

TT Photo by Bob Lyon



First Row: Carlton, "Doc" Foster, Bialocki, Mrs. Gorman, Callahan. Second row: Plachowicz, Sinkiewicz, Lunt, Drobot, Lander. Back row: Cutler, Martinez, Webber. Missing: Diggs, Bevilacqua, Wetterberg.

## LOWELL GRADS

Graduates of Lowell Institute School are proud of it. Director F. L. Foster reports that one alumnus from the Class of 1905 travels from Florida yearly for Commencement. He's 87, and the first mate of a small charter boat.

More than one-third of those who received certificates on May 27 were MIT employees. The only woman was Mrs. Beverly Gorman, a secretary in Instrumentation. Mother of a six-year-old son, Beverly commutes from Derry, N.H. where her husband has his own business. At one time she was a supervisor at the Radio Shack and, in the course of her work, had to bid on electronic components. Deciding to learn more about them, she came here to work and to study at Lowell Institute School.

John J. Drobot, Jr., an electronic technician at Lincoln Lab, was awarded the Charles Francis Park Memorial Medal as the outstanding member of his class.

Two men, who are graduates of the Electrical Course, received certificates in the Mechanical Course this year: Borislav Bialocki, Magnet Lab engineering assistant; and technician George Diggs from Instrumentation.

In addition, the following grads were included in the Mechanical Course; Norman Cutler, IL draftsman; Stanley Plachowicz, IL draftsman; and Charles Webber, foreman, Heat & Vent (Physical Plant).

Recipients of certificates in the Electrical Course were Leopold Bevilacqua, IL technician; Dennis Callahan, Lincoln Lab technician; Richard A. Carlton, Lincoln technician; John Drobot, Jr.; Mrs. Gorman; Harvey Lander, LNS technician; Ralph Lunt, IL technician; Ricardo Martinez, EE stock clerk; John Sinkiewicz, Jr., and Leonard Wetterberg, both IL technicians.



Conly, Laurence, Broderick and Chambers

## OLD GANG OF OURS

Representing more than 600 years of service to MIT, 31 employees from Cambridge and Lincoln will retire at the end of this month; three have already left. Some real old-timers are among the campus group: James Broderick, Physical Plant pipefitter, has been at MIT for 46 years; George Broussard, a technical assistant in the Medical Department, for 42; Thomas Chambers, head porter for dormitories, 41 years; and Henry Laurence, EE facilities engineer, 41 years.

Other long-time MIT people are: William Conly, Physics instrument maker, who began work in 1937; Francis Conway, administrative assistant in Accounting, 1945; Mary Farrisee, Dining Service cashier, 1938; Ernest Fellows, DSR guard, 1943; Emanuel Foote, Physical Plant chauffeur, 1950; Laura Gutelius, Chemistry stock clerk, 1949; Edward Hartel, Mechanical Engineering mechanic, 1945; Edmund Lake, dormitory porter, 1930; Thomas Mersereau, LNS project mechanic, 1942; Lillian Moore, telephone operator, 1952; Gladys Nichols, Civil Engineering secretary, 1938; Samuel Palmer, Physical Plant janitor, 1942; Iwan Radonow, Dining Service employee, 1951; Percy Snow, LNS technician, 1945; and Barbara Thomas, administrative secretary, Physics, 1931.

Lincoln retirees include: George Ajootian, project technician, who came to the Lab in 1952; Earl Curran, engineering assistant, 1952; Stanley Evans, electrician, 1955; Gustav Floreen, foreman, 1947; Michael Gasparello, general foreman, 1944; Edgar Hannaford, driver, 1952; John Kimball, mechanic, 1955; Ernest MacDonald, guard, 1954; George MacFarlane, machinist, 1952; Joseph Madden, guard, 1955; Richard Palmer, guard, 1951; and Norris Wilson, mechanic, who has been here since 1952.

## COMMENCEMENT '65

Bundles of red leather diplomas were stacked in baskets and locked in the Registrar's fire-proof vault. Like the 1,274 graduates to receive them, they had come a long way. Always accompanied by an MIT guardian, the parchment enclosures went from North Shore to South for engraving, hand-lettering, in-between check-ups at Daggett, signing and finally, scoring, so they'd lie neatly in the cases.

On June 11 President Stratton presented each degree with his congratulations. The winners were an outstanding group. From the MIT Community: Dean Brown's son, Stanley, received his bachelor's degree in EE; so did class president Dick Tsien, nephew of Profs. S. Y. Lee (Mech. Eng.) and Y. T. Li (Aero. & Astro.)

