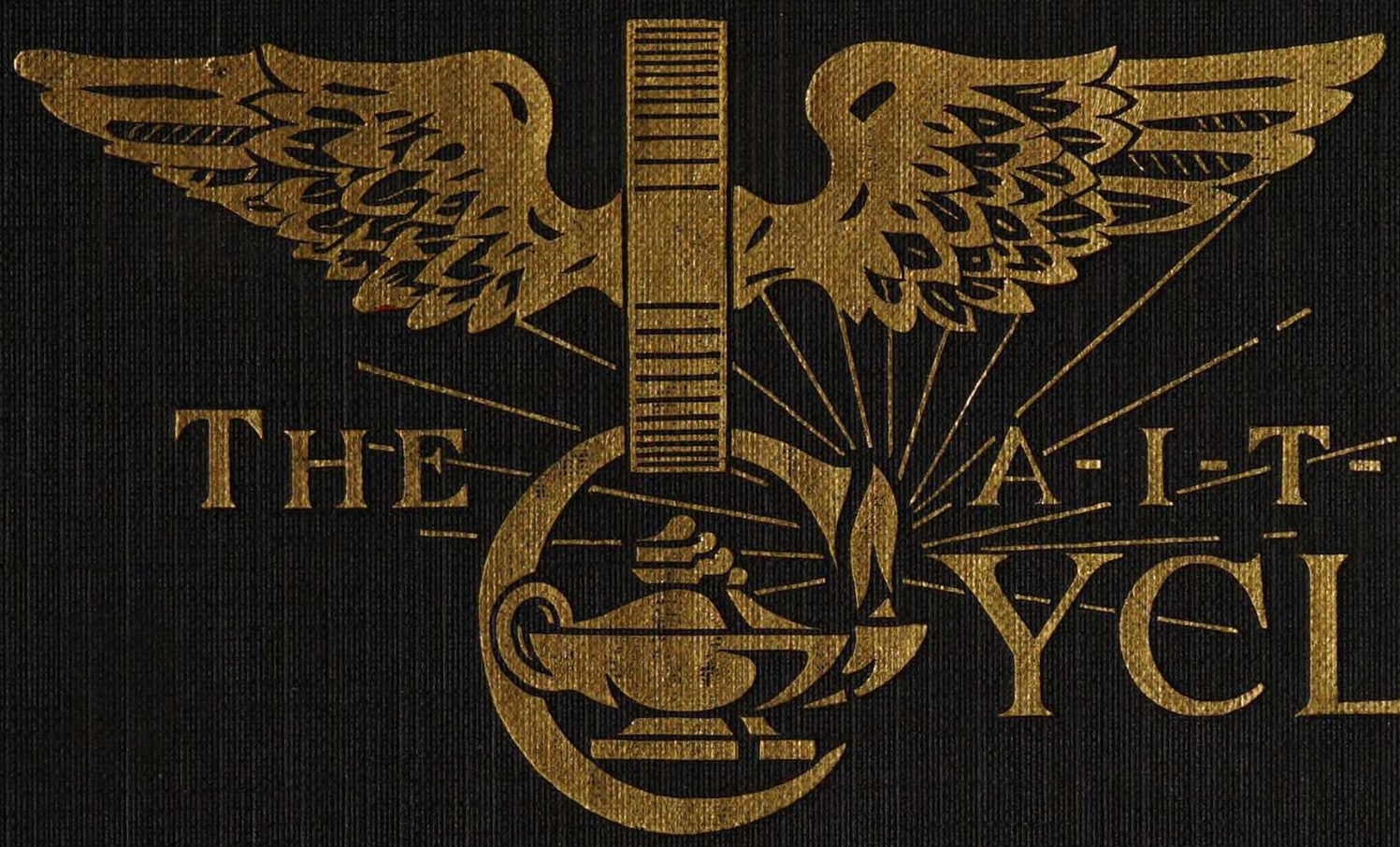
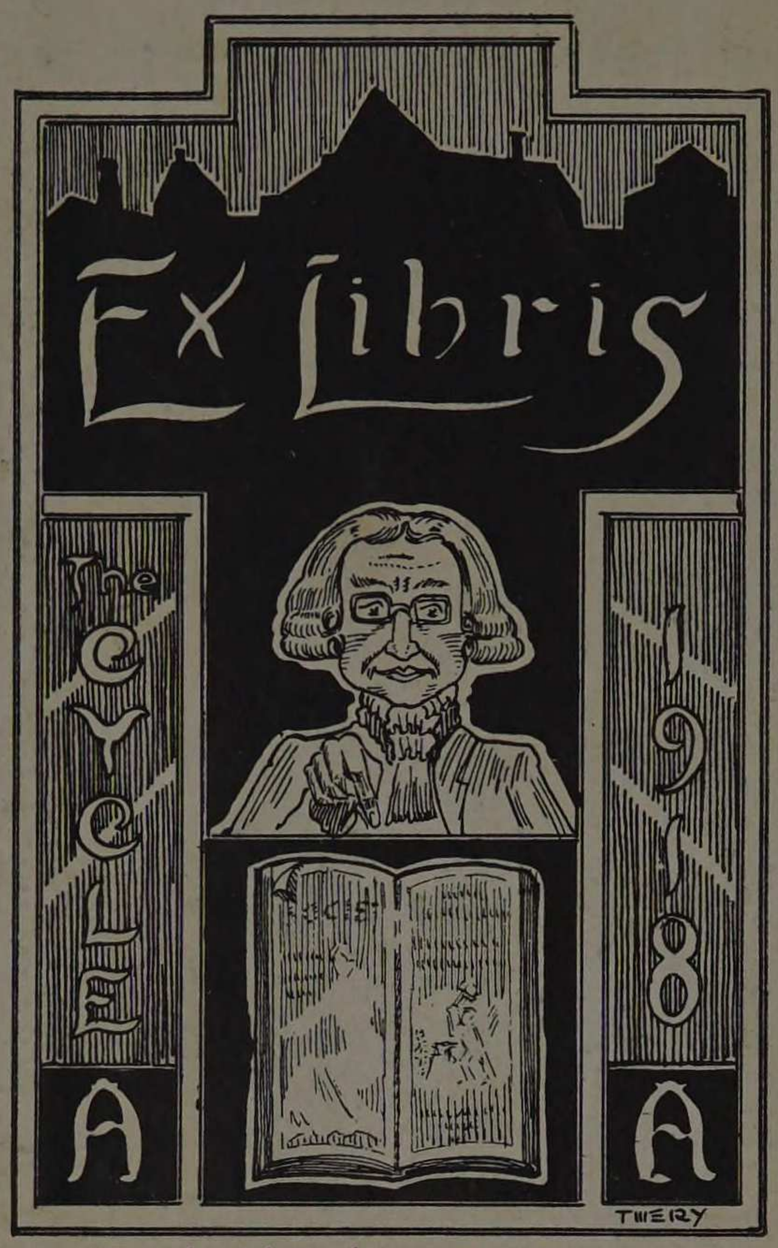
1918



# THE A-I-T CYCLE




S.N. HAVLICK

# THE

# ARGUS

CLASS 1919.

MONACO

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# The Cycle

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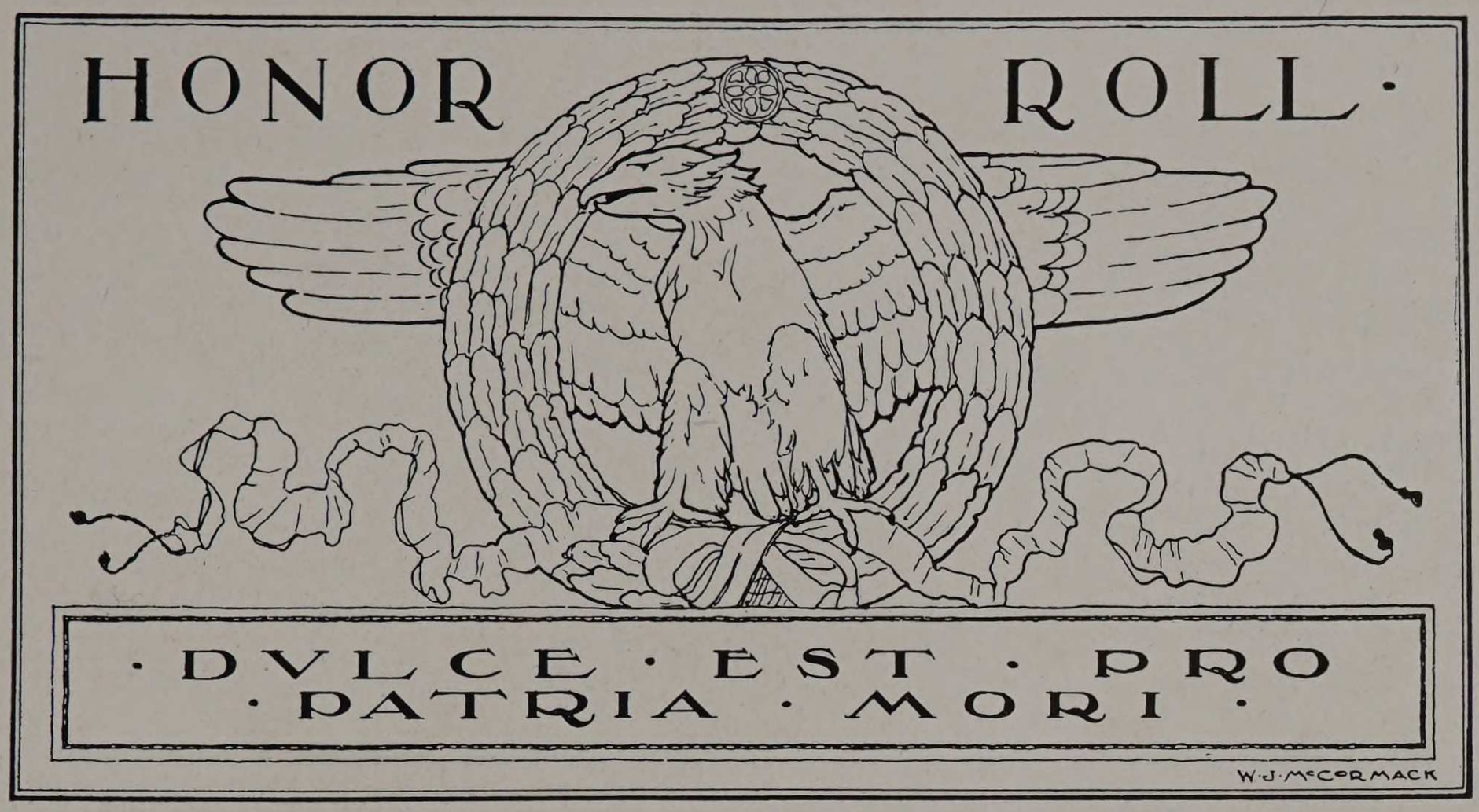
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# Dedication
## To
## All "Our Boys"

Alumni and Students alike,
who so nobly responded to the
call to arms and are now fighting
for the honor, the safety, and the
glory of our flag, home, and
country---and of dear old Armour,
this book is dedicated
by
The Class of 1919






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WELCH, T. L. ..... 8th Regiment, Houston, Texas.

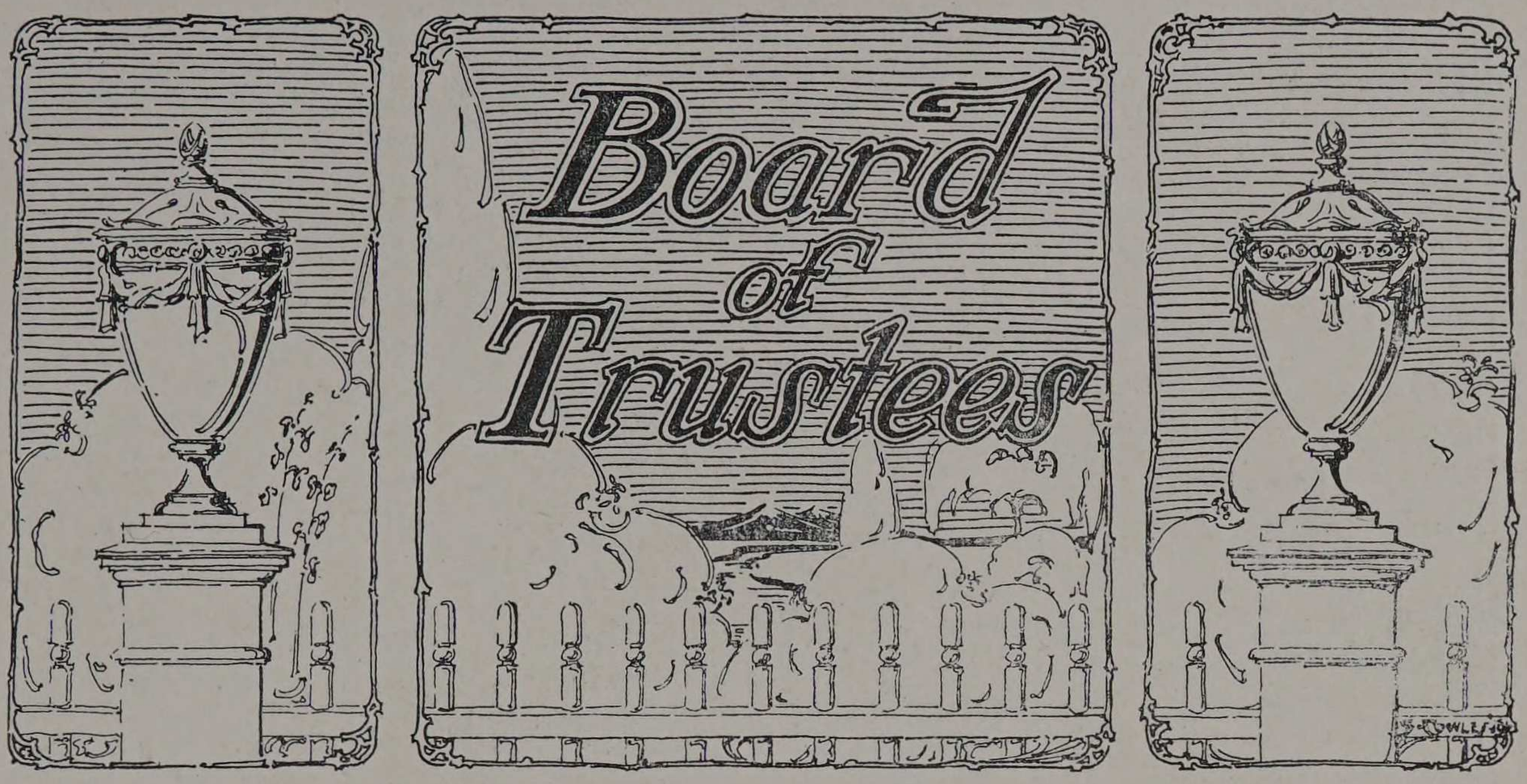
| | |
|---|---|
| Wignall, W. K. J. | American Base Hospital, Unit No. 13. |
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| Renaud, E. | Great Lakes, Ill. |
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| Wickes, W. J | Emergency Fleet Corp., Hog Island, Pa. |




J. Ogden Armour

Mrs. Philip D. Armour

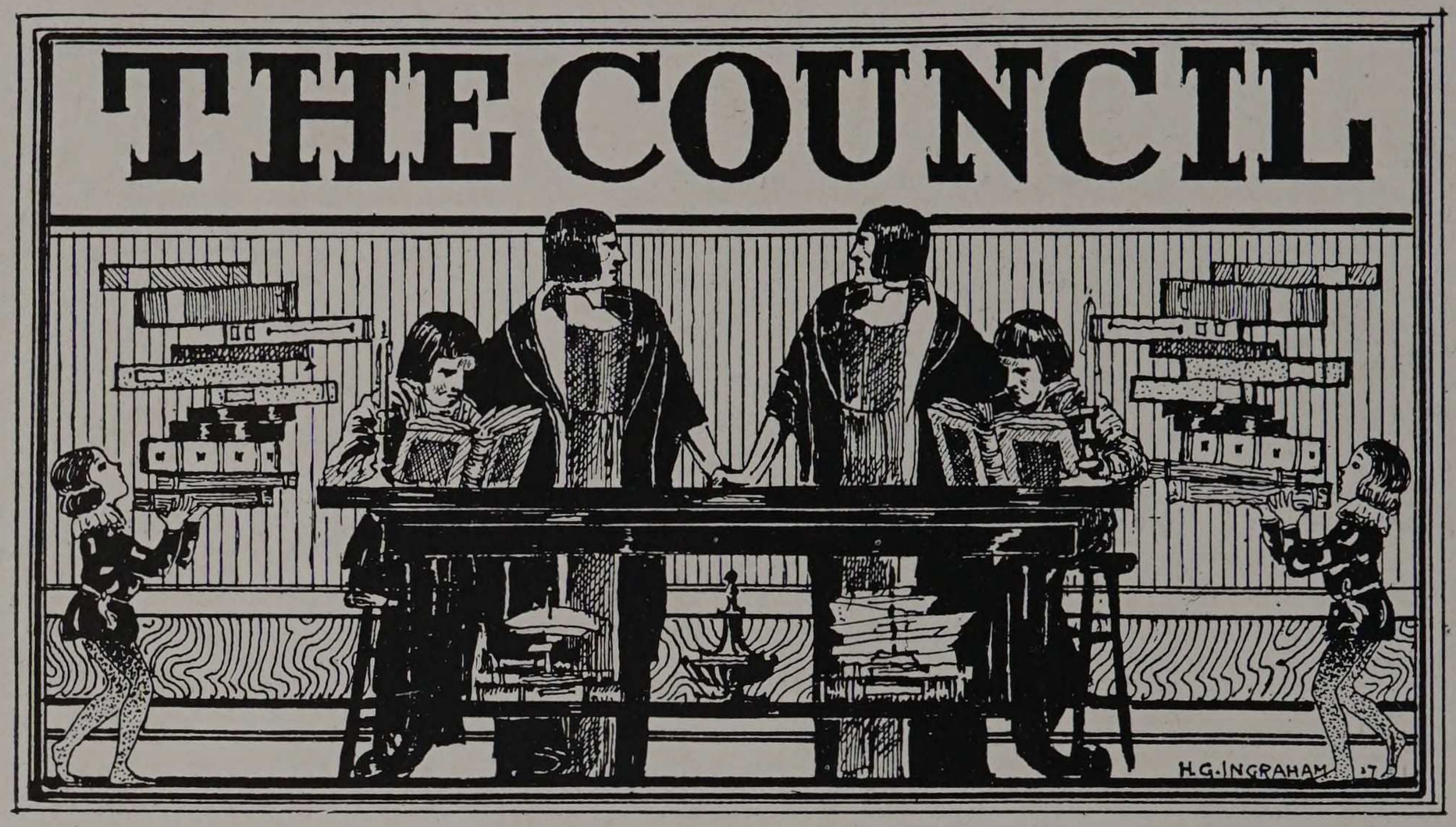
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THE DEAN OF THE CULTURAL STUDIES

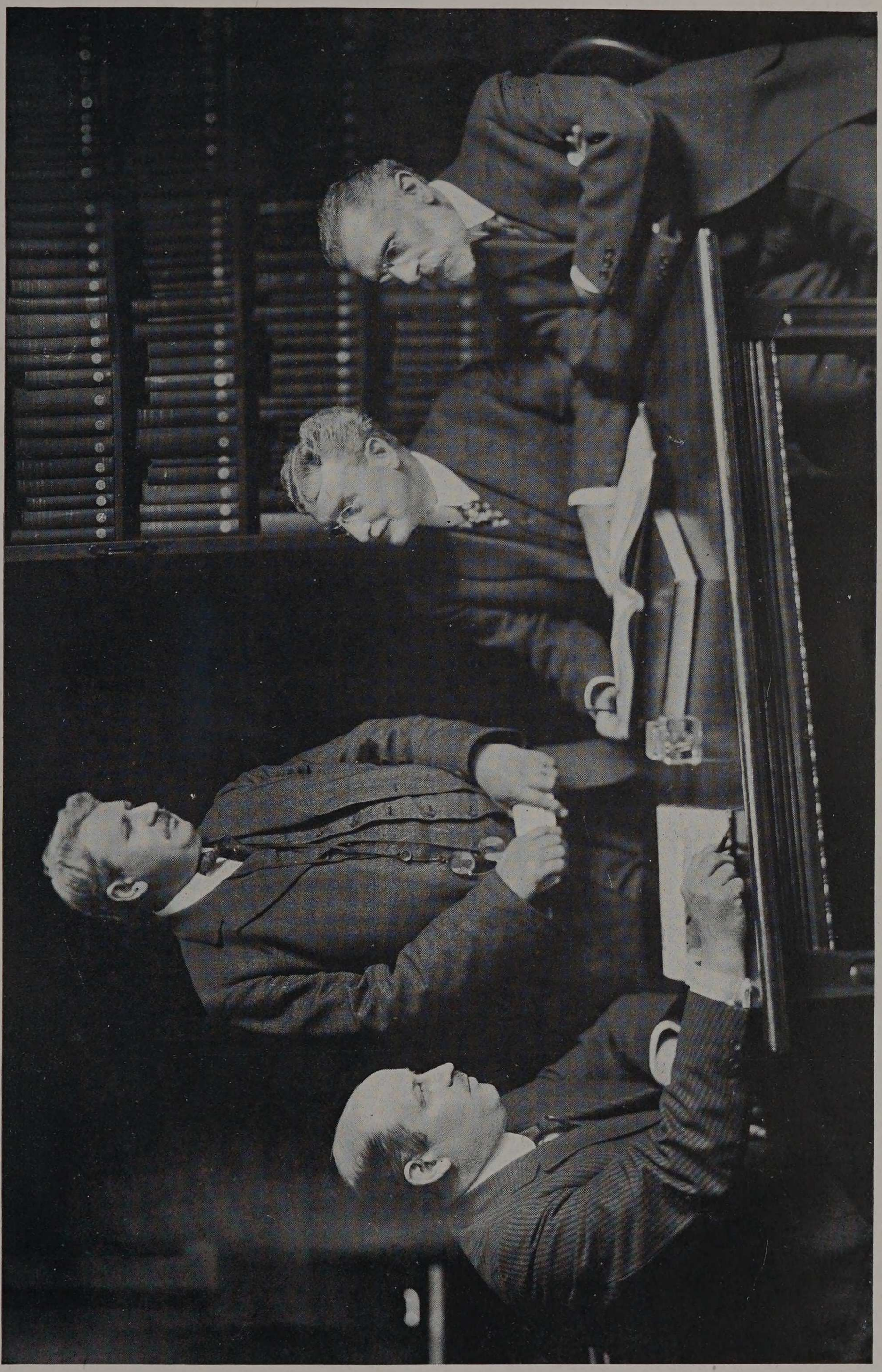
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THE DEAN OF THE ENGINEERING STUDIES

## HOWARD MONROE RAYMOND

Birthplace, Grass Lake, Michigan. B.S., University of Michigan, 1893. Post-graduate work in Physics and Electrical Engineering, University of Michigan, 1894. Phi Delta Theta. Tau Beta Pi. Member of the Society for the Promotion of Engineering Education; and American Association for the Advancement of Science. Residence, 6522 Kenwood Avenue.



L. C. Monin — F. U. Smith — F. W. Gunsaulus — H. M. Raymond

# Officers of Administration

*The President*

Frank Wakeley Gunsaulus

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*The Dean of the Cultural Studies*

Louis Celestin Monin

*The Dean of the Engineering Studies*

Howard Monroe Raymond

*The Registrar*

George Sinclair Allison

*The Librarian*

Julia Beveridge

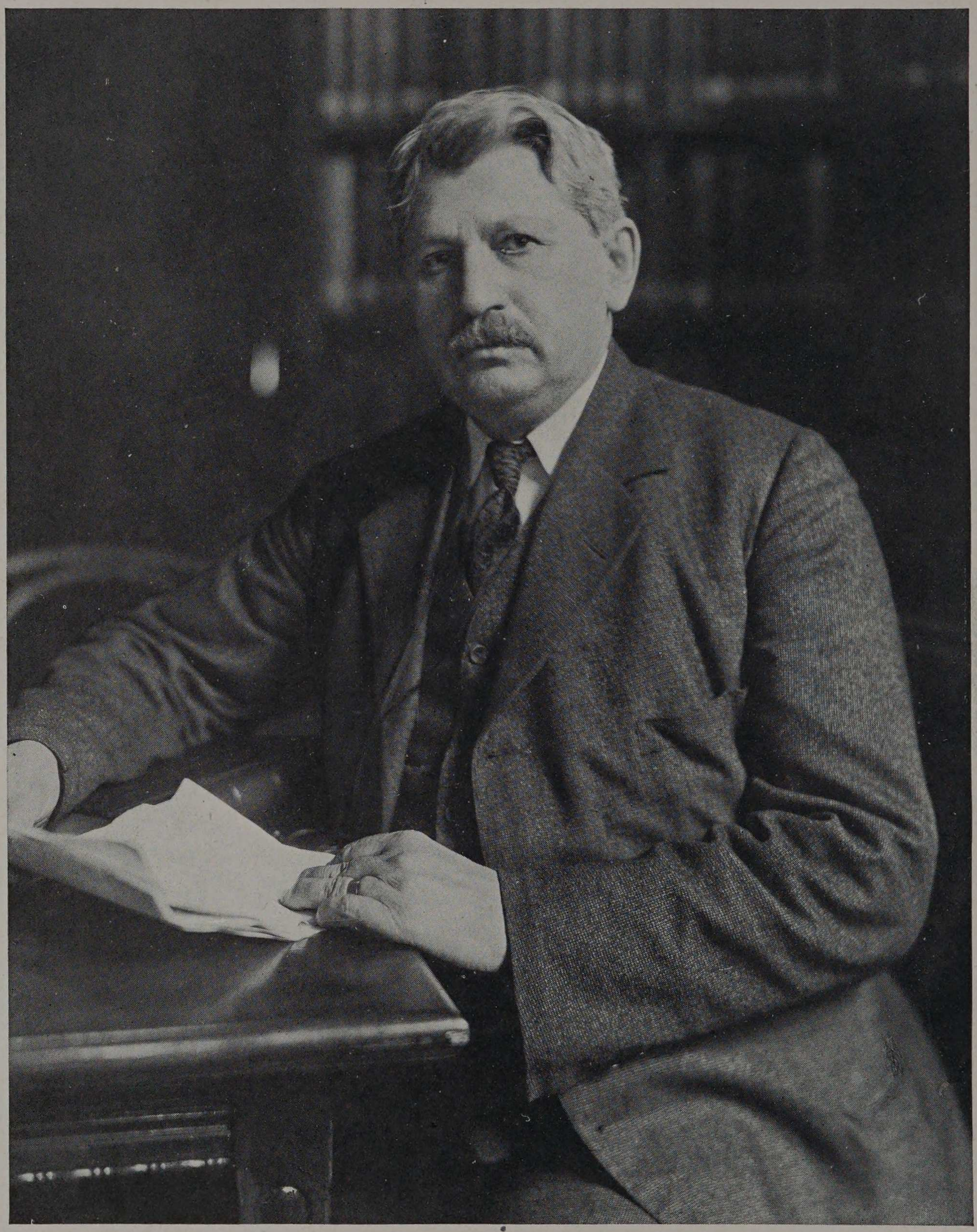


## OFFICERS OF ADMINISTRATION

F. U. Smith
H. M. Raymond

Mrs. Beveridge
F. W. Gunsaulus

G. S. Allison
L. C. Monin



President F. W. Gunsaulus




The Armour Institute of Technology was founded by one of America's noblest philanthropists, Mr. Philip D. Armour, a man whose name is inseparably connected with Chicago and the Middle West. The institution which bears his name is an enduring monument to the ideals for which Mr. Armour stood. The aim of the Institute has been the broad one of educating the entire man—head, hand, and heart, and of making possible the acquisition by its students of knowledge, skill, and culture, and above all, of developing self-reliance and manliness. Mr. Armour's philanthropy was not of the enervating kind that makes its recipients dependent. He desired to help only those who wished to help themselves. He did not aim to carry men, but to teach them how to walk.

In the history of the Armour Institute of Technology another name will ever be linked with that of Mr. Armour—the name of Dr. F. W. Gunsaulus, whose mighty brain, warm heart and eloquent tongue were needed to plan and supervise the work. It was his eloquence which awakened in Mr. Armour's mind the design to establish Armour Institute of Technology. Dr. Gunsaulus one Sunday preached a sermon at Plymouth Church, of which he was then pastor and of which Mr Armour was a member. In this sermon he lamented the fact that so little was being done to prepare young people for the practical duties of life. At the conclusion of the service Mr. Armour offered to his enthusiastic pastor the means wherewith to erect an institution that would meet these needs.

The interest of Mr. Armour in the practical training of young people had already been awakened to some extent by observing the work done under the direction of Mrs. Julia A. Beveridge at the Armour Mission. The Armour Mission had been built by Mr. Philip D. Armour to carry out the wish of his brother, Mr. Joseph Armour, who had left a bequest of $100,000. for that purpose. The building was opened in 1886. Mrs. Beveridge, believing that the usefulness of the Mission might be increased by taking up manual training, organized classes in wood-carving, clay-modeling, tile-making, and drawing for the boys, and classes in domestic arts for girls. The success and popularity of these classes, together with the influence of the suggestions of Dr. Gunsaulus, induced Mr. Armour to erect and endow munificiently an institution devoted to practical and liberal education. A visit to eastern institutions was made by Mr. Armour and Dr. Gunsaulus, with the result that they decided to organize a school similar to Pratt or Drexel Institute.

Upon their return a Board of Trustees was organized, consisting of the follow-



ing: Mr. Philip D. Armour Jr., and Mr. J. C. Black. A charter was obtained from the legislature incorporating the new institution.

A handsome and spacious building was completed in 1892, the first classes being organized in the fall of the next year. Dr. Gunsaulus, as president, was assisted by a small, but very efficient faculty, of which Prof. L. C. Monin, Prof. John E. Snow, Mrs. Julia A. Beveridge, and Mr. Agle are still associated with the Institute. The trustees generously fostered the growth of the new institution. Mention must also be made of the work of Mr. F. U. Smith, who as Secretary of the Board of Trustees and Comptroller of the Institute, has since the inception of the Armour Institute of Technology, taken the keenest interest in everything that would redound to its progress and efficiency.

The first dean of the Armour Institute of Technology was Prof. Thomas C. Roney, at whose death Prof. Victor C. Alderson became dean. When Prof. Alderson resigned to accept the presidency of the Colorado School of Mines, Prof. Louis C. Monin was appointed dean of the Cultural Studies and Principal of the Scientific Academy, while Prof. Howard M. Raymond became dean of the Engineering Studies and also took charge of the supervision of the Evening Class and Summer School work.

At the time of its foundation the Institute comprised the Scientific Academy, and the Technical College as at present, but also included Departments of Domestic Arts, Commerce, Music, and Kindergarten Normal Training.

The courses included in the Technical College were;—Mechanical and Electrical Engineering, Chemistry, Architecture and Library Science. Between 1896 and 1901, the courses in Domestic Arts, Commerce and Music were dropped, one by one, to meet the ever increasing demand for young men trained in applied science. In 1901 co-education in the Academy was given up, so that the instruction was limited to young men. All the engineering courses have been strengthened from year to year. Departments of Civil, Chemical and Fire Protection Engineering, and of Industrial Arts have been added to the other engineering courses. A union was affected with the Art Institute of Chicago for the purpose of developing the course in Architecture which that institution had successfully maintained since 1889. The result was the establishment of the Chicago School of Architecture. Since 1902 Evening Classes have been offered, and the evening work has attracted many who are employed during the day and who wish to take advantage of this opportunity of acquiring a technical training that is thus placed within their reach. At the same time summer courses were offered which are proving more helpful and popular each year.

An additional building known as Machinery Hall was erected in 1902, Mrs. P. D. Armour having donated the building, while Mr. J. Ogden Armour bore the expense of providing the equipment, which in its excellence was unsurpassed by any similar institution in this country. Mr. J. Ogden Armour also presented to the Institute the grounds known as Ogden Field, the opening of which has greatly stimulated the interest in athletics among the students and faculty.

Two additions have been made to the Institute since the erection of Machinery Hall. In 1908, the Refrigeration Laboratory, with complete equipment, was built. The Internal Combustion Engine Laboratory was completed in 1917. This is the best and most complete laboratory of its kind in the United States, a fact of which all Armourites are justly proud.

