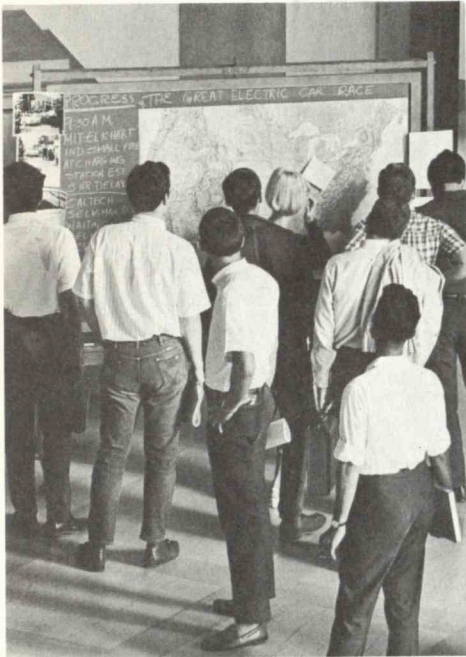


# TECH TALK TECH TALK TECH TALK TECH TALK

MASSACHUSETTS INSTITUTE OF TECHNOLOGY September 5, 1968



Race progress reports draw crowds in the Rogers Lobby...



...just as the beginning of the race drew a resounding cheer from an enthusiastic throng.

## THE GREAT WHAT?

After several postponements, signs were auspicious when the Great Electric Car Race finally began at noon on August 26. The weather was lovely; the crowd was large, curious and enthusiastic; balloons and banners danced in the air; and best of all, as the countdown reached zero, the MIT electric car glided silently across the starting line. A transcontinental telephone hook-up reported a similar hopeful beginning for Caltech.

Then things began going wrong. Both teams were beset with troubles. For a while it looked as if the race was the embodiment of Murphy's Law which states that "if something can go wrong, it will."

MIT ran into battery overheating problems even before the car reached Worcester. Altogether the car was towed nearly half the distance to Buffalo, resulting in a penalty of approximately 20 hours. Then the team discovered that cautious charging and packing the back seat battery pack in 150 pounds of ice cubes at each stop would keep the car purring along between charging stations. Even so, there was another halt in northern Indiana when one of the motor terminals caught fire.

Difficulties also followed the Caltech car. The first slowdown occurred in California when new shock absorbers were needed. Going downhill in first gear in western Arizona, the Caltech team burned out the motor and had a long, long wait while a new one was flown in and installed. Caltech had people problems too--one of the team had to be removed from the race when he suddenly came down with the mumps.

At TT press time, race central, "Machine Design Magazine" in Cleveland, reported that both teams were making good progress, with MIT approximately twice as far along as Caltech. Still, the original estimates of cross-country time in three to four days were too optimistic.





Regatta on the Charles.

### ACCENT ON YOUTH

That's what it's been at the Sailing Pavilion for the past couple of weeks. First it was a week-long junior symposium covering the fine points of racing--including practical experience--for teenagers. Then last week an even younger group came in for two days of racing for the Massachusetts Bay Midget Championship. Teams representing 17 yacht clubs from Manchester to Duxbury competed in the famed Tech dinghies on the Charles. Whimsical breezes slowed the racers but failed to dampen enthusiasm in the under-14 set.

When it was over, Cliff Chase of the Crow Point Sailing Club in Hingham retired with the Jack Wood Trophy, named for MIT's former sailing master. It was Cliff's third and last victory, for he will soon turn fourteen.

### FINE FAREWELL

Farewell parties are all too frequent affairs on campus. But it is unusual to have a good-bye party for someone who's never been on the payroll. That's what happened last week at the Instrumentation Lab when two dozen of her co-workers got together for a merry send-off to Nancy Cardelli.

