



Published throughout the school year, by the students of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Entered as second-class matter Sept. 16, 1911, at the Post Office at Boston, Mass., under the act of March 3, 1879.

MANAGING BOARD: E. E. Kattwinkel '23, General Manager; W. G. Peirce, Jr. '24, Editor-in-Chief; C. H. Toll '23, Treasurer; Ingram Lee '24, Managing Editor; L. B. Leighton '24, Advertising Manager; E. M. Goldsmith '23, Chairman, Editorial Board; D. M. Schoenfeld '24, Circulation Manager; R. B. Bamford '24, Sporting Editor

EDITORIAL BOARD: H. A. Bruson, David Lasser; E. D. Cahill, P. A. Ryan; A. M. Kallet, F. R. Shaw

NEWS DEPARTMENT: Associate Editors: G. F. Ashworth, L. E. Fogg; F. A. Barrett, P. R. Goldings; P. K. Bates, E. S. Gray; K. B. Castle, J. P. Ramsey, Jr.; R. E. Dorr, G. C. Reinhardt

Assistant Editors: S. Y. Anderson, Jr., W. W. Duley; S. H. Caldwell, M. S. McNaught; N. Cohen, D. A. Sherman

Staff: C. H. Barry, E. G. Pennock; E. I. de Benneville, J. Lewis; L. L. Dietzold, Charles Rich; F. W. Hall, O. B. Robinson; J. L. Lewis, H. J. Ryan; E. H. Long, H. G. Shea; C. W. Moore, M. L. Sinnicks; T. W. Owen, J. E. Sutcliffe

TREASURY DEPARTMENT: Assistants: F. L. Gemmer, A. W. Rhodes; Staff: E. W. Carlton, E. D. Murphy; M. M. Fireman, A. O. Sheppard; G. W. Glennan, R. E. Whitford; J. H. Hooks, W. M. Wolf

ADVERTISING DEPARTMENT: Assistants: Shedd Vandenburg, A. M. Worthington, Jr.; S. S. Merrell; Staff: C. L. Simonson

CIRCULATION DEPARTMENT: Assistants: W. L. Nye, D. A. Henderson; L. R. Collins; Staff: E. H. Davidoff, R. G. Meyerand; L. M. Lucas

PUBLICITY DEPARTMENT: Manager: W. N. Webster; Staff: C. M. Flynn, Warner Lumbard; Samuel Glaser, A. D. Phelps

BOARD OF CONTRIBUTING EDITORS: H. L. Bond, K. C. Kingsley; C. A. Brantingham, G. F. Nesbitt; E. W. Dexter, J. C. Nowell; E. H. Frazier, W. D. Scofield; F. G. Harmon, R. P. Shaw; D. B. Jennings, C. C. Taylor

\*On leave of absence.

Member of Eastern Intercollegiate Newspaper Association

In Charge of This Issue: G. F. Ashworth, W. W. Duley

Wednesday, January 17, 1923

SCIENCE VS. INDIGESTION

At an address before the American Association for the Advancement of Science, President Livingston Farrand of Cornell stated that the progress of science and public health had lengthened the average life by 15 years since 1870.

This statement will be accepted with amazement by those who see in the modern way of living early disaster for the human race, and it will no doubt be a surprise to those who have been ignorant of the great strides made in checking and preventing disease.

But granting that science has accomplished what is attributed to it and granting the ill-effects of modern living, certain interesting implications come to light. If the advance of science has been great in the past it will certainly be much greater in the future, increasing it is said in geometrical progression. After a number of years of this progress we may expect another announcement that comfortable periods have been added to our lives and we shall be in fair way to becoming centenarians.

On the other side we shall have the opposing tendency of humans to live their lives carelessly and irresponsibly of impairment to health. Certainly as this is due to the modern way of living, it will become more pronounced as the modern way of living is accentuated.