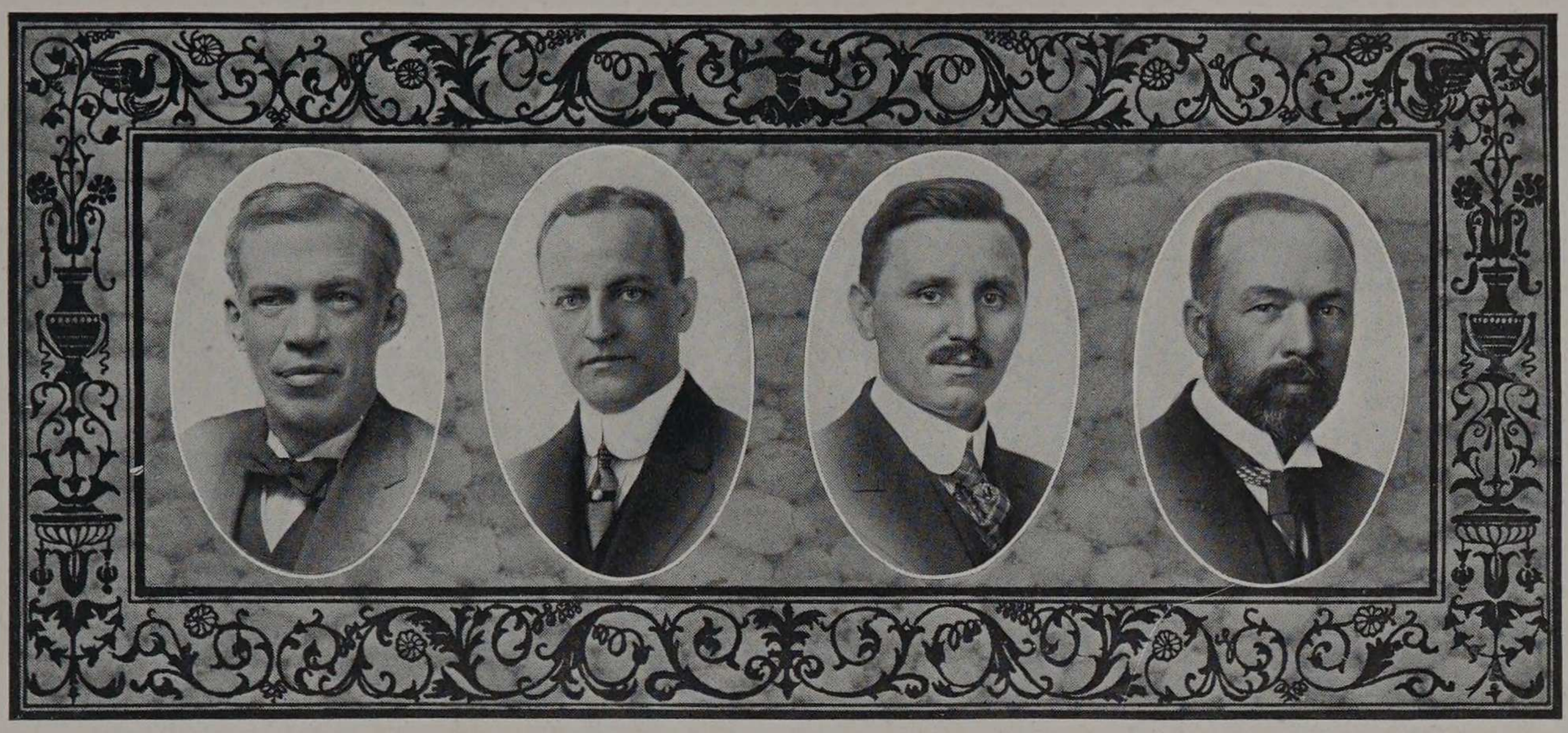
Located in the great metropolis of the West, the Institute offers to its students opportunities of acquiring a practical training in engineering which would be impossible in almost any other locality. We have all reason to be proud of the remarkable progress made by the Armour Institute of Technology within so short a period of time. The fame of the Institute and her graduates is being heard of every day all over the world.

N. B. *—The editor is greatly indebted to Dr. G. L. Scherger for the greater part of this history.

# FACULTY

CAST

ING '17



ALFRED EDWARD PHILLIPS

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A.B. and C.E., Union University, Schenectady, N. Y., 1887; A.M., 1890; Ph.D., 1894.
Phi Delta Theta. Sigma Xi. Tau Beta Pi.
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A.B., Knox College, 1895. M.F., Cornell University, 1896. A.M., Knox College, 1897.
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National Association of Stationery Engineers.
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A.B., University of Indiana, 1894. Universities of Leipzig and Berlin (1895-98).
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Mississippi Valley Historical Society. City Club.
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Research work on "French and American Declaration of the Rights of Man."
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A.B., Carleton College, 1891. A.M., University of Wisconsin, 1902.
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Author of Journal Articles on Metallurgy and Industrial Chemistry.
Editor of "The Chemical Engineer."
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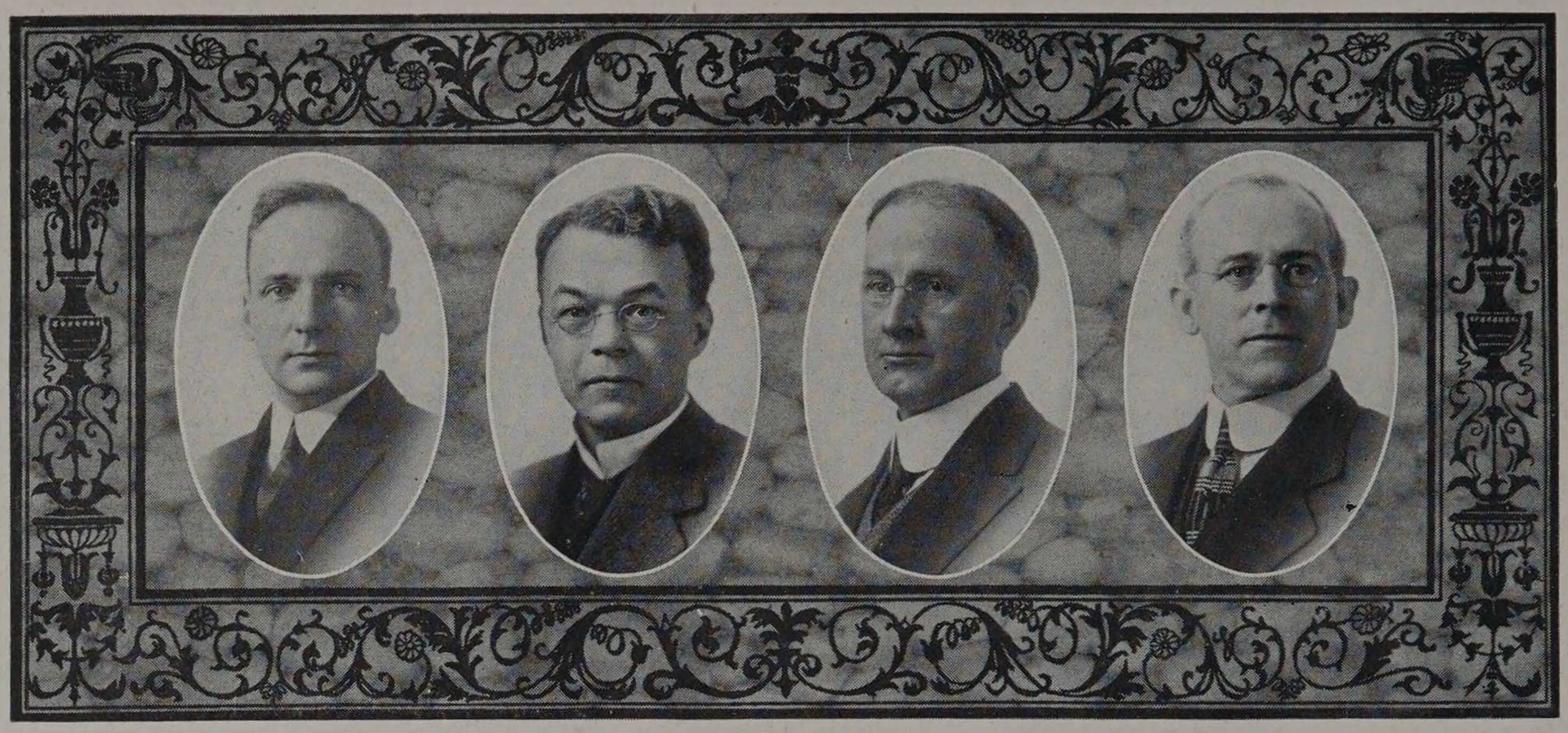
Associate Professor of Electrical Engineering.
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Associate Member of American Physical Society.
Physico-Organic Research on "Vulcanized Oils."
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Associate Professor of Analytical Chemistry.
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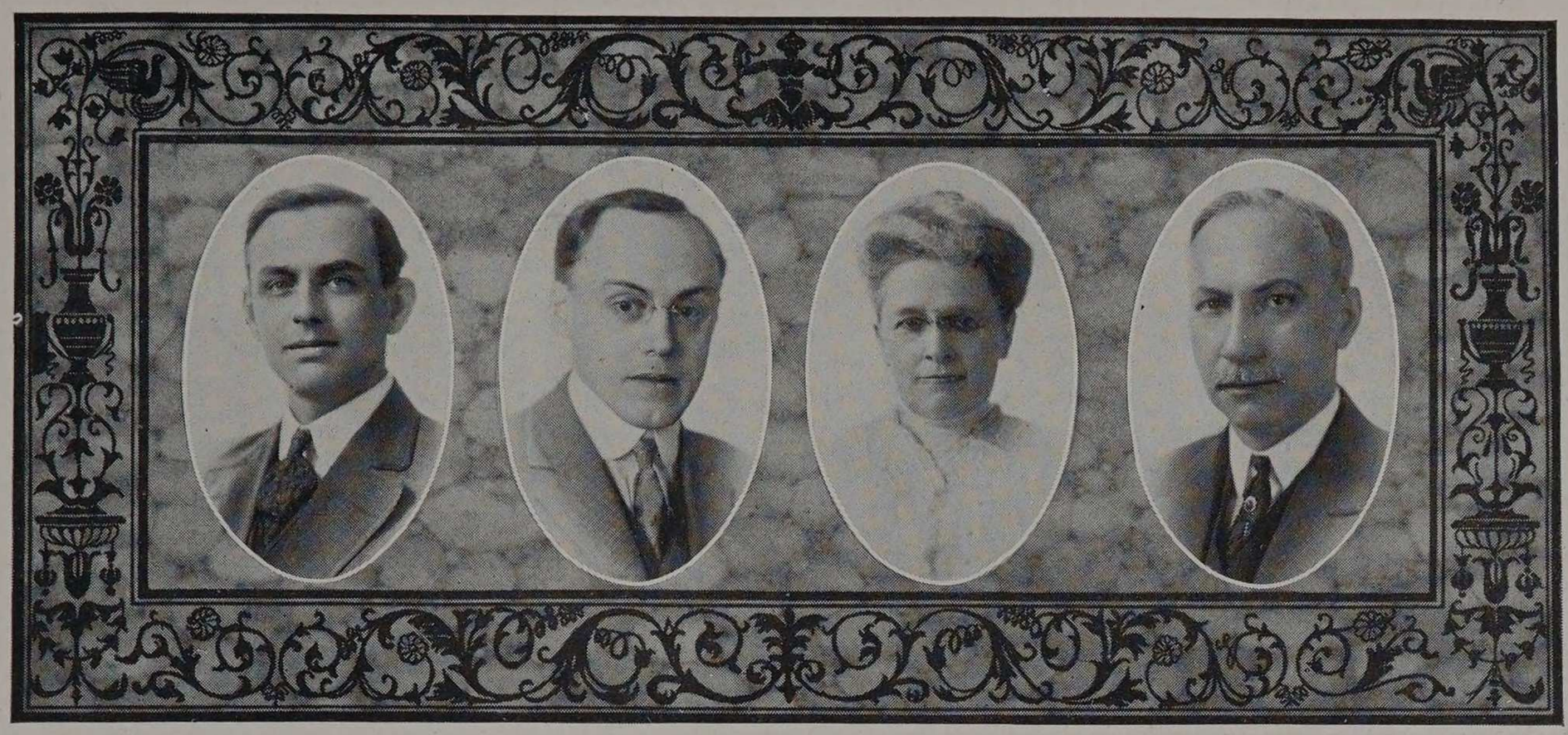
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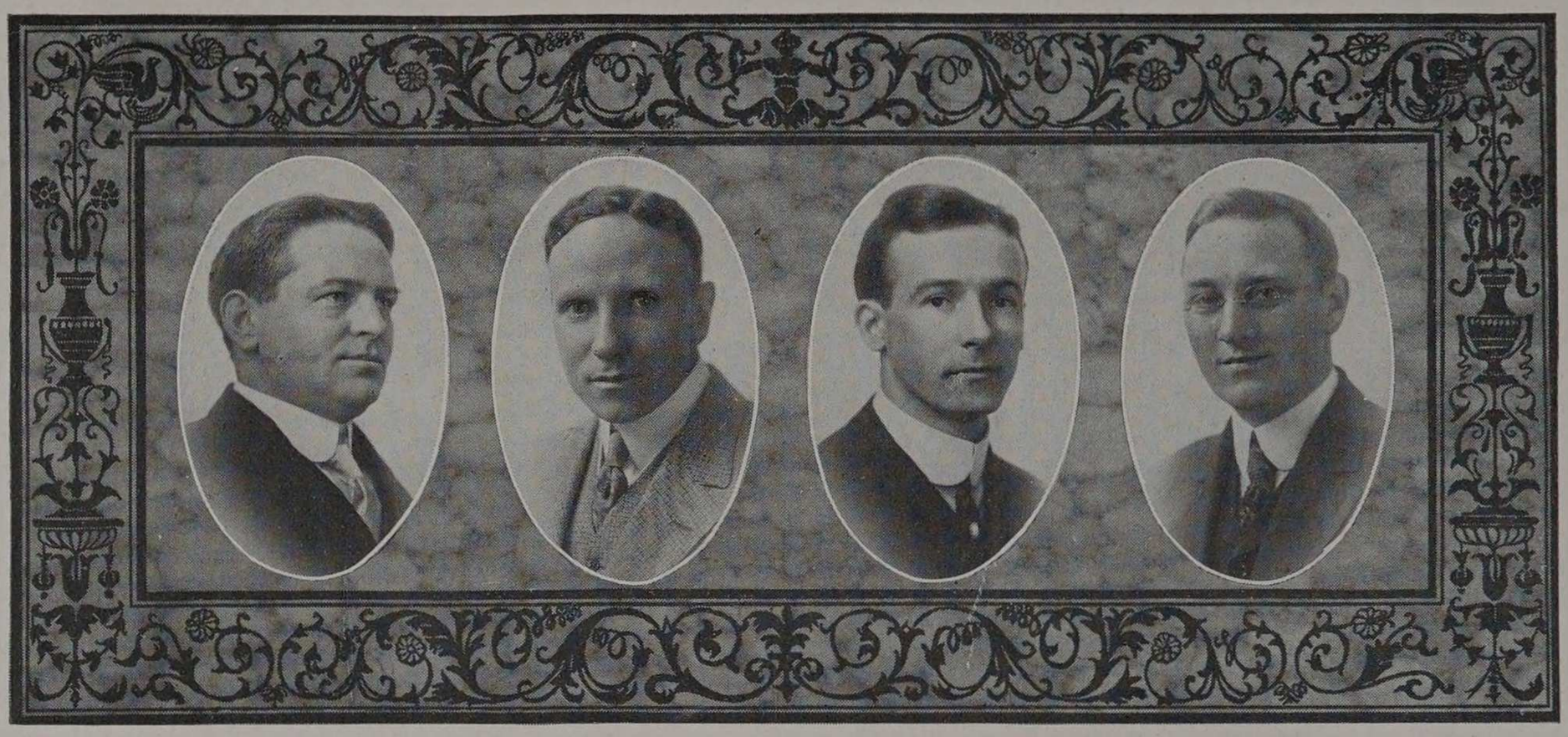
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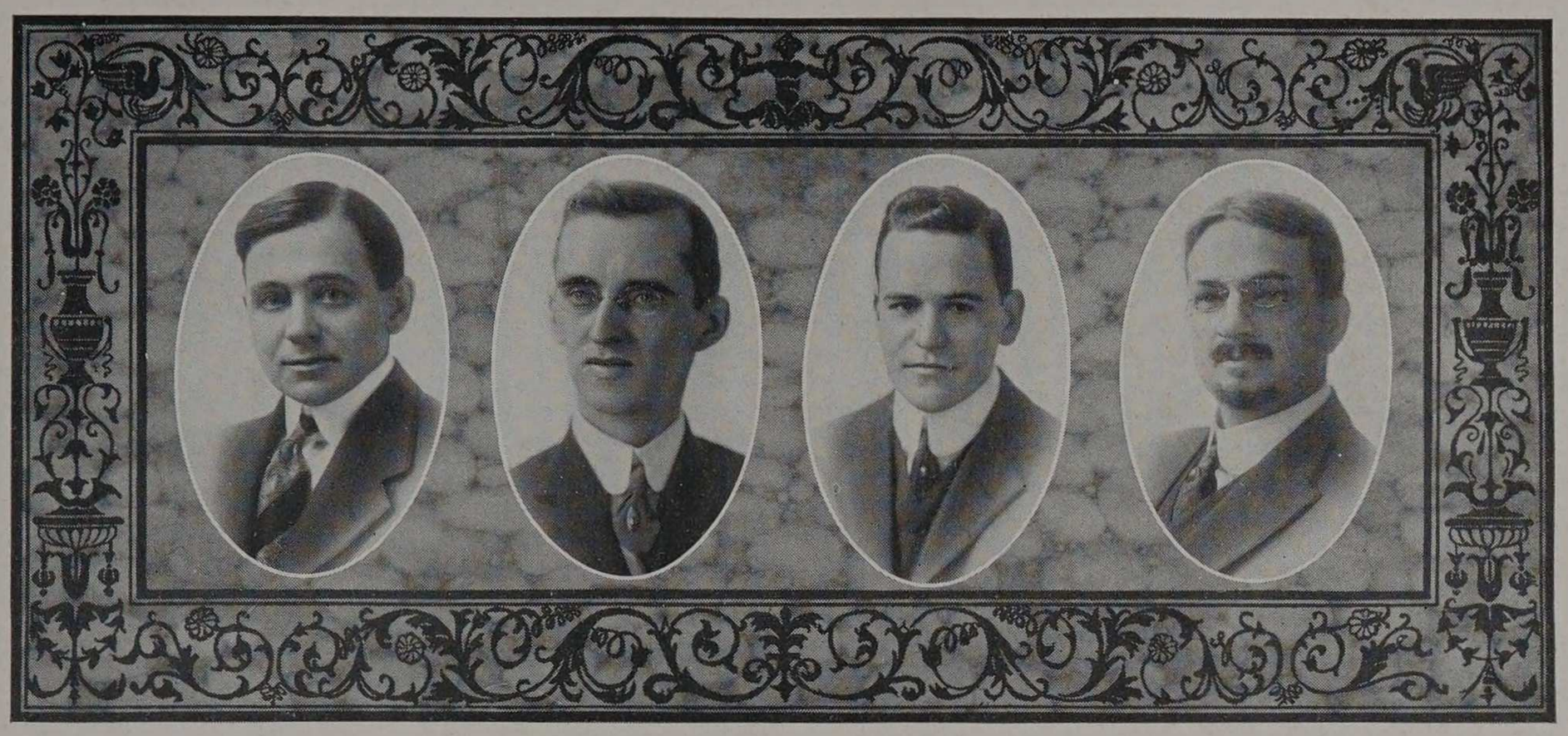
Assistant Professor of Electrical Engineering.
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CHARLES R. SWINEFORD

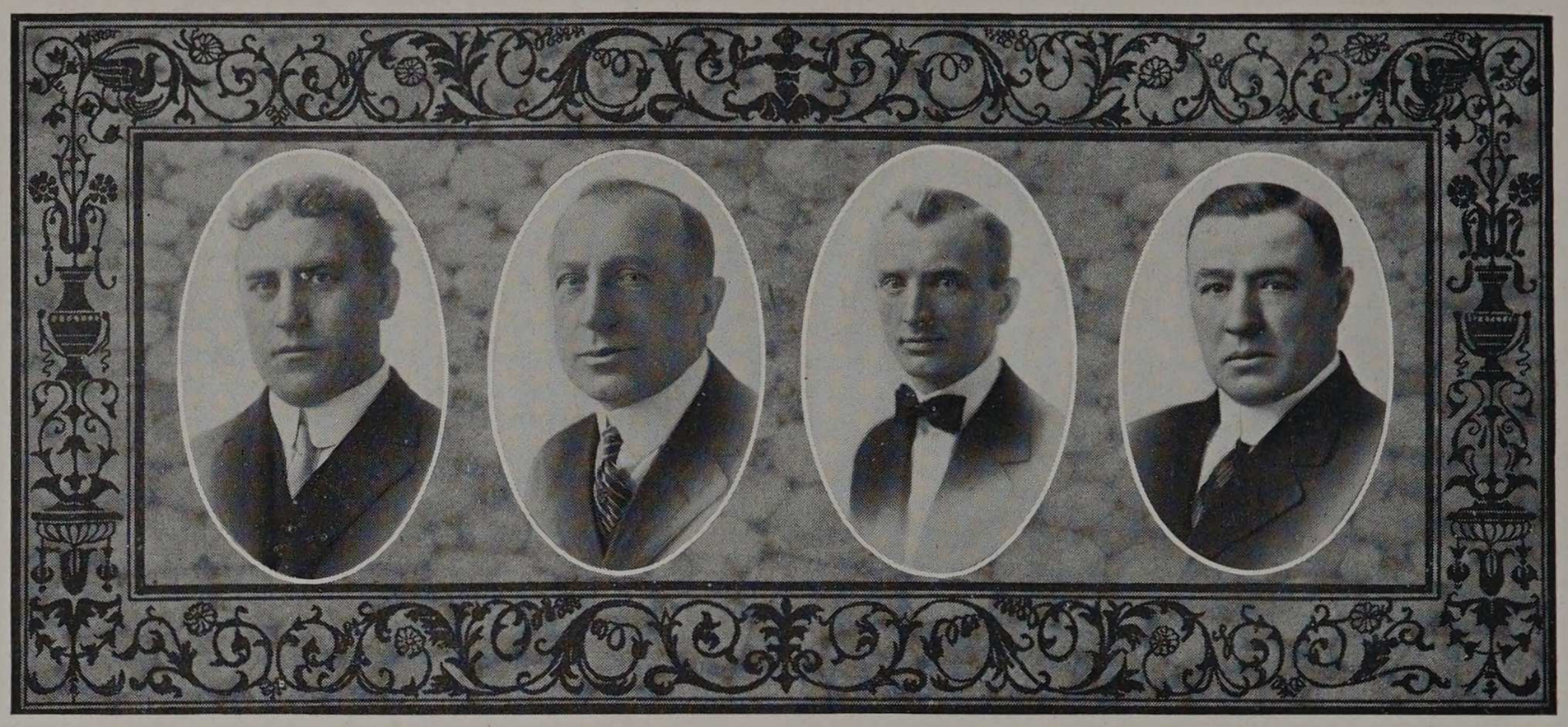
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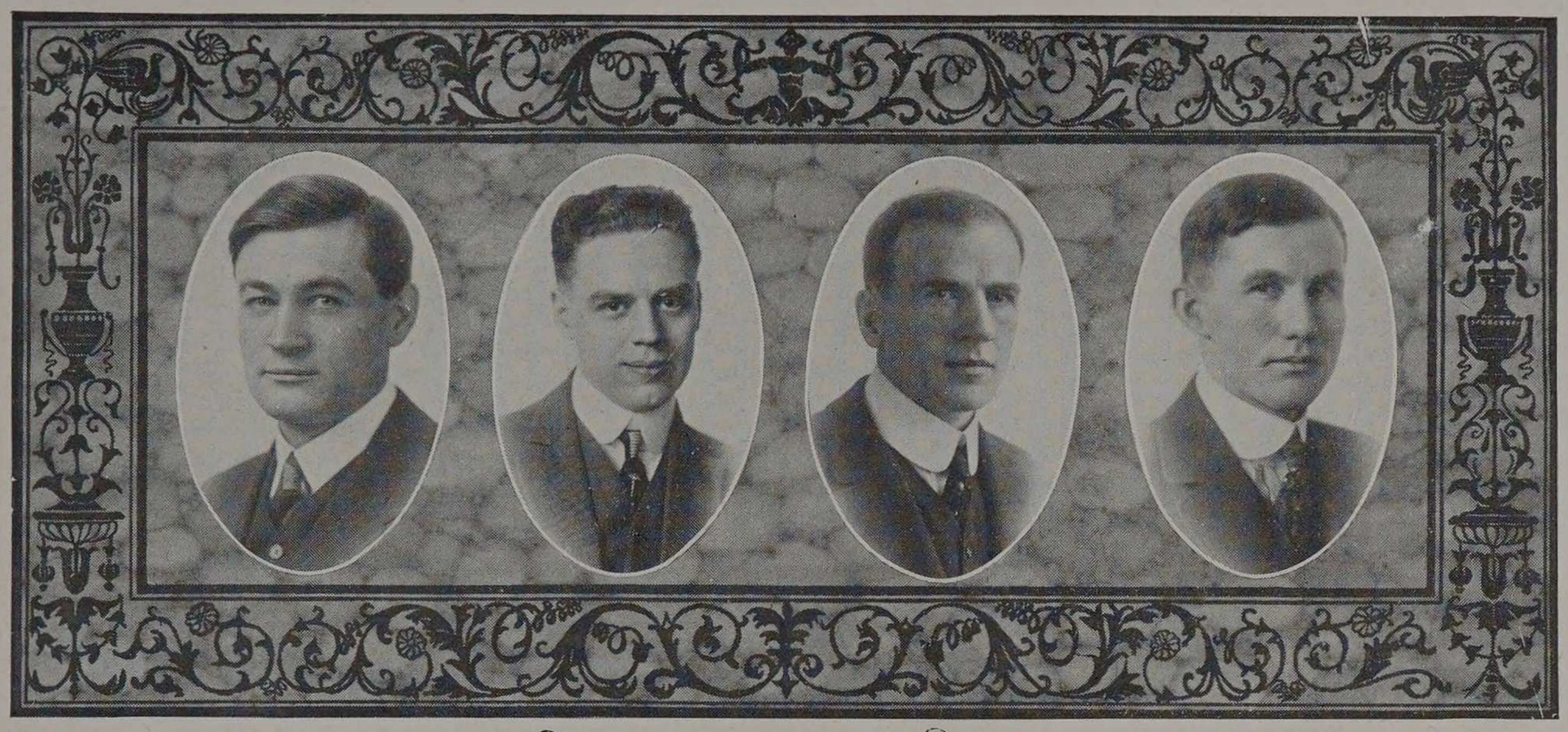
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Columbia University, Union College of Law, Kent Law School; LL.B.
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ELLYN CHAPIN BROOMELL

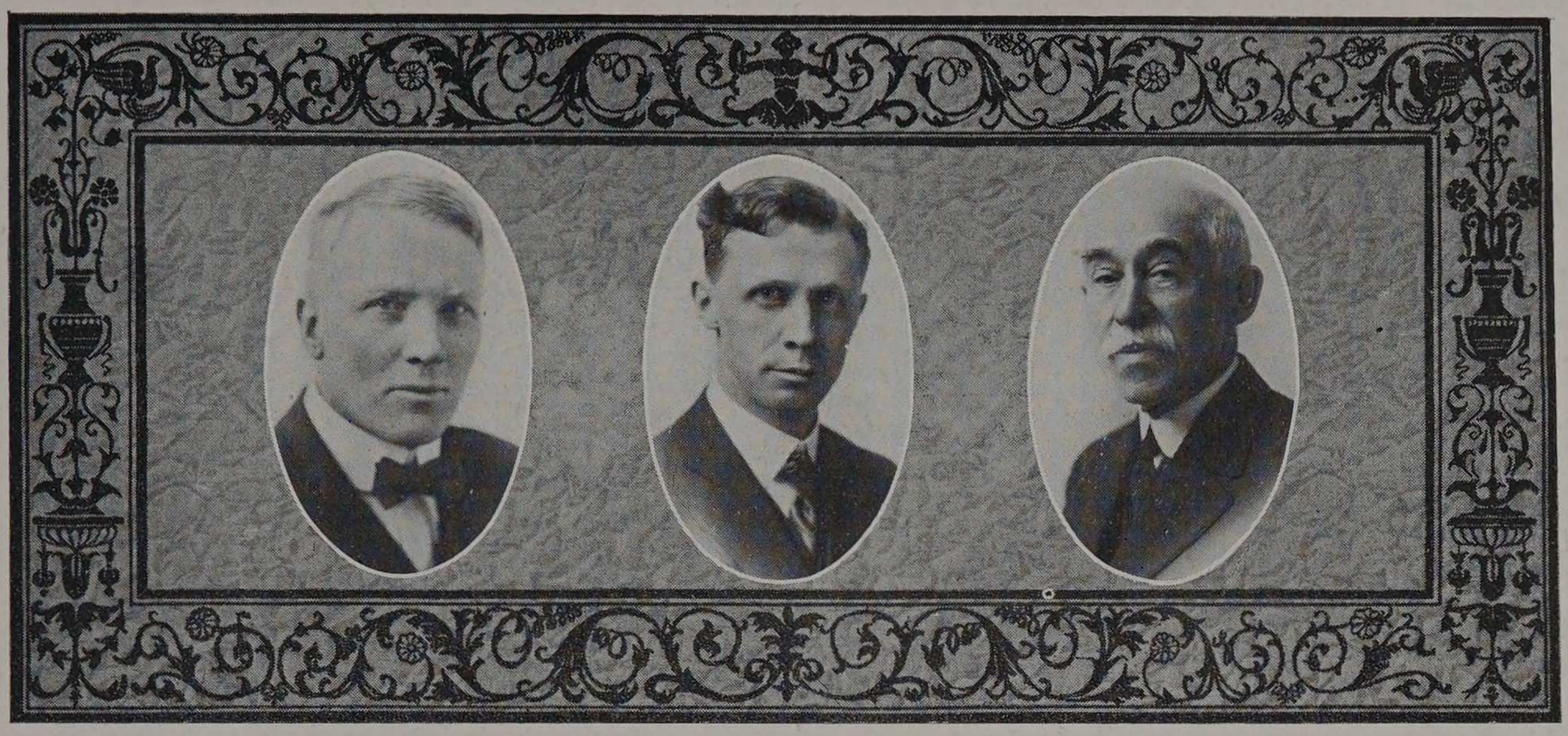
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AUGUST C. WILMANNS

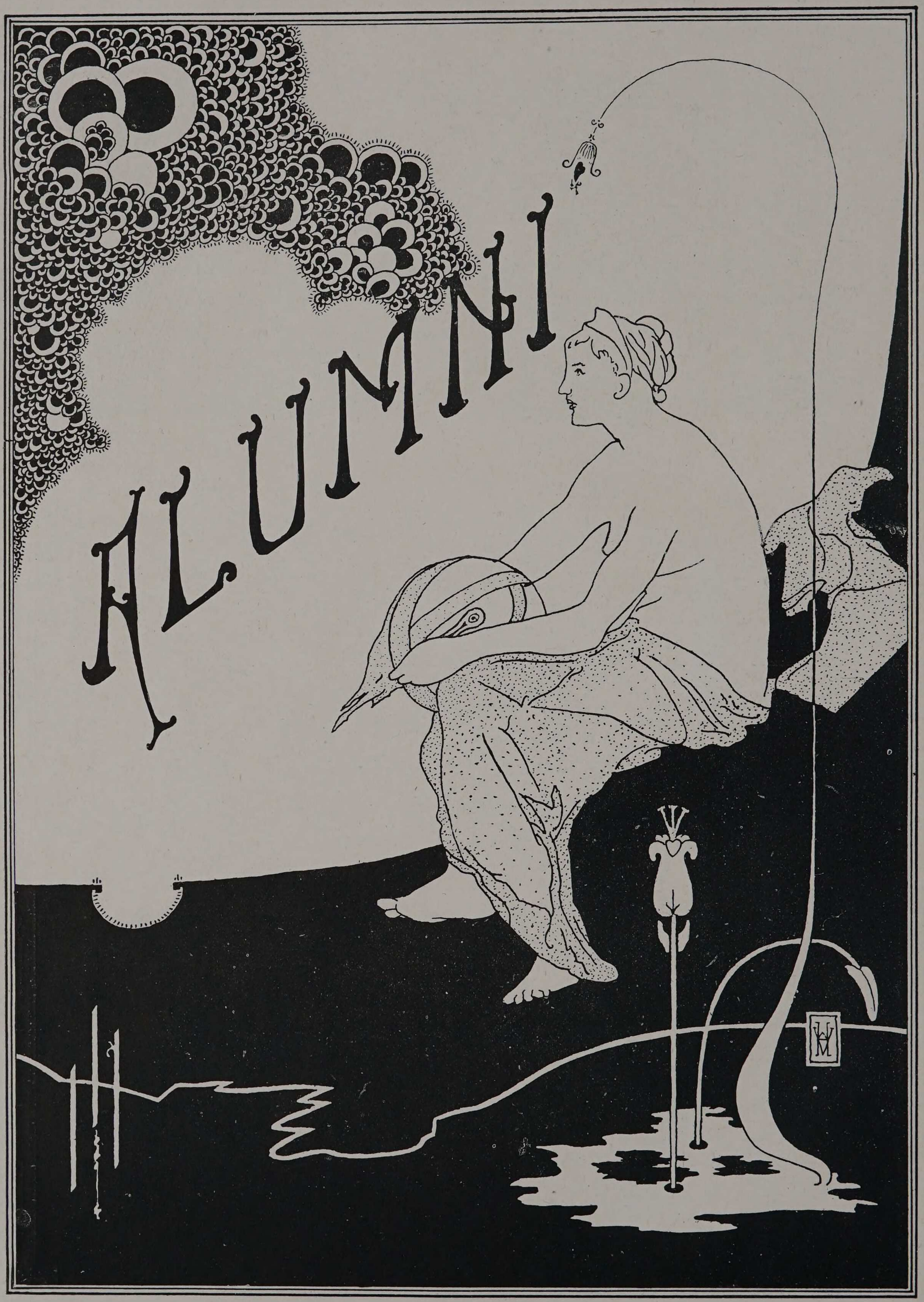
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M. E. Lewis Institute, 1910.
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Birthplace, South Byron, N. Y.
B.S., Cornell.
Residence, 5535 Kenwood Avenue.