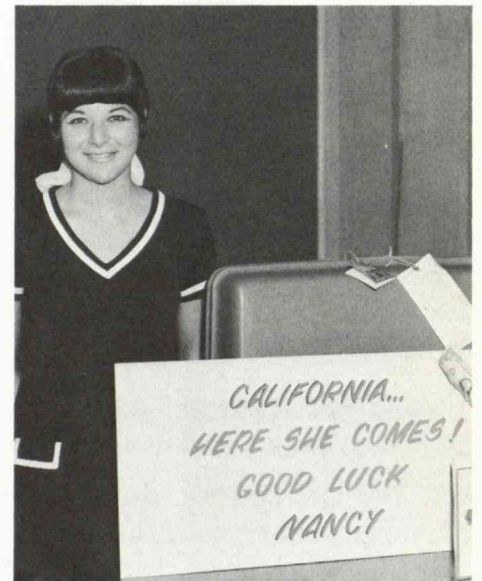
Nancy has been secretary to Captain Mark Jensen, Air Force representative at Instrumentation, and therefore an Air Force employee. Even so, she worked among and with Institute people, so her decision to leave received the same attention anyone else's would have.

After spending all of her life so far within 30 miles of Boston, Nancy's been bitten by the wanderlust and is heading for San Francisco just to see what life is like somewhere else. Along with her will go two new bright red suitcases presented by her friends at Instrumentation, many of who are eager to accept her invitation to "come see me on the West Coast."

### STUDY STATISTICS

During the past academic year, nearly 450 MITers were after-hours scholars on the Institute's Tuition Assistance Plan. At the close of the fiscal year, MIT's share of the expenses came to \$47,930, but resulted in the award or expectation of 26 degrees during calendar year 1968.

Now that a new school year is about to begin, anyone who's interested should investigate the benefits available under tuition assistance. Generally, the Institute will reimburse you 75% of the total cost of



Nancy with mementos of Boston--parking tickets included.



tuition and fees for all approved, work-related studies up to a maximum of \$400 per calendar year. The benefits extend to all full-time, permanent employees who complete courses with a grade of C or better.

The Personnel Office, now in new quarters in E 19-238, has brochures describing the program and application blanks. Don't know what to study, or where? They can help out on that too, with a collection of catalogues from evening schools in the area.

#### BLOOD COUNT

The Cambridge Red Cross has closed its blood bank books for the year ending June 30, and rendered statements to its depositors. During the year MIT contributed 1,942 pints--all at the campus bloodmobile in March. At the time the report was compiled, the Red Cross had provided 875 pints to 202 members of families in the community, with 84 cases still open.

Everyone is aware that the blood drought that began last winter has continued--sometimes critically--ever since. The Institute has offered the Cambridge Red Cross the use of du Pont Gymnasium on September 26 for a bloodmobile for the smaller industries in the area. Though no solicitation of MIT will be made, Institute donors will be welcome to participate in this drive.



Here's one puppy the SPCA doesn't worry about.

#### ELECTRONIC WOOFER

Floppy-eared puppies and advanced electronic robots seldom come to mind in the same thought--except at the Instrumentation Lab. Down on Cambridge Parkway "Old Yeller" careens through the corridors trying to make some sense of its world in the same way a live two-week-old puppy begins wobbling forth to learn about his.

Old Yeller is about to make his television debut on Walter Cronkite's "21st Century" September 15 in an episode called "The Weird World of Robots," a review of several investigations of artificial intelligence. The electronic dog was designed by engineer Richard Warren to investigate the possibility that a mixture of sensory inputs, when sorted, actually transmits better information than single stimuli do. Old Yeller--so called because of the paint job on part of its body--moves around with the aid of a sonar like device, a photoelectric cell and a bumper, all of which feed into a computer which sorts incoming information and prevents the puppy from running into the same object more than once.



FOR SALE, ETC.

