar St.), East End Union (105 Spring St.) and the Christ Child Society (54 Kinnaird St.)

If anyone is interested in working with these groups, please call Frank Colcord (Assistant to Dr. Killian) or Alice Dedeyan on Ext. 3863.



### BUBBLES AND BEAMS

Myopic Mr. Magoo probably couldn't tell a fish tank from a breadbox, much less a bubble chamber used in the Lab for Nuclear Science. To prove the point, cartoonist Gil Turner recently sent this contribution to Prof. Irwin Pless (LNS). He'd heard about bubble chambers at the California company which makes special cameras for people doing research in this and other fields of experimental physics.

Briefly, a bubble chamber is used to study nuclear particles produced by accelerators. Beamed into the chamber, which is filled with liquid hydrogen, the particles leave tracks of tiny bubbles. Three cameras photograph these bubble paths, so that collisions and interactions of nuclear particles are recorded in a three-dimensional view. With incredible speed, each camera takes 10,800 pictures per hour. Later on the photos are scanned and interpreted.

Right now one of the biggest bubble chambers in the world is being built by LNS at the Cambridge Electron Accelerator, operated jointly by Harvard and MIT. A team from LNS designed and is constructing the forty-inch chamber. When operating, in 1964, it will contain 125 gallons of liquid hydrogen, pressure-pulsed by a piston driven by compressed helium. Housed in a vacuum box, the chamber will be contained in a 240-ton magnet called Colossus.

A remarkable feature of the whole apparatus is a "walking stand" which is used to support the magnet and enclosed bubble chamber. The "walkie crawlie," as it is called, permits the chamber to be positioned with precision in the accelerator beam.

### 'TIS THE SEASON

MIT's annual art sale will be held from December 10-20 in Hayden Gallery. Prints can be seen and purchased from 10 a.m. to 5 p.m., Monday through Friday, and on weekends from 1 to 5 p.m.



Miss Young (left) and Mrs. Williams

## MORE THAN A SCORE

The total of their years at MIT is 77. Retiring at the end of December, Helen Williams (Physics) and Elizabeth Young (Physical Plant) both remember when the Institute was a small community where they knew practically everyone. Most of the main buildings have gone up since they first came here; and, they recall, some have been torn down to make way for new.

Mrs. Williams, having worked in the advertising department of the Boston American, was asked by a friend to substitute for her at MIT for one month. That was in 1930. Since then she has served in the Department of Physics; as administrative secretary she works with faculty members and students alike, keeping track of all department doings. Just one of her charges is the handsome Compton Room, Physics Department lounge, in Building 26. After many years in Winchester, Mrs. Williams is now a resident of Medford. Her hobbies, she says, may be summed up as reading, travel-

ing and bridge. When she leaves MIT at the end of this month, she'll have time for them -- and she really never has before.

Although Elizabeth Young has been at the Institute since 1919, she has traveled to 35 states on vacations, not to mention trips to Central America. As secretary to Maj. Albert S. Smith, a former superintendent of B&P, and later to his son in the same position, Miss Young in 1925 was placed in charge of the Superintendent's Office. When in 1955 it divided to form Maintenance and Operation and New Construction sections, Miss Young, administrative assistant to C.M.F. Peterson, moved to 24-015 with the latter group. She was one of the incorporators of the Credit Union and treasurer for several years; also a member of its predecessor, the MIT Employees Mutual Benefit Association. She is retiring, after thirteen years, as treasurer of the Silver Club. After leaving the Institute, she'll eventually head north to Gilford, N.H. where she has a home, and plans -- in season -- to snowshoe, garden, swim and relax.

Photo by North Reading Transcript



Bob with buck

## GOOD HUNTING

Everyone in the Physical Plant pipe shop has had at least one dinner of venison this month. Bob Stedman, a plumber there, bagged one of the largest deer to be taken in New Hampshire in recent years. His prize was a six-point, 240-pound buck which he shot near Pittsburgh, N. H.