ALUMNI

# Officers, 1917-1918

GROVER KEETH ..... *President*
E. C. WHITE ..... *Vice-president*
J. M. BYANSKAS ..... *Recording Secretary*
J. J. SCHOMMER ..... *Corresponding Secretary*
H. L. NACHMAN ..... *Treasurer*
M. L. FLINN ..... *Master of Ceremonies*

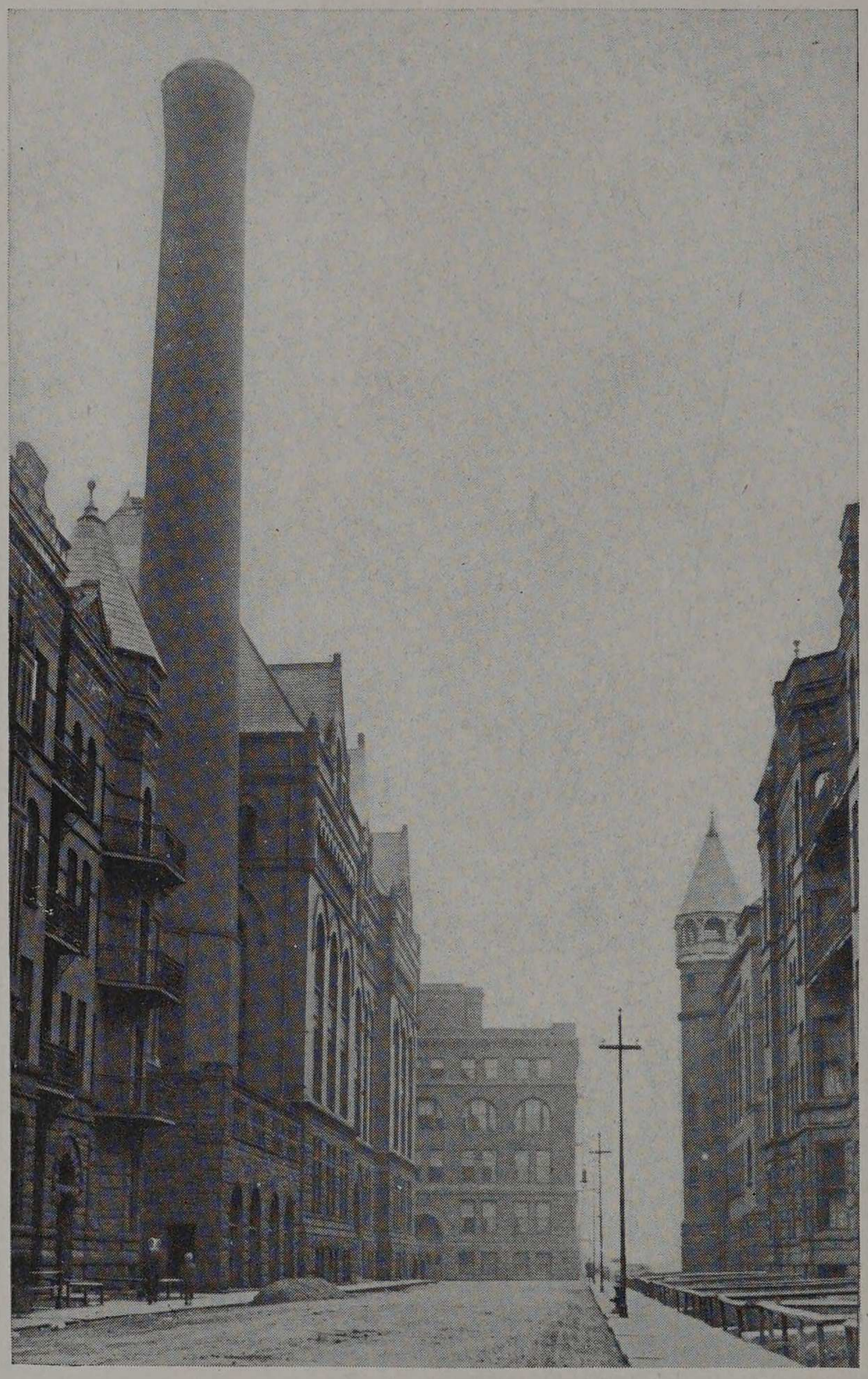
## Board of Managers

| Retiring in 1918 | Retiring in 1919 | Retiring in 1920 |
|---|---|---|
| E. G. HINDERT, '98 | T. A. BANNING, '07 | R. C. HENDERSON, '02 |
| F. G. HEUCHLING, '07 | H. E. BERKMAN, '09 | B. S. CARR, '15 |
| L. J. BYRNE, '04 | J. B. JOHNSON, '12 | W. J. BAER, '10 |

Founded in 1887

## Honorary Members

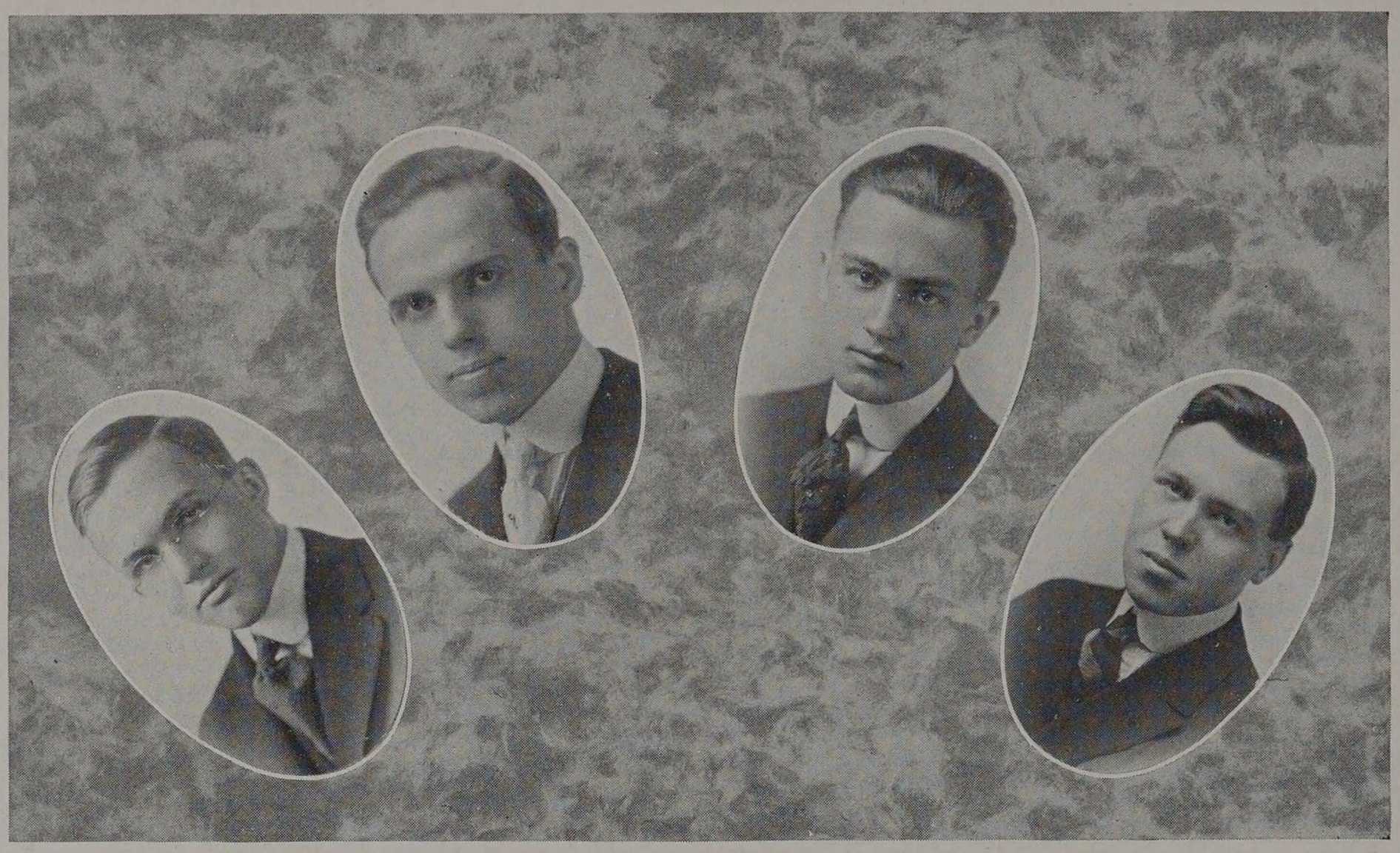
DR. F. W. GUNSAULUS, President, A. I. T.
L. C. MONIN, Dean of Cutural Studies, A. I. T.
H. M. RAYMOND, Dean of the Engineering Studies, A. I. T.
V. C. ALDERSON, President of the Colorado School of Mines.
J. E. SNOW, Associate Professor of Electrical Engineering, A. I. T.
F. U. SMITH, Comptroller, A. I. T.
W. T. MCCLEMENT, Queens University, Kingston, Canada.
BION J. ARNOLD, Consulting Engineer, Chicago Ill.
H. F. MCCORMICK, Chicago, Ill.



Approaching from the South on Federal Street

# SENIOR





DONALD E. CABLE

The Manufacture of Resorcin.
Born August 6, 1896. Harvey, Illinois.
Lane Technical High School.
Chemical Engineering.
Tau Beta Pi; American Chemical Society; A. Ch. E. S.; Y. M. C. A.; Glee Club; Class Basketball and Indoor Baseball, 1915-16, 1916-17; Junior Play; Chairman Membership Committee, Y. M. C. A. 1917-1918; Senior Class President.

K. A. TAYLOR

Design, Construction and Test of a Steam Air-Ejector.
Born August 31, 1896.
Evanston Academy, June, 1914.
Mechanical Engineering.
Beta Phi; Tau Beta Pi; A. S. M. E.; "A" Club; Sphinx; Varsity Basketball, 1915-1916, 1916-1917; Class Basketball, 1914-15, 1915-16, 1916-17; Asst. Editor Armour Engineer, 1917-'18; Pres. A. S. M. E.; Board of Athletic Control; Asst. Bus. Mgr. Cycle 1917; Vice-president Junior Class.

FRANCIS B. VOGDES

Radio Communication.
Born February 15, 1897.
Hyde Park High School.
Electrical Engineering.
Beta Phi; Eta Kappa Nu; A. I. E. E.; Y. M. C. A.
Secretary Class 1918.

FRANK R. JOHNSON

Investigation of the Oxidation of Potassium Manganate to Potassium Premanganate.
Born, May 25, 1896.
Calumet High School.
Chemical Engineering.
Tau Beta Pi; A. Ch. E. S.; American Chemical Society; Y. M. C. A.; Pres. A. Ch. E. S.; Chairman Meetings Committee, Y. M. C. A.; Class Treas., 1916-17-18; Junior Marshall.

# The Class of 1918

When the class of 1918 registered at Armour back in the fall of 1914, 150 strong, little did it think that only one third of that number would be able to complete the course. We are, needless to say, proud of our former classmates who are now so gallantly serving Our Country in this great World War.

We held our first class meeting early in the fall of 1914, and E. S. Beaumont was elected president. Through his leadership the boys became very well acquainted with each other, and it was not long until we became united so strongly that we dared to give the first dance of the year, contrary to all tradition, the "Freshman Mixer Dance". This got us "in bad" right royally with the upper classes, so that on the night of the Smoker-Rush, we could expect little help or sympathy from the Juniors, the Freshies' ally. Due to our larger number we subdued the Sophs in this so called rush.

In our Sophomore year S.L. Evans wielded the gavel; but even with the peppery little president we did not become any too active, owing to the complexity of the sophomore course, which kept us out of mischief, or rather almost out. The school and nearby residents will never forget the four foot 18's which decorated the side walks in this vicinity. Said figures seemed to spring up a la mushroom during the night prior to the rush. As is usually the case, the Frosh won the rush, all but about 20 of our gallant warriors evidently got the w. k. lack of heat in their pedal extremities.

Our Junior year was featured by the Junior week in which the Junior Play, Prom, and Circus Day were held. The Junior Play, it is safe to say was the best ever presented by any class. It was a musical comedy and the music was written by two of our classmates, Quinn and Chappelle. Puschel was our class president, Kerr first marshal in charge of Circus Day, and Quinn second marshal in charge of the Junior Play.

We now find ourselves therefore at the end of our college life, with these things attained:

Our dances were super-excellent, always a capacity crowd. Our participation in athletics was fairly good, Kerr, Hullinger, Taylor and Evans winning their A's. We have proven ourselves to be good actors, Ditto, painters.

As the 25th class of A.I.T. we hope to show the world how, and war activities will undoubtedly be the field of our immediate endeavors, for, to the last man we are behind the good old U. S.



## B. S. in E. E.

RAYMOND A. ERICKSON

Design of an Artificial Transmission Line.
Born July 7, 1895. Lake View, Iowa.
Lake View High School, January 6, 1913.
Electrical Engineering.
Omega Lambda; Eta Kappa Nu; A.I.E.E.

Ray came to us four years ago, and did not make much noise about it. Ever since he entered Armour he has been pretty quiet, when there is a crowd around, but in small parties you will hear the Swede above all others. Studies never did bother Ray much until the last week of the semester, but grades show that he was on the job all the time. We wish the "Skipper from Iowa" the best success in the future, and feel sure he will make good because he just can't help himself.

ALAN H. FERGUSON

Radio Communication Course.
Born January 12, 1895. London, Ontario, Canada.
London Collegiate Institute, 1914.
Electrical Engineering.
A.I.E.E.; Y.M.C.A.
Class Baseball, 1915; Class Indoor 1915, 1916, 1917.
Senior Class Vice-president.

"Eff." came from Canada to find a quiet place, but got here just in time to get into the first draft. After completing the governments radio course he expects to matriculate as a Lieutenant at one of Uncle Sam's camps. If anyone can get the Kaiser's goat, why Effingham can.

JEROME W. GOLDSTEIN

Radio Communication.
Born March 24, 1897. Chicago, Ill.
Crane Technical High School, 1914.
Electrical Engineering.
Y.M.C.A.; A.I.E.E.
Class Indoor Baseball 1915-16, 1916-17; Volley ball team 1916-17; Chairman Pin Committee.

When "Stein" couldn't be found around the places of learning, one could usually find him engaged in a hot game of volley ball up in the gym. This strenuous sport, however, has not appeared to interfere with his studies, for he has a good average in his studies, and is a "Bear" at explaining A.C. circle diagrams. Nuf Sed.

EDWARD HAIZMAN

Born December 29, 1894. Chicago, Illinois.
Crane Tech. June 1914.
Electrical Engineering.

Crane "Tech" men are usually welcome at Armour, but Haizman has made himself doubly welcome. Ed was one of the boys who took the Junior Year electrical work during the summer of 1917 and came up with his customary smile in the fall. A demon for work, a quiet but aggressive old plugger with a perpetual smile, who never says quit. We're strong for you Ed.

AXEL AUGUST HOFGREN

Radio Communication.
Born September 19, 1896. Chicago, Illinois.
Bowen High School, 1914; Lane Junior College 1916.
Electrical Engineering.
Omega Lambda; Eta Kappa Nu; Tau Beta Pi; A.I.E.E. Glee Club; Quartet 1918; Secretary A.I.E.E.

In spite of the imposing array of honors given above, the "Big Swede" is a real regular sort of a fellow. In the two years, he has been with us, he has made great progress as a student, a singer,—and a dancer. We look for great things from Axel in the "Greater School."

## B. S. in E. E.

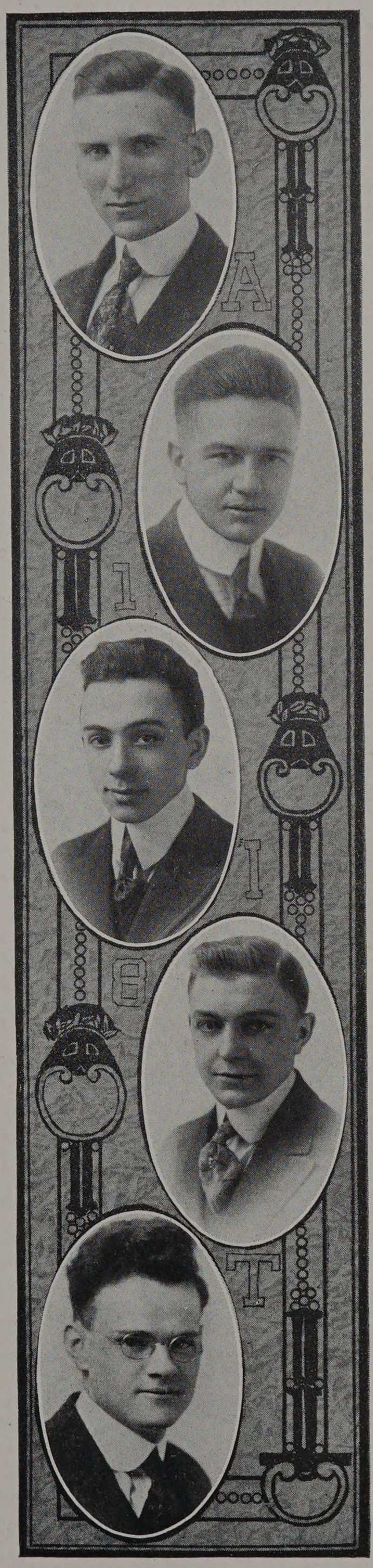
O. M. Hullinger, Jr.
Design of an Artificial Transmission Line.
Born April 30, 1895. Nashville, Michigan.
Hyde Park High School 1913.
Electrical Engineering.
Omega Lambda; Eta Kappa Nu; "A" Club; A.I.E.E. Varsity Baseball 1915-16; Social Committee 1918; Representative Board Athletic Control 1916-17; Vice-president Rooters' Association 1917-18; Statistician "A" Club 1915-16.
Our star 1st Baseman—He made the Tech team in his freshman year, but now has his exemption because of being wounded on the battle ground at Ogden Field in 1916. He hopes to cover the home plate soon after obtaining a new diamond—contrary to all published data. Ora Merle is a hard worker, and deserves all the credit we can give him for he has worked eight hours a night to put himself through school.

Vernon E. Hupp
Design of an Artificial Transmission Line.
Born October 10, 1893. Slater, Missouri.
Slater High School 1910.
Electrical Engineering.
Omega Lambda; Eta Kappa Nu.
"Vern" as you see was from the "Mule State" and, as is customary for those of his kind, he claims he has to be shown. This is sometimes true, but if Hupp doesn't see it, nobody else will. He is always on the job and willing to help anyone in any way he can.

Ralph A. Newlander
Illumination-Current Relation of a Sclenium cell.
Born September 12, 1897. Chicago, Illinois.
Joseph Medill High School 1913.
Electrical Engineering.
Chairman, A.I.E.E.; Class track 1915-16-17; Class indoor baseball 1916-17.
Ralph is numbered among the aggressive "Armour" men who has found time to take part in everything worth while, make good as a student, and work his way through by working evenings. During his Junior Year he was the recipient of the Catherine White Scholarship.

Roman J. Sedlacek
Radio Communication substituted.
Born November 14, 1897. Chicago, Ill.
Crane Technical High School 1914.
Electrical Engineering. A.I.E.E.
"Sed" was one of the crowd that came here two years ago from Crane. We wish he had been with us four years, he and his side kick Haizman; for to hear them "ride" each other is par with Kolb and Dill. Sed shot through drawing like a demon on wheels, having done his Junior drawing on half schedule; besides finding time to drop down to the floor below to have a few clicks with the ivories.

Francis Patrick Shea
Radio Communication substituted.
Born March 17, 1896. Chicago, Ill.
Bowen High School June 1914.
Electrical Engineering. A.I.E.E.
Like all the "byes" whose ancestors are from the "Ould Sod" Shea is a good fellow, and would give anyone the coat off his back. He belongs to the night owls of Armour, having worked nights at the South Shore Country Club, but associating with the high brows didn't bother him a bit. He was surely doomed to be an engineer for we see his initials are F.P.S. (Ft. Lb. Sec.)





## B. S. in E. E.

HAROLD HUYCK SHOTWELL

Born August 19, 1896. Midland, Michigan.
Englewood High School, 1914.
Electrical Engineering Course.
Tau Beta Pi; Omega Lambda; Eta Kappa Nu; A.I.E.E.; Sphinx; Glee Club; Radical X; Social Committee 1914-15; 1915-16; 1916-17; 1917-18; Chairman 1915-16; Advertising Manager 1917 Cycle; Assoc. Bus. Mgr. 1918; Armour Engineer; Treas. A.I.E.E. 1917-18, Junior Play.

Shotwell is a true disciple of Marconi, being so proficient in that pursuit that he has been selected by the deans to conduct classes in code practice at the Institute. "Joe" has been very popular at the Tech. as his list of activities shows; and he has the distinction of being a good fellow, a Beau Brummell, and yet a 100% student. Men of these characteristics can never fail, and we are proud to have him with us in this class of 1918.

FRANCIS BROOKE VOGDES

Radio Communication substituted.
Born February 15, 1897. Philadelphia, Pa.
Hyde Park High School.
Electrical Engineering.
Beta Phi; Eta Kappa Nu; A.I.E.E.; Y.M.C.A.; Secretary class 1918.

"Brookes" is our genius. Just look at his record if you don't believe it, or ask all of his co-electricals. But, don't think that he is a grind. Ask him to box with you and you'll find out more.

## B. S. in M. E.

GUY LAWRENCE ANDRE

Humidifying Air in Living Rooms.
Born April 24, 1889. Everest, Kansas.
Horton Kansas High School 1906.
Mechanical Engineering.
A.S.M.E.; Beta Phi; Class Baseball 1913-14; President Freshman Class 1913; Chairman Social Committee 1914-15.

Andre is our "come back" man, having been forced to discontinue his studies during the middle of his Junior year. In the fall of 1917 he returned, and is knocking out 1½ years work in one, which is no snap in the Mechanical Course. Andre was captain of the freshman baseball team, and caught on the sophomore team, both of which were interclass champs.

WM. BELKE

Coke Breeze Briquetting.
Born January 30, 1898. Chicago, Ill.
Crane Technical High School, June 1914.
Mechanical Engineering.

It is reported that just three times since entering Armour, Bill has been caught without a smile. The mechanicals, a happy bunch at all times, found in Belke just the right sort to "laugh" them over the rough spots, and we are convinced that his smile will leave its trail along the commercial highways.

EDWARD J. DURHAM

Installation and Operation of Boiler Control Apparatus.
Born June 13, 1897. Chicago, Illinois.
Crane Technical High School.
Mechanical Engineering. A.S.M.E.

"Bull" Durham, has gained a prestige at Armour not through his physical power, for he is a small man, but through his hard, consistent, daily brain work and continual good humor. It was seldom that any one of the class ever finished any part of the work ahead of "Bull."

## B. S. in M. E.

VOLNEY A. KERR

Design Construction and Testing of a Steam Air Ejector.
Born June 29, 1895. Wellsville, N. Y.
Wellsville High School, June 1914.
Mechanical Engineering Course.
A.S.M.E.; Beta Phi; Honor "A" Club; Baseball 1916; Basketball 1915-16; 1916-17; (Varsity and class), Track 1916; Jr. 1st Marshall, class of 1918; Sect. A.S.M.E. 1917-18; Stat. Honor "A" Club 1916-17; President Rooter's Association, 1917-18.
Volney came to Armour as a Sophomore but his "peppy" ways soon made him known as "A Regular Armour Man". He won his A in basketball, track, and baseball, during his first year with us; and as First Marshall of the Junior Class he gave all the Armourites a good time on Circus Day. His extreme modesty, and encouraging ways gained for him much popularity and many friends.

SASAKI TOMIGORO

Small Steam Electrical Power Plant in Japan.
Born 1888. Osaka Japan.
Osaka Higher Technical College, Japan, 1908.
Mechanical Engineering.
"Irish" doesn't think Armour can give him all he wants, so he is going to the M.I.T. to finish up. After this he plans on going back to Japan, where, as he tells us, labor is cheap and two bits goes a long way.

K. A. TAYLOR

Design Construction and Test of Steam Air-Ejector.
Born August 31, 1896.
Evanston Academy, June 1914.
Mechanical Engineering.
Beta Phi; Tau Beta Pi; A.S.M.E.; "A" Club; Sphinx; Varsity Basketball, 1915-16; 1916-17; Class ball, 1914-15; 1915-16; 1916-17; Asst. Editor Armour Engineer 1917-18; Pres. A.S.M.E.; Board Athletic Control 1915-16; Asst. Bus. Mgr. Cycle 1917; Vice-president of Junior class 1918.
"Deeds not words", is Kat's motto; and yet, he never complains of being too busy to take part in school activities, or to help a friend. His exceptional talents along scholastic, literary, and athletic lines are reflected in the honors he has earned.

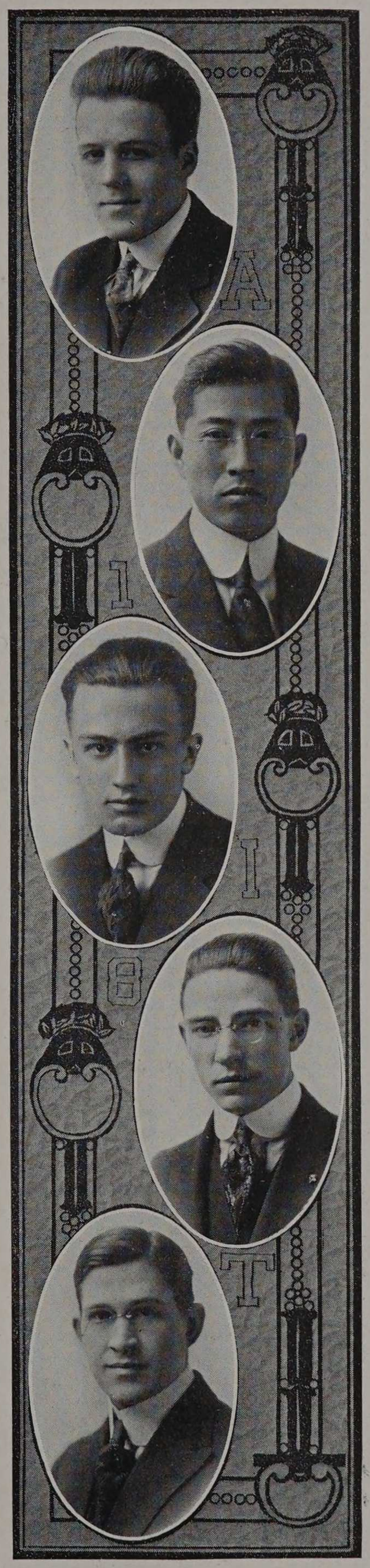
## B. S. in C. E.

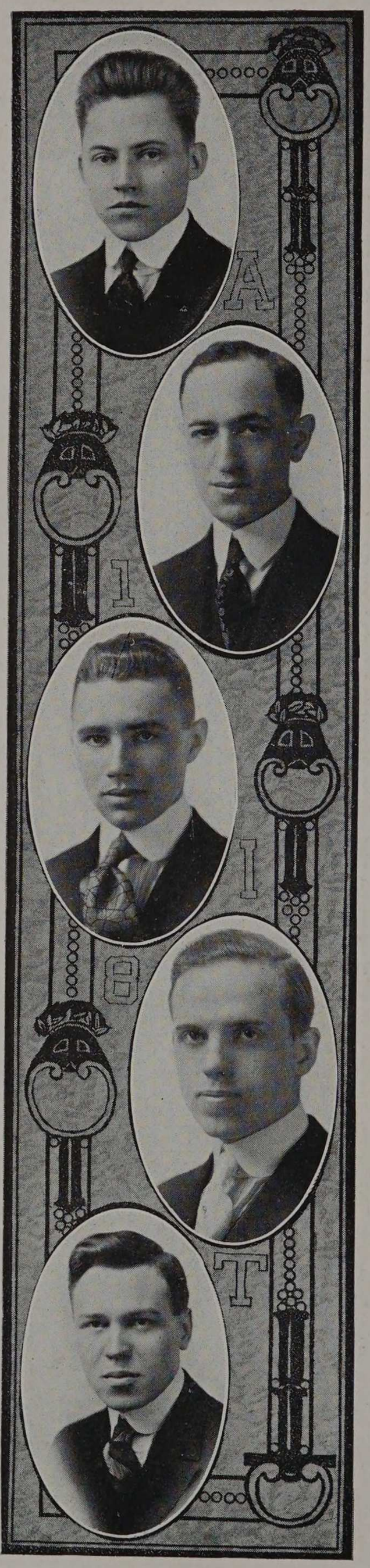
LESTER CLAYTON BUSH

Power Consumption Test of a Bascule Bridge.
Born July 27, 1894. Central City, Colorado.
Victor High School, June 1913.
Civil Engineering. A.C.E.S.
"Elsie" is one of the hardy miners, from out West, who having served his apprenticeship as a mucker, trammer and mule-skinner, thought the possum crew too slow for him and decided to try his hand at Civil Engineering. That he has made good goes without saying, Although he doesn't say much, you can always depend on "Elsie" to come across in a pinch. His many friends at Armour wish him success in his battle with the cold, cruel world.

BLOIS BERT CRAMER

Design of a Reservoir for a Cantonment of 40,000 men.
Born August 12, 1895. Shelbyville, Ill.
Lane Tech. 1914.
Civil Engineering. Armour Civil Engineering Society.
Little "Blois" will long be remembered as the hero of the 1917 summer camp "Snipe Hunt". His ability to assimilate punishment and come up smiling will always stand him in good stead. Now that Cramer is leaving we fear that Prof. Wells will be very lonesome indeed.





## B. S. in C. E.

VICTOR M. CROWN

Power Consumption Test of a Double Deck Bascule Bridge.

Born January 1, 1893. Chicago, Illinois.

Lane Technical High School, Feb. 1912.

Civil Engineering.

A.C.E.S.; A.I.E.E.; Y.M.C.A.; Mandolin Club, 1915-17; Sigma Kappa Delta; Senior Cycle Representative; Treasurer, A.C.E.S.

Our teacher-student. After attending Lane College, Crown went to Cuba as a teacher, where he remained several years, saving money enough to enable him to continue his college course at Armour.

JESSE NITKA

Determination of Actual Stresses in Stirrups of Reinforced Concrete T-Beams.

Born November 21, 1889. Warsaw, Poland.

A.I.T. Evening classes year of 1914.

Hydro-Electric.

Eta Kappa Nu; Tau Beta Pi; A.C.E.S.; Pres. A.C.E.S.

After years of hard work and preparation in evening school, Jesse decided to come to Armour; and those that know him are well aware that he has made things count in the last four years.

LESLIE WEISS

Determination of Actual Stresses in Reinforced Concrete T-Beams.

Born September 17, 1896.

North Division High School 1914.

Civil Engineering.

Eta Kappa Nu; Sphinx; A.C.E.S.; A.I.E.E.; Y.M.C.A.; Beta Phi; Tech. Basketball 1916; Interclass basketball 1915-16-17; Interclass baseball 1915-16; Business Mgr. of 1918 Cycle; Business Mgr. of Armour Engineer; Pres. Sphinx Society 1918; Secretary A.C.E.S. 1918; Member of Social Committee 1917-18; Member of Freshman Smoker Committee 1916.

Les. is one of the few who have been able to be active in class activities, organizations, society life, athletics, school publications and maintain a good scholastic standing.

## B. S. in Ch. E.

DONALD E. CABLE

The Manufacture of Resorcin.

Born August 6, 1896. Harvey, Illinois.

Lane Technical High School, 1914.

Chemical Engineering.

Tau Beta Pi; American Chemical Society; A. Ch. E. S.; Y.M.C.A.; Glee Club; Class Basketball and Indoor Baseball 1915-16,1916-17; Vice-president A.Ch.E.S. 1916-17; Junior Play Chairman Membership Committee, Y.M.C.A. 1917-18; Senior Class President.

Donald is a good example of an ideal student. During the two years that he has been with us he has shown a surprising capacity for work as well as for a social function now and then.

FRANK R. JOHNSON

Investigation of the Oxidation of Potassium Manganate to Potassium Permanganate.

Born May 25, 1896. Chicago, Illinois.

Calumet High School. Chemical Engineering.

