National Research Laboratories Utilize High Vacuum Processes

Edgerton Elected ToEta Kappa Nu Professor Edgerton, it was announced last week, has been elected to membership in Eta Kappa Nu, an honorary electrical engineering society. Professor Edgerton is familiar to all Technology undergraduates and to Florida magazine, close to 30% of Florida's housing units are now being tested.

M.S. Department Appoints Six Master Sergeants The Military Science Department has announced the latest list of men promoted to cadet non-commissioned officers. Appointed as Cadet Master Sergeants are: Joseph R. Bond, Robert B. Alonso, Robert R. Anderson, Robert B. Asher, Stephen A. Chamberlain, Robert L. MacCallum, Eugene A. Goldberg, and William J. Malm.

T.B. Seal Sales Up; Tech Men Thanked Cambridge Tuberculosis and Health Association extended thanks to Technology students this week for their aid in the Christmas Seal Campaign, from which the association draws 90% of its annual funds. The organization has been divided into six sections. Each section of the building will be the second since the organization was established.

Estimate Acoustics The goal in both instances is to predict acoustical properties of an auditorium as accurately as possible. Another large item is the expense of rehabilitating the patients after the fire. Thus a beam of light is made to pass through a room, and the light shows what would happen to the people in the room if they were there. At the same time, such an "optical analysis," they say, tells them exactly where the light would go.

Late Story: Two Vi Men Win Rhodes Scholarships Herbert B. Benson and Eugenie B. Skulitzoff, both in their final year of graduate study at M.I.T., were announced yesterday, the scholars who will be awarded the Rhodes scholarships to the United States. Of the scholarships given in New England this year, four were given to Yale men, three to Dartmouth, and two each to Harvard and MIT.

The doors of the Institute will be thrown open to the general public on Saturday, May 6, 16th Open House. These plans were announced last Friday at the first general meeting of the Open House committee.

Fire Drills Planned For Dormitories Grad Home Empty in Three Minutes; Dorms Will Be Next In view of the increasing number of students living in other school buildings and in an effort to increase the safety of the students, a fire drill has been scheduled this week. It is planned that the Graduate House, Mr. Dondero, from his office and the date of construction, Fire Safety for 22 Special precautions have been taken as an experimental building.

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IF THIS BE BIAS, MAKE THE MOST OF IT

Word has reached us that there is a strong impression among fraternity men that The Tech's editorial policy is anti-fraternity. The basis for this idea seems to be that our editorials appear to suggest that the fraternities are organizations, and to reject the concept of organization's sake. Within the framework of these considerations, no one would contest the apparent validity of the first statement. As for the second, it is evident that the changes, when balanced against the obvious gains of the fraternities, are not so obvious as might be expected. Neither of these suggestions, however, have any intrinsic anti-fraternity elements.

We are guided by two postulates in our attitudes toward the principle of fraternalism, 1) the interests and welfare of the student body as a whole is more important than the interests of the fraternities as organizations, and 2) fraternities are worth while only in so far as they provide certain benefits and advantages to their members. The first postulate is simply an expression of the good, old democratic ideal of majority rule, and the second reemphasizes the meaning of the concept of organization for an organization's sake. Within the framework of these two axioms, we believe that fraternities can play an important part in the life of the Institute. Indeed, the statement is so obviously true that it seems presumptuous for us to make it.

Now, nobody supposes that adoption of the two suggestions will be easy; any change is difficult to a degree, if only because of the inertia that always overpowers any project of reform. But the system of housing the fraternities on this side of the river has all kinds of snags that will have to be ironed out. The thing to be considered, however, are the changes, when balanced against the obstacles that must be overcome, will bring benefits to the students and the Institute that are worth the effort.

Here is the point at which our opinion becomes debatable; we do not mean to say that there is anything wrong with the fraternities in the way they now exist. As long as the rush system or moving the fraternities is a matter of getting Techmen to live in a common college environment that we know of has working before then the system is worth the effort. Many fraternities fear that should rush-week be adopted, there will be a relatively poor turnout for extra-curricular activities and school events. The statement is so obvious to those who have been at Technology for nearly a year, and 2) accept the administration's proposal that they move into houses that are already occupied, instead of being built for them. Of course, neither of these suggestions, however, have any intrinsic anti-fraternity elements.

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Low Temperature
(Continued from Page 1)
By using the low temperature of liquid air to lower the vapor pressure of water, Professor Collins caused water, which was partly frozen and containing bits of floating ice, to boil.