Having wounded the animal, he tracked him for half a mile before bringing him down. Then with his partner, Ed Needham, who is also in the pipe shop, Bob dragged the animal through ten inches of snow for four hours until they reached their truck. Later Ed, too, got a deer which weighed 190 pounds.

Bob Stedman is a resident of North Reading, Mass.

**FOR SALE ETC.**

Top qual. ski jackets: men's, women's, children's; all sizes, prints & solid colors, made in USA, \$12.75. Call Tom, Linc ext 7897 or 7808.

Easy washer, gd cond for 10 years age, \$20. Steve, ext 4083.

GE refrigerator, exc cond, about 9 cu ft, \$40. BE 2-0484.

Print, "River Village" by Dean Faussett, 41" x 29" incl frame. Call Ann, ext 3591, \$30.

Coldspot 19 cu ft chest type freezer; Philco refrigerator. VO 2-4758 after 6 pm.

Zenith 19" port TV, used 6 mo, perf cond, \$90. P. H. Lucie, ext 2828.

Westinghouse auto washing machine, gd cond, \$35; 4 new beige dinette chairs, perf, \$35; antique solid mahog buffet, \$20. B. Nichols, Linc ext 261.

A.O. Spencer binocular microscope with wide field eye pieces, \$575, Jolly, ext 5082.

Hoover upright vacuum cleaner, all attachments; Norelco stereo Continental 400 3-speed tape recorder, incl stereo microphone, 15 recorded tapes, 5 2400-ft Mylar tape blanks, \$240. 646-8291 after 6:30 pm.

Weston Masto II light meter, orig cost \$35, will sell for \$10 or best. Alice, ext 5918.

2 Gas Heaters, 30,000 & 40,000 BTU, auto temp controls, used 3 mo, like new, \$50 and \$75. 442-5437.

2 Electrovoice coax speakers, model SP-12B in Rockford encs, \$80. John, ext 5555.

Lady Grey double mattress & box spring, slightly used, \$95. 862-9340.

Complete radio ham station, 6 mo old; GPR-90 receiver, B-W-S100 Baker transmitter; Model 15-RTTY with all extras; reasonable. Radys, Linc ext 7630.

Brand new Royal Futura typewriter, portable; 21" TV set, \$35. Maria, ext 5513.

Arrens 6 hp snowblower, 1962 model in carton, \$275. Boh ext 3487.

Bolex 8 mm movie camera, B8SL, twin turret with telephoto lens, built in exposure meter, 4 mo old, \$75. Sondra Schlesinger, ext 3724.

GE refrigerator, \$20; Universal PC500 projector, \$20; Bancroft car bed & seat, \$5. Dong, ext 7812 Linc.

Colonial sofa, matching chair, \$150; 9 x 12 braided rug, \$65; all less than 2 yrs old, all 3 pieces for \$200. Call 527-2424.

Beautiful Nutria coat, full length, almost new, best offer. Herman Praddande, ext 5527 or 491-0839.

Gas refrigerator, \$15; Buick wheels, \$10 for 4. George, ext 4151.

Royal std typewriter, 10" high, magic margin, touch control, recently reconditioned, exc cond; lists for \$200, will sell \$100. Mark Porter, ext 2104 or UN 4-5575 after 5:30 pm.

Kodak Tourist 620 camera, fl gun, case. \$15. Remington "Quiet Model 1" port typewriter, \$20. Linc ext 7111 or 275-7022.

Women's clothing, size 10-12: formals, knits, suits, skirts, blouses, sweaters, dress@s. Also man's overcoat, raincoat, Harris tweed jacket, size 38-40. All very reasonable. Call MI 3-0094.

Car accessories: tripod jack; 5 gd tires, 670-15; 6 volt heavy duty battery, \$30. Call 491-0899 after 1 pm.

Man's, woman's Eng bikes, 3-speed, hand brake, gd cond, \$25 each. Nan, ext 2676 or UN 4-8978 eves.

Marker Longhorn turntbl with roller lever, ski binding, brand new. Lists for \$13.50, asking \$7.50. George, ext 4597.