Tau Beta Pi; Armour Chemical Society; American Chemical Society; Y.M.C.A; Sec. Tau Beta Pi; Pres. Armour Chemical Society; Chairman Meetings Committee Y.M.C.A.; Class Treasurer 1916-17-18; Junior Marshall; Asst. to Prof.Krathwohl 1916-17; Asst. to Prof. McCormack 1917-18.

"Doc" is the only auburn haired beauty in the class and, although class treasurer, he is one of our most popular students.

## B. S. in Ch. E.

WALTER WILLIAM KOEHLER

Deposition of Zinc on Iron and Steel.
Born February 14, 1896. Chicago, Illinois.
Lane Tech. High School February 1915.
Beta Phi; A.Ch.E.S.; Senior Program Committee; Secretary A.Ch.E.S.

Walter is another one of our 1918'ers who has selected Chemical Engineering as his course. He picked the right one and we know that he will make good. When something goes wrong just let Walter know and he will be ready to help.

J. IRVING PREST

The Manufacture of Resorcin.
Born May 25, 1892. Chicago, Ill.
Lane Technical High School 1910.
Chemical Engineering. A.Ch.E.S.

When a chemical gets isolated up on that fourth floor, wedged between a wash bottle and a filter flask, it means you won't see very much of him.

## B. S. in F. P. E.

EVERETT RICHARD COLE

Open Nozzle Test of 33 gallon Chemical Fire Engine.
Born September 3, 1897. Chicago, Ill.
Crane Technical High School June 1914.
Fire Protection Engineering.
Omega Lambda; Tau Beta Pi; Glee Club 1917-18; A.F.P.E.S.; Class Track, Basketball, and Baseball; Treasurer of Class 1915-16; Member Senior Picture Committee.

Cole is one of the youngest members of the class and to see his scholarship record would lead one to believe that the number of A's varies inversely with his age. He was awarded the first F.P.E. scholarship to Armour. He has always been active in athletics, and would surely have landed an "A" if athletics had been continued.

S. LAYTON EVANS

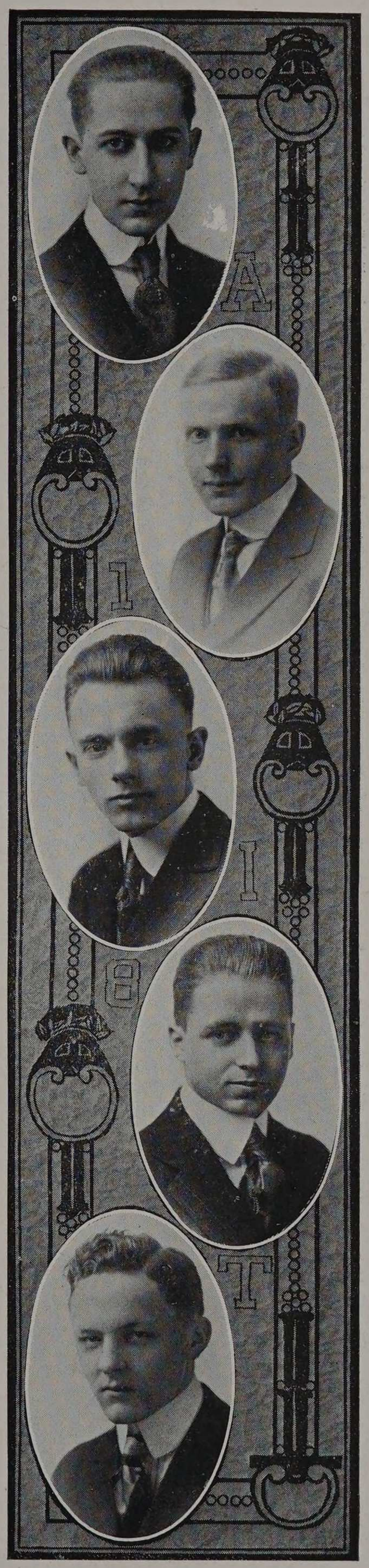
Open Sprinkler Distribution, on Ridge-poles and Cornices.
Born February 24, 1895. Milwaukee, Wisconsin.
East Division High School, Milwaukee, 1912.
Fire Protection Engineering.
Omega Lambda; A Club; Junior Play Cast; Tau Beta Pi; A.F.P.E.S.; Radical X; Class Track 1915-16-17; Varsity Track 1915-16; Class Baseball 1915-16; Class Secretary 1914-15; Class President 1915-16; Rooters Representative 1914-15-16; Social Committee 1916-17; Cycle Representative 1914-15-16.

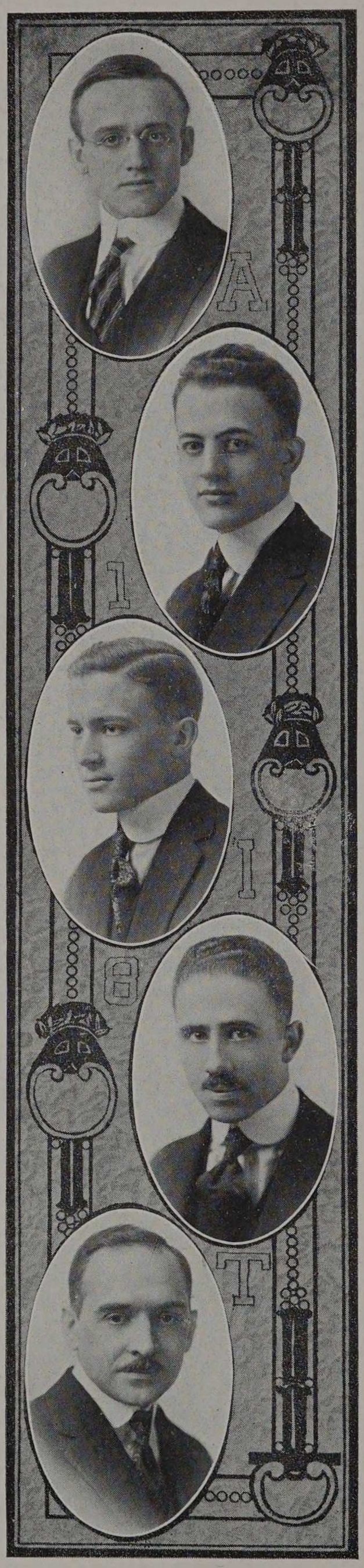
Shorty is without doubt the biggest little man in college, and has made a host of friends at Armour with his whirlwind ways. One of the best "milers" in the little "5", the father of two bewitching maidens in the W. K. Show, and a dignified class president, he has surely proven himself to be an all around man. We hate to lose him.

RICHARD N. MANN

Open Sprinkler Distribution on Ridge Poles and Cornices.
Born August 12, 1898. Portland Oregon.
University High School 1914, Chicago.
Fire Protection Engineering Course.
A.F.P.E.S.; Glee Club; Omega Lambda; Tech. Quartet; Y.M.C.A.; Junior Play; Secretary class 1915-16; Rooters Association Rep. 1916-17; Senior picture committee; Class Rush committee 1916; Leader Glee Club 1916-17, 1917-18.

Dick; Dits;—they all refer to the same fellow. He has held many honors at college, and the greatest of these is Leader of the Glee Club. But Dick is a real sort, and a born leader, active and interested in every class affair.





## B. S. in F. P. E.

FREDERIC EUGENE MARX

Born August 12, 1892. Chicago, Ill.
Wendell Phillips High School, 1910.
Fire Protection Engineering.
Omega Lambda; Tau Beta Pi; Glee Club 1915-16-17; Y.M.C.A.; A.F.P.E.S.; Secy. Y.M.C.A. 1918; Class Secy. 1917; Property man, Junior Play, 1917; Chairman Program Committee 1918.
"Freddy" had a perfect attendance in Sunday School one year, so in coming to Armour he naturally started to put the Y.M. on its feet. But, Fritz is a good scout and the class of '18 knows that he will reflect credit on his Alma Mater.

HERBERT WILLIAM PUSCHEL

Open Nozzle Test of 33 Gallon Chemical Fire Engine.
Born May 6, 1896. Chicago, Ill.
Lake Technical High School, June 1914.
Fire Protection Engineering Course.
Sigma Kappa Delta; A.F.P.E.S.; Y.M.C.A.; Sphinx Society; Freshman Representative of Fulcrum; Sec. Y. M.C.A. 1916; Pres. Y.M.C.A. 1917; Sec. A.F.P.E.S. 1916-17; Vice president Soph. Class; Pres. Junior Class; Managing Editor of 1917 Cycle; Junior Play; Program Committee; Sec. and Treas. Sphinx Society, 1916-18; Editor 1917-18 Armour Engineer.
Push certainly does credit to the name. He is "into everything". It is this sort of man who is bound to succeed, when he finds time and energy for every branch of college activity. We are lucky to have one or two like him, when so many have already gone to war, as Class Spirit would be a dead letter without them. He is an example of that much discussed, but seldom encountered "Regular Armour Man".

R. H. RUSK

Open Nozzle Test of 33 Gallon Chemical Fire Engine.
Born June 27, 1895. Ogden, Ill.
North Yakima High School, North Yakima, Washington, June 1912.
Fire Protection Engineering.
Omega Lambda; A.F.P.E.S.; A.S.A.; Chairman Social Committee 1917-18.
Although Rusk entered Armour as an Architect, one year of Armour training uncivilized him, and he changed to the "Fire Protection Engineering Course". Rusk was a beautiful damsel in the Junior Play and he is quite undecided as to his vocation after graduation. He would like to be an actor, but after spending four years in the F.P. course he really thinks his duty to his country is to be a "Plumber."

## B. S. in A.

HARRY GLUBE

Born October 8, 1894.
Lane Technical High School, 1914.
Architecture.
The Ohr and Armour Architectural Society.
Glube is one of those men who made the course in Architecture in three and one-half years. Harry is always willing to help any social affairs at the Art Institute. His industriousness won the respect of the fellows and we are sure that he will succeed in his first job.

PERICLES GRAMMAS

A Public Mausoleum.
Born May 5, 1884. Padras High School.
Padras, Greece. Architecture.
Armour Architecture Society.
"A chip off the old block", that is a true descendant of the noble Greek of old. A great lover of all beautiful things; especially architecture. Besides that, this Hellenic American has always been a real friend to all the fellows. Hark ye: He's our first Greek graduate.

## B. S. in A.

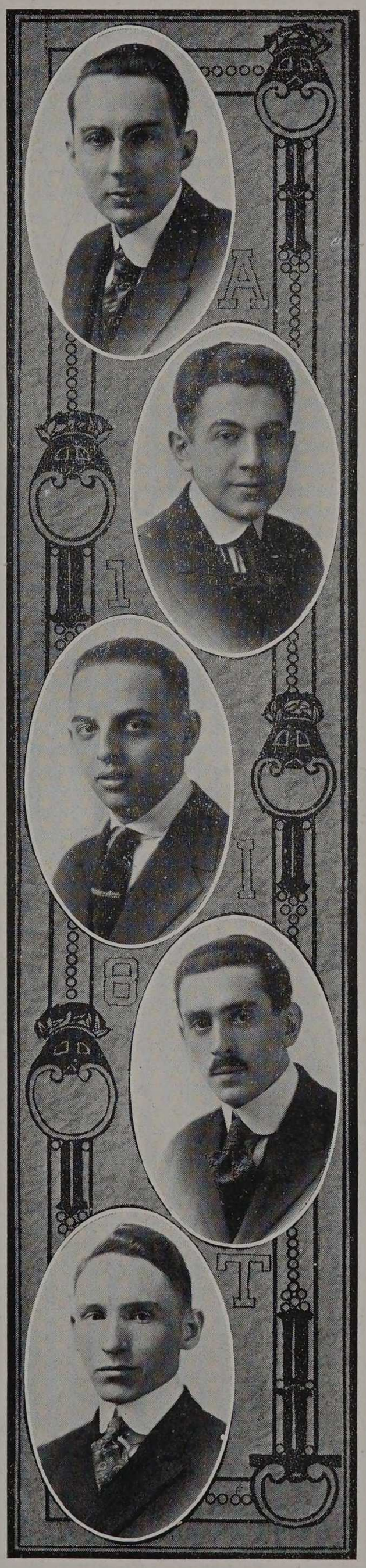
STENNETT C. HULBURT
Born April 26, 1892. Whitewater, Wisconsin.
Beloit Academy, 1911.
Architecture.
A.S.A.; Scarab; Mandolin Club; Purchasing Agent Atelier.
Stennett is an experienced hand at this "Cap & Gown" stuff, having acquired a B.A. degree in Economics at Beloit 1915. He "made" Armour in three years, and has an enviable record notwithstanding. He is to be congratulated on "sticking out" his time here, as it is well known where his interest is centered. Success and happiness beyond the shadow of a doubt.

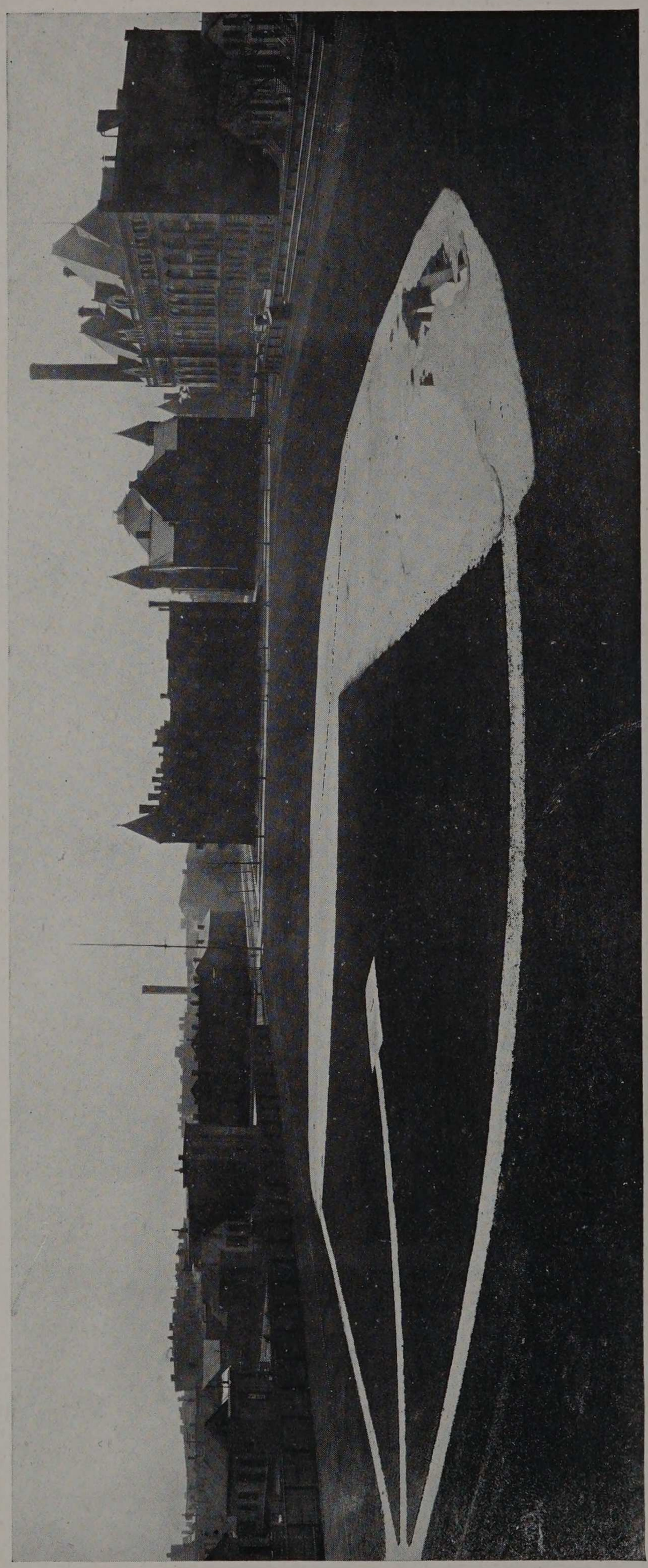
EDWARD PAUL LEWIN
Born July 17, 1895. Chicago, Ill.
Crane Tech. High School 1912.
Architecture.
Armour Architectural Society.
Ed. sure is there, when it comes to engineering, being capable of solving any problem in "Graphic Statics", "Steel and Concrete". An exceptionally good mathematician and an excellent all around student. His charming smile instills confidence. Surprised Prof. Krehbiel by his remarkable progress in freshman drawing. As a pianist, is always ready to preform at all social activities of the Architectural Society and Art School.

DAVID A. PAREIRA
"A Public Mausoleum".
Born March 3, 1896. Girard, Ill.
Soldan High School 1914, St Louis, Mo.
Architecture.
Armour Architectural Society.
Although not a native of the "show me" State, Dave cannot help showing by his open character and wide imagination that he was raised under the influence of the valley of Mississippi. His impressive personality and friendliness has given him a place of distinction among his classmates. Saying anything about Ukelele playing, well, the Armour "Uks" say that Dave is a native of Hawaii.

LEWIS EDWARD TWERY
Born July 4, 1893. Chicago, Ill.
Y.M.C.A. High School, June 1914.
Architecture.
Beta Phi; Armour Architectural Society; President of Class, Architectural Society, in Freshman, Sophomore and Junior Year.
Since entering Armour, Lew has always taken an active part in student activities, besides working his way through college. Was Art Editor of the Cycle 1917. Took one of the leading parts in the Junior Play (The Lucky Seventh) and since then has acquired the becoming title of "Duke". Outside of Architecture Lew has acquired quite a reputation as a Chalk Talk Artist. Was an excellent student and very well liked.

WM. CAMPBELL WRIGHT
Born September 15, 1896. Chicago, Ill.
Lake Tech. 1914.
Architecture.
Scarab; Tau Beta Pi; Sphinx; A.S.A.; Y.M.C.A. ;Class Track 1914-15; Humor Editor of the 1917 Cycle; Treasurer of A.S.A. 1917; President 1918.
"The Campbell's" are coming hurrah, hurrah!" Our "Frank Lloyd" of Art Institute fame has twice been spared the agony of parting with 175 "iron men". Scholarships, next to fair women, are his specialties. B.L.T. has nothing on him for criticism. Brains, plus wit, plus skill, linked with Scotch "pep", makes his future an assured success.

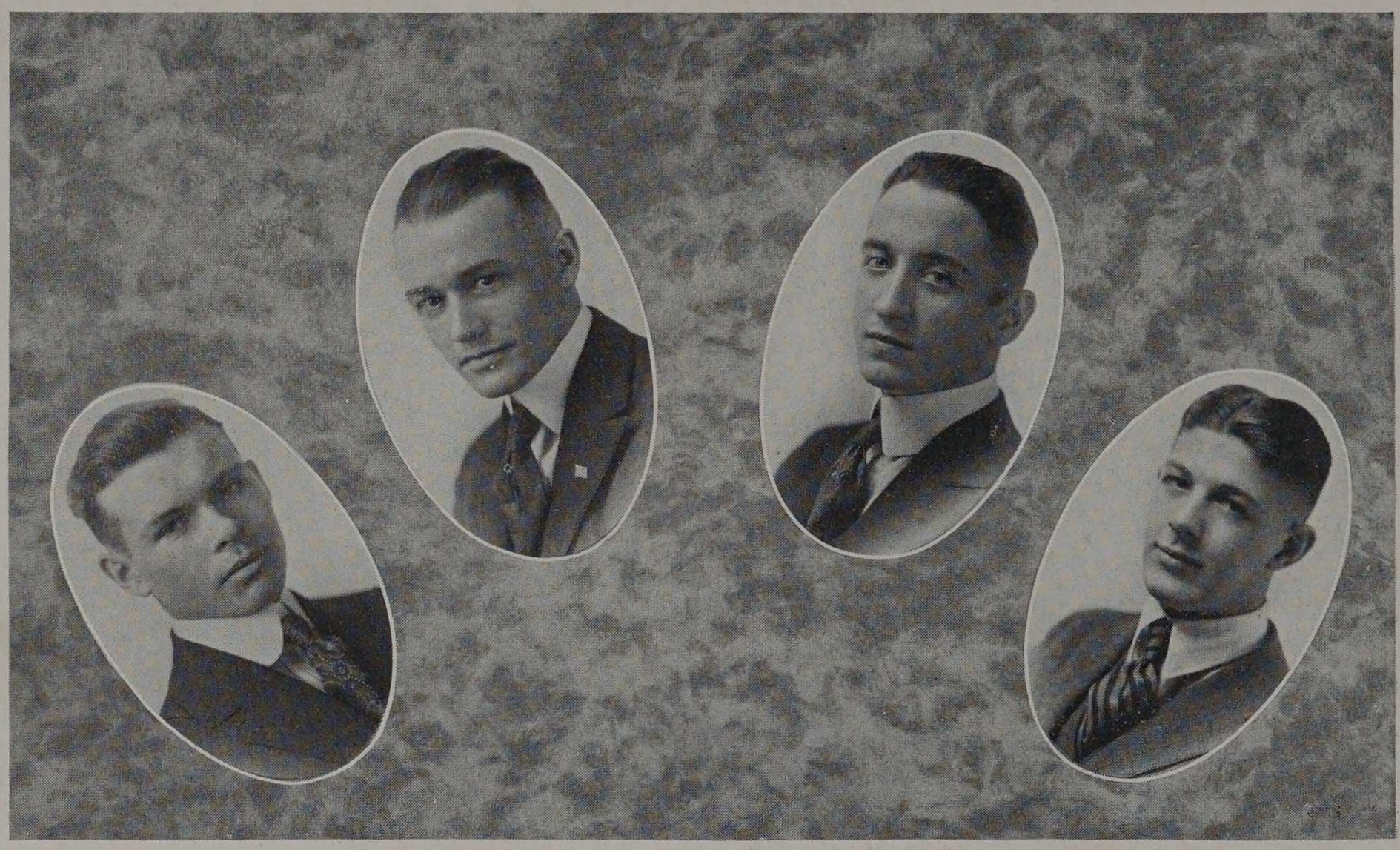




Ogden Field

# JUNIOR





JOSLYN MAITRE DADY SCHEUER

# Officers of the Class of 1919

A. E. MAITRE ..... *President*
W. E. DADY ..... *Vice-President*
E. SCHEUER ..... *Secretary*
R. O. JOSLYN ..... *Treasurer*
WM. MENDIUS ..... *First Marshall*
A. E. MAITRE ..... *Second Marshall*
I. M. ENGH ..... *Sergeant-at-Arms*

## SOCIAL COMMITTEE

M. MARKS, *Chairman*

C. S. DANFORTH
J. B. WILBOR
A. E. MAITRE
E. SCHEUER

# Junior Class History

Some of them dashed madly to the third floor of Chapin Hall, and with a panting voice asked. "Is this where we get mechanical drawing?" Others strolled leisurely into the library, settled comfortably at the senior table, and chuckled over the morning antics of Mutt and Jeff. That was back in '15. We're Juniors now; and as the interesting and amusing (?) situations which have arisen from time to time in the departments of Mathematics and Physics come before us, it is with reluctance that we approach the commencement of our last year at Armour.

This year has been one of uncertainties, the necessarily hurried military preparations of our country have greatly affected our organizations and plans for the year. Many of our men entered service immediately upon the completion of the Sophomore year, and so reduced our numbers. At the first meeting, upon the suggestion of Dean Monin, we passed a resolution to suspend the Smoker and Sophomore Rush. Thus adding our support to a like resolution originated by the senior class.

As the class are responsible for general school activities for ensuing year, we elected men for the Cycle staff and various committes at the close of last year. But due to the absence of many of these when school reopened, it was necessary to hold another election. Bob Rensch, who was elected Editor-in-Chief of the Cycle at the first meeting, packed his knapsack for Rockford about the second week in September. But Bob is back with us as a reservist now, and is carrying a large part of the Cycle job as Managing Editor for Bill Mendius, the present Editor-in-Chief.

In conformity with the general conditions prevailing, the class decided to attempt no Junior Play this year; instead, an informal prom will be staged during junior week. The dance given on December seventh at the LaSalle Red Room, under the far-reaching guidance of Mr. Marx, was a successful event both in regard to attendance and financial outcome.

Had the conditions been normal, with all activities in action, there is no doubt that the class of '19 would have held her place in line, with strong representation in athletics and social affairs.

As they are, we endeavor to maintain the credible standard of scholarship which has been ours; and with our men of military age in the Engineer Reserves, we enter upon the last year with our alma mater.

# Class of Nineteen Hundred Nineteen

*Electricals*

F. A. Anderson
E. H. Arnold
M. F. Bacon
A. Grant
H. F. Geldmeier
E. S. Gillespie
B. V. Greenberg
R. O. Joslyn
R. D. Morgan
J. P. Muelleman
A. S. Liu
R. H. Rensch
E. Scheuer
Abe Sugarman
A. R. Throop
T. Welch
M. Veremus

*Mechanicals*

H. Anderson
D. C. Berg
C. I. Carlson
L. E. Davies
A. N. Gail
J. A. Keeth
N. E. Kirchoff
E. L. Nielsen
H. R. Rehfeldt
T. J. Rowe
F. H. Schwartz
W. N. Seferlich
H. K. Wertheimer
C. K. Lunde
C. F. Clausen
M. Marks

*Fire Protects*

L. V. Kuttnauer
M. G. Meyer
C. W. Mintz
F. A. Trask

*Architects*

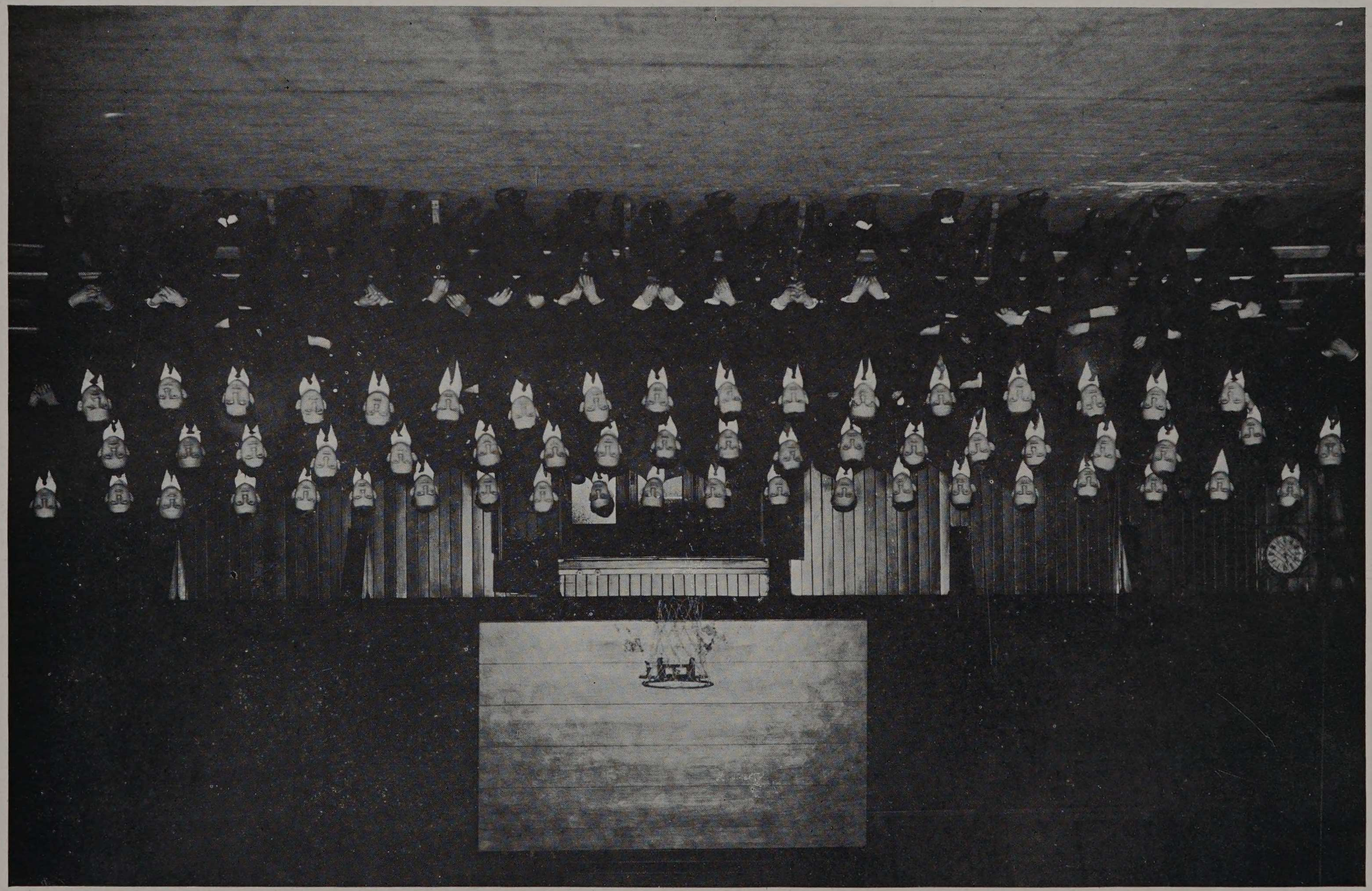
W. E. Dady
C. S. Danforth
A. E. Erickson
B. J. Ferring
C. L. Gaul
L. A. Gliatto
A. B. Greenlief
W. J. McCormack
A. R. Monaco
H. S. Muesse
S. L. Ray
W. J. Oleksy
M. R. Wallace
J. Y. Wicks
W. J. Wicks

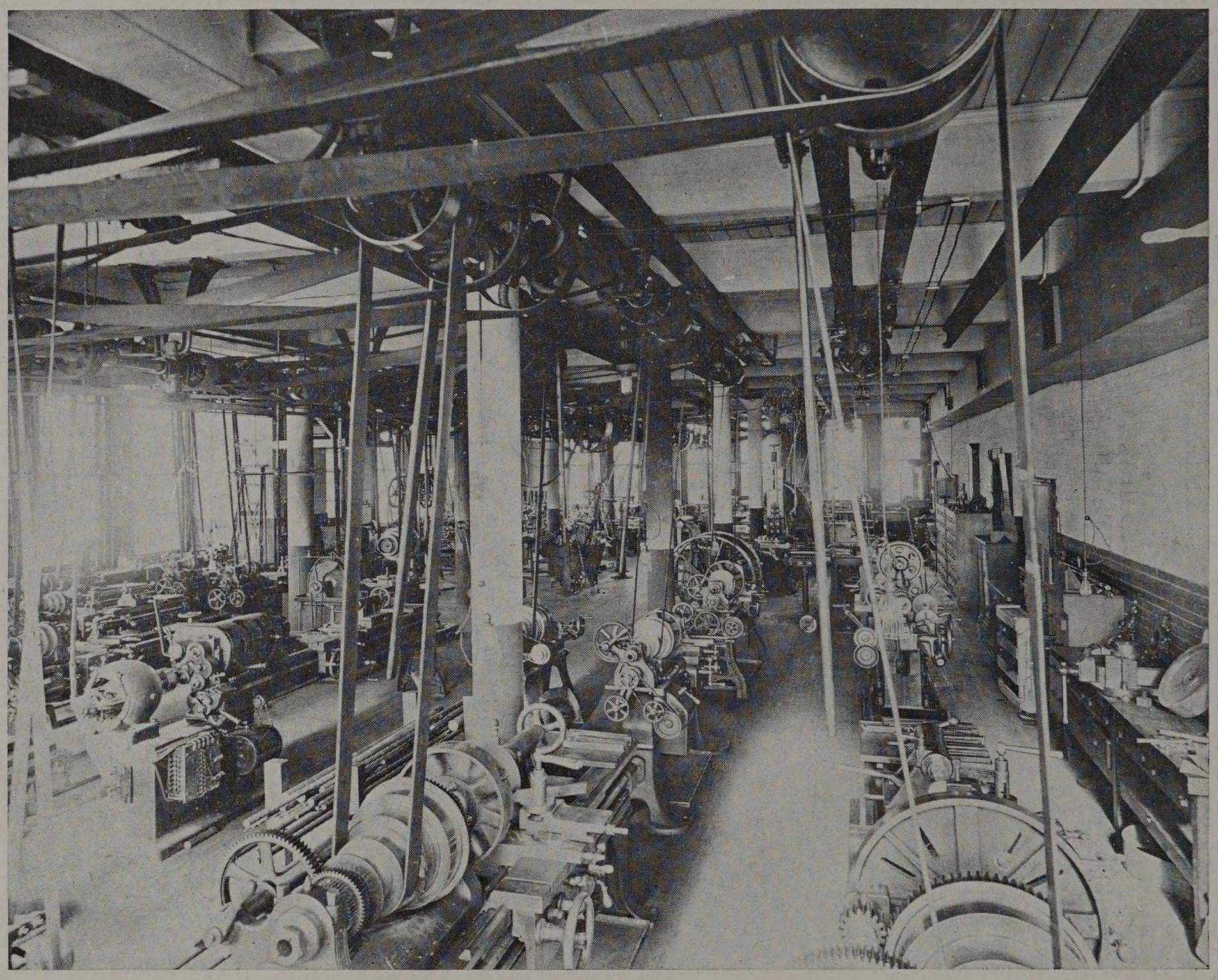
*Chemicals*

J. E. Alexander
C. B. Clark
D. W. Grigsby
N. C. Fischer
B. W. Lewis
A. S. LaZoris
E. R. Luckow
E. McClung
A. E. Maitre
W. E. Mead
R. S. Melichar
W. Mendius
C. W. Muehlberger
J. B. Wilbor
M. M. Wilson

*Civils*

D. S. Chase
I. M. Engh
E. Dasing
C. L. Gold
J. T. McCalmont
Julian Frank

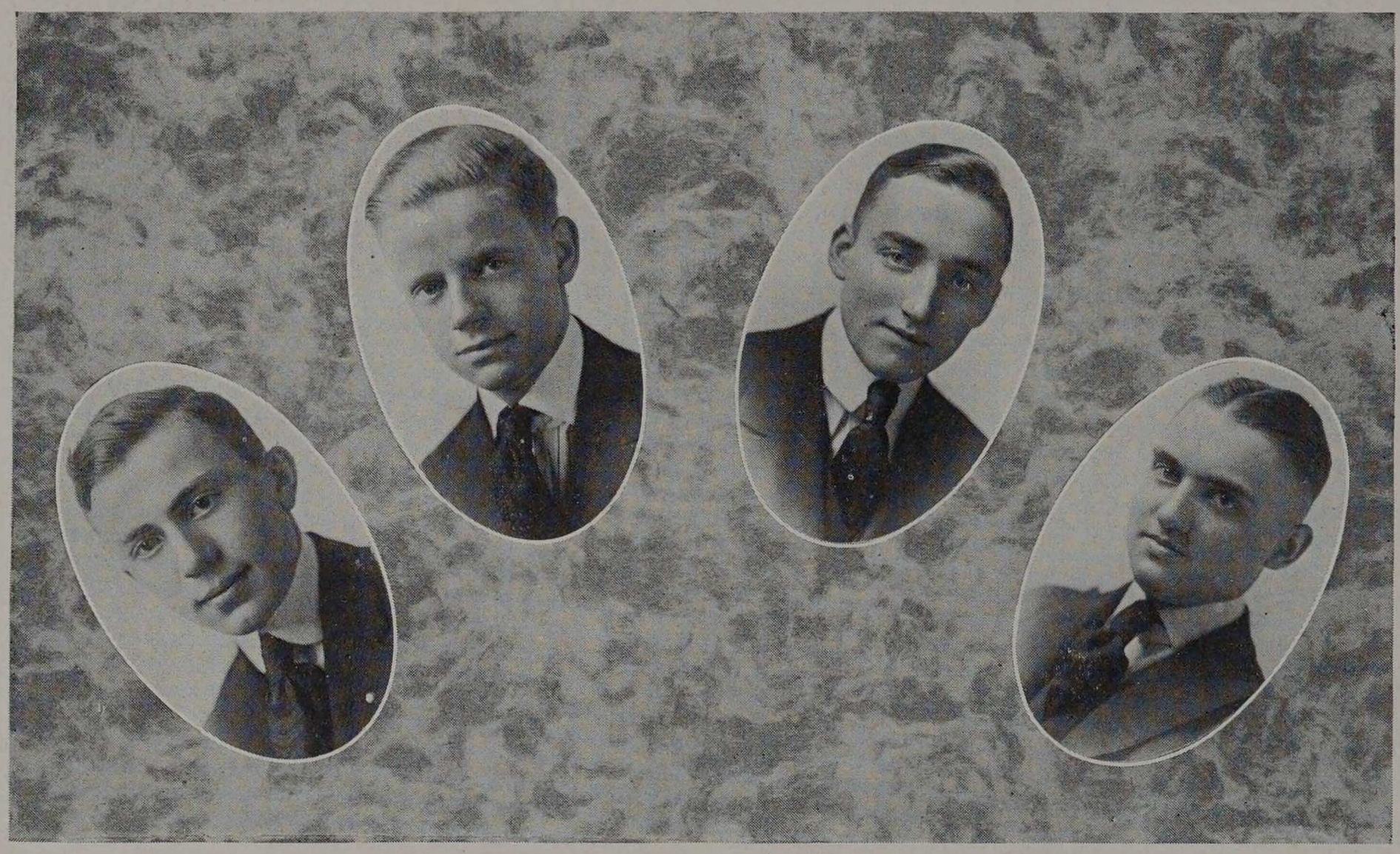




Machine Shop

# SOPHOMORE





CHAPIN ANNING ERICKSON BRUECKNER

# Officers of the Class of 1920

J. L. Anning ..... *President*
W. N. Erickson ..... *Vice-President*
W. J. Chapin ..... *Secretary*
M. O. Brueckner ..... *Treasurer*
R. C. Malwitz ..... *Sergeant-at-Arms*

## SOCIAL COMMITTEE

H. E. Anderson, *Chairman*

R. Hillyard
L. F. Jones
H. Sasse
E. Van Vlissingen

# Sophomore Class History

Although our class was somewhat depleted on account of the boys leaving for war, it was re-enforced by new men who entered as sophomores at the beginning of the school year 1917-18.