What will be the result? Can the progress of science in stamping out old diseases keep pace with the creation of modern ones? If it cannot we must either change our mode of living or we are a doomed race, and can look to the future confidently expecting to see a world of short-lived weak, and anemic humans. If science wins

with the passing of all disease, can we with certainty of no permanent ill-effects, go to mental and physical excesses? Will we expect that science will be around the corner, and be a constant prop to us in putting us in condition to stagger thru the day? Or will we have the recourse to the artificial stimulation of drugs? In either event the body will change its properties and become a new machine fed by chemicals to keep it in working order with very little need for the parts that "get out of order," or it will fall from sheer exhaustion from the use of chemicals, quit work and we shall quietly decompose into the state known as death.

CONTEMPORARY COMMENT

UNFORTUNATE

(From the S. M. U. Campus)

It is amusing how many students either resign themselves patiently and sweetly to a heartless fate which an education thrusts upon them, or else spend their days bemoaning their unfortunate lot. To no small number, college class work is at best a thing to be tolerated because of the many pleasant things in college life. It is something to be put up with and not a thing to be enjoyed. It is a series of cold requirements to be met and not a number of privileges to be enjoyed. College would be all right if it were not for courses.

There are many who are creating discontent and unhappiness by this attitude. No small number are dissatisfied and unhappy with their work because they refuse to consider and examine the benefits, direct and indirect, that can come from each class hour in each course. If a student takes a course for no other purpose than the meeting of a requirement, he or she doesn't deserve an education and will not be greatly benefited by one. A person needs to seek to understand the help that a course can be and professors ought to assist in this. And a course needs not enable one to make three extra dollars to be of value.

It shall be the purpose of The Campus to carry articles which will stimulate interest in various courses. It is simply insisting at this time that no student can do his best work in a course.

COMMUNICATION

To the Editor of "The Tech": Through the courtesy of Mr. Albert Geiger, Jr., M. I. T. '95, Chairman of the Athletic Committee of the B. A. A., a section of seats has been allotted as the "Technology Section" at the B. A. A. games, to be held February 3. Price as follows: Box (holding 6), \$4.50 per seat. First 5 rows, \$4.00 per seat. Next 3 rows, \$3.50 per seat. Two back rows, \$2.50 per seat. (Above includes war tax). Make application for seats to me, with check or money order, and addressed envelope for return seats (which will be received about January 29th).

Yours truly, FRANK H. BRIGGS, 10 High St., Boston 9, Mass.

ORGANIZATION PLANS OF C. A. C. ARE DISCUSSED

Plans for forming a permanent organization for entertainment purposes, smokers, etc., were discussed at a smoker held in Walker last Thursday evening by the Coast Artillery Corps, R. O. T. C. Unit. An informal talk was given by Colonel Frederick W. Phisterer, head of the Military Science Department at the Institute. Preston Woodling '23, entertained with some monologues.

NOTICES FOR UNDERGRADUATES

The night editor for the next issue of THE TECH is P. R. Goldings '25, telephone Roxbury 1465-M. All matters concerning the issue should be referred to him.

All crew candidates for last year's varsity and freshman eights are to report for Technique picture, Saturday at 1 o'clock in the hand ball court on the third floor of Walker.

Candidates for the Publicity Department of THE TECH are wanted and should see W. N. Webster '23, or Warner Lumbard '25, in Room 3, Walker, any day at 5 o'clock.

Gym team picture will be taken on the third floor of Walker next Saturday at 1:15 o'clock.

Opportunities in Metallurgy By Prof. G. B. Waterhouse

Metallurgy has been defined as the art of extracting metals from their ores, and adapting them to industrial uses. Its practice goes back to the remotest times, and one of the earliest professors must have been Tubal-cain for we are told he was "an instructor of every artificer in brass and iron." It is a great industry in itself, and is also of importance because it is one of the key or foundation industries, providing raw materials on which others depend. The average man, unless actively engaged in one of the metallurgical industries, is hardly aware of their size and importance, although it is true he sees foundries, smelters, steel-plants, and so forth, from time to time either in his own town or city, or as he travels from place to place. Also in his reading he comes across many references to copper, gold, zinc or the other metals, and a moment's reflection will impress him with the great dependence of our civilization on metals of various kinds in almost every sphere of activity.

