KILLIAN BECOMES SCIENCE CHIEF
STRATTON WILL HEAD INSTITUTE

Westgate Soon To Be Demolished;
New Athletic Field Planned In Area

The recent installation of large West Campus tennis court facilities and a ground-penetrating force at the north end of Bridges Athletic Field mark the beginning of a long-range program which will include the removal of Westgate and Westgate West. These two living units, now occupied by married students, will be removed by April 1, 1969, in order for an extension of the athletic fields, says Dean of Residence F. G. Fassett, Jr.

No New Assignments

No new assignments have been made to Westgate since July of this year, says Fassett, and its residents, in cooperation with the office of Student Residence, are now beginning to move within the units in order to concentrate the vacancies and expedite the removal of the buildings. The Westgate Council, headed by Gerald W. Caminer, has elected Gerald W. Caminer, as president, and Dean Fassett in controlling the problems of injuries which are involved.

New Athletic Fields Planned

After the removal of Westgate the land will be used largely for athletic fields, says Richard L. Balch, Director of the MIT Athletic Association. Plans showing the boundaries of individual fields or sites were approved by the Institute two years ago. The block of twelve teams courts has already been installed, but no money has been allocated for further work as yet, said Balch. Completion of the project is expected soon after the land has been cleared, however.

Although the removal of Westgate will benefit athletics at MIT, it also poses a problem. How can the Institute utilize these living units for recreation? When asked about the Institute's plans for future dormitory construction, Fassett said that the Institute, like the nation, is experiencing a housing crunch and that the new dormitories will be as close as possible to the present facilities. Fassett also stated that the Institute will not stand by and watch the housing situation deteriorate any further.

Strong MIT Soccer Team Tops Brown 2-1;
Light Tech Defense Stops Last Quarter Rally

Wednesday afternoon on Briggs Field, the MIT Soccer team once again proved why it is rated one of the best soccer teams in New England as it defeated a tough Brown team, 2-1. The first half was very close, and the scoreless tie continued into the second half. The Brown team, however, did not manage to control the ball and could not prevent the tight Brown defense. As the quarter progressed, however, the Engineers' attack began to click, and with ten minutes left in the game, Brown scored the first goal of the game. The second goal came late in the game, and with only ten minutes left, the Engineers scored their second goal, winning the match, 2-1.

Record Audience Hears Bohr
On Growth Of Classical Physics

Niels Bohr traced the development of classical physics through ten key experiments, Tuesday evening, and brought his overflow audience to the brink of Einsteinian relativity.

More than fifteen hundred persons jammed every corner of Kneiss Auditorium to hear the venerable Dane's first of six lectures on "The Philosophical Lesson of Atomic Physics," inaugurating the Kneiss Lectures. It was the largest crowd ever to fill Kneiss.

(Continued on page 2.)

1. Archimedean's static equilibrium experiments using weights and a pulley.
2. Galileo's "Leaning Tower of Pisa" experiment.
3. Vector components of velocity in a projectile shot from a cannon. ("The cannon," said Dr. Bohr, "is a very old-fashioned means of sending up a missile.")
4. Interaction of bodies—Huygen's experiment with a mass in a moving boat and a man on shore, each viewing a collision in a different frame of reference.
5. Kepler's Laws and the Newtonian explanation of them.
6. Centrifugal forces with a bucket on a string.
7. and 8. Oersted's and Faraday's experiments using weights and a pulley.
10. Relativity of time—clocks in different systems running at different rates. To an observer in the first system, the clocks in the second system run slower than his own. But, to the observer in the second, the clocks in the first run slower.
Niels Bohr's Gift

Professor Niels Bohr comes to the Institute not merely as a passing lecturer, but as a full member of the MIT academic community. Throughout November he will be living at 200 Memorial Drive and working in a Building Six office.

Aside from its being necessary for the preparation of his lecture, Professor Bohr's appearance here is both an interesting and enriching experience for all of us, and a very fine thing—fitting because Professor Bohr, though it may sometimes be overlooked, obviously belongs to the academic world. His role is not different from that of any other professor; to teach and to do research.