The class held its first meeting of the year, early in September and elected J. L. Anning as President. To his, and his assistants' efforts, most of the credit for the brilliant showing of the class must be attributed. Although we would liked to have had an opportunity of showing our mettle in the annual battle with the Freshmen, we appreciated the attitude of the Deans in the matter, and indicated our attitude by passing a resolution favoring the abandonment of the Sophomore-Freshman Rush.

The Sophomore basket-ball team was composed of Erickson, Bready, Illg, Scharf, Anning, and Havlick. Through the exceptionally fine playing of Erickson, Bready, and Illg, who composed the star remnant of our last year team, and the expert co-operation of their teammates, it met and defeated all comers in the inter-class games.

Easily the big social event of the year was the Sophomore Dance, held in the Colonial Room of the Edgewater Beach Hotel on February 8th. To the Social Committee headed by "General" Andy belongs the credit for the "coup d' 'etat."

*Students in Mechanical Engineering*

Adam, Paul J.
Allen, C. W.
Bentley, W. J.
Bready, James I.
Chapin, William J.
Cook, Ellis C.
Coolidge, Robert H.
Curtis, Harry E.
Erickson, William U.
Grey, P. C.
Gottlieb, M.
Hall, Thomas W.
Harris, Herman
Henry, George
Hillyard, R. J.
Hoven, Alfred C.
Havlick, Spencer N.
Jones, L. Eric
Mitnick, J.
McLaughlin, Hugh D.
Martison, Albert N.
Peterson, Harold C.
Peterson, C. F.
Wilson, Emory K.
Weinshenker, R. S.
Winkless, Paul E.
Wong, W. M.
Zemke, A. W.

*Students in Electrical Engineering*

Anning, James L.
Bloomberg, S.
Doods, Edwin E.
Epstein, H.
Gordinier, Leonard L.
Grabendike, Clarence A.
Illg, Robert
Johnson, M. A.
Kihlstrom, Harry C.
Klenze, Robert O.
Malpede, D. J.
Malwitz, Ray C.
Naiman, J. M.
Sherwood, Glenn L.
Smith, R. P.
Tabachnik, Abraham
Vorkoper, Robert C.
Wenner, Alfred T.

*Students in Civil Engineering*

Anderson, Homer
Beche, Horace M.
Boos, R. W.
Brons, E. L.
Hertweg, Fred A.
Joffe, S.
Kech, Alphonse L.
Landt, Walter E.
McShane, Charles L.
Manchee, Reginald P.
Matson, Eugene
Passialis, Gust
Reuter, H. F.
Snyder, Jonathan L.
Volk, W. J.
Wynne, Hugh

*Students in Chemical Engineering*

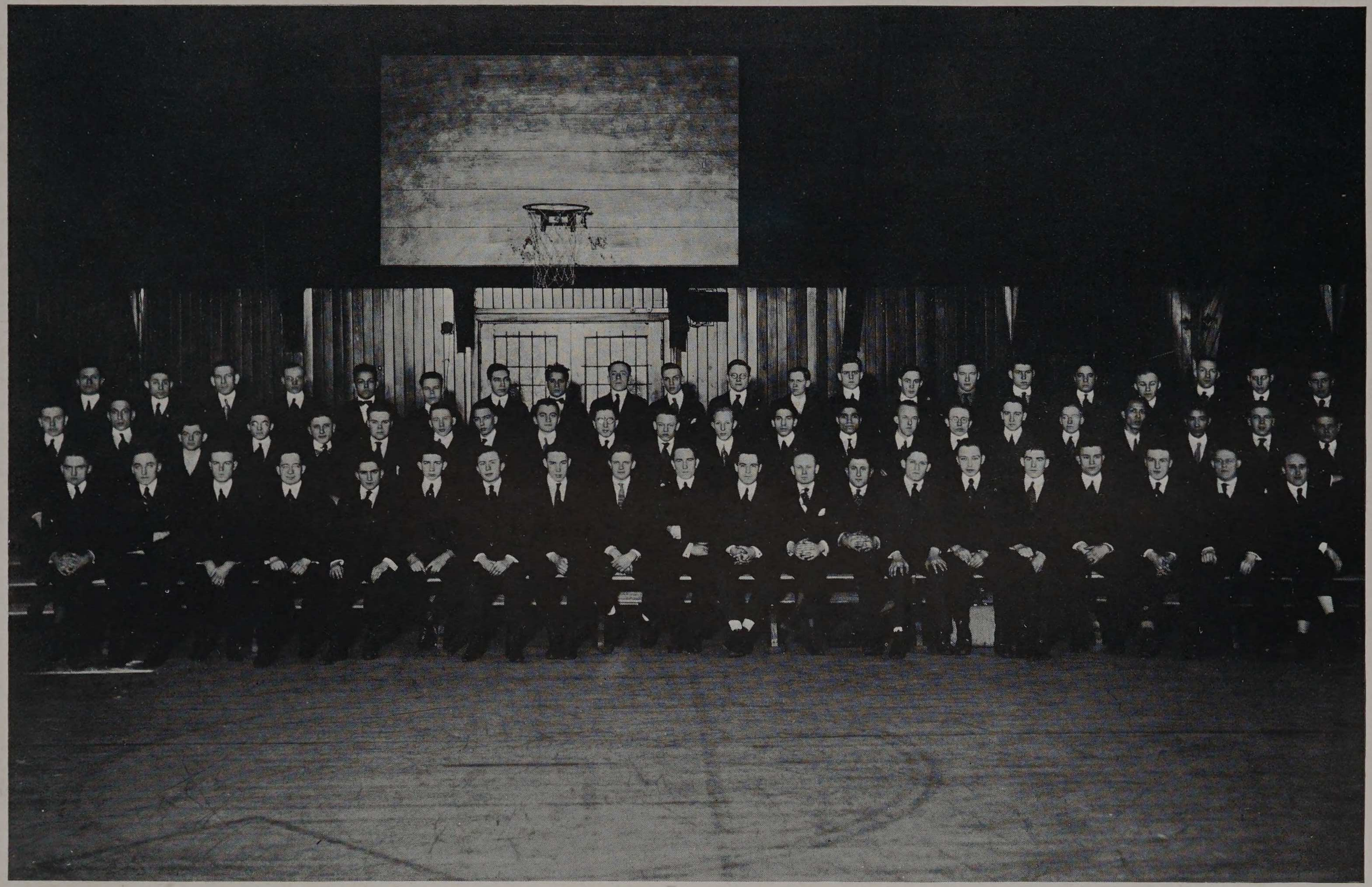
Ahlbeck, H. W.
Anderson, Edward R.
Bruekner, Mynhart O.
Dittlinger, Bruno
Eifler, F. C.
Fradkin, Benjamin
Jackson, M.
Lyon, Arthur
McCauley, W.
Stern, Paul L.
Thompson, Albert J.
Vogt, Emil G.
Wohlgemut, Bruno E.

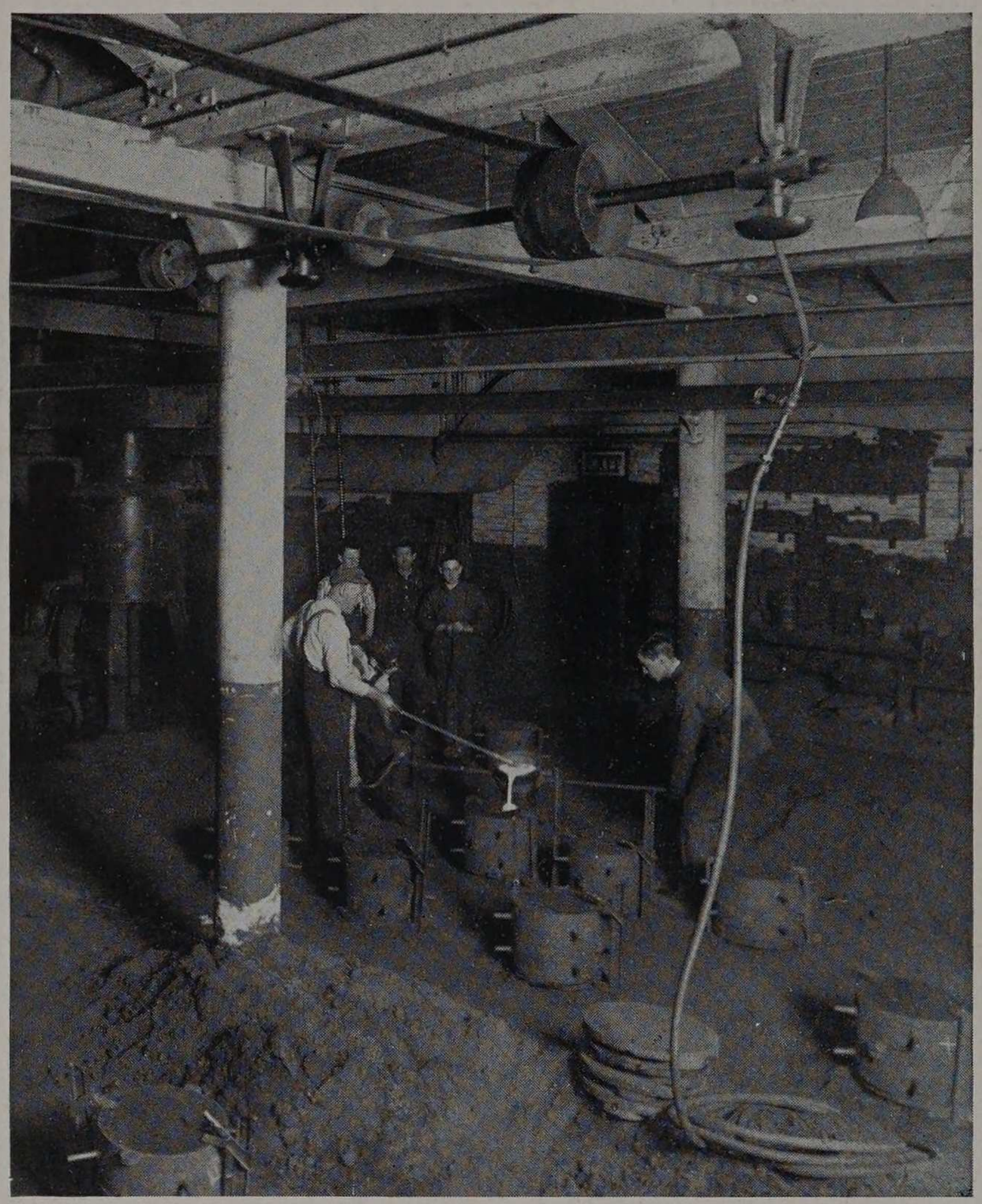
*Students in Fire Protection Engineering*

Crist, A. R.
Kingsley, William E.

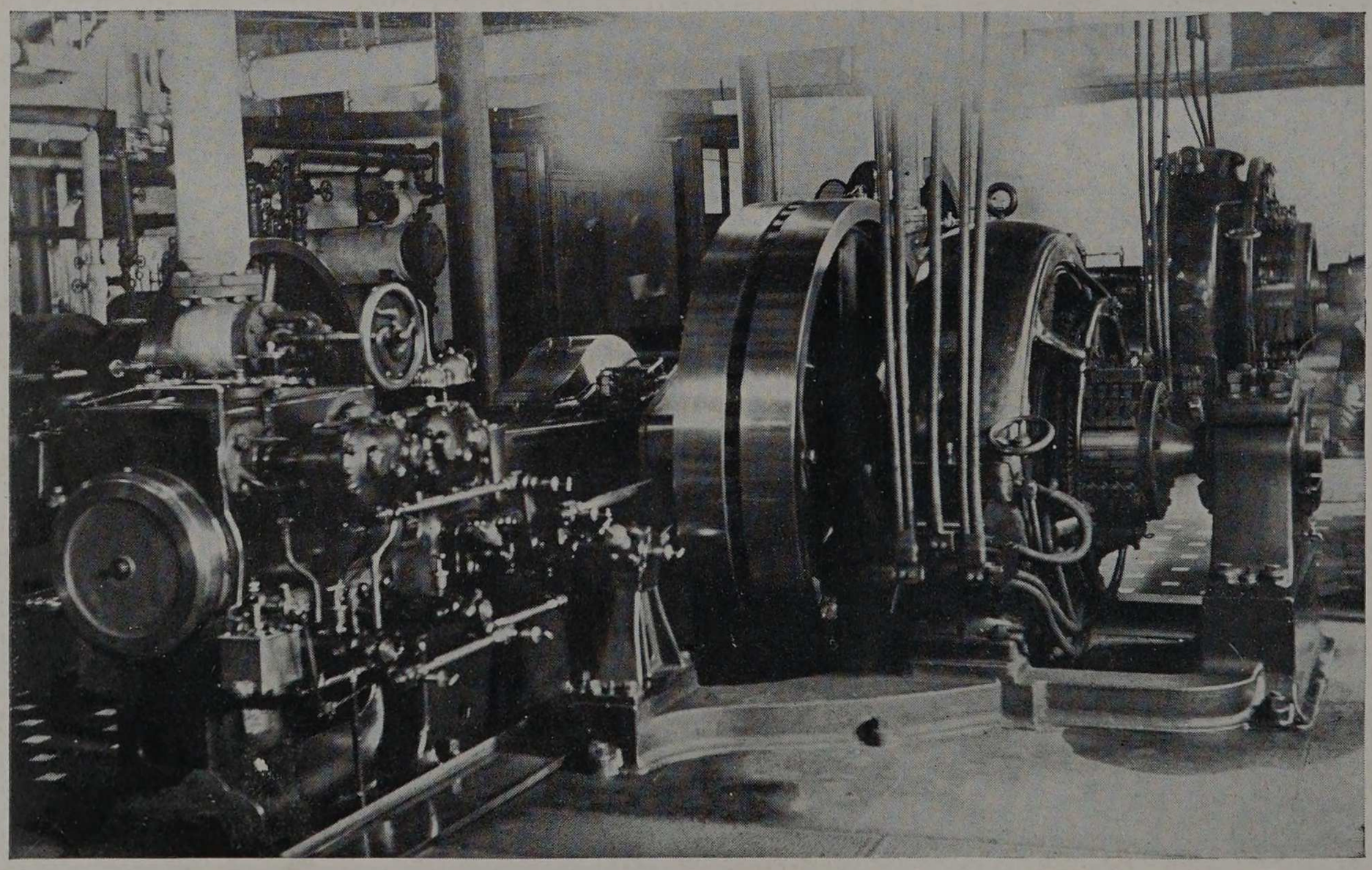
*Students in Architecture*

Ablamowic, Sigmund V.
Ancel, H.
Cardwell, Ellis H.
Christiansen, R. J.
Foley, Alfred W.
Hinkley, F. Clare
Karlson, Joseph A.
Larson, Godfrey E.
Ledebuhr, Arthur
Nilsen, E. C.
Nedved, Rudolph J.
O'Connor, William J.
Popkin, Jacob
Sasse, Hugo F.
Spiizner, Roy N.
Sevic, Wm.
Silverman, J. M.
Steinhauser, W. A.
Titus, Armour
Van Vlissingin, Eleanor D.
Wu, William H.





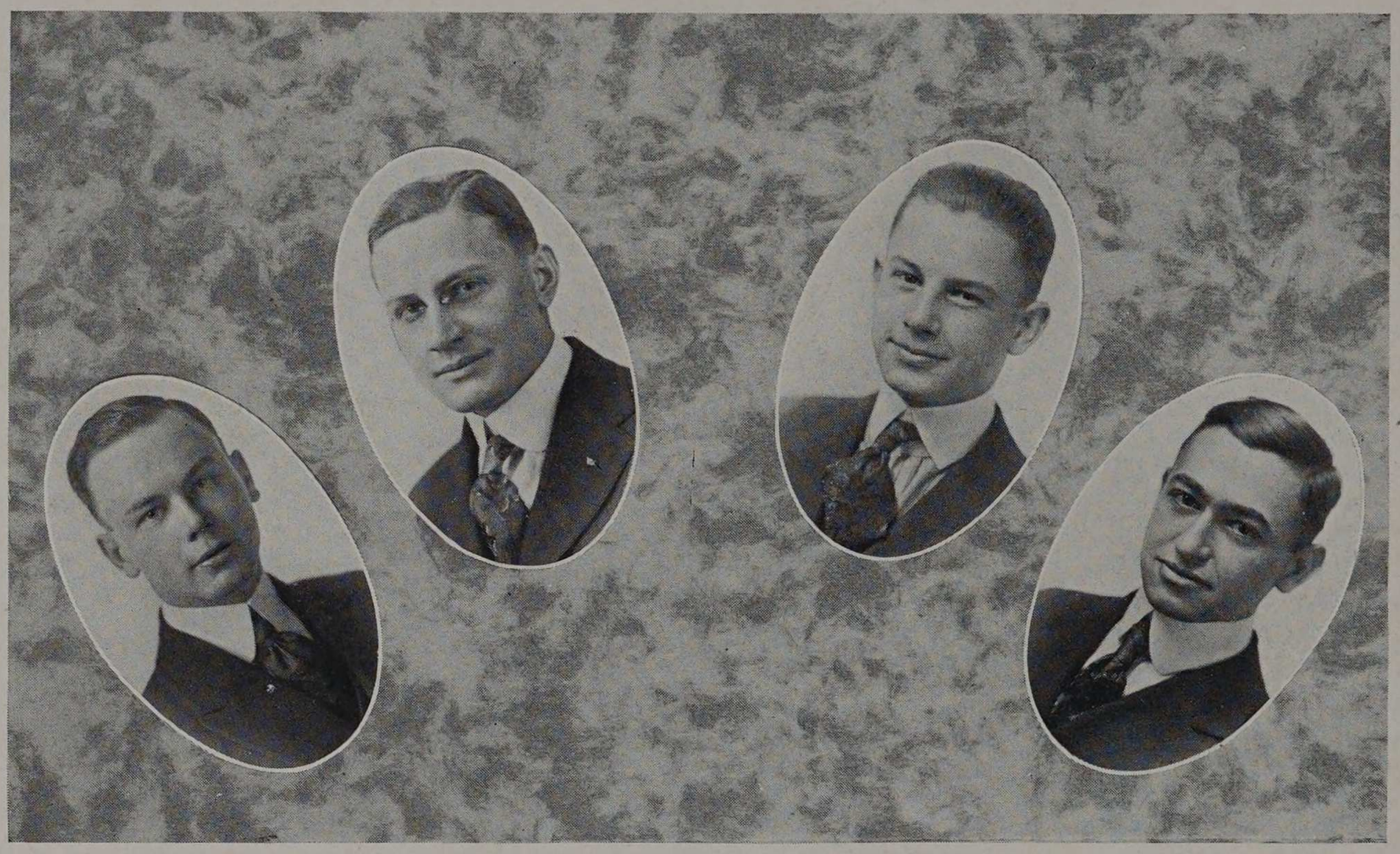
Foundry



Engine Room

# FRESHMAN





STEGE BELL STREHLOW SINGER

# Officers of the Class of 1921

W. C. Bell ..... *President*
A. F. Strehlow ..... *Vice-President*
R. M. Singer ..... *Secretary*
G. W. Stege ..... *Treasurer*
W. C. Zingham ..... *Sergeant-at-Arms*

## SOCIAL COMMITTEE

R. C. Strehlow, *Chairman*

N. R. Reiher
E. W. Pfafflin
I. J. Loebl
C. F. Walter

# Freshman Class History

'Twas on registration day that we "froshes" first arrived in the halls of good old Armour, and with what a feeling of wholesome awe and respect for the school. On that first day the whole institution seemed filled with the new spirit of patriotic endeavor which was sweeping over the country. Although it didn't take long for the awe and bigness of the school to pass away and for us to enter into the full swing of Armour life, the patriotic seriousness of that first day stayed with us, and was evident in all of our class activities.

The first of these was the Freshman Handshake, and that first experience of meeting the "men higher up" certainly made a lasting impression on us. What a thrill we had when the quartette initiated us into the true spirit of the school with "Upward and Onward Armour," and with how much respect and gladness did we hear the inspiring welcome of Dr. Gunsaulus. No wonder we left the meeting proud of the fact that we were students of Armour Institute.

Soon afterwards we held our first class meeting and elected our officers for the year; W. C. Bell was chosen class president and in that capacity has ably directed our affairs during the past year. Strehlow was elected vice-president at the same meeting and Stege and McCue were chosen treasurer and secretary respectively. The latter left school, however, and his place was ably filled by Singer.

A second and a third meeting were held later, at the first of which an attempt was made to stir up some school activities in spite of the war. As a result a Freshman basket-ball team was organized which lost a hard fought game to the Sophomores in the first Freshman activity of the year. In the third meeting Geisler was elected cheer-leader and the Armour yells were practiced. When a class yell was asked for,

Son—of—a—gun
Son—of—a—gun
1—9—2—1

was suggested and immediately adopted.

The last and best activity of the year was the Freshman Dance. It was held at the Hyde Park Hotel, and rarely has that much used ball-room seen so many sparkling beauties or handsome youths as on that night of April 5th. Harvey's orchestra rendered wonderful music and everyone present vouched for the unqualified success of the occasion.

This closed the Freshman activities of the year 1917-18, a period marked by the serious endeavor of a nation at war. The class has tried to fall into step with the nation, and in stopping all useless and expensive events has helped a bit at least, to win the war. It is with this spirit in mind that we hope to continue our career as Sophomores, and to add to the glory of old Armour.

# Class of Nineteen Hundred Twenty-One

## MECHANICAL ENGINEERING

Alter, I. C.
Anderson, R. C.
Barce, S. H.
Bird, H. W.
Bockman, C. H.
Bonilla, R. B.
Bread, R. E.
Doolittle, C. B.
Felber, E. R.
Fowler, J. H.
Goldman, E. H.
Goldstone, J.
Gross, M. G.
Grossman, S. W.
Hartless, R. B.
Heinz, W. O.
Heitner, W. A.
Henion, H. M.
Lawrence, J.
Leonard, A. G.
Lipsky, W. S.
Lull, J. R.
Maranz, L. S.
May, M. F.
Newman, L. B.
Nurczyk, F.
Reiher, N. R.
Schmidt, C.
Sedwick, T. C.
Spitzglass, A. F.
Strehlow, A. F.
Strehlow, R. E.
Wallace, I.
Walter, C. F.
Webster, S. H.
Zingham, W. C.

## ELECTRICAL ENGINEERING

Albee, T. L.
Anderson, F. A.
Bidwell, J. B.
Bunde, L. F.
Byrnes, J. P.
Doberstein, S. A.
Falk, A. G.
Funck, E. J.
Grant, R. J.
Grill, M. J.
Hadgraft, R. P.
Hayden, F. E.
Huth, H. R.
Knottek, R.
Koch, C. M.
McCrae, J. W.
McCue, F. A.
Mehrhoff, A. R.
Nudelman, E. M.
Pakes, E. J.
Pask, R. J.
Pavesich, P. M.
Pearce, W. W.
Rosendal, D. L.
Scotford, L. C.
Shepard, F. S.
Sippel, C.
Sommer, E. H.
Thompson, J. B.
Van Valzah, R. W.

## CIVIL ENGINEERING

Atkins, H.
Born, C. D.
Carson, J. C.
Dierfeld, A. H.
Eierdam, E. C.
Hallbauer, E. L.
Hamacek, V.
Isacson, Samuel
Lochow, G. W.
Lyon, W. K.
McCarte, A. B.
MacDonald, F.
Mann, H. A.
Michels, T.
Mundt, E.
Oleksy, J. J.
Orton, P. A.
Petersen, G. W.
Prendergast, L. C.
Rosenthal, E. I.
Schindler, G. E.
Short, J. C.
Singer, R. M.
Westover, M. R.
Wilson, E. A.
Wilson, T. C.
Woods, H. L.

## CHEMICAL ENGINEERING

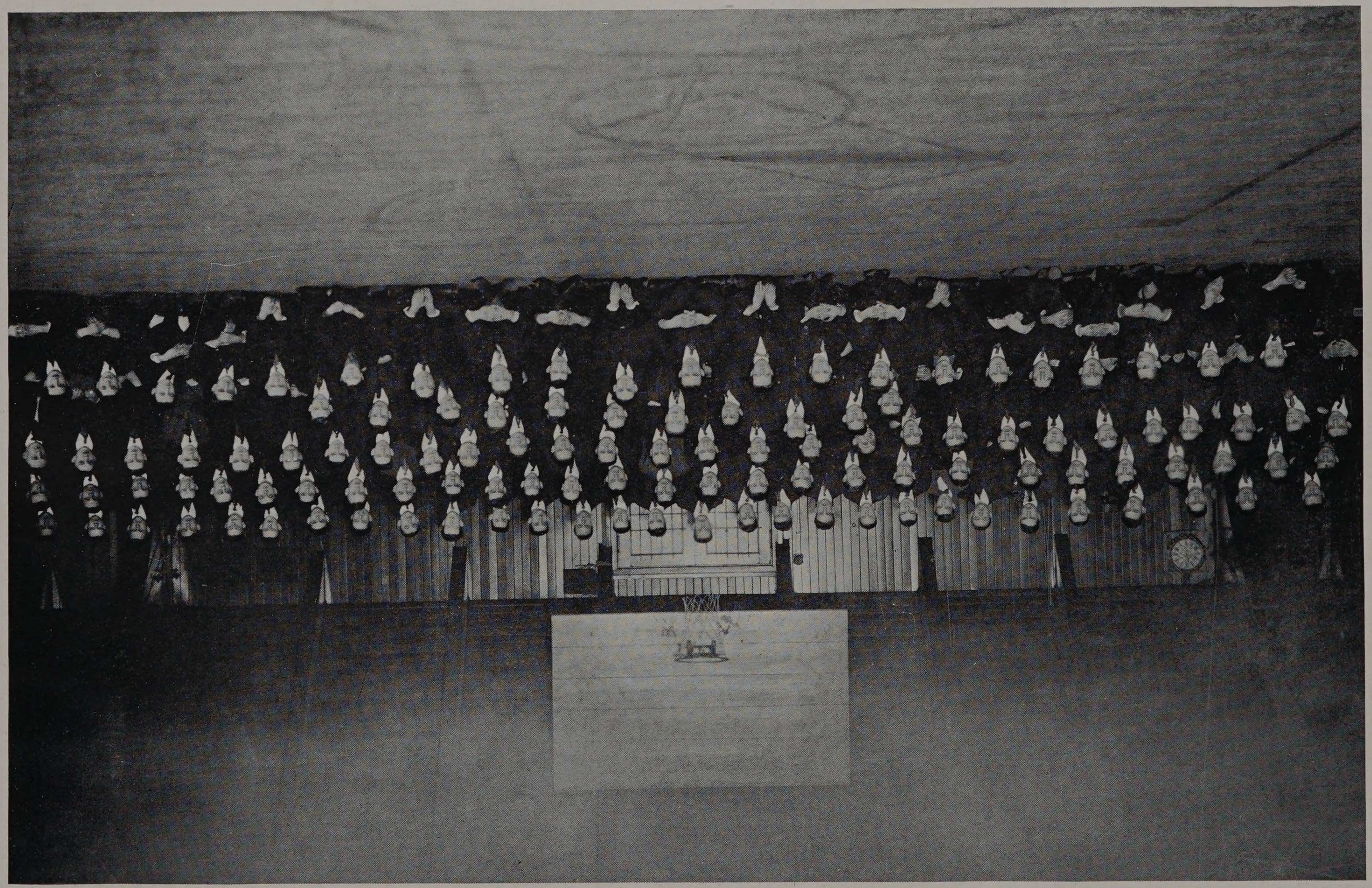
Ashley, E. C.
Belina, R.
Bernstein, J. M.
Blumenstock, J.
Charlton, S. L.
Crescio, L. J.
Deutsch, W. A.
Dietz, C. J.
Dowse, G. M.
Herr, W. N.
Hintz, E. H.
Hunt, A. O.
Isaacs, R. A.
Knewboy, W. M.
Kraut, Isador
Lewis, J. W.
Little, J. H.
McClaughry, R. S.
Martin, R. W.
Meilinger, G. E.
Pfafflin, E. W.
Scherger, R. K.
Schurman, I.
Shearin, V. D.
Sipple, C.
Steffens, A. H.
Stege, G. W.
Stupnicki, T.
Vorsheim, H. G.
Winter, E. F.

## FIRE PROTECTION ENGINEERING

Bissell, W. Geisler, E. W. Howe, R. W. Marcus, H. F.