America Supplies the World

The following figures will show that this country may well be proud of the importance of its metallurgical industries. They are taken from a presidential address delivered by Judge Elbert H. Gary before the American Iron and Steel Institute in May, 1920; and show that the United States with only 6 per cent of the world's population, and 7 per cent of the world's land, produces:

- 20% of the gold supply of the world. 40% of the iron and steel supply of the world. 40% of the lead supply of the world. 40% of the silver supply of the world. 50% of the zinc supply of the world. 60% of the aluminum supply of the world. 60% of the copper supply of the world.

Industries of this magnitude may justly be counted among the greatest of the country, and that they are such may be seen in the reports covering the 1920 Census. These reports show 24,100 business establishments employing 1,837,400 wage earners, or 20.2 per cent of those engaged in business establishments of all kinds. The amount of capital invested in these metallurgical plants is approximately 9,850 millions of dollars, or 22.1 per cent of the total capital invested in business plants of all kinds.

Distribution of Hours

These industries naturally employ many thousands of trained engineers, and there is an increasing tendency to select for leadership men having a combination of sound technical training and practical experience instead

of, as formerly, men with practical experience alone. The opportunities are therefore numerous, and at present the profession of metallurgical engineers is one that is not overcrowded.

Course III, Option 2, in the Department of Mining, Metallurgy and Geology leads to the degree of Bachelor of Science in Metallurgy. The following analysis of the course, as given at present, will show that it is very broad in its training. The subjects, hours, and percentages are given below:

Table with 3 columns: Subjects, Hours, Total. Rows include English and History (480), Political Economy (180), General Studies (240), Chemistry (910), Mathematics (630), Physics (600), Mechanical Engineering (775), Electrical Engineering (310), Ore Dressing (80), Mining Engineering (60), Mineralogy (140), Civil Engineering (235), Military Science and Physical Training (220), Metallurgy (860), Professional Option (60), Thesis (190), Total (5970), 100.0.

Graduates of the course start upon their practical work in many ways, such as the chemical laboratory, testing laboratory, as metallographists, or very often in some department of the plant as determined by the general superintendent. The initial pay at present would probably vary from \$125 to \$175 a month. Many times the hours are long, for in a great many plants the prevailing working method is two shifts in twenty-four hours, although a great deal of thought is being expended on ways of changing this to three shifts. The men must be prepared for hard work for a number of years. Men with sales ability will find the course an excellent preparation for entrance to the sales departments of the various companies, and many of the large companies are now requiring their young salesmen to spend one or more years in the plants before entering the sales offices. There are openings in the metallurgical industries for men of practically every type, from those interested in pure research to others who delight in the open air and the handling of men; and in practically every phase of the work graduates of our course have been successful, and are now holding responsible positions.

Culture in Dress Clothes

—and we believe it to be as tangible an acquisition as in any other element of social refinement.

Scott's Dress Clothes are the sort that men seeking social or business distinction have learned to estimate as an important detail in their ambitions.

They embrace styles for men of all ages and tendencies, and sizes for men of all builds.

- Coat and Trousers, \$75 Separate Dinner Jacket, \$50 Our own distinctive creations Ready-to-Wear



336 to 340 Washington St., Boston

FRANK BROTHERS Fifth Avenue Boot Shop near 48th Street, New York

Style shoes of quality

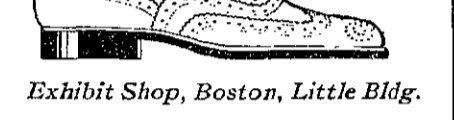


Exhibit Shop, Boston, Little Bldg.

Train For Leadership

To men who are eager to shorten the years between the time they leave school and the time when they are fitted to fill a position of responsibility and trust, the Babson Institute offers an intensive training course of one or two years.

From actual experience the fundamental principles of business are made clear. By positive examples, the student is shown how to apply these principles in the conduct of every day commercial affairs.

Babson Institute, an educational institution endowed for the purpose of fitting men for executive responsibility, invites you to send for their book, "Training for Business Leadership." Write today. No obligation.

Babson Institute Wellesley Hills, (Suburb of Boston) Mass.

