

The Tech

Established 1881

Published semi-weekly throughout the school year, and weekly during the summer vacation by the students of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Entered as second-class matter at the Post Office at Boston, Mass., under the Act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized on July 19, 1918

MANAGING BOARD

Count B. Capps '20 General Manager
Edwin S. Burdell '20 Editor-in-chief
Carole A. Clarke '21 Managing Editor
Milton A. Loucks '19 Treasurer
Raymond A. St. Laurent '21 Advertising Manager
Oswald Cammann '20 Circulation Manager

NEWS DEPARTMENT—News Editor, H. R. Kurth '21. Photographic Editor, L. J. Powers '22. Assistants, H. D. Moore '21, P. E. Guckes '21. Reference Editor, E. R. Haigh '21.

ASSOCIATE EDITORS—Sports, A. W. Skilling '21; Alumni, Florence Fogler '20; Night Editors, F. W. Adams '21, C. G. Ball '22, H. C. Gayley '22, E. H. Koehler, Jr., '22; Assistants, C. B. Barton, Jr., '21, R. O. Ingalls '22, W. H. Irwin '21, Montgomery Knight '22, W. B. Purinton '22, J. D. Sarros '22, W. K. Taft '22.

NEWS STAFF—J. O. Bower '22, Stevens Bromley '23, P. L. Coleman '23, Irvin Gerofski '23, F. P. S. Glassey '22, A. P. Godbout '22, J. E. Gran '22, H. S. Griffith '23, A. B. Hampton '23, L. F. Jenness '22, R. C. Kleinberger '23, H. P. Kurzman '23, William Merzbach '23, A. J. Mesmer '22, Ansley Newman '22, M. D. Perkins '22, M. K. Quealy '23, N. G. Smoley, Sp., G. J. Sullivan '23, G. P. Tompkins '23, J. S. Ward '22.

EDITORIAL BOARD—George Bliss '20, R. B. Frost '21, F. M. Kurtz '22, Joshua Musnitsky '20, R. G. Pettengill '22, H. C. Pratt '21, J. D. Rockafeller '20, W. H. Rose, Jr., '21, E. E. Saunders '20, L. J. Siff '21, H. C. Stillman '21, K. B. White '20, M. H. Winchester '21.

BUSINESS DEPARTMENT—Circulation and Treasury, E. A. Ash '22, R. H. Damon '22, H. H. Eder '23, Harry Green '23. Advertising, G. H. Atkinson '21, D. P. Field '23, R. M. Homberg '23, C. T. Jackson '22, H. J. Kerr '22, B. M. Mossman '23, W. B. Murdock '23, Eastman Smith '22, W. A. Thomas '23.

Subscription \$1.75 for the college year in advance. Single copies three cents. Business office, 310 Walker Memorial, Charles River Road, Cambridge, Mass.; business phone, Cambridge 7415. News room, 3 Walker Memorial; news phone, Cambridge 7415; after 6 p. m. Monday and Thursday, Main 4734, 4735, 4736.

All material for publication must be in hands of the night editor by noon of the day previous to issue.

The Editor is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. THE TECH assumes no responsibility, however, for the facts as stated nor for opinions expressed.

IN CHARGE THIS ISSUE

J. D. Sarros '22 J. S. Ward '22

FRIDAY, JANUARY 30, 1920

OUR NEWEST PUBLICATION

THE appearance of THE TECH ENGINEERING NEWS, the newest of Technology publications, has created no small amount of comment upon the part of the student body. Although the primary purpose of the NEWS was to interest the Alumni and that portion of the undergraduate body which has been infused with the professional spirit, the sales show that almost the entire student body displayed an interest in this technical journal which insures its success.

The record sale of the NEWS must be gratifying, not only to the staff of that publication, but to all with the best interests of the Institute at heart. It has made evident the fact that the engineering spirit has gained a strong hold on the average man at Technology.

GET TO LECTURES ON TIME

THOSE of us who are constrained to sit through a cold and cheerless hour in the barn back of building 10, could derive a great deal more benefit from the lecture, if some of the men who are in the habit of arriving anywhere from ten minutes to three-quarters of an hour late would either mend their ways or stay away altogether. It is particularly disagreeable to have the outside door opening on the average of once every two minutes while the professor is trying to give a lecture illustrated with lantern slides. Sunshine is a fine thing in its place, but it doesn't mix well with a projecting lantern when supplied in wholesale quantities by the opened door.

It might also be pointed out that heat and such subjects are rather difficult for many of us to grasp and as the acoustic properties of building 30 are far from perfect any extraneous conversation on the part of students detracts seriously from the concentration of most of the men to the lecture. It is deplorable that it is necessary to have lectures in a place like the motor transport shed, but if we all try to get there on time and remain reasonably quiet, the ordeal will be made much easier.

DELTA TAU DELTA WINS MATCH

In a bowling match rolled off last night on Walker Memorial alleys the Delta Tau Delta team defeated the Delta Kappa Epsilon bowlers by a score of 3 to 2, after the closeness of the score had necessitated two extra roll-offs. J. Keller '21 of the losers was the individual star with a high single score of 119.