Trimble bassinet, \$5. Linc ext 7710.

Harmon Kardon Citation IIIIX stereo tuner, \$165. LY 8-6392.

Silk organza wedding gown with Chantilly lace, 2 evening gowns, size 14. Call 254-3969.

Collapsible coach carriage, \$25; Car bed-carrriage, \$5; stroller, \$10; potty chair, \$1; bathinette, \$7; baby chair, \$2; playpen with pad, \$10. Call 969-6783.

RCA record player, easily convert to stereo; purchased for \$100, will sell for \$60 or best. Marilyn, ext 4136.

Free: mostly beagle puppies, 7 wks old, paper trained, very affectionate; 2 female, 3 male. Marilyn McKemney, Linc ext 7189.

Gibson guitar, brand new. Call 491-0008 after 7 pm.

Klipsch horn cabinet for 15" woofer & tweeter, best offer. Call 862-8690 after 6 pm.

Molitor ski boots, size 8-8 1/2, \$15. Ken, ext 749 or 935-0699.

King French horn, single F with case. Asking \$125. Charlie Bond, ext 3544.

Lionel train set on 4 x 8 table; cost over \$250, asking \$75. A. Berg, ext 2554.

Fireplace wood, \$3 per trunkload at MIT; \$15 for 1/2 cord at Rindge, N.H., \$3 delivery charge anywhere in Boston area. Ext 4815 or 4822.

Beagle puppies, 6 wks old, AKC reg, good Christmas presents. WE 3-6847.

Beds, modern lounge suite, kitchen furn, lamps, etc., new 9 months ago. Ext 2517 or 547-7812.

Free: 2 kittens, 10 wks old, one all black, one grey. Call Jeanne Bernier, Linc ext 483.

Webcor port stereo hi-fi. Ext 30-261 or 332-0143 eves.

Cocker spaniels, AKC registered, male, brown, \$50. K17-3728 after 5 pm.

Lady's opossum coat, small (size 9-12), exc cond. Call 899-4546.

Singer port elec sewing machine. Ext 3120 or IV 4-5478.

Speed Graphic 34, 135mm lens, film holders, flash, case, \$125. A. Bergles, ext 2242 or ST 2-8392 eves.

Gerard auto record changer, model RC 80M, \$10. Call CA 7-4977.

French poodle puppies, 5 lively males, ready for Christmas. Call EX 5-7265.

Coldspot 9 cu ft refrig, \$35. Ext. 5246.

9 cu ft refrigerator, freezer across top, \$50. MI 3-0146.

Stork-line crib, waxed birch teething rails 4 sides, \$15; Murray deluxe model 12" tricycle, red, \$8. Dan Baker, ext 4153.

Snow tires, 950-14, used 1 year. Mike, ext. 4031.

Portable dishwasher, used, very good cond. G. Stubbs, ext 5479 or 235-5351.

'63 Harley-Davidson Duo-Glide FLH King of the Highway motor cycle, fully equipped, perf cond, 2,500 mi; original cost \$1875, asking \$1290. Bill Ryan, ext 5002.

VW sedan, 1960 engine, \$300. Call 288-0121 between 6 and 8 pm.

'54 Packard 8 cyl hardtop, auto trans, R&H, exc tires, new battery, attractive & clean, gd mech, \$100, F. Galeener, ext 5510.

'54 Chevy, gd running cond, \$175 or best. Peter Soardo, ext 5523 or Grad House.

'55 Super 88 Olds, air cond, R&H, snow tires, reg tires, exc cond, \$325. Call BE 2-9736.

'55 Chrysler 2-dr hardtop, auto trans, R&H, motor in gd cond, \$175. Dick Porcaro, ext 5908.

'55 Pontiac, auto trans, R&H, gd tires, \$175. Praveen, ext 2739.

'56 Plymouth Savoy sedan, 6 cyl, 4-dr, R&H, new tires, motor in gd cond, needs some body work, \$150 or best. Susan Lindsley, ext 2569.