The next lecture of this series will be given on Monday, January 13. The topic will be "Modern Ships for the High Seas." The lecturer will be Admiral Edward S. Osborn, LL.D., Editor, Professor of Naval Construction and head of the department of naval architecture and marine engineering.

Placement Lecture
"You and Your Opportunity" will be discussed by Mr. T. A. Boyd, General Motors Research Laboratories consultant, today, in Rockwell Cage. Placement students, whose classes have been cancelled by the Faculty, may attend. Any other students who are free at that hour are welcome to attend.

FRIDAY, DECEMBER 16
Technology Matrons. Christmas Teat. The Choral Group of Matrons and Dames will present a program of Christmas music. Husbands are invited. The Faculty's Room, 3:30 to 5:30 p.m.
Biological Department. Colloquium: "Considerations of the Mechanism and Kinetics of the Interaction of Thrombin and Fibrinogen." Dr. David F. Waugh and Betty J. Lightstone. Room 10-275, 4:00 p.m.
Physics Department. Colloquium: "Nuclear Reactions and Nuclear Reactions." Dr. Victor F. Weisskopf. Room 3-120, 4:00 p.m.
Staff Players of M.I.T. Tryouts for March production, "Down in the Valley," and another selection to be chosen later. Emma Rogers Room, 4:30 p.m.

SATURDAY, DECEMBER 17
Chees Club. Final playoffs for team, and policy plan meeting. 5:15 Club Room, Walker Memorial, 5:00 p.m.

MONDAY, DECEMBER 19
American Institute of Electrical Engineers—Institute of Radio Engineers. Student Chapter. Snicker. 5:15 Club Room, Walker Memorial, 7:00 p.m.

TUESDAY, DECEMBER 20
Technology Matrons. The Bridge Group. Christmas Party. Emma Rogers Room, 1:00 p.m.

CALENDAR OF EVENTS
The Calendar will not be published for the next three weeks, December 18 to January 10. Material for the Calendar, January 11-17, is due in the Office of the Editor, Room 7-204, not later than noon on Thursday, January 6.

Wednesday, December 14
Electrical Engineering Department. Staff Colloquium: "Laboratory for Institute Research." Dr. Arthur R. van Kopp, Room 10-275, 4:00 p.m.
Electrical Engineering Department. Staff Colloquium: "Current Flow in Gas Ignition Stages." Dr. Reinhardt Schulmann, Jr., Room 5-204, 4:00 p.m.
Catholic Club. "Catholic Influence in Modern Affairs." Reverend Walter H. Shearer, São Paulo, Brazil, Room 28-390, 5:00 p.m.
American Society of Civil Engineers. Student Chapter. Dinner meeting: "Opportunities for Civil Engineers in the Construction Industry." Alfred T. Ginnest, Executive Vice President, W. J. Barney Corp.
Campus Rooms, Graduate Houses, 6:15 p.m.
American Institute of Chemical Engineers. "Textile Technology—the Chemical Engineering Approach." Professor Edward B. Schrader, Room 6-130, 7:15 p.m.

Thursday, December 15
Faculty Club. Luncheon meeting: "Foreign Policy and the Republican Party." Senator Henry Cabot Lodge, Jr., Room 10-200, 12:00 noon.
Civil and Mechanical Engineering Department. Colloquium. Seminar: "A Vital Part of Civil Engineering." Professor Ralph Ellin, Room 4-136, 4:00 p.m.

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YOU'LL BE GLAD TOMORROW—
YOU SMOKED PHILIP MORRIS TODAY!
Bridge Club Tops Harvard
In Team-Of-Four Contest.

Coming from behind on the final set of hands, the M.I.T. Bridge Club defeated Harvard in a team-of-four match held at the New Down last Thursday evening. After Harvard had built up a lead of 1560 points on the first three rounds, the Tech team swept the final round to win by 1560 points. Other team-of-four matches are planned for the near future.

The Beaver Banks

by Lee Sartori

WHAT ABOUT TECH'S-A-POPPIN?

We would like to register a dissent against the criticism appearing in the editorial column last Friday, which expressed the opinion that Tech's-a-Poppin ought to be dropped from the Technology calendar. In our opinion, Tech's-a-Poppin is a worthwhile institution and deserves to be saved.

Admittedly, Tech's-a-Poppin is not perfect. The conduct of the dance contest could certainly be improved to a point where less friends of the committee get to be finalists. Moreover, the Hex-a-poppin show, the weak part of the program for the past two years, could be replaced by a more entertaining and better-planned endeavor. However, the argument that Tech's-a-Poppin ought to be scrapped because most of the athletic contests were lost this year does not seem to us very logical.