- Hrdwd exec desk, used but fair cond, \$20. Call 484-1038 evgs.  
Kelvinator refrig, cross-top frzr, gd cond, \$50. X1151 or 666-8837.  
Westinghouse elec broiler w/std, gd cond, \$20; port sew mach, nds little work, \$20. Angelo, X461 Linc.
- Firestone 8.45x15 ww tires (4), used 100 mi, \$100. X6245.  
MirroCraft 12' alum boat, Johnson 5 1/2hp motor, Holsclaw trlr, clean, like new, \$350. Arther Newell, X461 Linc.
- Wh velvet applique wedding gown, jacket & train, 10, reas. Call 389-8164.  
Beaut new silk saris, \$25-30. Call 924-3707.  
Kenmore auto zig-zag sew mach, port, 9 mos old, \$65. X2412.  
Rek-o-kut N33H trntbl w/Grado arm, \$60; Fisher mod loo mono amp, \$80; Fisher 400CX preamp, \$150; Fisher FM tuner, \$80; Bozak spkr. Peter, X4724.  
Comb metal desk-file cab, closes to 42"x19"x18", exc cond, \$20. Call 861-0057.  
Wh enam sink, cab & Westinghouse dishwasher, work cond, first offer takes it. Cyros, X5831.
- Dbl bed, exc cond, \$75, will bargain. Joan, X6710.  
Refrig, \$45; Sealy posturpedic dbl bed, \$80; Hotpt washer, \$25. Call 648-5391.  
Twin beds (2), \$20 ea. Call 625-0098 evgs.  
Vespa '62 150cc Sportique, ds gr, gd cond, lugg racks, tools, spare cables, \$150 or best. Marty, X2341 or 491-1770 evgs.
- GE port auto dishwasher, best offer. Mrs. Fisher, 369-6794, Concord.  
Sgl bed, less than yr old w/box spr, exc cond, \$35. Kris, X2360.  
Crib & matt, \$25, match bureau, \$25; lamp, \$2; sterilizer & bottles, \$2; stroller, \$5; potty ch, \$1.50; assort baby & toddler clothes & equip. Call 862-6979.  
Singer fthrwrt port sew mach, \$75. Call 369-6974 Concord.  
Chests, \$4 ea; rose wl rug, 9x12, \$10; rf rack, \$15; lamps, \$2 ea; baby's clothes rack, \$2; lt br wiglet & fall; 12-rm Camb house. Call 547-1637.  
Air cond, 8,000 BTU. X1238 or 876-7736.  
Honda Scrambler '67 150cc w/helmet, v gd cond, best offer. X2542 or 876-6586.  
Fiberglass snipe 13492, gd cond, 2 sets sails, Proctor alum spar, trlr, cover, \$825. Call 729-3792.
- KLH 21 FM radio w/extra spkr, \$80. Ted Park, X4400.  
K tbl & chairs, \$50; sofabad, \$50; lounge ch, \$30; std lamp, \$15; side ch, \$6; 2 sm lamps, \$6 for both. Call 646-0272 evgs.  
Br new indestructible brown tweed carpet, \$85. Call 762-3175 Norwood.  
Lg mosaic tile top bar w/stools, \$40. John, X3312 or 734-3292.  
Siamese kittens, m & f, ready to go, \$25 ea; Russian Hermes typwr, baby, like new \$35. X5852 Linc or 369-5285, Concord.  
Yamaha 180cc, 4.8K, \$250. X1182 or 262-9183.  
BSO, 2 tickets to 12 Sat pm concerts, \$92. Jay, X2765 or 527-8456.  
St 4-drw file cab, bl w/red drws, nearly new, was \$110, asking \$50. X5549 Linc.  
Lady Grey matt, 6 mos old, exc cond, \$50 or best. Wanted: fin or unfin chest or match pr to span 9', not more than 33" high, 20" deep. Call 491-2238.  
Gerbils. Call 862-4443.  
Com built 12' wd boat, newly primed & recond, \$65 or best. X5589.  
Lafayette 25w stereo transistor amp, \$35; 95 Sams folders 10-700, reas; Frigidaire Imperial washer; Westinghouse dryer; pool table. Wayne, X7861 Linc.  
Bird cage & stand, \$6. Mary Ellen, X2917.  
Baby scale, \$3.50; Sunbeam frypan, \$8; 9x12 gold carpet w/pad, \$20. X2673.  
Teak DR tbl, closes to 6", extends to 110"x40", deeply oiled, gd cond, asking \$100; 60-pc Rogers Remembrance silver w/chest, \$50. VO 2-3728.  
GE 19" port TV, 7 yrs old, \$30 or best offer. Dave Duquette, X2412.  
AO Smith 30 gal glass lined auto gas ht wtr htr, 10 yr guar, used 1 1/2 yrs, \$50. Horace Smith, X4605.  
Westinghouse instant-on AM-FM radio, best offer. Rm 13-5134.  
Frigidaire refrig, cross-top frzr, \$50; Magic Chef gas range, 36", \$20. Call 643-6465 evgs.  
Englander fl size box spr, exc cond, \$20 or best. Call 527-0618.  
Bunk beds, fl sgl width, maple. X6681.  
Baldwin baby grand piano, perf cond, \$500. Call 527-6137.  
Walnut sofa, \$48, bureau, \$64, cof tbl, \$15, night std, \$30; step ladder high ch, \$10. X6865 or 491-2984 evgs.  
Stripping MGB for all parts, 1/2 price or less. Ted, 868-0371.  