'56 Olds 4-dr hardtop, auto trans, R&H, \$400. Ext 2774 or FA 5-0635.

'57 Plymouth Belvedere, 40,000 mi, 4-dr, V-8, power brakes, auto trans, snow tires, \$350. Call Sue Nemser, ext 3109 or 491-2446.

'57 Jaguar sedan, MK VII. Gd. cond, \$600. Call Doris, ext 2210.

'57 Fiat 1100 in tip-top cond, \$200. CE 5-7794.

'57 Olds, 4-dr, hardtop, R&H, comp power, gd cond, \$535. Arthur Shavit, ext 5091.

'58 Olds 98, fully equipped, very gd cond, \$500 or best. Ext 5523 or 646-8378 after 5 pm.

'58 Chevrolet 2-dr sedan, V-8, powerglide, exc running cond. Linc ext 7631 or CO 3-7475 in Acton.

'58 Plymouth V-8, 4-dr sedan, auto trans, power steering, R&H, gd cond, newly painted, \$275 or best. Call evenings or weekends RE 4-3714.

'59 Chevy Impala, 2-dr hardtop, 4-speed floor shift, Positraction back axle, balanced & bored, Double Eagle Tires, exc cond, \$1000. Eden, ext 3781.

'59 VW sedan, R&H, ski rack, \$850, owner leaving country. Ext. 2593, B. Pedersen, or 536-0197.

'59 Plymouth 4-dr hardtop, auto trans, power steering, gd cond, must sell, need money for tuition, \$525. Bob, ext 30-447 or 333-0405.

'59 Rambler super 4-dr, std shift, R&H, snow tires, exc. cond, \$650. P. H. Lucie, ext 2828.

'61 Jaguar 3.8 sedan, std trans with overdrive, wire wheels, extra snow tires, 6 mo old Dunlop Road Speeds, R&H, \$2750. Bedford 275-0478.

'61 VW sedan, sun roof, ski racks, 31,000 mi, \$1500 or best. Ext 3374.

'61 VW sedan, sun roof, fully equipped, R&H, ext 3120 or IV 4-5478.

'61 Ford Galaxie conv, 8 cyl, auto trans, power steering, brakes, new tires, exc cond, \$1800 or best. Mrs. Simon, Linc ext 7486.

'61 Corvair Monza, must sell, low mileage, auto trans, top cond. Ext 30-298 or KE 6-1866 eves.

'62 TR-3, R&H, seat belts, tonneau cover, gd cond, best offer. Allen, ext 620.

'62 Rambler American, 2-dr, 6 cyl, exc. cond. Will accept reasonable offer. John, ext 5324 or 242-2684.

'63 Stingray coupe, 300 hp, 4 speed. Bob, Linc ext 5370.

'63 Buick Skylark, V-8, 200 hp, auto trans. Linc ext 7111 or 275-7022.

6-rm ranch, 1 1/2 baths, garage, many extras, pleasant neighborhood, West Peabody. \$16,950 for quick sale. Ext. 5180 or 535-0844, Miller.

Modern ranch for rent, Brucewood, West Acton, sunken LR, DR with glass doors to screened porch, K with dishwasher, 3 BR, 1 1/2 baths, part finished basement. Owner leaving country for 1 1/2 yrs, desires lease for this time. Available end of Dec., \$195/mo. Linc ext 7631 or CO 3-7475 in Acton. Also '58 Chevy 2-dr.

Deluxe 2 BR apt in Stoneham, air cond, all GE kit; may be sublet for less than reg rent for 6 mo or more. Call 438-4459.

5-rm apt in Belmont, basement & garage, near MTA, available Dec 1, \$120/mo. A. Mancini, 484-5271 eves.

4-rm apt, lg kit, heated, near Broadway in Somerville, \$84/mo. Call CO 6-0629 eves.

For sale or rent: 6-rm Cape, nice neighborhood, N. Reading, fenced-in yard, formal DR, family kit, 3 BR, LR with fireplace, many other features. Call 245-0195.