VAUDEVILLE ENLIVENS ARCH SOCIETY'S SPECIAL SMOKER

"Dr. Joe Bush" and other recently discovered entertainers were on hand to make successful a special smoker held by the Architectural Society in the Rogers Building last evening.

The occasion of the smoker was the initiation of new members into the society. These ceremonies occupied the first part of the evening.

Fantastic costuming lent additional mirth to the actions of the architects' amateur vaudeville performers, and for an hour the audience was entertained with court scene pageantry.

"Joe Bush" was introduced as Somerville's prosperous undertaker. He let it be known at the start that his theme was as far from his profession as his place of business from Constantinople, for he began with a description of a Turkish wedding and wandered to a climactic eulogy of "Portuguese architecture in Boston." Despite his discursiveness, his hearers had no trouble to follow him.

RADIOS HOLD BIG SMOKER IN WALKER

Prominent Men Address Society on Amateur Operation and on Transmitting Sets—Plans for Banquet Maturing

TICKETS ARE NOW ON SALE

The members of the Radio Society who were present at the smoker held in the north dining hall of Walker last Tuesday evening, heard some very interesting addresses by Boston men, prominent in radio work. After an announcement that all members of the society who had been on watches last term would continue their work, the principal speakers of the evening were introduced.

Henry C. Gawler, Radio Inspector of the Port of Boston whose address had been long anticipated by the society, chose to make his address general, telling the men how to improve their own status as operators and how to improve the efficiency of the station here at the Institute. He stated that at the outbreak of the war many of the best operators who entered the service were men who had practiced first on crude apparatus until they were efficient operators, and then rapidly developed into experts.

Operators Should be Efficient

As Boston is located in the center of a network of radio stations, the question of overcoming interference is one of the highest importance. Mr. Gawler sketched an interesting account of his work in the Azores during the war and showed that even with the great amount of interference at that station, which was handling many times its normal volume of communication, the real test of the operators was their ability to receive accurately and efficiently in spite of the difficulties.

Discusses Quenched Gap

As Professor V. Bush of the Electrical Engineering Department at the Institute and consulting engineer for the American Radio and Research Corporation, was unable to attend because of illness, he requested H. T. Tyzzer of the same firm to address the society. Mr. Tyzzer spoke on transmitting sets and demonstrated the efficiency of the quenched gap in radio work. He cited several interesting cases which he had met in his work and showed that in many instances, although the note of a sending set tuned to high frequency (500 cycles) at first thought seems better for long distance work, the slight difficulty in reading a low frequency message is more than offset by the greater range that can be accomplished.

Two men who were guests of the society were H. B. Richmond, of the General Radio Co. and W. M. Chubb, who is a government inspector of radio apparatus. When called upon, each responded with a discussion of incidents in their work.

NOTICES

For Undergraduates

Junior Prom Committee—Nominations for the Junior Prom Committee, five members, are due at the Information Office at 1.00 o'clock, Monday, February 9.

Tickets For B. A. A. Meet—There is a limited number of tickets for the B. A. A. meet, Saturday evening, February 7. They may be purchased from Coach Kanaly at Walker Memorial—price \$2.75.

Orchestra Rehearsals—There will be an important rehearsal of the M. I. T. orchestra for the concert of February 20, on Wednesday, February 4, at 4.30 in Building 30.

M. I. T. Branch, A. I. E. E.—A number of society pins have not been claimed and H. F. Smiddy '20 of the executive committee warns the men who ordered them that they will be turned over to other men unless called for before the end of this week.

Naval Arch Smoker—There will be a Naval Arch Society Smoker Tuesday, February 3, at 7.30 o'clock in the faculty room of Walker Memorial. Mr. W. S. Newell, manager of the Bath Iron Works, will speak. Movies, short business meeting, smokes and eats will also be on the program.

Latin-American Club—There will be a meeting of the Latin American Club on Saturday, January 31, at 1.45 in room 10-275. F. Lobos '20 will speak on the subject, "Chile as a Factor in the Independence and Culture of South America." The lecture will be delivered in Spanish. All students and members of the faculty are cordially invited.

MUSICAL CLUBS ENTERTAIN 700 AT SOMERSET TONIGHT

(Continued from page 1)

cers should plan to get their refreshments at some time during the longer interval between the sixth and eleventh dances. By this method of distributing the number over the time allotted, it will be possible to furnish more efficient service.

Program Includes Ten Numbers
The program for the concert is as follows:

- | | |
|--------------------|---------------|
| 1. Song of the Sea | Glee Club |
| 2. Colored Guards | Mandolin Club |
| 3. Good Bye | Glee Club |
| 4. NC-4 March | Banjo Club |
| 5. Specialty | F. D. Gage |
| 6. March Militaire | Mandolin Club |
| 7. A Tragic Tale | Glee Club |
| 8. Spin Spin Spin | Glee Quartet |
| 9. Medley | Banjo Club |
| 10. Stein Song | Glee Club |

Practically the same program as the above was given last Monday night at Lynn, with more success than has yet been experienced this season. That concert made a very good dress rehearsal for this evening's performance.