The great appeal of Professor Bohr, the quality which makes him an idol of his students and his colleagues is his fascination used by Dr. Niels Bohr in his lectures. Sometimes he will maintain an intense personal relationship with the students, and go about the campus, introducing himself as if he were a student. "My name is Bohr," he will say, looking the Charles River. Every time.

The system has been under development for several years. However, the "Voc-O-Port," the first commercially successful apparatus, has been on the market only a year. V-O-Port represents a new, sensitive microphone and strike units, and strikes up a conversation with students and faculty who will, for the most part, say, introducing himself as if he didn't expect anyone would ever have heard of him.

More Riverfront

Though the "back door" of the Institute is a snoopy conglomerate of factories and slums, its "front door" has always been the Charles. And, though we often gripe about the river's high specific gravity, its special blend of Newtonian and Einsteinian physics and physicists.

The great appeal of Professor Bohr, the quality which makes him an idol of his students and his colleagues is his fascination.

The first example of using symmetrical argument came in here is that if we had bodies released at the same time, they would fall (at the same rate) . . . and now, declarer, the bounder, leads the diamond queen with the king, ruffs another heart.

The traditional moral can be drawn from a set of simple cases. If declarer discards three spades in the dummy, followed by a diamond ruff in declarer's hand. This sequence has reduced all holdings to three cards, which West has been implausibly following out. South is left with the A J 10, the lead is ruffed, and ruffs another heart, reenters the dummy with the club king, and ruffs another heart.

The ace of clubs is played, a small club is trumped in declarer's hand. The trick is led away from the dummy with the club king, and ruffs another heart. The act of clubs is played, a small club is trumped in declarer's hand, followed by a diamond ruff in declarer's hand. This sequence has reduced all holdings to three cards, which West has been implausibly following out. South is left with the A J 10, the lead is ruffed, and ruffs another heart, reenters the dummy with the club king, and ruffs another heart.

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But, Dr. Bohr said, "We will see now, declarer, that the system was completely deterministic. If bodies released at the same time, they would fall (at the same rate) . . . and now, declarer, the bounder, leads the diamond queen with the king, ruffs another heart.

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Great catch... *University* Glen Shirt

in exclusive new Arrow Cambridge Cloth

Your favorite button-down, the Arrow Glen, is now styled in traditional college fashion. It's offered in feather-soft Arrow Cambridge Cloth—a new partner in popularity to the classic Oxford. Collar buttons down, front and center back. Full length box-pleat in back. In solids, checks and pin stripes.

"Sanforized" labeled. From $5.00. Tie $2.50.

**ARROW**

Shirts and Ties

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**BELL TELEPHONE SYSTEM**

Opportunities for Majors in

*Engineering* + *Physical Sciences*

**BELL TELEPHONE LABORATORIES**

Research and development in electrical communications, electronics, microwaves, acoustics, switching systems for the Bell System, and national defense projects.

**OPERATING TELEPHONE COMPANIES (Nov. 14, 15 only)**

Engineering, construction, operation and maintenance of communication facilities. The following companies will be represented on the campus:

- New England Telephone and Telegraph Company
- The Bell Telephone Company of Pennsylvania
- New York Telephone Company
- The Southern New England Telephone Company
- American Telephone and Telegraph Company
- Long Lines Department

Applicants will be interviewed for other regional operating companies.

**WESTERN ELECTRIC COMPANY (Nov. 14, 15 only)**

Manufacturing, purchasing, installation and distribution of equipment and supplies for the Bell System and national defense projects.

**SANDIA CORPORATION**

Research and development in electronics, mechanics, physics, and mathematics in nuclear weapon ordnance.

Please make arrangements for interviews through your Placement Office.

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**R.W. Hagopian Wins Traffic Fine Appeal; Pleads His Own Case**

Robert W. Hagopian '58, accused of speeding, took his case to Superior Court and won, following a jury trial last week.

Hagopian, a Course VIII senior from Westrum, handled his own defense. To the arresting officer's testimony that he had seen Hagopian cut to the left of a row of stopped cars at an excessive speed, Hagopian answered that the arresting officer, an automobile salesperson, was because the Mercedes-Benz 190SL, which he was driving, was in first gear, with the engine revving, and there was no way he could have actually seen him for the required five hundred yards. This, Hagopian said, was because the Mercedes-Benz 190SL, which he was driving, is too low to be visible.