Apt: LR, DR, BR, K&B, partly furn, avail Jan 25, \$125/mo. 371 Harvard St., Camb. Call Nan, ext 2676 or UN 4-8978.

Lg apt: LR with fireplace, DR with built-in shelves, 2 BR, lg kit with pantry, mod bath, recently papered, exc cond. Near Mass Ave between Harv & Central Squares. \$125/mo unfurn; furn at add'l cost. K17-2408 morn or eve.

Apt to sublet Jan-Mar, 2 BR, 1 1/2 B, LR with fireplace, foyer, elec kit, elevator. No children or animals. \$275/mo. 33 Marlboro. Call Mrs. Rollins, KE 6-1780 before 10:30 am.

Apt in Somerville, 3 lg rms, heated, hw, 1st floor. \$75/mo. Call MI 3-7273.

Furn Apt, 1 BR, paneled LR and D area, mod kit, bath. Danish mod furn, Beacon St. near Cleveland Circle. Available Feb 1964. Call 277-4690.

Apt to sublet: entire top floor of carriage house near Linnaean St, LR 16 x 24, lg DR, 2 BR, kit & bath. Privacy & parking, avail Jan 1, \$150/mo. UN 4-8595.

Apt to sublet, Beacon near Fairfield, 3rd fl front, 2 rms, fireplace, k'ette, tiled bath. Married couple or 2 grad students, avail Jan 1. Supt, KE 6-2325 or tenant 266-2226.

House for rent, N Vermont ski country, sleeps 10, central heating, hw, on main highway. Call 275-7578 after 5:30 pm.

Unfurn apt in Belmont, 6 rms, available immediately. Call IV 4-5271 after 5 pm.

3 BR ranch, Randolph, approx \$14,000. Call 662-8609 after 6 pm.

3 BR ranch, zoned hw heat, garage, lg lot, Bedford, 5 min from Lincoln, available about Christmas for 18 mos. Linc ext 7111 or 275-7022.

Wanted: 3/4 size violin in reasonably gd cond. Francis Lee, ext 5887.

Wanted: old pair ski boots with no inner boot, size 9 1/2-10. Stan, ext 3204 or 262-3556.

Wanted: girl for roommate in 2 BR furn apt near MIT. Rosita, ext 5496.

Wanted: female roommate to share Cambridge apt. Pat Langley, ext 4275.

Wanted: garage space for VW beginning Jan 1, preferably in Cambridge. Call 864-9725 after 6 pm weekdays.

Wanted: used, full sized baby crib. Call 489-1068.

Wanted: person to care for my 2 children in my home one afternoon a week, near BU Bridge, \$1.25/hr. TR 6-8307.

Wanted: used etching press. Peter, ext 5181.

Mother with nursing and teaching exp will care for children of working mother days. Mrs. Helen Katibian, HU 2-7128.

Will type theses, reports, etc. Mrs. Schafer, 868-6475.

Wanted: typing: theses, reports, etc., expert work. Call Margaret Harrington, 245-4151.

Wanted: reliable woman or couple, wife not employed, to care for our 3 children in Lexington while we are overseas. Would consider couple with children. Car available, salary and maintenance. 862-8547.

Wanted: VW ski racks. Call 696-3557 eves.

Wanted: new home for 8 1/2 year old springer spaniel, spayed female, wonderful house pet. Linc ext 7111 or 275-7022.

Wanted: upright piano, inexpensive. Ralph Algazi, ext 5626.

Thesis typing. Marcia Devoe, LO 6-5580 eves.

Wanted: 26" ball on tire bike for boy, used. Call Mr. G. Stubbs, ext 5497 or 235-5351.

Will do typing, IBM electric. Call K17-1874 eves.

Wanted: ride to and from Medford to MIT. Alberta Myers, ext 2566.

Wanted: second hand piano. Ziggy, ext 2921 or MI 8-8047 eves.

Wanted: girl to share Commonwealth Ave. apt. \$60. Kathy Kane, ext 2424.