## ARCHITECTS

Anderson, A. C.
Aranoff, A. K.
Baldwin, F. M.
Bell, W. C.
Bieg, H. K.
Bills, J. K.
Browde, A.
Cauley, F. W.
Conner, G. D.
Douglas, W. A.
Gronberg, A.
Hehnke, A. A.
Hofmeister, T. M.
Hutchinson, J. H.
Kriz, E. J.
Loebl, I. J.
Lund, H.
Major, R. E.
Minkus, R.
Papdepulos, C.
Plocinsky, H. E.
Pelzin, E. A.
Rabito, G.
Ryan, E. J.
Sanger, J. P.
Schatz, H. O.
Schlossman, N. J.
Schoening, A. J.
Shapiro, S. N.
Sponholz, W. C.
Steinhauser, W. A.
Thompson, H. F.
Van Ess, J. K.
Vohoska, J. C.
Walworth, R. H.
Welch, E. V.





House at the Summer Camp

# Summer Camp, 1917

## Trout Lake, Wis.

The 1917 summer surveying class was a rather small one, numbering only fourteen, including Profs. Phillips and Penn and our trusty cook Oliver. But what we lacked in numbers we made up for in fun and pep, towards which little "Blois Cramer" contributed his overdue share. One can recall with pleasant recollections such incidents as the "Snipe Hunt". The Snipe is about as large as a pigeon and....., runs on the ground like a flying fish, 'twas said. Then the "Baptism of Fire", (Oh, Gus! where are you?—the tent is falling—is Crown safe?) The midnight vigil on the Chocolate Drop—the story of the five dollar cot and many other incidents which are never to be forgotten.

Great difficulty was experienced in getting a cook and it seemed for a while as though the camp would be at the tender (?) mercies of Gus the Greek, who had somewhere picked up a few pointers on the culinary art. But eggs three times a day was too much for even such a hardened epicure as Prof. Penn, so the services of Oliver were secured to fill in the voids. Oliver sure could cook and—such eats! For six weeks Pa saw to it that we lived on the fat of the land. Nothing was too good for us. It was a sight for sore eyes to see Oliver bring in a heaping platter of pancakes, place them at Pete's plate and then watch him bend to his task. He ate them slowly—ceaselessly—solemnly—as though consummating a great life work. "Pete" is on army rations now, but he knew a good thing when he saw it.

Fishing and swimming were also enjoyed by all, the champion nimrod being L. C. Bush, who somehow lured a six-pound trout to strike at his fly. Why, the fishing was so good that even Gus spent many hours searching thru Sears Roebuck's catalogue for an appropriate outfit. Doughballs and bacon strips were gobbled up pronto by these uneducated fish.

Several canoe trips were made to nearby lakes of the Manitowish River. The rapids in this stream are very swift and in going down we had all we could do to sit still and hold tight. A spill meant a ducking, with the consequent loss of the pack which brought visions of a foodless supper, no bedding and swarms of bloodthirsty mosquitoes.

We also tried to run off a dance, but were rather pessimistic about getting



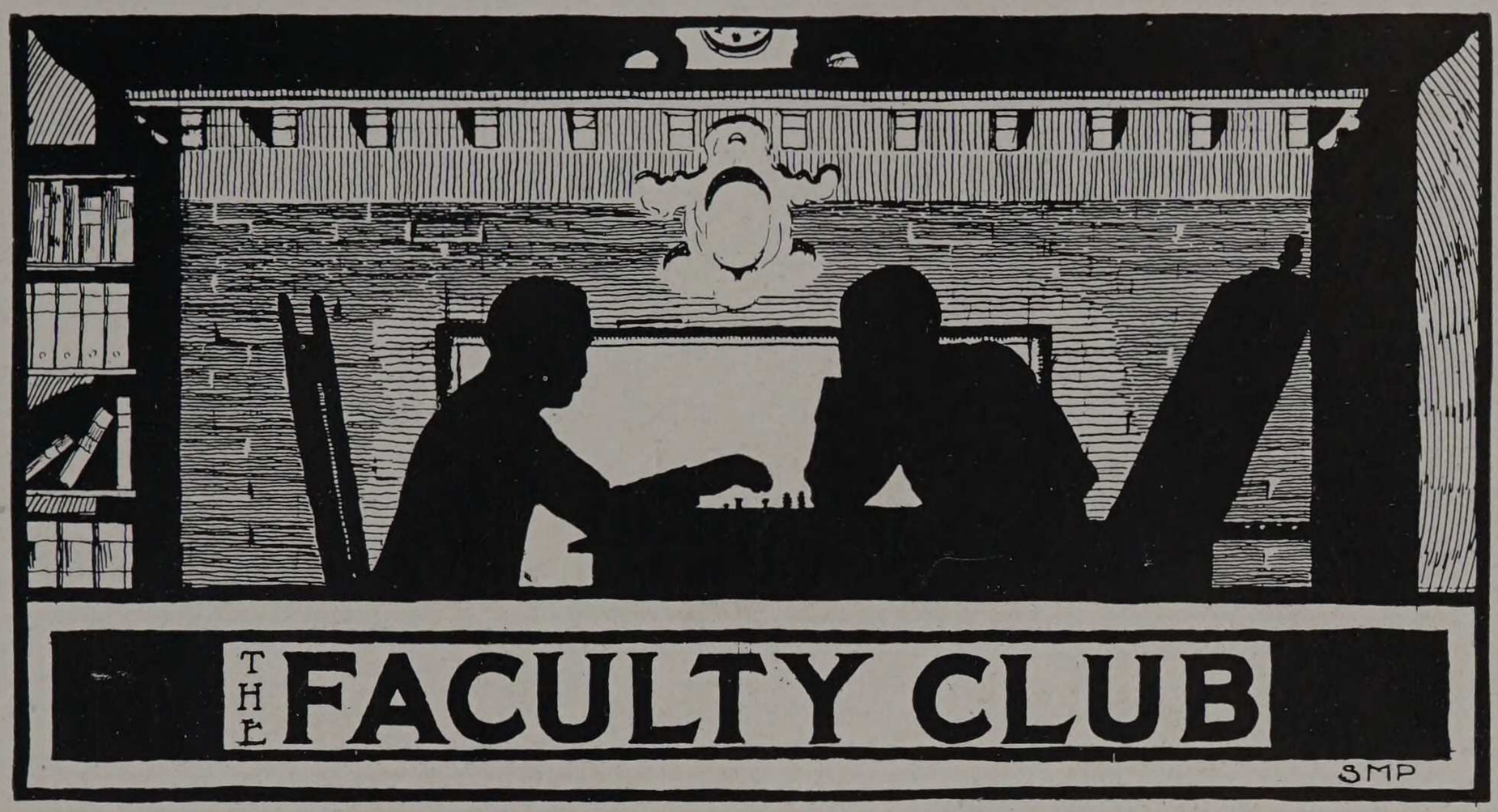
enough ladies from the surrounding territory. Our fears were allayed however, for Pa counted forty-six as they filed by the door, whence stopping to count no more he rushed into the kitchen to hide the little ice cream can from this hungry horde.

During the first few weeks we were delayed in our field work by the rain, which at one period fell continuously for five days. Last year's work of triangulating the territory bordering on the lake was continued. Polygons C, D, and E were tied in, complete data being obtained for a map which is now being platted. Reconnaissance surveys were made with the latest type of U.S. Army sketching board. We also had practice in leveling, stadia work, railroad surveying, sounding and made several observations on Polaris.

When the time was up, each one of us was loathe to leave, for we all knew and felt that we had had the time of our young sweet lives.



Main Stairway




# Armour Faculty Club

F. U. Smith . . . . . *Honorary President*
M. B. Wells . . . . . *President*
W. C. Krathwohl . . . . . *First Vice-president*
C. A. Nash . . . . . *Second Vice-president*
Chas. W. Leigh . . . . . *Secretary*
J. E. Snow . . . . . *Treasurer*

## HOUSE COMMITTEE

F. U. Smith — J. E. Snow — C. S. Allison

## MEMBERSHIP COMMITTEE

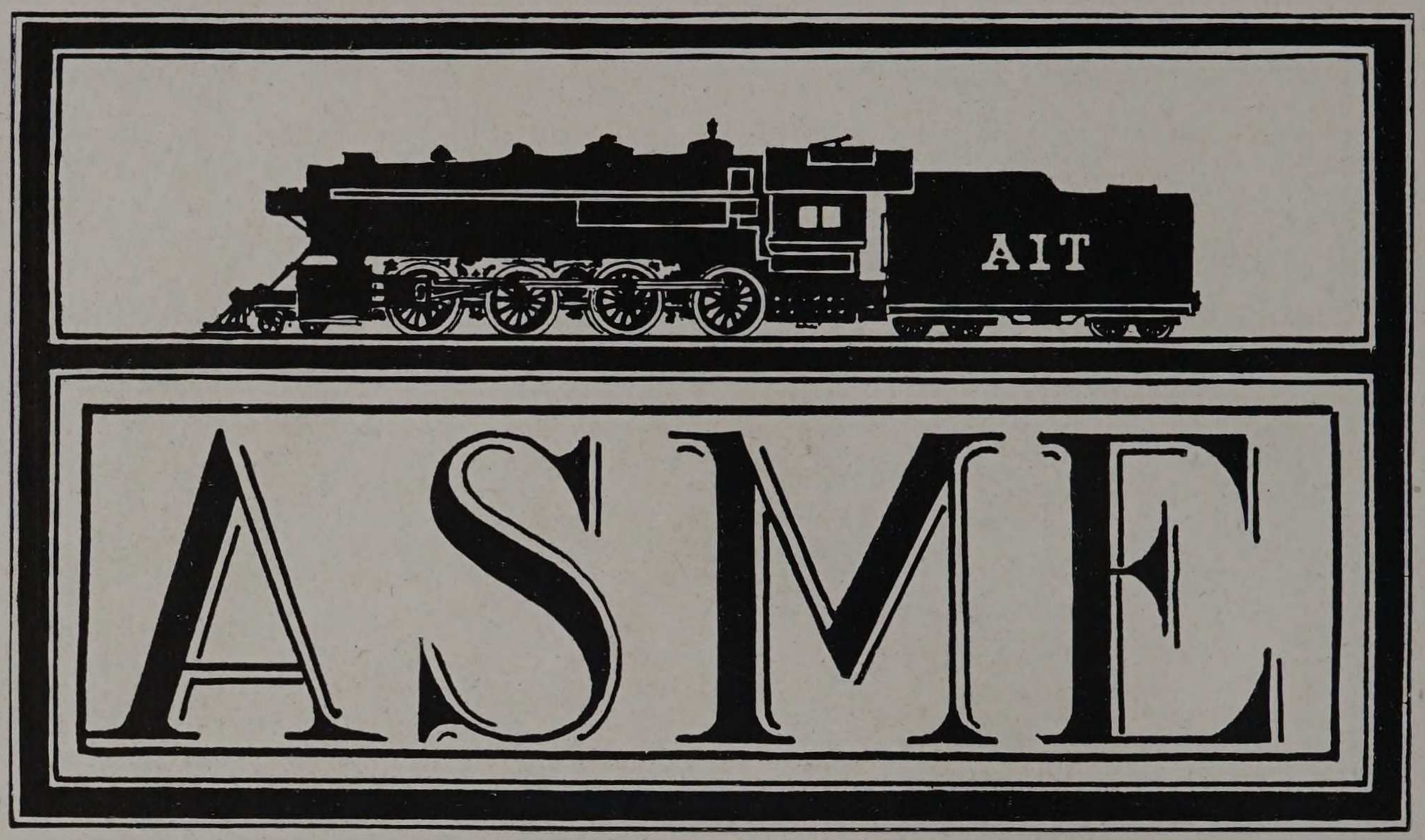
C. I. Palmer — C. W. Leigh — E. S. Libby

## CIGAR COMMITTEE

R. V. Perry — C. H. Fornhof — J. J. Schommer

## MEMBERS

Agle, Edw. D.
Allison, G. S.
Anderson, A. H.
Armstrong, H. J.
Campbell, D. F.
Clifford, C. C.
Cooper, C. B.
Dean, S.
Finnegan, J. B.
Fornhof, C. H.
Freeman, E. H.
Freud, B. B.
Gebhardt, G. F.
Gunsaulus, F. W.
Huntley, P. C.
Krathwohl, W. C.
Larsen, C. L.
Leigh, C. W.
Libby, E. S.
Marsh, G. E.
McCormack, H.
Monin, L. C.
Moreton, D. P.
Nachman, H. L.
Nash, C. A.
Palmer, C. J.
Paul, C. E.
Peebles, J. C.
Penn, J. C.
Perry, R. V.
Peterson, N. P.
Phillips, A. E.
Raymond, H. M.
Reid, J. S.
Roesch, D.
Scherger, G. L.
Schommer, J. J.
Smart, W. K.
Smith, F. U.
Smith, W. G.
Snow, J. E.
Swineford, C. R.
Taylor, F.
Thomas, H. B.
Tibbals, C. A.
Wilcox, G. M.
Wells, M. B.




# American Society of Mechanical Engineers

## Armour Student Branch

OFFICERS

K. A. Taylor . . . . . *President*
J. A. Keith . . . . . *Vice-President*
H. Anderson . . . . . *Treasurer*
V. A. Kerr . . . . . *Secretary*

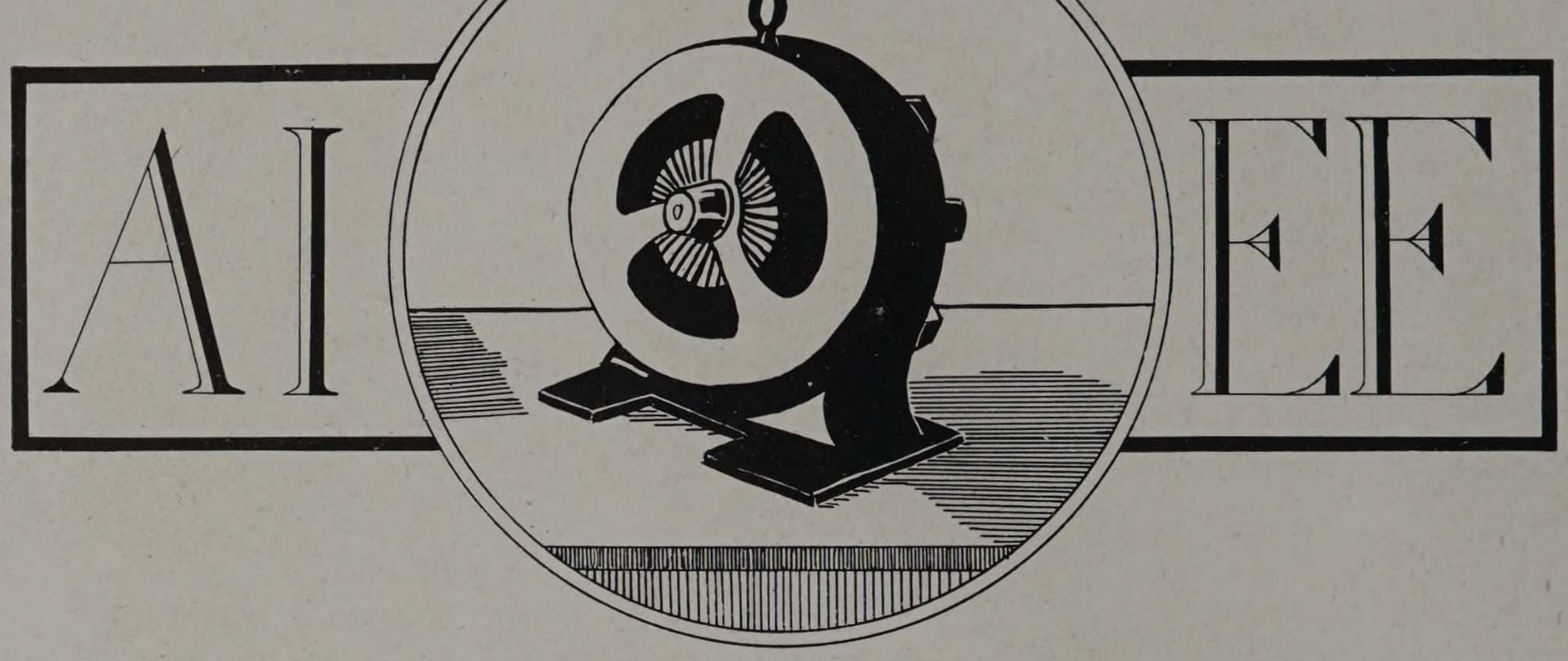
The school year of 1917-1918 started with only a few active members of the A.S.M.E. and it certainly looked gloomy for the coming year. The Junior Mechanicals got together and pushed things showing a spirit that put a "rift in the clouds."

The society decided to conduct the meetings in a similar manner to those of last year, because of added interest and cooperation of the boys shown in the informal meetings. Three or four members were therefore assigned to speak on some engineering subjects and to hold themselves open to discussion upon the talk. This proved a success and was taken up with such enthusiasm that nearly every member of the society gave at least one interesting talk during the year.

Among those talks which were of special note were:
"Testing and Assembling of the Fairbanks-Morse Oil and Kerosene Engine", by Mr. Taylor.
"Specifications of the McKinel Power Plant", by H. Anderson.
"Design, Construction and Operation of the Diesel Oil Engine", by Mr. Clausen.
"Operation and Construction of a Modern Dispensing Machine", by Mr. Rehfeldt.
"Design and Remodeling of Valves in Motor Cars", by Mr. Wertheimer.
"Lubrication of the Motor Car", by Mr. Keith.
"Use of Steam Turbines as a means of Propulsion for ships", by Mr Neilson.
"Design and Manufacture of Piano Hardware", by Mr. Lunde.
"Qualities and Manufacture of Byer's Wrought Iron Pipe.
The past year has been deemed a very successful one and bids bright for the coming year.



Top Row—Nielsen, Rehfeldt, Kerr, Taylor.
Middle Row—Lunde, Anderson, Marks, Weinschenker, Andre.
Bottom Row—Durham, Wertheimer, Clausen, Keeth.




# Armour Institute of Technology Branch of the American Institute of Electrical Engineers

OFFICERS

R. A. Newlander . . . . . *Chairman*

A. A. Hofgren . . . . . *Secretary*

H. H. Shotwell . . . . . *Treasurer*

The Armour Institute Branch, American Institute of Electrical Engineers, is an organization formed for the purpose of bringing the student of electrical engineering into personal touch with the members of the profession—with men who can supplement their class theory with actual practical details. The average student thinks of his class theory in terms of formulas and laws, and it is important that he sees there is a wider and broader interpretation for it all.

This year the aim of the Society has been to present to the student a series of talks on widely varying subjects, to show him the broadness of scope of his profession.

We take this opportunity to thank Prof. Freeman for his hearty cooperation, and the men who have addressed us for their kindness in giving us some of their valuable time.

Following is a list of the meetings of the year:
Oct. 18, 1917—Prof W. C. Bauer, "Application of Electron Theory to Thermo-Ionic Devices."
Mr. E. W. Grover, "Substations."
Nov. 7, 1917—Mr. D. W. Roper, "Relays in Transmission Lines".
Nov. 22, 1917—Prof. J. I. Peebles, "Electrical Method of Measuring Thermo-Conductivity."
Nov. 9, 1917—Dean L. C. Monin, "Ethics of the Profession".
Dec. 5, 1917—Mr. F. Hain, "Electrical Industrial Heating".
Feb. 19, 1918—A. W. Rahn, "Manufacturing Principles".



Top Row—Greenberg, Geldmier, Shotwell, Hofgren, Joslyn, Arnold, Morgan.
Middle Row—Vogdes, Veremis, Newlander, Weiss, Rensch, Erickson, Bacon.
Bottom Row—Throop, Goldstein, Crown, Nitka, Liu.




# Armour Civil Engineering Society

JESSE NITKA . . . . . *President*
HARRY PETERSON . . . . . *Vice-President*
VICTOR M. CROWN . . . . . *Treasurer*
LESLIE WEISS . . . . . *Recording Secretary*
BLOIS B. CRAMER . . . . . *Corresponding Secretary*

## BOARD OF DIRECTORS

PROF. MELVILLE B. WELLS . . . . . *Faculty Member*
LESTER C. BUSCH . . . . . *Student Member*

The Society, originally organized for the mutual benefit of the upper-classmen was somewhat handicapped at the beginning of the year through lack of members and by war conditions. To remedy this the by-laws were amended so as to make the lower classmen eligible to membership with restricted privileges and smaller dues. The innovation was a success as the meetings were well attended, and the under-classmen profited by the talks. There were fewer meetings this year on account of the unsettled conditions, making speakers less available. However, the following meetings were held, all with large attendance.

Oct. 2. The first meeting was our annual smoker at which refreshments were served and new members accepted.

Oct. 16. Summer Experiences with the Santa Fe and Rock Island Railroad by Mr. L. Weiss.

Dec. 4. The Construction of the 6th National Army Cantonment at Camp Jackson, South Carolina, by Prof. Stanley Dean.

Dec. 18. The Mining, Refining and Application of Trinidad Lake Asphalt, by Mr. Blackward of the Barber Asphalt Co. This talk included 6 reels of movies on the subject.

Jan. 8. Concrete Ship Construction, by Mr. A. W. Dilling, of the Universal Portland Cement Co.

Mar. 21. South American Opportunities for Engineers by Mr. Omar O'Grady. Illustrated.



Top Row—Frank, Anning, Engh, Brons, Boos,
Middle Row—Bush, Nitka, Shaw, Matson,
Bottom Row—Weiss, Anderson, Crown, Dasing, Gold.




# The Armour Chemical Engineering Society

F. R. Johnson . . . . . *President*

C. W. Muehlberger . . . . . *Vice-President*

W. Wm. Koehler . . . . . *Secretary*

A. Pearson . . . . . *Treasurer*

The Society was organized in February 1903, for the purpose of bringing the students in chemical engineering into closer contact with one another and to assist them in their pursuance of that study by lectures from the members of the alumni and faculty and also the professional men engaged in chemical engineering work.

The first session was held September 17th, Mr Cable officiating. The above officers with the exception of vice-president, were elected at the meeting.

October 8th, a second meeting of this society was held, and Mr. C. W. Muehlberger, representing the Juniors, was elected vice-president. Other business was discussed at this meeting.

A meeting was called to order on Monday, November 12th, and Prof. H. McCormack gave a very interesting talk on the features of the Chemical Exposition of New York, September, 1917

The 3rd of December Prof. B. B. Freud addressed the society. His subject was the "Development of the Modern Valence Ideas". The lecture was instructive and was appreciated by the society.

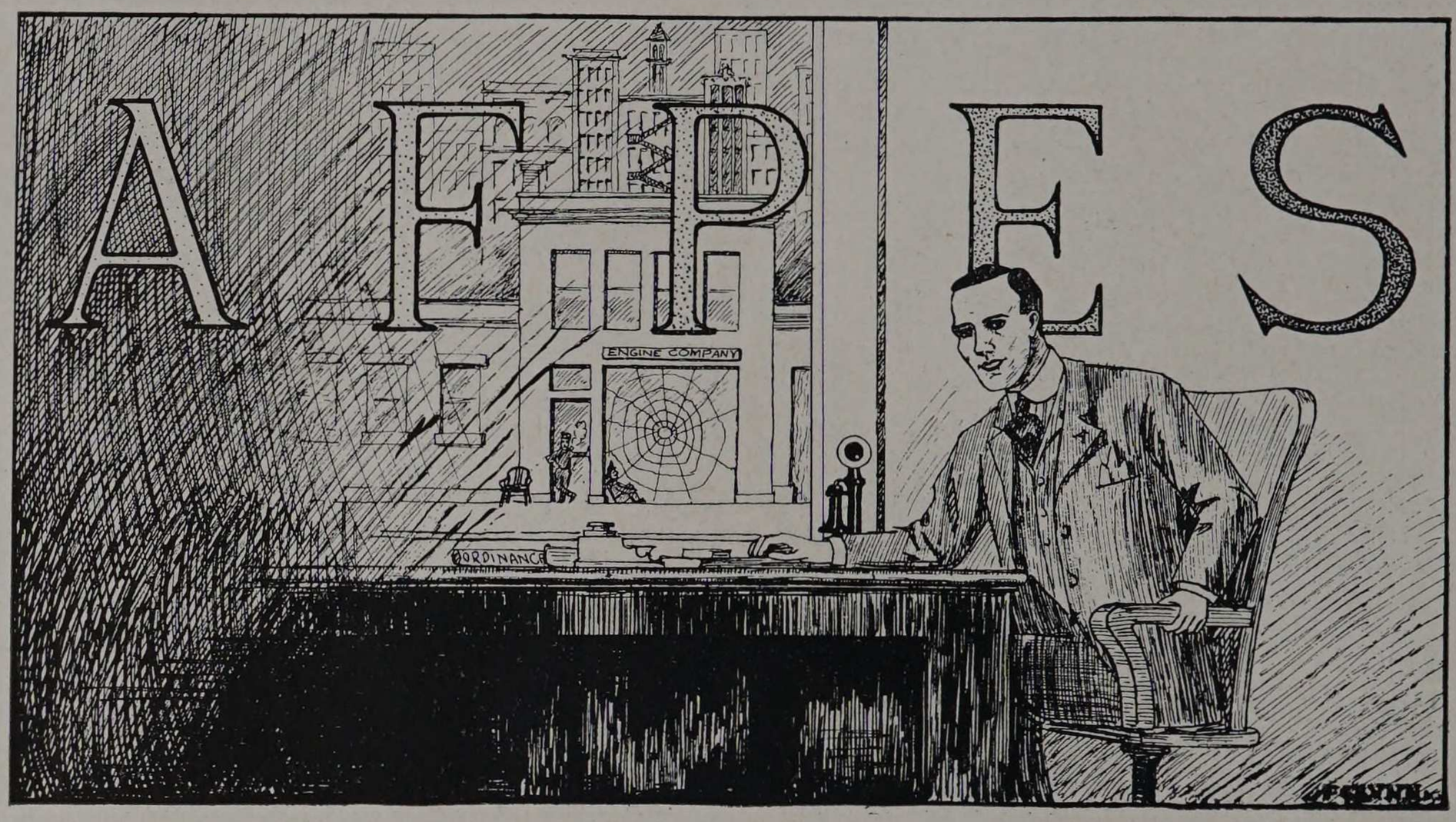
The Chemical Banquet, which was held on the 20th of December at the Auditorium Hotel, was quite successful; several of the Alumni members gave very interesting speeches.

It was February 25th, when Mr. Webre lectured on the controlling factors of evaporators, going somewhat in detail and giving a sample calculation.

March, 29th, Dr. Harkins finished the discussion on the "Periodic System" which he started last year. The topic was represented from a new point of view, and the arguments were based on recent experimental facts.



Top Row—Melichar, Prest, Johnson, Mendius, Fischer, Clark, Wilson.
Middle Row—LaZoris, Tibbals, Read, Cable, Muehlberger, Lewis.
Bottom Row—Mead, Grigsby, Luckow, Loo, Maitre, Pearson, Koehler.




# The Armour Fire Protection Engineering Society

The "Fire Protects" started the year conspicuously by unanimously electing the following officers:

| | |
|---|---|
| Fred Trask | *President* |
| Louis Kuttnauer | *Vice-President* |
| William Mintz | *Treasurer* |
| R. N. Mann | *Secretary* |

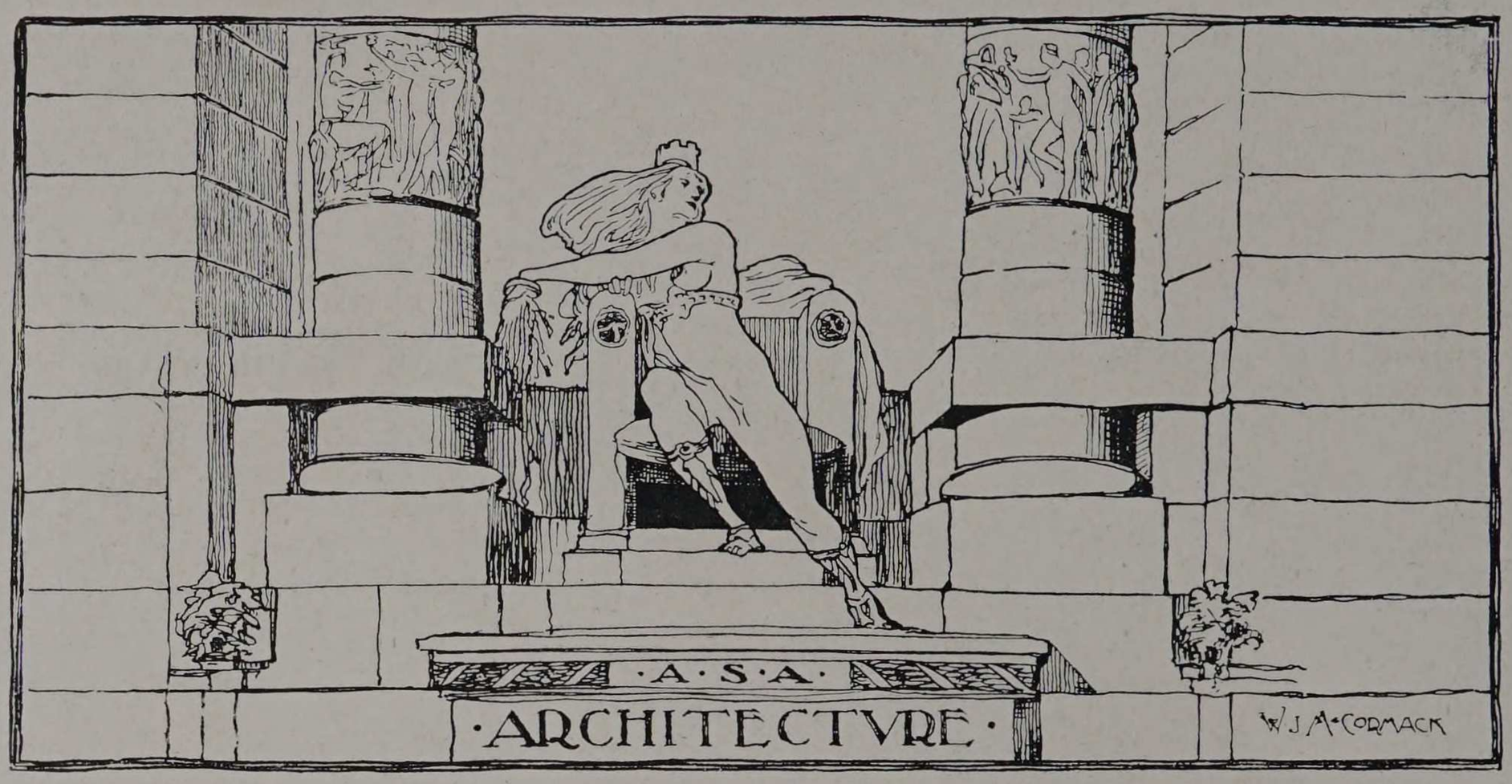
One or two meetings were held during the year, which were of great interest and benefit. It was not possible to give the usual program of regular meetings, because of the fact that the seniors were heavily engaged in the signal corps course, in addition to their regular work.

The faculty membership of the society has been slightly changed. Professor Allport resigned his position on the faculty to serve as a Lieutenant in the Coast Artillery Corps, and his position has been filled by Mr. N. F. Kimball, of the class of 1912.

The Department of Fire Protection Engineering has been conducting some unusually interesting work at the Underwriters' Laboratories on new apparatus which has been installed there, and much interesting material for investigation will await the men beginning their laboratory work next year



Top Row—Puschel, Kimball, Rusk, Mann, Mintz.
Bottom Row—Cole, Kuttnauer, Trask.




# The Armour Architectural Society

| | |
|---|---|
| Wm. Campbell Wright | *President* |
| Lewis E. Twery | *Secretary* |
| Armand Monaco | *Treasurer* |
| Stenett C. Hulbert | *Purchasing Agent* |

After many successful years under the name of "Atelier", a name which has always been mysterious to our brother engineers, and friends, it was decided to change the name this year to "The Armour Architectural Society."

