



Published semi-weekly throughout the school year, and 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

Raymond A. St. Laurent '21.....General Manager
Carole A. Clarke '21.....Editor-in-Chief
Wm. H. Rose, Jr., '21.....Treasurer
Arthur W. Skilling '21.....Managing Editor
Roger H. Damon '22.....Circulation Manager
William R. Scott '22.....Chairman, Editorial Board
Rodney G. Pettengill '22.....Editor, The Tech Engineering News
Walter B. Murdoch '23.....Advertising Manager

WEDNESDAY, SEPTEMBER 15, 1920

IN CHARGE THIS ISSUE
Lucian Jenness '23

ENTER THE "HANDBOOK OF THE M. I. T."

WITH the freshman advisors in correspondence with their yearling proteges, the list of available rooms rapidly nearing completion, the book exchange well stocked with supplies, a genial secretary constantly at his post, and the student officers thoroughly coached for the coming term's work, the "Handbook of the Massachusetts Institute of Technology" has appeared as the first salvo of the broadside of activities planned by the Technology Christian Association for the coming year. And the satisfaction of having accomplished such commendable results must surely go a long way towards repaying this year's board of editors for their efforts.

The twenty-fourth edition of the erstwhile "Tech Bible," and the sixth to be issued by the T. C. A., is 16 pages larger than the two previous books, but the editors have happily retained the same page size and black leatherette binding. The two most notable departures from the methods of the preceding volume are that the 1920 book is out in ample time and that the matter contained in the 144 pages has been completely revised and rewritten. The inclusion of telephone numbers in the fraternity list is a welcome addition, although we had heretofore never been aware of the fact that THE TECH is a fraternity. Neither has it been apparent that the Walker Memorial contains "a large dining room seating 900 men and three small ones," but the Handbook's authenticity is unquestionable!

The airplane views of Technology and the map of the Institute grounds will prove interesting and serviceable features for the new men, but we are indeed sorry not to find the picture of acting President Elihu Thomson in the place occupied by the pictures of the buildings. The allowance of so much valuable space for jotting down assignments, appointments, memoranda, telephone numbers, and cash account may be the cause of further criticism, for these items are well taken care of in the memorandum booklet distributed to Institute men by the Technology Branch of the Co-operative Society. Such space could be put to far better use if it contained accounts of the activities of the 28 societies, clubs and professional organizations which receive only passing mention in the present Handbook.

ALBERT SCHAGEN McAULIFFE '22

On behalf of the Faculty and student body of the Institute, THE TECH wishes to extend to the parents and family of Albert Schagen McAuliffe '22, of Haverhill, sincere and heartfelt sympathy in their hour of bereavement. The accidental drowning which is the first fatality to occur at the summer surveying camp at Technology, Maine, has cast a gloom over the entire student body in attendance for young McAuliffe enjoyed great popularity among his colleagues. Commendation is due the Technology men for their prompt attempt to aid the swimmer and in that, according to Professor Robbins, they applied resuscitation methods "regularly and intelligently for four hours."

We are glad to note that Technology officials have finally followed the suggestion made by THE TECH some time ago and have closed the pier in the Charles River to all except the students. In a letter to Bursar Ford at that time emphasis was placed on the undesirable publicity resulting from the public use of the pier, but the Bursar apparently refused to take action until the recent appearance of a highly unfavorable article in a Boston daily. We hope that in the future the good Samaritan acts of our officials will not be sacrificed solely for the opportunities which they offer for a cub reporter to make good or for a feature editor to gain a raise in salary by the production of a cheap joke at the Institute's expense.

FROG'S EYE AS A CAMERA

The smallest camera in the world which has actually "taken" pictures is doubtless the eye of the frog. It has been found that if a frog is kept in the dark for some time the retina of the eye on being dissected is found to have a purple reddish color which fades away or becomes bleached on exposure to day light. If the eye be

placed in front of a window and left there or "exposed" for some time, and then fixed in a four per cent solution of alum the optogram is partially fixed and retains an inverted picture of the window with its cross bars as pictured on the retina. It is claimed that by a similar photographic process the last picture or image retained by the eye of a dead man or animal may be preserved.—September Boys' Life.