Overstuffed br ch w/yellow slipcover, gd cond, \$15. Vicky, X6736 or 262-7025.  
Lg 16 cu ft refrig-frzr, frost free, 2-dr, exc cond, moving. Call 868-2338 evgs.  
Suzuki '66 80cc 3.7K w/helmet, gd cond, asking \$215, wl haggle. Eugene, 267-8364 evgs.  
V lg, heavy desk, 1 drw missing, \$20. Call 734-4682 evgs.  
Carrier 9,000 BTU air cond, 4 yrs old, \$100 or best; 9x12 green wl rug, 4 yrs old, was \$290, asking \$150. David Black, 868-8632.  
Free: angora kittens. X6891 or 438-2721.  
Mod 12l-pc set Japanese crystal, service for 12, \$50. X694 Linc.  
Relaz-a-cizor, like new, was \$230, best offer. Peggy, X175 Linc.  
Cutter, 36', w/sails & dinghy, sleeps 3-4, Universal 4 eng, galley, run water, gd cond. John, X1458.  
Rooftop lug carrier for VW, \$5. X695 Linc.
- Gas furnace brnr, used 2 season. W. Derry, X2776.  
Alum 24-ft exten ladder, \$15. X5621 or 935-3782.  
Kroehler royal blue uphol ch, br new, wrong color, was \$140, now \$80. X5003.  
Brown 5-pc sec sofa, \$60 or best, all or parts. Annette, X3750.  
Gd refrig, make offer. Call 333-0597.  
Free: parakeet w/cage & supplies to good home. Hurwitz, X7583 Linc.
- '56 DeSoto Firdome 2-tone 4-dr, V-8, gd body, finish & tires, exc run, \$60 strong. Len, 665-1659 evgs.  
'57 Chevy 4-dr, auto, 8 cyl, new tires, \$150. Call 536-6675 evgs.  
'59 Ford Galaxie 4-dr, R&H, snows, 2 gd tires, 52K, \$125. Halpern, X6780.  
'59 VW sunrf, gd cond, 27mpg still, \$350. AL, X4110 or 272-1886 evgs.  
'59 TR Tiger Cub 200cc, not running, \$50. X1171 or 277-0902.  
'60 Morris Minor, new convert top, rebuilt eng, dependable, \$125. X615 Linc.  
'61 VW bus. X7436 Linc.  
'62 Valiant, rebuilt trans, new valve job, new tires, exc cond, \$300. X7283 Linc.  
'62 Chrysler Newport, brns reg gas, 4-dr, p st & br, rebuilt trans, \$450 or best. Pete, X4635 or 324-8391 evgs.  
'62 Mercedes-Benz 190, \$1200. Call 489-0673.  
'62 MG Midget, R&H, tonneau, v gd cond, best offer. X2673 or 547-7944.  
'63 Alfa Romeo Spyder convert, 1600cc; 5-spd, R&H, Pirellis; exc cond, recent pistons, cyl, valves, \$1190; '65 Honda 305 SuperHawk, \$350. Dave, X6761.  
'63 Ford Falcon, auto, 53K, new tires, nds little work, \$450 or best. X6863.  
'64 Corvaair, std, 38K, R&H, exc mech cond, \$500. X5808 Linc or 868-2275.  
'64 Comet, dk green, 2-dr, sedan, exc cond, \$650 or best. Hans, X2412.  
'64 Corvette Stingray convert, 2 tope, 375hp, AM-FM R, p st, br, windows, 4-spd, 2 snows, GT mag wh, Dunlop nylon tires, \$2250. Nancy, X1153.  
'64 Corvaair, exc cond, 4-spd stick. Call 484-2735 evgs.  
'64 Galaxie convert 500 XL, lthr int, buckets, new mtd snows, exc cond, asking \$1500. X230 EDC.  
'65 Mustang, V-8, 225hp, 4-spd, rally pack, extras, \$1250. Michel, X3755.  
'65 Dodge 3/4 ton pickup, R&H, elec winch, exc cond, \$1000. X43 Bedford.  
'65 VW 1200 sunrf, 52K, new tires, AM-FM R, many extras, \$1000. X7202 Linc.  
'65 Mercedes Benz 220 SE, AM-FM R, stereo tape deck, \$2100. X2596.  
'65 T-bird, blue convert, exc cond, reas offer. X6893.  
'66 Alpine, exc cond, 19K, dk green, Chrysler warranty. Mike, 667-6592.  
'66 VW, lt green, exc cond, \$1050. Call 864-0185.  
'66 Corvaair Corsa, 140hp, 4-spd, 31K, \$1250. Call 522-0839 evgs.  
'66 VW, sand, \$1150. Bert, X5075 or 646-1836.  
'67 VW sunrf, red, 15K, exc cond, \$1450. Woods Hole (86) X271.  
'67 Volvo 1225, lt blue w/bl int, 5 Mich X, \$1895. X7511.  
'67 Fiat 1100, best offer; Camel llx9 umbrella tent, never used, \$50; 5 K chairs, newly uphol, \$10. Call 395-8751.  
'67 MGB-GT, exc cond, 12K, \$2500. Cherylan, X4733.  
'67 Galaxie 500 4-dr, V-8, p st, 5 new tires, exc cond. John, X7192 Linc.
- Ben HI, furn apt, LR, BR, K & B, \$135/mo. X4159 or 523-2391 evgs.  
Wat-Bel line, apt, 2 BR, LR, DR, study, gar, avail now, \$140/mo. Call 923-0178.  
Bri, studio apt, avail 12/68. Call 787-3776 evgs.  
Camb, 3-Rm apt, tile B & shower, overlook river, conv to MIT. Call 864-5817.  
Camb, 3 lg rms, furn, all utils. Call 547-2403 after 2 pm.