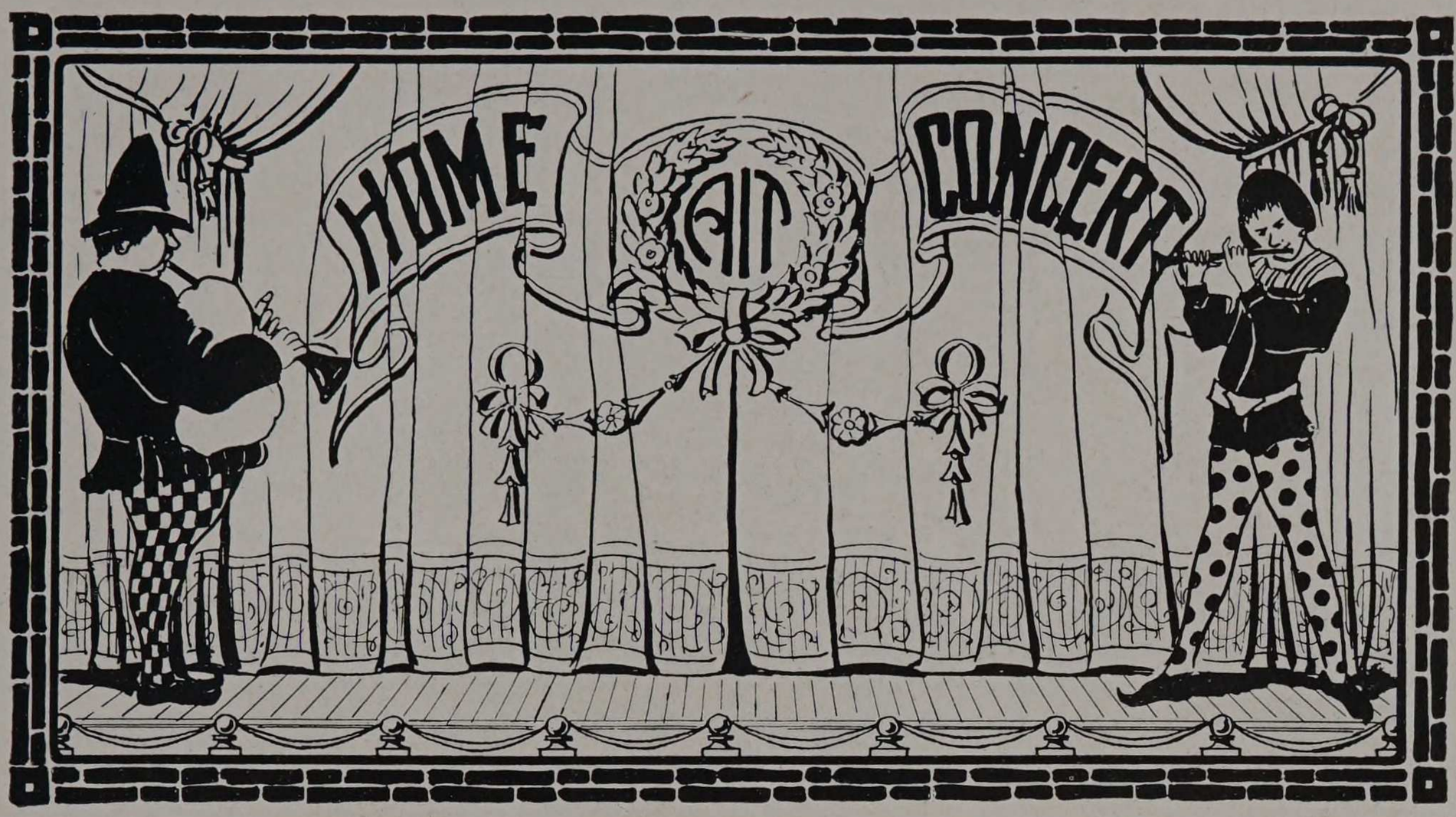
The wheels of our social program for the year were set in motion early in November, when the annual Freshman initiation and banquet was held. Some twenty-five of the new men were subjected to the ordeal, which, of course, we could not print for the benefit of future aspirants. When the "unsophisticated" had fully recovered, they were rewarded with the upper class-men, at the splendidly provided banquet table. Mr. S. A. Marx, a man prominent in Chicago Architectural circles, was then presented as speaker of the evening by Mr. Quinn. Mr. Marx left many valuable "tips" for the boys, and none have forgotten his well chosen bits of humor which made the talk doubly interesting.

The big event of the year, no doubt, was the "Brittany Street Fair" held in December. Inasmuch as the annual Mardi Gras was not held at the Institute this year, every effort, was made to make the "Fair" a real "Go". As usual, the bulk of the designing and construction fell to the lot of the architects, and we feel it no idle boast to say that they acquitted themselves creditably, or in plain English "produced the goods", despite the fact that the chief carpenter, Christensen, and Chief Electrician Steinberg, and jazz band director Quinn had gone to join the colors. Under skillful management the south-west corner of the Art Institute was transformed into a miniature Brittany village, properly supplemented to the satisfaction of the boys by a bevy of "Brittany Maidens". (Oh you poor engineers!) The soft-drink booth proved the chief rendezvous for the villagers, but there is still some dispute as to the chief attraction there, the drinks or those who served them. The donations to the Fair were very generous and sales were quite satisfactory, and the affair was judged to be "all that could be desired".





Y. M. C. A. Rooms




# Glee and Mandolin Club Concert

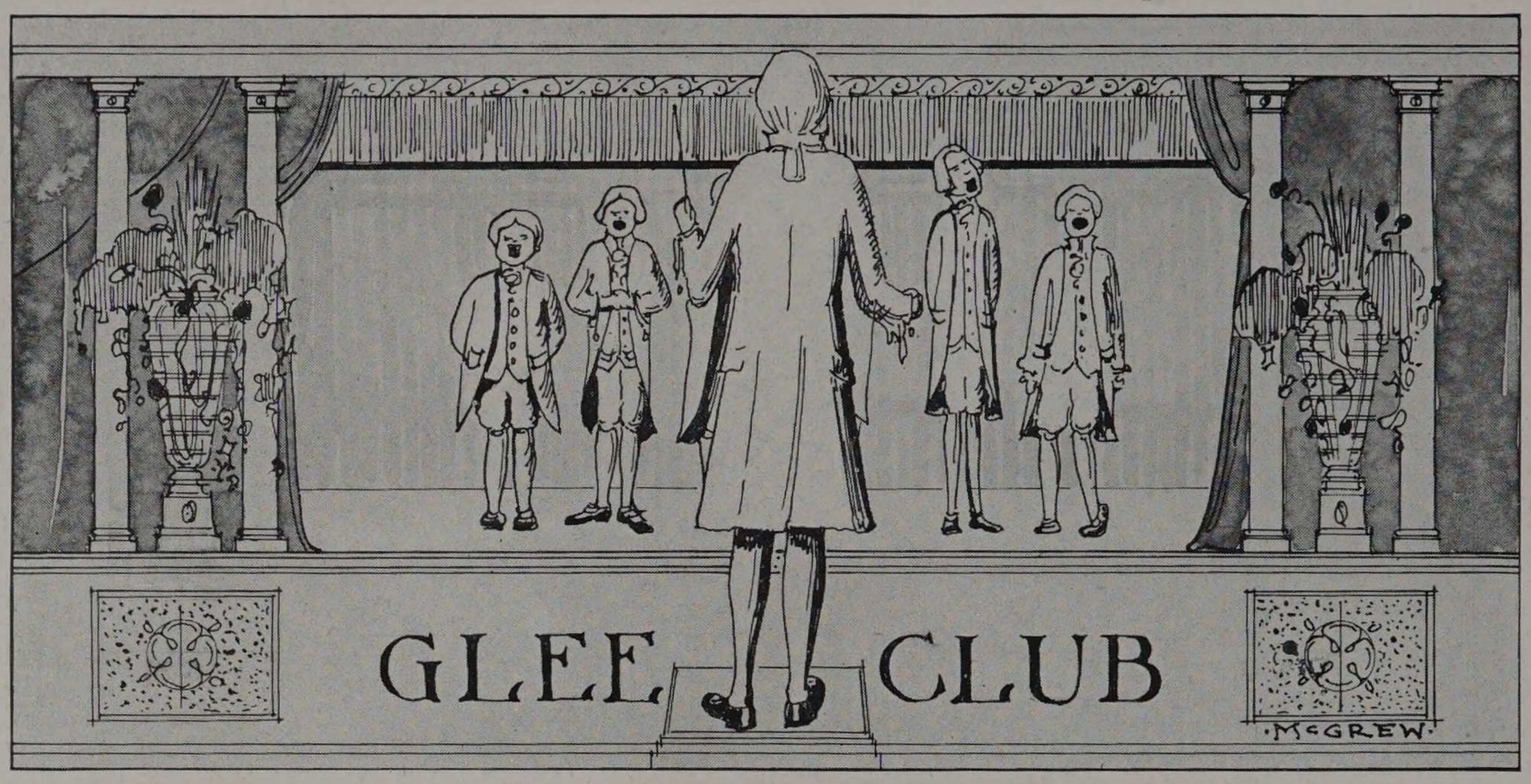
To fittingly climax a highly successful season, the Glee and Mandolin Club, "did their stunt", for the home folks, on Friday, April 19, at the Annual Home Concert. And it surely was "some stunt".

Bang, and away they go with the "Star Spangled Banner." Everyone was held in suspense until "America", sent home the large and happy crowd, conscious of having spent a most enjoyable evening. Each number of the program presented some new agreeable surprise. The many new faces found in place of these who have graduated, or are now serving the colors, furnished just the talent necessary to present a well balanced organization.

The "Whirlwind Jazz" of 1917, found a worthy successor in the "Twinkling Seven," of 1918, which surely can "strum a wicked string". The "Tech" boys are fortunate in having a bunch of fellows of the class of '21, who have been able to get together in so short a time.

The Italian Quartette Prof. Smith, Mann, Hofgren and Dryden featured by the charming eccentric dance of Miss S. E. Dryden, made a big hit. The "Darktown Serenade", by Strehlow, Michels, Jones, McCrea, was good, giving us a splendid imitation of our dusky neighbors. McCormack gave us a set of striking cartoons, well executed. He is a shining example of the class of artists we have at Armour. Broad and Marks were a scream and are due for much credit for their Love-making, which ended so romantically when Broad carried "Shorty" off the stage, to make room for a sketch of "The Lucky Seventh". Misses Dryden, Anderson, Rusk, Meilinger, were stunning; very bashful and demure. These young ladies were ably escorted and assisted by Messrs. Mann, Jones, Geisler, Michels. This was unadulterated Armour talent. The duets, choruses, and dances were executed as if the performers had been professionals.

Much credit must be given Prof. Smith for the able way in which he has trained the two clubs and the Quartette. This year, being handicapped, he has again turned out a well-balanced Glee Club, which came up to our old standard, and which rendered a well selected program.




H. E. Anderson ..... *Manager* R. N. Mann ..... *Leader Glee Club*
Prof. W. G. Smith . *Director Glee Club* F. C. Hinckley . . *Leader Mandolin Club*

## THE GLEE CLUB

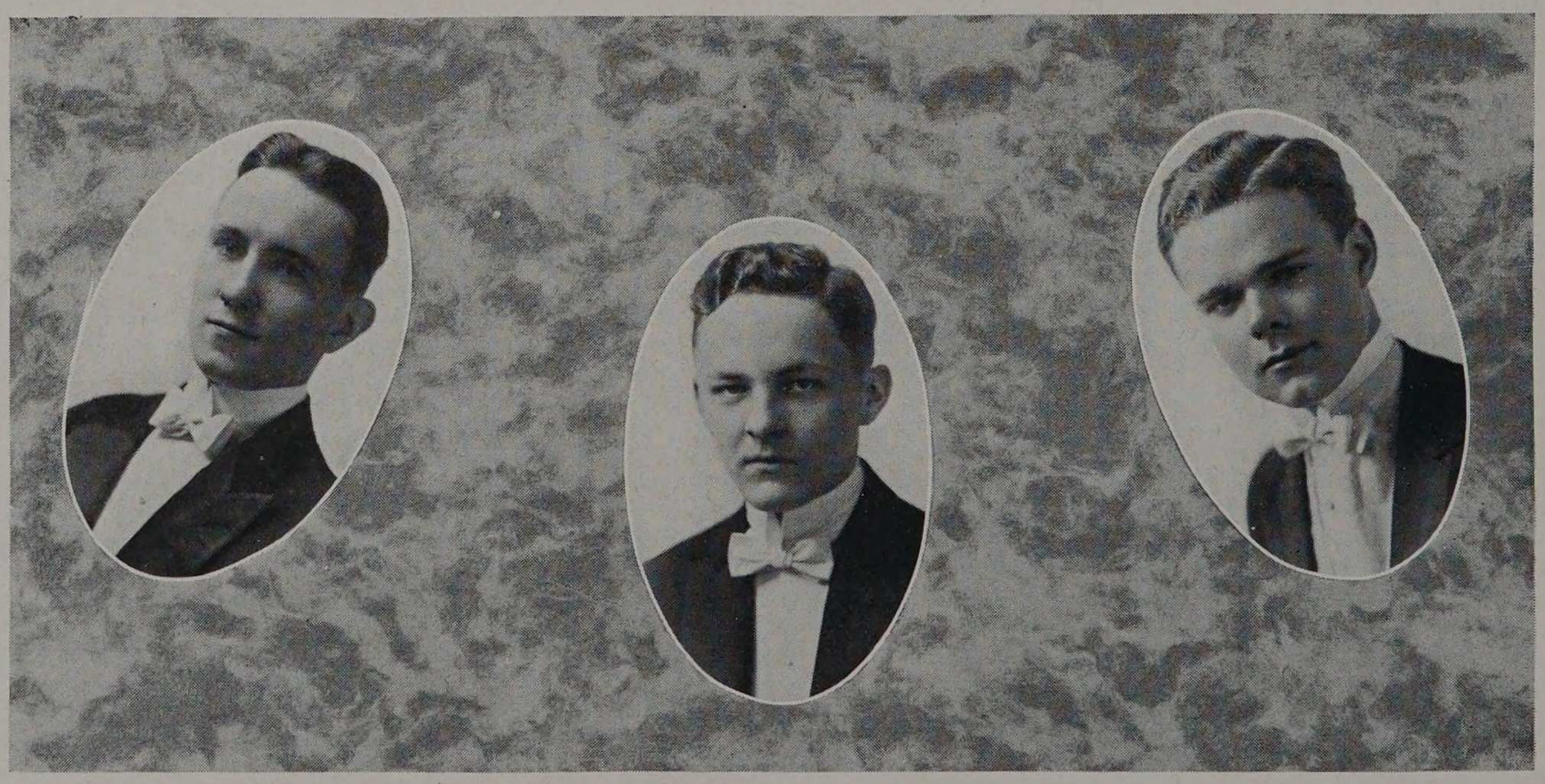
| *First Tenor* | *2nd Tenor* | *1st Base* | *2nd Base* |
|---|---|---|---|
| Prof. W. G. Smith | T. Michels | R. N. Mann | D. C. Berg |
| H. H. Shotwell | A. Strehlow | A. A. Hofgren | E. W. Geisler |
| R. C. Strehlow | E. R. Cole | L. E. Jones | B. G. McCrea |
| J. B. Thompson | H. E. Anderson | C. B. Pfaflin | W. C. Bell |
| R. P. Smith | M. P. Short | D. C. Cable | E. D. Scherier |
| | A. N. Dryden | E. W. Wilson | S. L. Broad |
| | | M. Q. Marks | N. F. Reiher |
| | | W. C. Zingheim | |

## THE TECH QUARTET

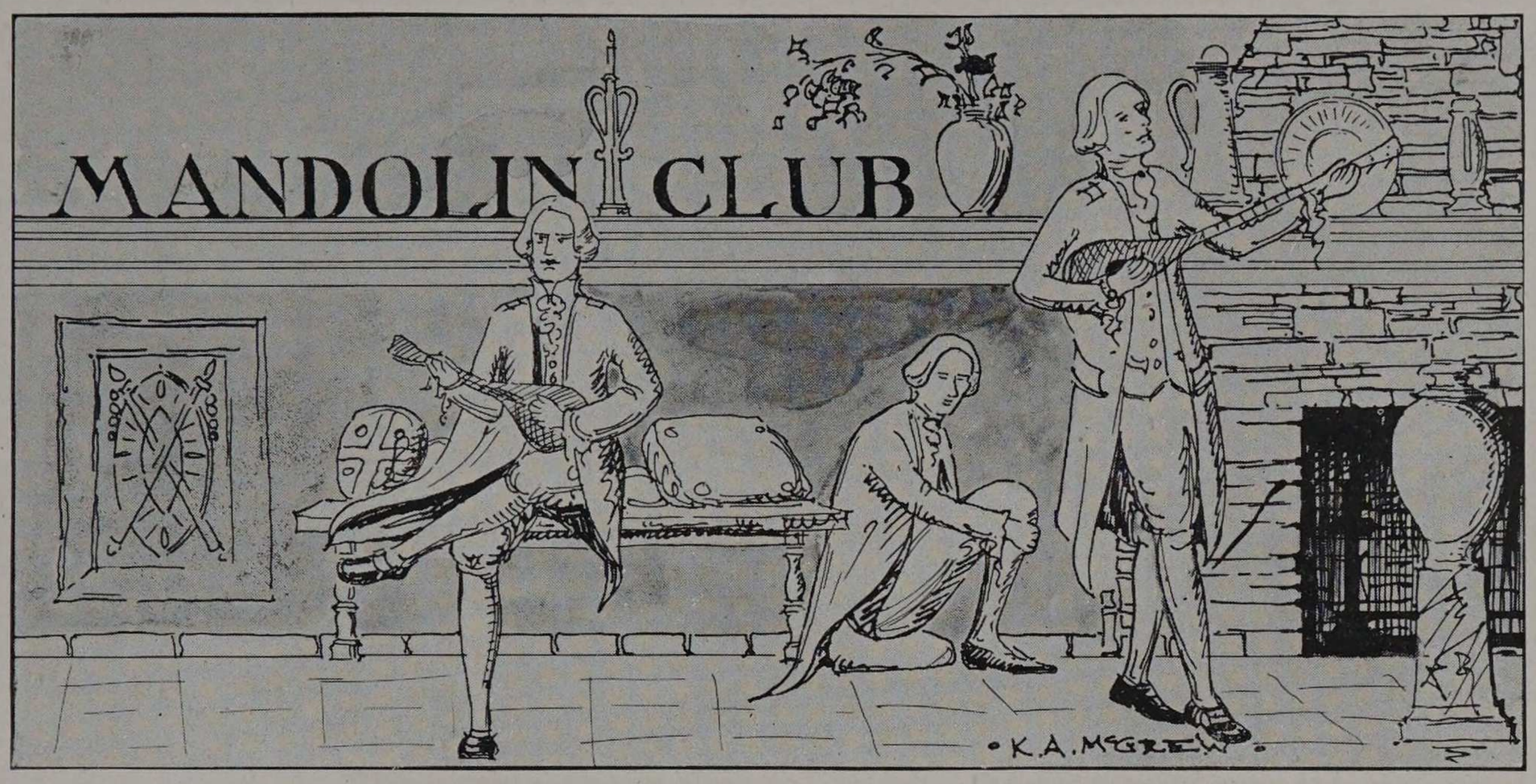
Prof. W. G. Smith A. N. Dryden R. N. Mann A. A. Hofgren

## THE MANDOLIN CLUB

F. C. Hinckley W. J. O'Connor J. B. Thompson R. C. Strehlow
T. C. Sedgwick E. V. Welch W. C. Zingheim



Anderson Mann Hinkley




# Glee and Mandolin Clubs

Undaunted by the unusual war conditions which confronted all the social organizations of the college this year, the Musical Clubs started off the year with try-outs which brought out over fifty men, and under the directorship of Prof. W. G. Smith embarked on a highly successful season.

Everett Quinn, 1918, was chosen to manage the clubs, but shortly after the opening of the school year left college for service in the army. Homer Anderson, 1920, assistant manager then assumed the manager duties, which he performed in splendid style. Richard Mann, 1918, was reelected leader of the Glee Club, and Clare Hinckley, 1920, was chosen to pilot the Mandolin Club.

The first concert of the year was given by the Glee Club at the Art Institute Benefit Bazaar, early last Fall. The Quartet made a trip to Great Lakes, Illinois, to sing for the jackies, and both clubs have performed at liberty loan meetings, and for various patriotic affairs.

On the 6th of April, the clubs appeared at a tea-dansant at the Blackstone Hotel, given by North Shore Surgical Dressings Unit.

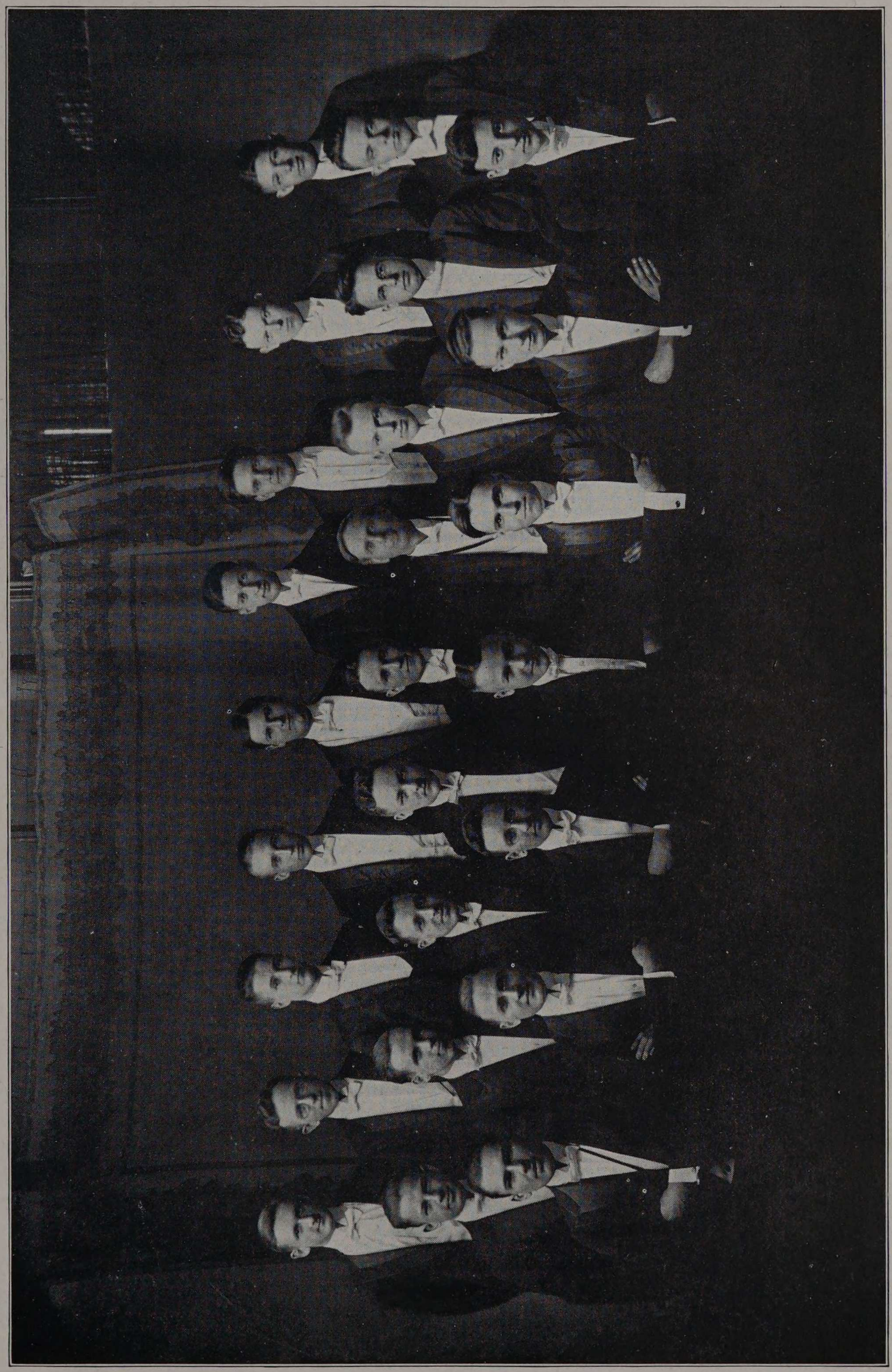
On April 19th, the big event of the season—the stupendous magnificent and Home Concert was pulled off with unprecedented success. Both clubs performed in excellent style. The Glee Club sang rollicking and patriotic songs in their usual jovial manner; people just could not sit still when that band began to play; the four coons made the audience howl; Marks and Broad were a scream; McCormack was clever, as usual; the spaniards showed marked operatic ability; and the songs from the famous "Lucky Seventh" fittingly closed a delightful and varied program.

The success of the clubs this year was due to the splendid support of a large number of Freshmen. To these men the management is duly grateful. A large number of these men will return next year, and we have every reason to expect a banner 1918–1919 season.



Sedgewick Welsh O'Connor Hinkley Thompson Strehlow

Zingheim





ANDERSON MARX BERG

# Y. M. C. A.

OFFICERS

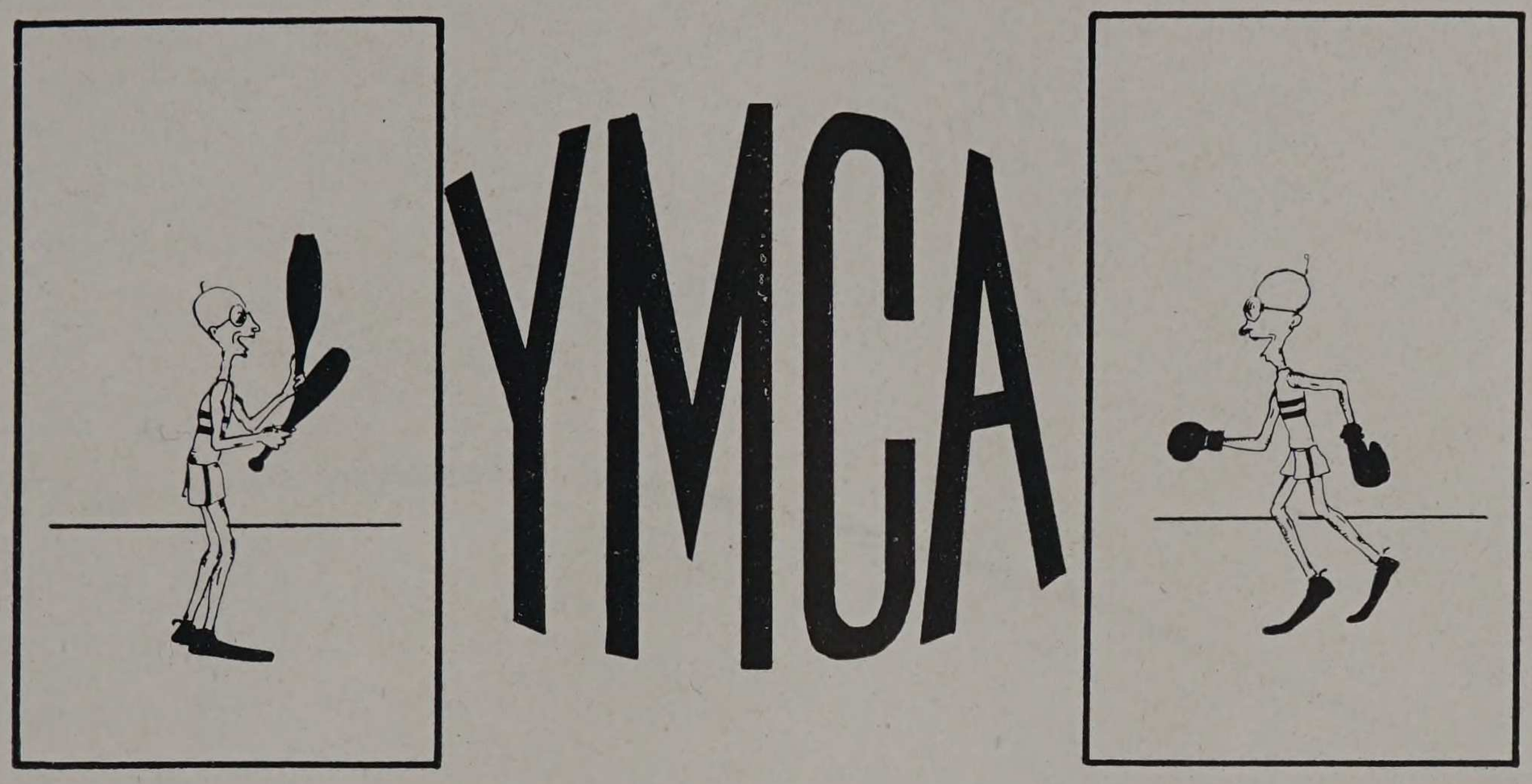
HOMER ANDERSON . . . . . *President*
D. C. BERG . . . . . *Vice-President*
F. E. HAYDEN . . . . . *Recording Secretary*
F. E. MARX . . . . . *General Secretary*

CHAIRMAN OF COMMITTEES

R. O. JOSLYN . . . . . *Membership*
I. M. ENGH . . . . . *Meetings*
J. L. ANNING . . . . . *Social*
D. C. BERG . . . . . *Handbook*

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PROF. G. M. WILCOX, *Chairman*
PROF. G. L. SCHERGER
PROF. T. E. DOUBT
PROF. M. B. WELLS
PROF. R. V. PERRY
PROF. O. C. CLIFFORD
MR. F. U. SMITH
MR. H. E. ANDERSON
MR. F. E. MARX

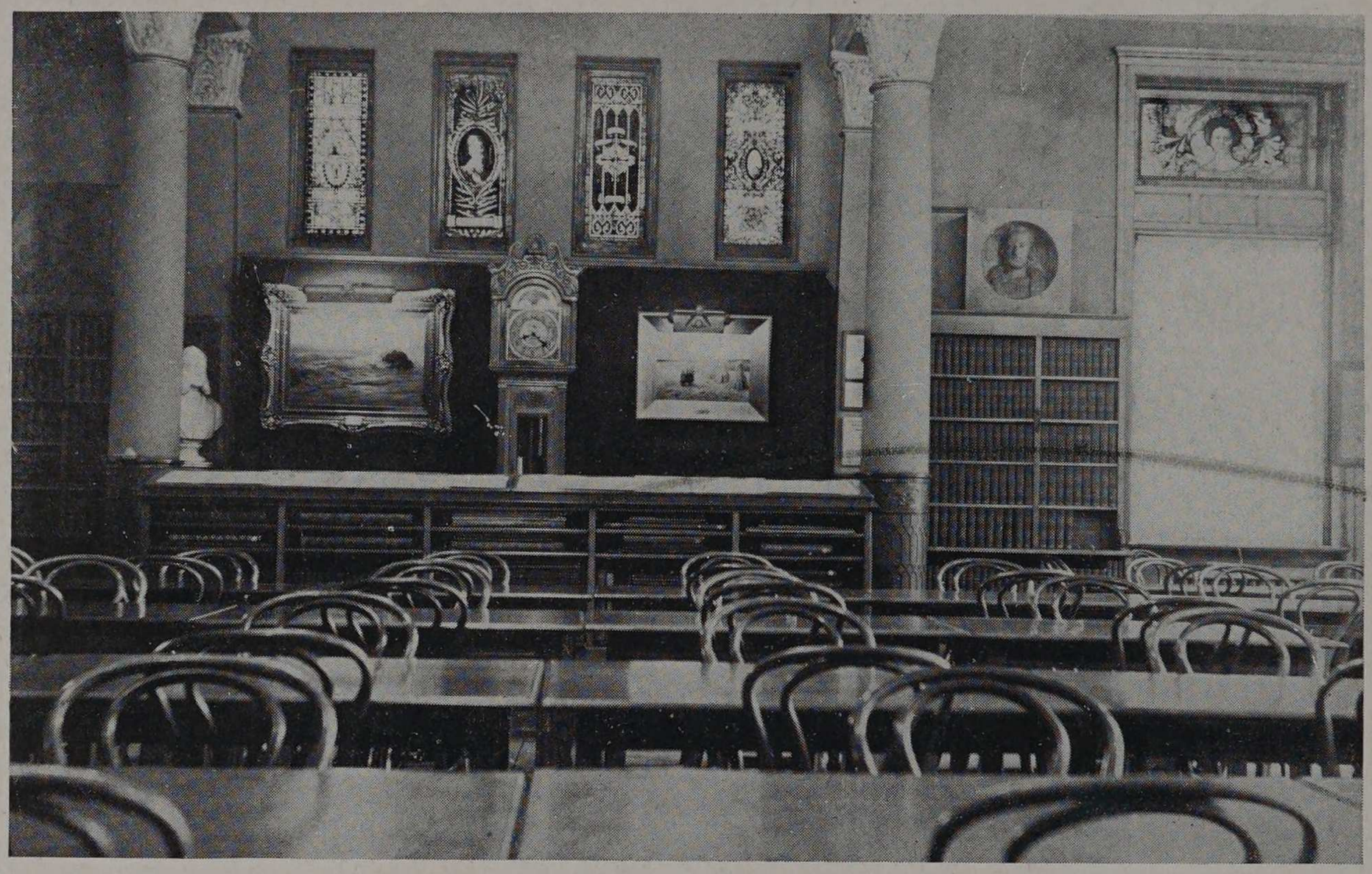



The Armour Institute department of the Y. M. C. A. of Chicago was organized in 1899 as one of the student departments of the Y. M. C. A. of Chicago. It aims to create and maintain a strong sentiment for higher morality among Armour students, and to provide a pleasant meeting place where they may develop their social nature and partake in wholesome recreation. It occupies two comfortably furnished rooms in Chapin Hall. These rooms contain a piano, a billiard table, magazines, and various indoor games. In these rooms meetings are held from time to time, where students are given the opportunity of hearing interesting and instructive talks on moral and religious topics.

The Association has about seventy-five members. Membership entitles the holder to all of the privileges of the rooms at Armour, and to the house privileges and special priveleges at any Y. M. C. A. in the country. Members of this department may obtain membership in any of the larger departments at materially reduced rates.

The Association is supported by fees collected from its members, and by generous donations from the executive council of the Institute.

The Y. M. C. A. takes the lead in fostering the proper spirit at Armour by distributing an attractive hand-book on every registration day, and by holding the Freshman Handshake early in each school year. The Handbook contains helpful suggestions and valuable information for students.