Alumni Notes

RAMSEY '17—BAKER

Mr. and Mrs. Edmund J. Baker of Jamaica Plains announced the marriage of their daughter, Bertha Elizabeth Baker, to Major John R. Ramsey '17. The bride is a graduate of Miss Weelock's School and the bridegroom, who in 1919 legally changed his name from Ramsbottom to Ramsey, graduated from Course VI, electrical engineering. Ramsey belongs to the Lambda Chi Alpha fraternity and at the Institute he was a member of the Electrical Engineering Society, Glee Club, and Tech Show. After graduation he trained at Fort Monroe and was a Major in France, having command of the battalion of British eight inch Howitzers at the front during the summer of 1918. At present Ramsey is assistant power engineer of the New York and Queens Electric Light and Power Company.

IS CONSULTING ENGINEER

Charles H. Tavenor '18 has resigned from his position as mechanical engineer in the Garden City, Long Island, plant of the Curtiss Aeroplane and Motor Corporation and announces that he has started the practice of consulting engineering with offices in Boston and New York. Tavenor's specialty is industrial, production, and aeronautical engineering and has laboratory facilities for doing his new work. During the war he had charge of the mathematical calculations connected with the design of new aeroplanes developed at the Long Island plant of the company. He graduated from Course II, Mechanical Engineering, and at the Institute he took an active part in student activities, being president and secretary of the Aero Club, publicity manager of the Technology Monthly, and member of the Mechanical Engineering Society and the Cosmopolitan Club.

CHOSEN TECHNICAL MANAGER

C. R. Haynes '04 has recently been chosen Technical Factory Manager of the 17 footwear factories of the United States Rubber Company. Mr. Haynes graduated from Course X in 1904 and since his graduation has been in the employ of the United States Rubber Company. He was formerly in charge of the laboratories of the Goodyear M. R. Shoe Company, Naugatuck, Connecticut.

When the superintendent of this company was transferred, Mr. Haynes was selected to fill the vacancy. Later the footwear factories of the United States Rubber Company were developing to such a point that it was necessary to have a man in charge of the technical work of the factories, and on account of his special qualifications, Mr. Haynes was chosen for this work.

APPOINTED PROFESSOR AT HARVARD

John G. Callan '96 has been appointed professor of Industrial Management of the Harvard Graduate School of Business Administration. Mr. Callan is well-known in the New England electrical field, having at one time been in the turbine engineering department of the General Electric Company at Lynn, and later a mechanical engineer in the Arthur D. Little, Inc. He graduated from the Institute in Course VI, Electrical engineering. During the past four years he has been chairman of the department of mechanical engineering at the University of Wisconsin and lecturer at Harvard on factory management.

FALES APPOINTED INSTRUCTOR

W. T. Fales '17 of 194 Oliver Street, Malden, Mass., was lately appointed instructor in public health at the Medical College of Johns Hopkins University. Fales enlisted in the army soon after graduating from the Institute and was made hospital sergeant in the Medical Corps unit, stationed at Washington. Upon his discharge he came back to the Institute as a graduate student in the School of Public Health, where he did research work. Fales was a student in Course VII, Biology and Public Health.

George E. Hale '90, director of Mt. Wilson Observatory, and of the Carnegie Institution of Washington, has just been appointed chairman of the Division of Foreign Relations of the National Research Council. Headquarters of the Council are at Washington and these appointments are for the present year, which began July 1, 1920.

COMMUNICATIONS

To the Editor of THE TECH:

Technology is a training school for the future engineer and the educated person knows that the engineer of the future must above all things be efficient. One would naturally expect to find efficiency taught or at least examples of it in the various departments of the Institute. If an outsider were to judge the Institute's efficiency by the manner in which the Registrar's office has handled the sending out of the recent reports, he would be doing a great injustice to Technology.