On hand for Commencement and Alumni day activities were 50-year men of the Class of 1915 and the only coed of that year. Elected to honorary membership in the MIT Alumni Association: Miles P. Cowen, Superintendent of Building Services (Physical Plant) and Provost Charles H. Townes.

TT Photo by Bob Lyon



In the vault: Sally Haight &amp; Registrar Wells



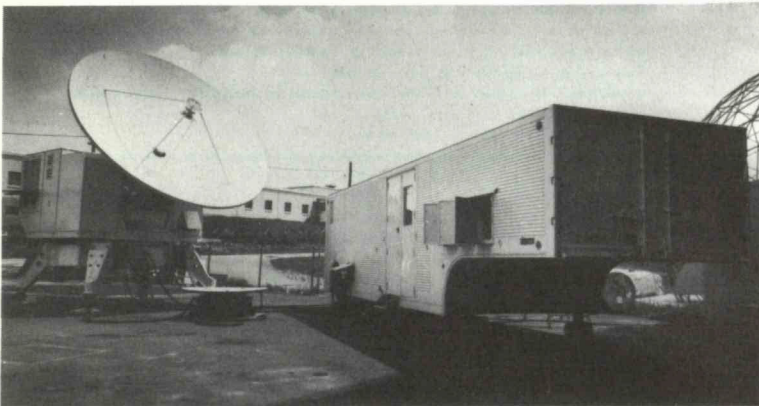
**WRIGHT NAME:** Old timers remember the inscription above; it was there when the tunnel started in '38. In '42 it was obscured by "temporary" addition of more office and research quarters. Those have gone, and workmen are giving the old wall a new look.  
LET'S GO



**RED CARPET:** Horace Ford, 9th MIT treasurer, (left) joined hundreds of people congratulating the Hokansons at a Kresge reception. Seated: Comptroller Cusick, retiree Hokanson, Treasurer Snyder.

There's a sequel to the story of Lincoln's LES and LCS satellites (June 2). Last week the Lab announced development of a compact, easily transportable communications ground terminal, another part of its Air Force-sponsored program in space communications.

On the road, the (L)incoln (E)xperimental (T)erminal "LET" is a two-part vehicle, a 30-foot semi-trailer van that pulls a separate antenna vehicle. Inside the van is a central electronics compartment and control room, electrical power generators, fuel for about 15 hours, air conditioning equipment and storage racks for antenna parts. The antenna vehicle, with detachable wheels, has an integrally-mounted equipment shelter housing radio transmitter and receivers. The LET can travel on the highway under its own power or be carried (complete with tractor) in a single large aircraft.



LET antenna vehicle (left) and electronics van

processing system includes a "SECO" sequential encoder/decoder, packaged in a five-inch drawer that replaces more than three 6-foot relay racks of conventional circuitry. It picks out weak signals otherwise indistinguishable from the noise in which they're immersed. An agile modulation system skips around among 32,768 different individual transmitted frequencies. These new techniques provide the LET with an unusually high degree of resistance to interference and permit many scattered ground terminals to use the same satellite at once.

Since May 7, LET has been talking with Lincoln's LES-2 satellite, its natural complement, but it isn't exclusive: LET is the first ground terminal designed to operate with all kinds of satellites, active and passive, even the moon. It is confidently expected that LET will help to lay the technical groundwork for military communications of the future.

The van has all manner of electronic wizardry. A new type of vocoder can handle speech signals from a microphone or from an ordinary telephone circuit; in effect, it throws away more than three-quarters of the input signal (for transmission efficiency), yet can reconstruct the original speech sounds with complete intelligibility and quality natural enough for a listener to recognize the speaker's voice.

The unique all-digital LET signal-

FOR SALE ETC.

Let me pick up and drive your new car in Britain, save on duties. Phil, ext 4937.
5, 20 x 13 ww tires with rim for '64 Spitfire; also seat belts, tonneau cover. 864-9780.
4 track stereo tape recorder, Voice of Music mod 740, new list \$270, asking \$175. George, ext 30258.
'63 Lambretta TV175, 7,000 mi, good cond, asking \$1300 or best offer. 566-4617 evgs.

'61 Ford ranch wagon, R&H, seat belts, new tires, good cond, \$900. Ext 353 Linc or 744-7309 Salem.
'62 TR-4, clean, new tires and battery, best offer. Bruce, ext 2337.
'62 classic Rambler 4-dr sedan, auto trans, 18,000 mi. ELA-4551.
'62 Pontiac LeMans conv, 32,000 mi, bucket seats, red, exc cond. Dave, ext 3969 or CY6-3295 evgs.