Shows This Week

"JUST MARRIED" OPENS AT THE PLYMOUTH THEATRE

The new show at the Plymouth Theatre is one of the typical bedroom type and is good of its type. Not very much can be said about the show for it would be censored but if the spectator is not too righteous he will enjoy it immensely.

The action takes place on board ship and at the dock before sailing. In the first act the leading man is intoxicated and he is as funny a drunk as there ever was. The leading lady, Vivian Martin, is also very good and the bedroom scene where they are the principals is most amusing. All the actors take their parts with great ability and beside the "humor" there is much philosophy and good sense.

INTERESTING PLAY AT ST. JAMES THIS WEEK

"The Dawn of a Tomorrow" is the title of this week's production at the St. James. The action, although somewhat strained in parts, presents a varied array of comedy, human interest, and fantastic philosophy.

The scene of the play is laid in London, where Sir Oliver Holt, stricken with a strange incurable disease, has been given up by the three best specialists in Europe. In despair, he disguises himself in old clothes and goes to a disreputable place in London called "Apple Blossom Court," with the intention of shooting himself. His plans are thwarted when he meets "Glad," the child of the gutter, who shows him the true value of living, and who eventually wins for "Dandy," her criminal sweetheart, the chance he never had.

ARNOLD BENNETT COMEDY AT COPLEY THIS WEEK

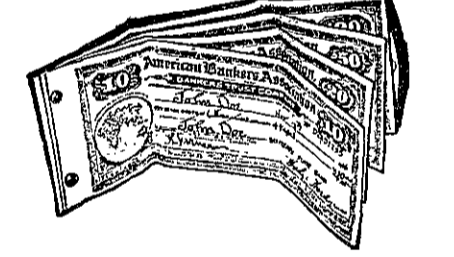
The play at the Copley this week is a comedy by Arnold Bennett called "The Honeymoon." The scenes are

laid in England, and the principal characters are English.

The story is of a young couple who quarrel on their wedding day, unaware of the fact that they were married by a false curate. When they discover the mistake, the girl refuses to go on with the marriage, but finally changes her mind. The part of "Flora Lloyd," the heroine, played by Catherine Willard, is the one that stands out most noticeably as being well done. The play as a whole is interesting, but seems to drag a bit in places.

A three scene musical legend, "The China Blue Plate," is one of the headliners at Keiths this week. The remainder of the bill contains some unusual and original side-splitting comedies. Rich Hayes as the "Lazy Clown" and "Trixie Friganza" in "My Little Bag o' Trix" keep the audience in an uproar for no short time.

Vaughn Comfort, the American tenor, was well received by the audience.



A-B-A American Bankers Association Cheques

UNIVERSAL FUNDS FOR TRAVELERS

Wherever money means anything, A-B-A Cheques mean money. They add to the pleasure of traveling by removing worry over currency carried on the person.

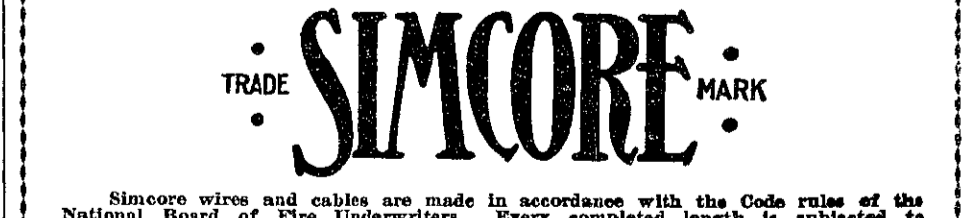
A-B-A Cheques, the official travel cheques of the American Bankers Association, are sold by 11,000 banks and trust companies in the United States and Canada.

Denominations \$10, \$20, \$50, and \$100. Ask for them at your bank.

BANKERS TRUST COMPANY New York City

UEATA LUNCH

259 MASSACHUSETTS AVE. CAMBRIDGE HOME COOKING HOME MADE PASTRY



Simplex Wire & Cable Co. 201 Devonshire Street, Boston Chicago San Francisco New York