Final examinations ended June 9th, and most of the summer courses began on the 21st, in fact some started as early as the 14th. In the majority of cases the students had to know the outcome of their courses before they could register for summer courses. Take the case of a student who lives far from Boston and wants to get home for the summer, he is held up by the slowness of one department. There have been many men who have had to give up good summer positions on this same account. The professors and instructors work fast and even work overtime to get the marks to the office, and there the marks remain. Students inquire of their instructors regarding their marks but cannot be told on account of that iron-bound Faculty rule. Students next go to the Information Office and there one finds the reports are ready and will be mailed June 21st. You go, say June 23rd, and you are told your report is surely going out that day and so it goes: is this efficiency?

Of course we realize the Institute is overcrowded and that there are three reports to get out, but this rush only comes twice a year and surely a few extra stenographers can be obtained to more efficiently send out much needed information.

One of the Three Thousand.

FIREFLY RADIATES THE MOST EFFICIENT LIGHT

Fame and fortune await the scientist who discovers the secret of the familiar firefly or lightning bug. No one has been able to tell how the little insect produces the flashes of light we see twinkling about us on dark nights. Careful scientific tests have proven, however, that this light is produced with about one four hundredths part of the energy which is expended in the flame of a candle. Considering the strength or rather feebleness of the firefly this light is believed to be the most efficient form of illumination known today. If this method could be understood and put to work it is calculated that the energy exerted by a boy in driving a bicycle would be sufficient to run a powerful dynamo or light miles of street lamps. The light of the firefly is practically heatless and it is believed among scientists that the future of the lighting industry of the world depends upon the discovery of a heatless light.—Boys' Life for September.

PETER GRAY & SONS Inc.

STAMPINGS IN SHEET METALS

166 THIRD ST., EAST CAMBRIDGE



STONE & WEBSTER Incorporated

FINANCE public utility developments.

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

WILLIAM AND MARY COLLEGE BUILDS MEMORIAL TO ROGERS

Solicit Fund to Honor Technology's First President

The national committee of William and Mary College of Virginia is seeking a fund of \$1,440,000 for the purpose of expansion and upkeep of its 1776 buildings. \$200,000 is asked for a memorial building in honor of William Barton Rogers, founder and first president of Technology, who graduated from William and Mary in 1822. Part of the fund is intended for a School of Government and Citizenship, for the increase in the professors' salaries, for the School of Humanities, and for a library. The college asks \$580,000 to be used in restoring the college building, the oldest college structure in America and in building a Phi Beta Kappa Memorial Auditorium, William and Mary having organized the first chapter of this honorary fraternity in 1776.



College Men and "Prep" Students!

Clothing for Personality

Leather Garments, Golf Suits,
Sport Coats, English Made
Overcoats
Exclusive Models in Suits,
Overcoats and Ulsters
Haberdashery—Hats

**MACULLAR PARKER
COMPANY**
400 WASHINGTON STREET
"The Old House with The Young Spirit"

Charles Cooper & Co.

Manufacturing Chemists
and Importers

(Established 1857)

194 WORTH STREET,
NEW YORK CITY

Works at Newark, N. J.

We offer
for the RUBBER TRADE:
Antimony Crimson
Antimony Golden Sulphurated
Barium Sulphate
Benzole
Carbon Bisulphide
Carbon Tetrachloride
Caustic Soda
Chrome Oxide Green
Flour Sulphur
Iron Oxide, Red
Neutral Salts for Rubber Re-
claiming
Zinc Oxide, Etc.

SIMPLEX PACKING HOUSE CORD

CONDUCTORS

SIZE D & S	STRANDS NOT TWISTED COTTON WOUND	DIAM. OVER RUBBER	CONDUCTOR COVERING
14	41 of No. 30	.185"	one treated cotton braid
15	26 30	.15"	"
16	16 30	.125"	"

CORD

Two conductors twisted together.
Filled with jute to make round.
Two cotton braids—weatherproofed.

Recommended for packing houses,
breweries, mines and other places
where dampness prevails and a flex-
ible portable cord is needed.

Ask for prices and samples
Prompt Shipment from stock

SIMPLEX WIRE & CABLE CO

MANUFACTURERS
301 DEVONSHIRE ST., BOSTON
CHICAGO SAN FRANCISCO