It is true that Engineer squad came out on the shoes end of the score in four of the six events in the abbreviated schedule, including the "maker" basketball and hockey games. Moreover, with the possible exception of Harvard in hockey, none of the weekend's opponents can by any stretch of the imagination be considered as "out of our class." R. U., for example, beat us in basketball by 20 points, but over the last decade basketball relations between the two schools have been fairly even terms. (Last year, B.U. won the T.P. game, but the Engineers regained it last year.)

The argument that Tech's-a-Poppin ought to be dropped because the weak part of the program for the past two years, could be replaced by a more entertaining and better-planned endeavor is not very logical. Moreover, the Hex-a-poppin show, the weak part of the program for the past two years, could be replaced by a more entertaining and better-planned endeavor. However, the argument that Tech's-a-Poppin ought to be scrapped because most of the athletic contests were lost this year does not seem to us very logical.

The argument that Tech's-a-Poppin has not caught on with the student body is refuted by the large attendance at the recent "Almost All Events." In fact, we have noticed an increase in the number of students who are now interested in attending the "Almost All Events." Moreover, the Hex-a-poppin show, the weak part of the program for the past two years, could be replaced by a more entertaining and better-planned endeavor.

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Our concern is with the need for a more entertaining and better-planned endeavor. Moreover, the Hex-a-poppin show, the weak part of the program for the past two years, could be replaced by a more entertaining and better-planned endeavor. However, the argument that Tech's-a-Poppin ought to be scrapped because most of the athletic contests were lost this year does not seem to us very logical.

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Squash Team Bowls To Wesleyan, 6-3

The Squash team showed its second loss of the season last Saturday afternoon, bowing to Wesleyan on the home courts. The final score was 6-3 in favor of the Cardinals.

The summary:
Hanks (W) defeated Zaytsoff, 3-11, 13-11, 4-11, 11-9; Manes (W) defeated Cope, 11-9, 11-9, 11-0; Goldsmith (W) defeated Marks, 11-9, 11-0, 11-8; Smith (W) defeated Williams, 11-9, 11-0. Wesleyan: 1, 2, 3, 4, 5, 6.

Fire Drills

(Continued from Page 1)
Sprinklers located in the building two automatic high pressure water guns have been mounted atop Building 24 and directed down onto the roof of the barracks in the event of a fire of any great size.

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Beaver Barks
(Continued from Page 4)

at the Armory are evidently inadequate. The crowds both at the basketball and hockey games seemed to enjoy themselves, and cheered themselves hoarse despite the fact that both the Beaver five and six were trailing all the way. We haven't heard too many people suggesting that Harvard abandon football, despite the notable lack of success achieved by the Crimson grid forces last fall. And it seems to us that, as a social affair, T.P. fills a valuable spot in Tech's social calendar.

A few suggestions:
So, instead of a match for burning up Tech's-A-Poppin plans, we might offer the committee the following suggestions: (1) clean up the conduct of beauty contests, making an effort to obtain some famous personalities to take part in the judging (like Dahl, the cartoonist, who supplied a lot of color two years ago); (2) replace the Hex-a-poppin show with a more professional enterprise, and (3) replace Harvard as a hockey opponent with a team like, say, Northeastern, which is more in our class but definitely not in the pushover category.

M. S. Promotions
(Continued from Page 1)

In some places, they found, the sound from the stage reaches the audience on the auditorium floor directly. In others, sound bounces off from the rear wall.

Acoustics
(Continued from Page 1)

The other study, which involves measuring actual sound waves in a simple plywood auditorium model, is just getting under way. In this case a much larger model is required, but the resulting measurements may be easier, faster, and more complete.

High Pitched Sound

This "sound analysis" system is based on the fact that a high-pitched sound will behave in a small model just as a normally pitched sound will behave in the full-size prototype. In this case the model can be very simple—and thus inexpensive—while still giving all needed information.

These two systems are both recent projects of students in a graduate course entitled Architectural Acoustics. Under the supervision of Professor Richard H. Bolt, Director of the Acoustics Laboratory, and Professor L. B. Anderson, head of the architecture department, the class is guided by Robert Newman, an Institute graduate just beginning service on the architecture teaching staff.

Give 'em all my Christmas Best

MILDEN CHESTERFIELDS

Arthur Godfrey