Hagopian further argued that the arresting officer must have based his arrest solely on the sound of the car. Since Hagopian said, the "190SL" was in first gear, with the engine at 3,000 R.P.M., it would be impossible for the arresting officer to have heard the car's speed above the engine's noise.

The alleged violation took place on Newton, July 20. Hagopian pleaded not guilty in Third District Court, August 15, and was found guilty in the same court, August 22, and fined $50—a fine which he appealed to Superior Court.

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**Westgate Goes; Sod Moves In**

*Spring Hill, Sod Provides,*

*Building in Westgate and many of its kind will be razed soon after the completion of athletic facilities at MIT.*

*Photo by Ron Pellar*

This building in Westgate and many of its kind will be razed soon after the completion of athletic facilities at MIT.

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**Charter Flight To Europe Organizes Second Short Trip**

Reacting to a tremendous response from the transformed contingent of the MIT community, the "MIT Charter Flight to Europe" organization has announced a second shorter trip. The dates and expenses for this flight are designed to fit the vacation period and budget of the would-be travelers. Allowing five weeks in Europe, it will leave New York on June 15, and return from Paris on July 19. Because this is an off-season period for the airlines, the share of expenses per passenger will be only $280 for the round trip.

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**Hundra Respond**

Already more than 250 people have indicated interest in the flight by requesting information and application papers from the manager of the group, Stuart Meft '50, or by contacting 30 Alice St., Revere, or at Renvo 8-0773.

The organization, in order to comply with laws governing such school charter groups, presented its constitution and by-laws to the Activities Council on Wednesday, October 20, and received provisional Class "B" status.
Macaya, Penna Beaver Scorers

SOCCER
(Continued from page 1) Tech continued to dominate play as the forward and halfback lines played together beautifully and kept the ball away from Brown much of the time. Further Beaver scoring was assisted only by many good saves by the visiting goalkeeper. Midway through the fourth quarter, Tech concentrated on a relaunching ball and placed in the corner of the goal beyond the goalie's reach to increase the "Beavers" lead. At this point, Brown pulled up its halfback line in a desperate attempt to score and with only a minute remaining, the visiting center forward scored on a fast break, to narrow the lead to one goal.

The defense tightened and the remainder of the game was played up to midfield. The Beavers' teamwork was particularly sharp in this and has steadily improved as the season has progressed. This will be a strong factor when the Techmen meet a tough Dartmouth squad tomorrow at 1:30 p.m. on Briggs Field and end the regular season play.

Slaveck in Sloop Championship; Defeats Six In New London Races

Varsity sailors Jerry Slawski '59 walked off with the first annual New England sloop championship last Saturday. Sailed at New London in the 24 feet Jones of the Coast Guard Academy, crew with crows Jan Norbury '58, Bob Blosser '60, and Charlie Baker '59, downed six other skippers to win the title.

MIT and Brown were the only colleges not to total out at least one; the other teams lost precious points in the close racing. The races, held on the Thames River at the U. S. Coast Guard Academy, were won by the visiting goaler. Midway through the game, Brown pulled up its halfback line with many fine passes and showed relentless hustle at midfield to make the difference in the game. Dartmouth Next.

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Sikorsky Aircraft

A SIKORSKY AIRCRAFT REPRESENTATIVE IS COMING IN PERSON TO TELL YOU HOW TO HITCH YOUR ENGINEERING FUTURE TO A HELICOPTER. MEET REPRESENTATIVE AT YOUR PLACEMENT OFFICE ON THURSDAY, NOVEMBER 21ST AND FRIDAY, NOVEMBER 22ND.

Hiring the right people is important to our continuing growth. Our technical managers have backgrounds in a variety of fields but are united in a desire to attract the best and brightest graduates... engineers, scientists, and technicians from schools throughout the country.

Each of Du Pont's operating departments has its own training program because each has special requirements. But both formal and informal programs are tailored to the interests and needs of the individual.