WANTED & MISC.

- Metal 4-drw file cab. Jerry, X695 Linc.  
Fiberglass or alum canoe. Jim Bier, X4358 or 868-3765.  
Rider to LA, lving Bos about 9/9, share driving & exp. Jo, X2395 or 731-0118.  
Sitter in East or Westgate for 18 mo old boy, 2 days/wk. Call 491-4003.  
Martin or Conn tenor or alto sax, any cond. DE 2-7152 evgs.  
Ride, vic Newton Ctr, Rte 9, to MIT, wl pay. Miss Levin, X2584.  
Daily ride, Highland Ave, Som to MIT, 9-5. X6940.  
Male rmmate for 7-rm apt to share w/2 others. Call 876-4225.  
Capable girl to share lg duplex, Camb resid neighborhood, many conv. Call 354-4247.  
Sitter, student wife w/baby okay, 12:30-6:30 2-3 days/wk, trans prov. X1192.  
Pr 6.50 or 7.00x13 snow tires. Hal, X2531 or 272-5835.  
Furn apt for couple & infant beg Oct for 6 wks. Call 489-0810.  
Left pt Dino dollar \$500; right pt of Dino dollar \$2500, wl split. Ed, X2474.  
Aquarium, 15 or 20 gal. Bob, X1442.  
Old sew mach, free or reas. Sal, 547-7944.  
Sm boat trlr, 500 lb capacity. X1174.  
Girl's 26" Raleigh bicycle. John Dario, X3584.  
Daily ride, Methuen to MIT, 8-5. Don, X3540.  
Daily ride, Salem, NH to MIT, 9-5. Nancy, X4791.  
Cement mixer, 1/2 or 1/3 bag size. Frank Coolidge, X3531.  
Singer sew mach, pref zig-zag, reas. Saran, X6720 or 266-4588.  
Haynes or Powell flute. Pete Powell, X5200 or 3148.  
Mature, exp babysitter available. Call 262-0790 evgs.  
Vacuum cleaner. John, X7513.