Alphabetical Seating is Arranged

- The order of dances is as follows:
- | | |
|-------------|--------------------|
| 1. One Step | Somebody |
| 2. Fox Trot | Wond'ring |
| 3. Fox Trot | A Chinese Lullaby |
| 4. Fox Trot | Peggy |
| 5. One Step | Who Did It? |
| 6. Waltz | Nannette |
| 7. Fox Trot | I'm So Sympathetic |
| 8. One Step | Bohemia |
| 9. Fox Trot | |

- | | |
|--------------|--------------------|
| 10. Fox Trot | Down in Hindu Town |
| 11. One Step | Karavan |
| 12. Fox Trot | Happy |
| 13. Fox Trot | Dardanella |
| 14. One Step | Yellow Dog Blues |
| 15. Waltz | Trousseau Ball |
| 16. Fox Trot | Carolina Sunshine |
| | Dancing Honeymoon |

- Extras
- | | |
|-------------|-------------|
| 1. One Step | 2. Fox Trot |
| 3. Fox Trot | |

There will be a special seating arrangement for the dancers in both ball-rooms. Alphabetically arranged sections around the sides of the rooms will be lettered, and if the students will sit in the section under which their names come it will greatly facilitate the delivering of any messages which may come during the evening.

SAY PLANES NEED RELIABLE MOTORS

Speakers at Aero Smoker Say Commercial Possibilities Depend on Motor Development—German Motors Best

SOCIETY BULLETIN ISSUED

The smoker held by Technology's Aeronautical Engineering Society, Tuesday night, in the Walker was attended by over 100 members. F. A. Brooks, a special student at the Institute, and R. D. Thomas, head of the Thomas-Pigeon Airplane Company, were the speakers, agreed on the point that much of the future of aviation, especially commercially, is contingent upon further development of motors. Brooks has worked with the Curtis Company and spoke from the standpoint of one who is familiar with the design and construction of airplanes. Mr. Thomas, who flew twenty-two types of planes during the war gave his opinions from the viewpoint of a pilot.

Motor Question Vital
"The motor is the absolute necessity of the aeroplane," Brooks told the Society. "The biggest advance has come through the increase in power." He then told of the super-charger that has recently been used to supply more air to the carburetor at high altitudes.

Brooks also said that in his opinion, "You cannot remove the danger element from the aeroplane. It is not comparable to the automobile industry." The aeroplane he claims is at present practicable only for sporting, patrol work, and warfare. The question of insurance is too great for its use extensively in commerce.

German Motors Excel

In speaking of the motors in use during the war he said, "I've yet to find the man who will condemn a German motor." "The Germans have the finest motors in existence." He then told of the low speed at which the German motors run, and expressed it as his opinion that Americans must replace their high speed, long stroke motors with those which more nearly resemble the Germans, if any progress is to be made.

"The biggest part of flying in the future will be done at night," he said, and explained how this will work out when applied to the mail service.

First Bulletin Issued

The first issue of the society's fortnightly bulletin was ready for distribution.

(Continued on page 3)

A Glance at Serge Suits

Butter of a man's wardrobe—and a Blue Serge Suit flatters ten men out of ten. It tallies, too, with every occasion, and even dignifies your mission on weighty appointments.

Serges are scarce now, hence so seldom mentioned—but we have provision in abundance. Blue, Black or Gray, in finest Worsted or Cheviot Serges.

Priced \$55 to \$95
Ready-to-Wear

Scott & Company
LIMITED
340 Washington Street, Boston

Powerline
AMERICA'S STANDARD
POWER PRODUCER
AND
CARBON REMOVER
GIVES YOU 30 PERCENT MORE MILEAGE
AND ELIMINATES FORMATION OF CARBON
Powerline Sales Agency
212 Washington Ave.
BOSTON, MASS.

Sold with money-back guarantee
Box of 100 tablets \$1.00

Special "Personality" Course

How to become popular and be a good mixer in your class and qualify for higher positions through charm of manner and highly developed personality.

How to apply oneself to think and act quickly.
Course in advanced English and Play-writing.

Excellent opportunity for Musical and Dramatic Production Training. Lucrative engagements secured through Dramatic Teachers Registry.

Attention "Foreign Students"

Excellent chance to gain the American Accent, Pose and Manner for Students Japan, China, Mexico, South America, Russia, India, Etc.

THE EVANGELINE SCHOOL OF PERSONALITY

466 COMMONWEALTH AVENUE
B. B. 9010
Hours for Interviews 3 P. M. to 6 P. M.

SIMPLEX STEEL TAPED CABLE



SIMPLEX WIRE & CABLE CO.
MANUFACTURERS
201 DEVONSHIRE ST. BOSTON
CHICAGO SAN FRANCISCO

STONE & WEBSTER

FINANCE public utility development.

BUY AND SELL securities.

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other engineers or architects.

REPORT on public utility properties, proposed extensions or new projects.

MANAGE railway, light, power and gas companies.

NEW YORK BOSTON CHICAGO