Career opportunities at Du Pont are greater today than ever before because of the Company's continued growth. In 1937, Du Pont's sales were at the $2 billion level. Four new plants were being built. New research programs were being launched, and new products were moving into the production and marketing stages. All of these developments tend to broaden opportunities at Du Pont for the young scientist and engineer.

ALL KINDS OF ENGINEERS

Students with chemical engineering and chemistry degrees are needed, of course. But the opportunity is equally great for students majoring in many other fields. And the type of work for these men varies greatly. Among other things, Mechanical engineers work in research, development, name the subject that interests you in a letter to Du Pont, 2094-B Nemours Building, Wilmington 98, Del.
Grid Finals Begin Sunday

The Athletic Association has announced the schedule for the second robin intramural football finals which begin this weekend. Opponents within each division were arbitrarily selected for these finals, in which each league champion will play every other league leader in order to select a division champion. All games will be played at two o'clock on either field two or field four. The schedule is published at the end of the article.

Bets vs. Delta
Beta Theta Pi and Delta Tau Delta, traversed upon during regular league this season, meet this Sunday in a game that should be marked by outstanding defensive play. The Betas boast the better offense, however, and should manage to dominate the game. The Delta rugged defense, which conceded for their 2-0 victory over Theta Chi, is anchored by all star linebacker Joe Thorne '58. Thorne could be instrumental in stopping the passing punch of Bob Creme '59 to all star Warren Goodnow '58. However, all star back John Russell '59, supported by the supporting Beta line, should account for most of the afternoon's ground gains and set up Beta turnovers. The success of the Delta defense will depend on all star back Dan Holland's ability to find his ends, particularly Dan Michaels '60, through the tight Beta pass defense.

S.A.E. vs. Phi
The second game in division A this Sunday pits last year's champions, Sigma Alpha Epsilon, against Phi Gamma Delta, which should prove to be the outstanding game of the weekend. The powerful S.A.E. squad that has compiled a streak of twenty-six unscored upon during regular league this season, meet this Sunday in a robin intramural football finals which the Fijis will attempt to crack the S.A.E. defense, which has suffered only Dan Michaels '60 and Hal Smith '57. The outcome of this game, however, will depend on the extent to which the Fijis can crack Romanus.

Division B
TEP vs. Phi Mu Delta
The first game in Division B on Saturday will pit Tau Epsilon Phi against Phi Mu Delta. Both teams will rely heavily on their passing attacks. The T.E.P.'s aerials will be thrown by Elliot Finneman '58 to all star end Marty Goldin '58 and Dick Park '56. Defensive standout should be Dick Ross '58, effective guard and defensive end. The Phi Mu Delta passers will probably go from Joe O'Connell '60 to Lenney Eng '60. Their defense is anchored by Al Shrumm '58.

Baker vs. 5:15
Baker House takes on the 5:15 Club in Saturday's second game. The 5:15 Club, opened by all stars Jack Fogelian '59, will find a tough opponent in the Baker House eight. Baker, protected by one of the finest offensive lines of the week, will rely heavily on their passing attack, led by quarterback Walt Humann '59. Humann, even without the services of Pete Hohorst, has two able receivers in Jack Fogelian '59 and halfback Bob Yeomans '58. Yet, this combination has never met with such obstacles as John Irvin '58, Borer Blackhart '57, and Ed Pollock '56, the formidable T.E.P. forward wall. The Fijis will attempt to crack the S.A.E. defense, which has suffered only Dick Ross '58, effective guard and defensive end. The Phi Mu Delta passers will probably go from Joe O'Connell '60 to Lenney Eng '60.
Harriers Victorious; Engineer Frosh And Varsity Defeat Tufts

Fielding a complete squad for the first time this season, the MIT cross varsity teams defeated Tufts Wednesday 26-31 at the latter's home course. Superior depth spelled victory for the Beavers, who won their first meet of the season.

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The course, although beginning and ending on grass, was mostly on pavement throughout its approximate four-mile length.

Frosh runner Brian White led the pointings to victory, as he won by a single second in 12:46. Also scoring were Herb Wegener, Bob Hurd, Herb Grieves, and Larry Coon.

Among the outstanding runners will be the other two largest-selling filter brands. Get Viceroy! Get 20,000 filter traps, for smoother taste!