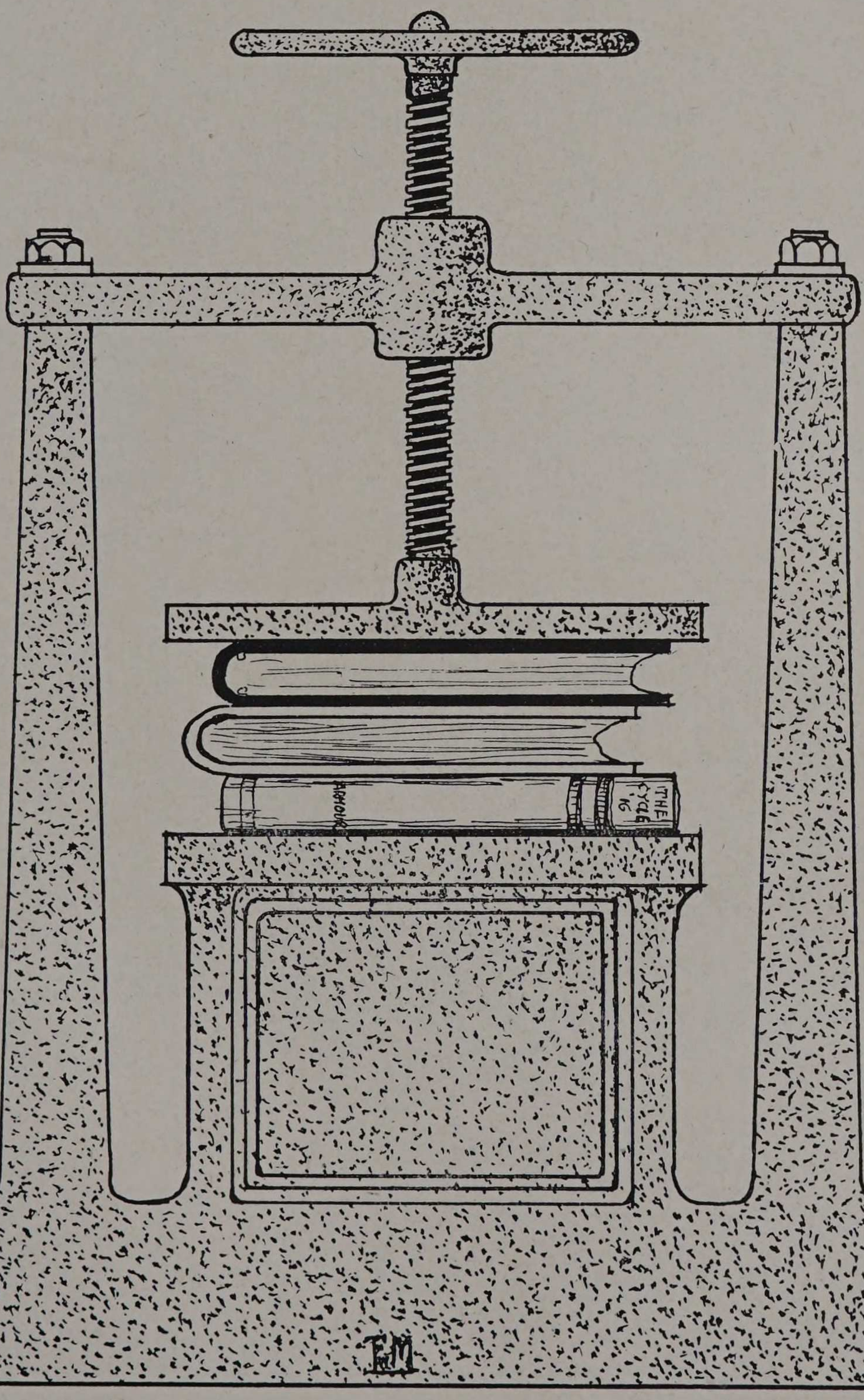


The Library

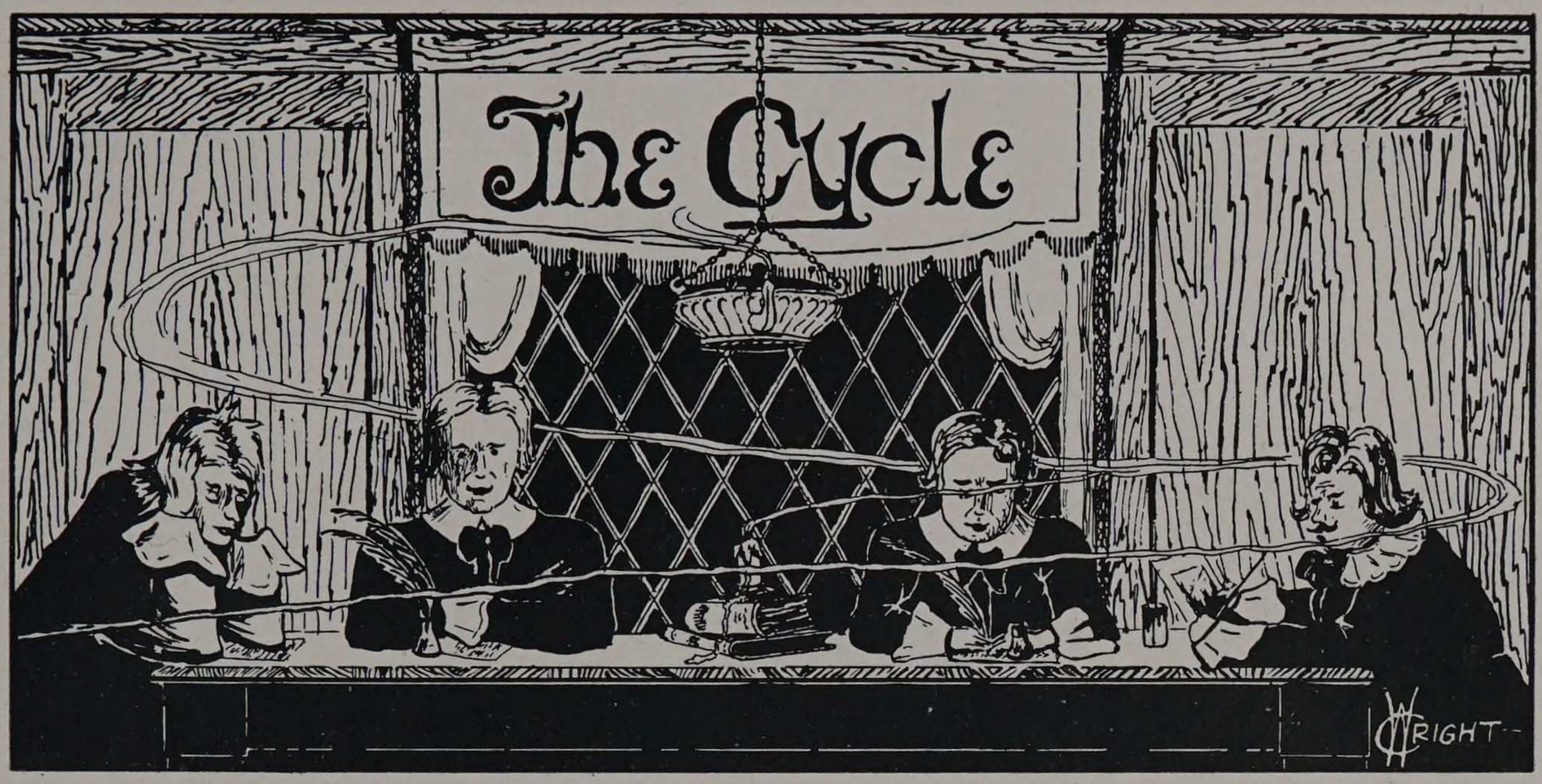


The Memorial Window

# THE DRESS








# The Cycle, 1918

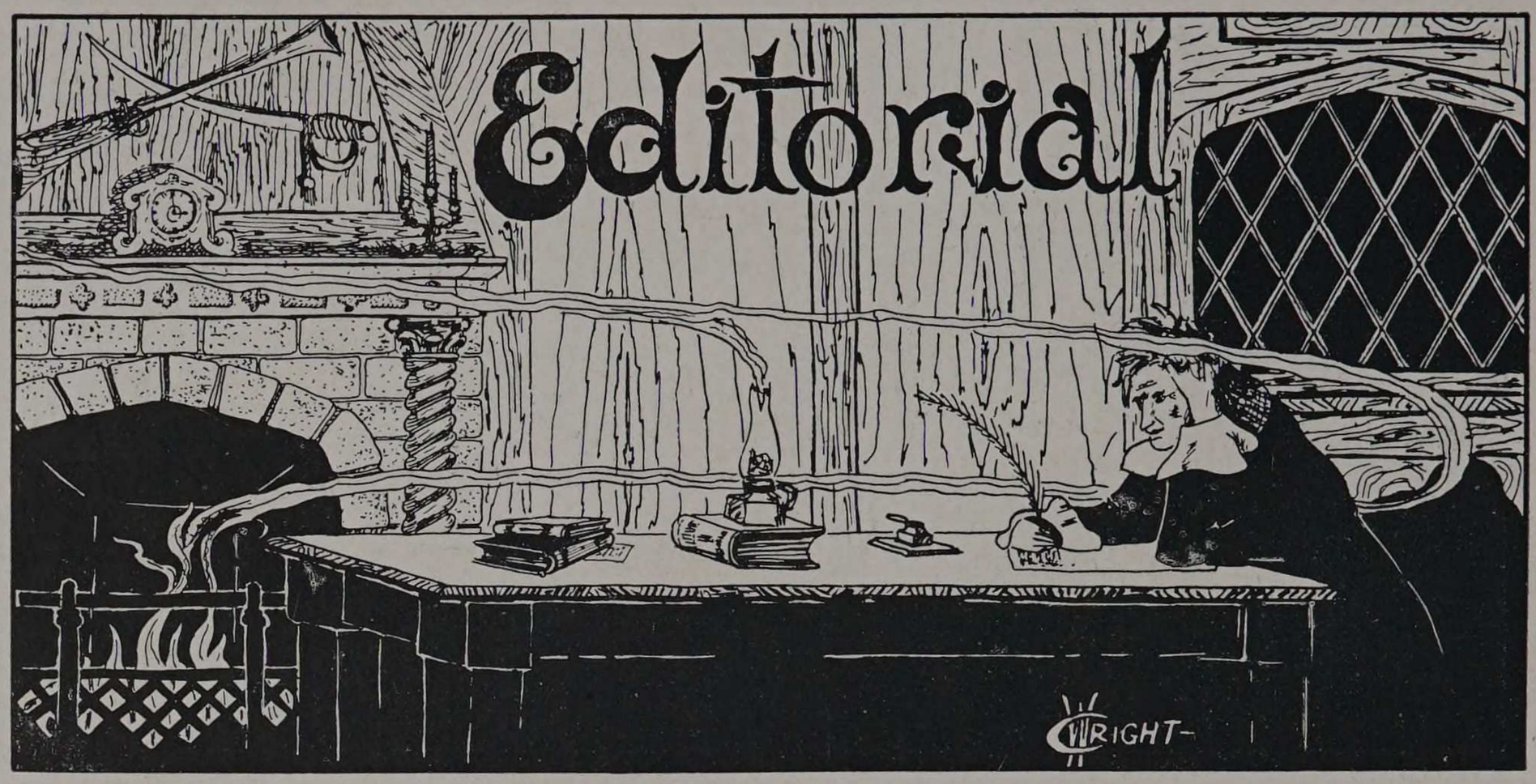
WILLIAM MENDIUS . . . . . *Editor-in-Chief*
ROBERT H. RENSCH . . . . . *Managing Editor*
RAYMOND O. JOSLYN . . . . . *Business Manager*
J. A. KEETH . . . . . *Advertising Manager*

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I. M. ENGH . . . . . *Assistant Business Manager*
F. A. TRASK . . . . . *Assistant Advertising Manager*
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A. E. ERICKSON . . . . . *Assistant Art Editor*
M. F. BACON . . . . . *Photography*
H. S. MUESSE . . . . . *Photography*
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A. W. FOLEY . . . . . *Sophomore Class Representative*
T. MICHAELS . . . . . *Freshman Class Representative*
J. P. SANGER . . . . . *Freshman Class Representative*

## CONTRIBUTORS

C. L. GOLD E. H. ARNOLD A. S. LAZORIS




The "manufacture" of the 1918 Cycle has been a hard task this year; in fact much harder than in former years, due to the present condition of war. The staff, beset by unusual difficulties, has tried hard to make this book what it should be—a treasure prized by every Armour man, as a remembrance of his school days.

Our aim has been to depict all phases of school activities; to hold the interest of all, and in such a manner as to recall and fix in the minds of our faculty and student body the passing events of the year; to inform the Alumni of the achievements of their Alma Mater; and to enlighten the outsiders as to our school activities.

Therefore the staff will feel itself amply repaid for its work if the reader is satisfied with this volume.

We wish to express our appreciation, to the William Louis Koehne Studio; to the Rogers Printing Company; and to the Jahn & Ollier Engraving Co., for their help and cooperation in making this book a success. To the Cycle Board, we wish to extend our hearty thanks for the pride and interest they have taken in the making of the Annual.

To the following, The 1918 Cycle staff wishes to express its sincere appreciation for the interest they have shown and the encouragement they have given.

Dr. F. W. Gunsaulus
Dean L. C. Monin
Dean H. W. Raymond
Mr. F. U. Smith
Prof. G. L. Scherger
Mrs. J. Beveridge
Prof. W. K. Smart

If, in reading over these pages, the reader feels that there are various shortcomings, let him remember that this country is now in a state of war, in which we must all have a single aim—victory. To accomplish this we must all work in unison and observe one of our chief passwords "save". The staff has tried to work towards this end, even at the expense of being severely criticised.

Thus in accordance with the character of the times, one of our main policies has been, to save as much money as possible in the cost of producing this book, and yet try to please, realizing that we cannot please everyone. We are proud to say, that with the support of the student body, and with much encouragement and help from Dean Monin, Dean Raymond, Mrs. Beveridge, and Dr. Scherger, we have edited this Annual.



# THE ARMOUR ENGINEER

## 1917-18

H.G.

With the publication of the May issue of Vol. X of the Armour Engineer, the first ten years will have elapsed since the founding of this first among all college technical publications. Begun under difficulties, it was only a short time before the Armour Engineer attained its present enviable position. With this rapid rise and phenomenal success in mind, the present staff took upon itself, the duty of furthering and strengthening the status of the journal.

Upon review of the past year, the staff has come to a full realization of the co-operation which the Alumnis has extended the Armour Engineer. Not only has the support of the Armour Alumni Association been entirely satisfactory, but the great majority of articles and editorials have been contributed by graduates of the school. This has the desirable tendency to keep the journal an Armour paper. The Alumni section, edited by the publication committee of the Alumni Association, serves as a means of communication among the graduates of the Institute. It is that part of the Armour Engineer Devoted to the Personal mention of the Graduates of the Armour Institute of Technology, and to the affairs of the Armour Alumni Association.

A full measure of success has attended the issuance of Vol. X. A glance thru the four issues of this volume will reveal a scope of articles and editorials such as do credit to a journal of its kind. The articles cover many phases of engineering in both a specific and a general manner. The editorials have been in keeping with the times. They have served as a record of the war activities at the institute; and they have been of a type and character which tend to advance the interests of the engineer and his profession. The books have been "newsy" and interesting, and yet of a very technical nature.

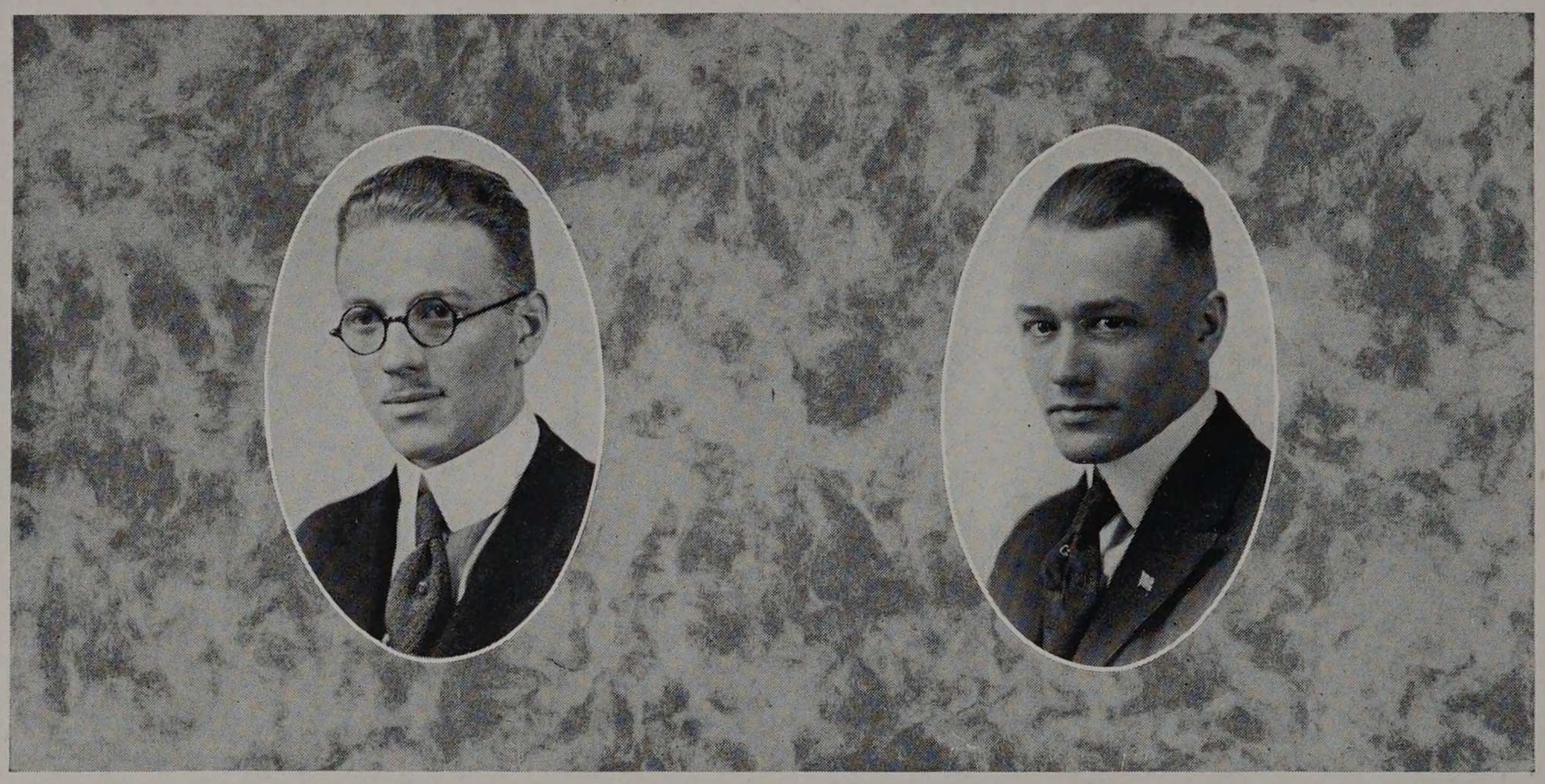
A most fitting occasion has given rise to the deviation from the standard, which form was adopted with the first number in order that it might be easily recognized as that of the Armour Engineer. That of the May 1918 issue was adopted so that the first number containing an Honor Roll of the graduates and students of the Armour Institute might be a number somewhat apart from the others.

The editors of vol. X desire to express their appreciation for the many valuable suggestions and contributions received from Dean Monin, Dean Raymond and Mrs. Beveridge; and for the support and co-operation of the Armour Alumni Association.



Looking South on Federal Street

# JUNIOR WEEK



MENDIUS

MAITRE

# Junior Week Program

Monday, May 6, Class Banquets.

Tuesday, May 7, Interclass Baseball;
Freshmen vs. Sophomores.

Wednesday, May 8, Interclass Baseball;
Juniors vs. Seniors.

Thursday, May 9, Cycle issued.
Interclass Baseball Championship.

Friday, May 10, Junior Prom.

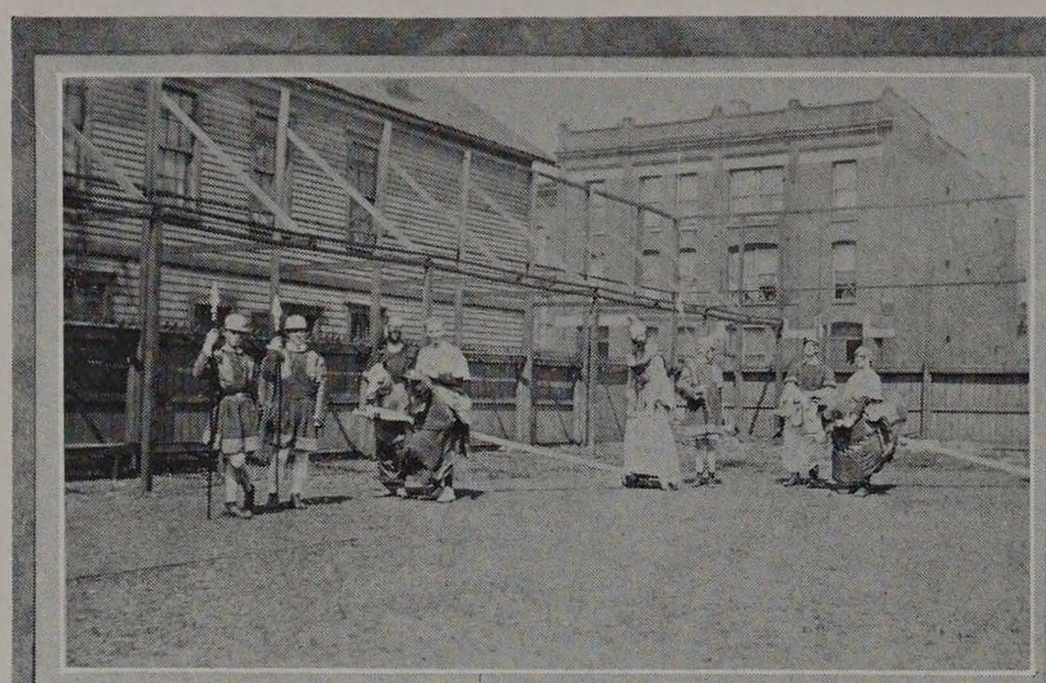
# Circus Day at Armour Institute

On the afternoon of May 10th, with Cycles under our arms we dashed across the street from the Mission into Ogden Field, and sought a sunny spot in the "bleachers" to view one of the most interesting of all Circus Days. The field filled up rapidly and we could see many an Armour "grad.," come to see another Circus Day. The "Profs.", were also there, and many of the fellows brought fair visitors with them.

A lively band soon drew our attention to the various groups of fraternities. They marched through the gates into Ogden Field and did funny stunts that held the crowd in continuous laughter. Delta Tau Delta came clattering down the street representing Roman charioteers. They lined up at one end of the track and ran off a snappy chariot race, which netted them the first prize. Every warrior looked his part as he sped down the track, drawn by his "war horses". Phi Kappa Sigma with its representation of the famous painting of the drummer, fifer and flag carrier, was also very good. Sigma Kappa Delta was well represented by several small groups. A colored man drawn in his "one dawg shay," made a hit with the crowd. The only thing lacking was a cat, and then the poor colored man would have been up against it. The policeman, with the "big head", had a hard time keeping the crowd in order, especially when the bear tried to hug the fair sex, an act no Armour man will allow (anyone else to do). There was plenty of action in the moving picture camp that Beta Phi men represented; a western drama being photographed. A maiden was getting water, at a spring when she was captured by a band of Mexicans. The Americans made a dramatic entrance in motor cars and gave battle to the Mexicans, routing them, and rescuing the fair maiden, who fell in love with the commander.

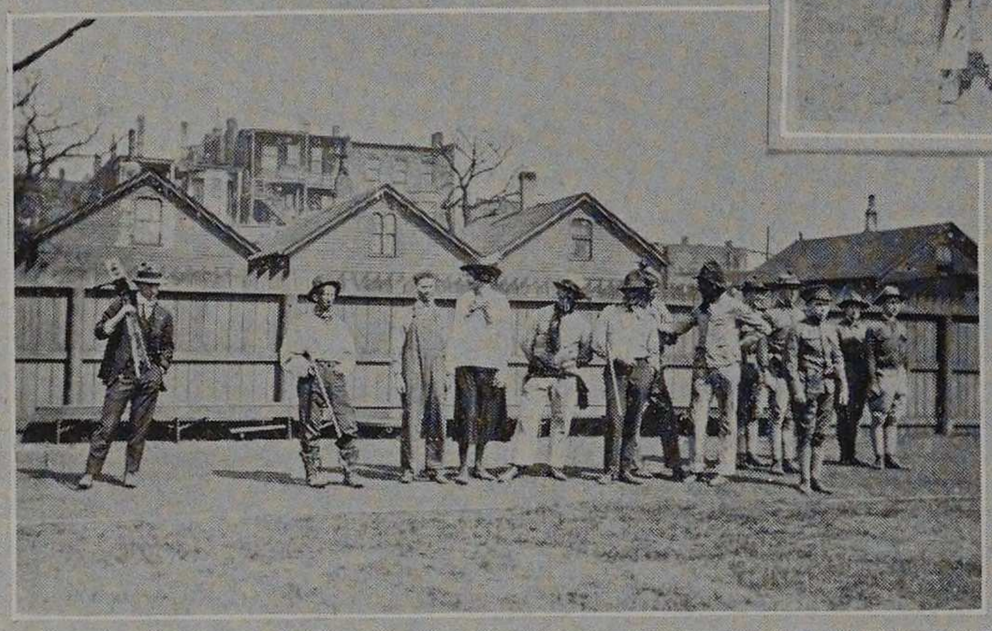
The moustache contest was a very humorous and interesting affair. The contestants were primed for this affair after weeks of careful nourishment on their upper lips with every known hair tonic. They presented almost every mustache in captivity from short stubby blond ones, to long slender black ones. The judges, after a close inspection with a magnifying glass, transits, and vernier calipers awarded first prize, in the form of a pair of military hair brushes, to Harry Roberts and a bottle of hair tonic, as second prize, to Leonard Gordenier.

Something entirely new in a Circus Day performance was a boxing and wrestling match. Anderson and Windblad put up a fast and snappy bout, the referee finally declaring it a draw. Williams and Weber were the wrestlers, who showed us some real stuff. These contests were full of pep and held the interest of every spectator.










SPIRIT
17
LAST
RIGHT
SPIRIT





In the tug of war the whole school showed itself in action. The seniors pulled against the juniors. The former were forced to give way to superior numbers although they were liberally helped. The sophomores and freshmen were more evenly matched. The sophomores finally won out after a strenuous pull for ten minutes.

The inter-fraternity relay race as usual, was an exciting feature of the day. The Beta Phi team, consisting of Finkl, Erickson, Kerr and Mendius won a closely contested race with Omega Lambda at their heels. A handsome loving cup was the prize.

One stunt that should not be forgotten was the peanut race. The men who took part had great difficulty in finding their peanuts, due to the fact that many students forgot to eat lunch at noon. As free lunch is very scarce now, they thought this a good opportunity to satisfy their craving appetites.

And so evening came on, and we had to leave. Much credit must be given to Marshall Kerr, for staging such a successful circus.

# "The Lucky Seventh"

What a genuine pleasure Royal Chappell, Everett Quinn, and their brilliant confreres gave old Armour on the evening of May ninth. If Tech Days was "a distinct innovation", the Lucky Seventh was a bomb placed under the hard beaten path of college dramatics. "Old stuff" disappeared in a cloud of dust, and left a bright, sparkling, and snappy hit. It has been many years since such exceptional character drawing, such flawless diction, and such magnificient ensemble delivery has been the result in performance by seekers of the B.S.

The Quinn document itself, while a masterpiece, would fare hideously touched by less illuminating intelligences than those provided by the splendid company at the Central Music Hall that evening.

Ralph Rusk and Harold Shotwell as Ruth and Blanche Morgan, won the hearts of the audience immediately. They subdued their voices to the feminine tone without perceptible exertion; and played true characterization throughout.

The appearance of Everett Quinn as Jack Lane was greeted with hearty applause from an appreciative audience.

Richard Mann appeared as Bob Higgins, Jack's chum. As a warbler Richard needs no introduction; his rendering of Watchful Waiting was characteristic of his usual good work.

Donald Cable came forth as the Reverend John Frothingham. He ably presented himself as a real stage clergyman who decrees eternal punishment for those who take pleasure in syncopated movements of the feet, etc. to the rythmical accompaniment of a jazz. In spite of this his wife Martha, who is brought to us by the person of Allen Dryden, soon has him whirling with the merry-makers.

Stanley Evans as John Morgan, Impresario, delivered his lines in good style, never boring his audience by an unfaithful imagination which persists in adding to a character qualities entirely extraneous.

Edward Sheuer carried off the theatrical manager stunt as Tom O'Rourke. The fragile opportunities in the character he played gave Ed a chance to make good, and this he surely did.

Lewis Twery brought to us the well known stage character, the English lord; this time it was Windbourne. Perhaps I must deduct from Twery's success a three yard handicap, because part of what is often the make up, was Lewis' personal property.

In the musical numbers, with solists and chorus under the baton of Royal Chappell, the orchestra put on the touch of completion which made the work a brilliant contribution to stage literature.

To our worthy playwrites we must present the silver cup for putting one over on an Armour audience. As weird strains of the Ukelele burst forth, and the alfalfa clad Hawaiian maidens tripped lightly among the players—in swept Helene Encore with her delightful and charming accomplishments. Immediately she wove a charm over an audience which was tumultuously receptive of her pleasant talents.

When interviewed she said:

"O, I think the Armour boys are simply wonderful in bringing out such a perfect production, and to think they are all engineers; ordinarily such sober heads."

"Real intelligence," she continued, "can be applied in most any direction as this evening's work surely shows."

# The Freshman Handshake

"A friend in need is a friend indeed" and the Y. M. C. A. assumes the part of just such a friend to the new arrivals each year. The Freshman spends his first day at Armour by making a personal acquaintance with the dignitaries of the registrar's, deans' and comptrollers' offices, in presenting the necessary credentials regarding scholastic and financial standing. He is then scheduled to grope about helplessly among the faculty (his natural enemies) and the upper classmen, whose particular duty, according to tradition, is to "get him". And here our hero the "Y. M." steps in, and at the earliest convenient date, almost before classes are well under way, the annual freshmen Handshake is held, and the stranger is given to understand that he is one of us.

The Handshake this year, held September 20th, was attended by about one hundred loyal and enthusiastic Armourites. The program was especially enjoyable. It consisted of a talk on "Patriotism" by President Gunsaulus; an analysis of what the Association stands for, by Professor Wilcox; and music by the Armour Institute quartet. H. W. Puschel, President of the Association, gave a short talk on the Association from the student's standpoint, and H.H. Shotwell, following a custom long established and perpetuated by Professor Penn, told the freshmen of the significance of Tau Beta Pi. The program was supplemented by informal basket ball, billiards and other indoor games; swimming, music, refreshments; and many a yarn and quip well told.

The Handshake is the one event of the year where the entire student body has an opportunity to get together for a good sociable time. The main purpose of the event is to give the freshmen an opportunity to gain the acquaintance of the upper classmen; and as the management of the Hyde Park Y. M. C. A. always graciously donates the use of the club rooms for the occasion, it gives the boys an opportunity to see what are the advantages, moral, physical and social, of membership in the Y. M. C. A.

# "The Reg'lar Army Man"

He ain't no gold-laced "Belvidere", ter sparkle in the sun
He don't parade with gay cockade, and posies in his gun;
He ain't no "pretty soldier boy", so lovely, spick and span,—
He wears a crust of tan and dust, the Reg'lar Army man;
The marchin', parchin',
Pipe-clay starchin',
Reg'lar Army man.

He ain't at home in Sunday-school, nor yet at social tea,
And on the day he gets his pay he's apt to spend it free;
He ain't no temp'rance advocate, he likes ter fill the "can",
He's kinder rough, and maybe, tough, the Reg'lar Army man;
The r'arin, Tearin',
Sometimes swearin',
Reg'lar Army man.

No state 'll call him "noble son." He aint' no ladies' pet,
But, let a row start anyhow, they'll send for him, you bet.
He "don't cut any ice" at all in Fashion's social plan,—
He gits the job ter face a mob, the Reg'lar Army man;
The millin', drillin',
Made for killin',
Reg'lar Army man.

They ain't no tears shed over him when he goes off ter war,
He gits no speech nor prayerful "preach", from mayor or governor;
He packs his little knapsack up and trots off in the van,
Ter start the fight and start it right, the Reg'lar Army man;
The rattlin', battlin',
Colt or Gatlin',
Reg'lar Army man.

He makes no fuss about the job, He don't talk big or brave,—
He knows he's in ter fight and win, or help fill up a grave;
He ain't no "Mama's darlin", but He does the best he can,
And he's the chap that wins the scrap, the Reg'lar Army man,
The dandy, handy,
Cool and sandy,
Reg'lar Army man.

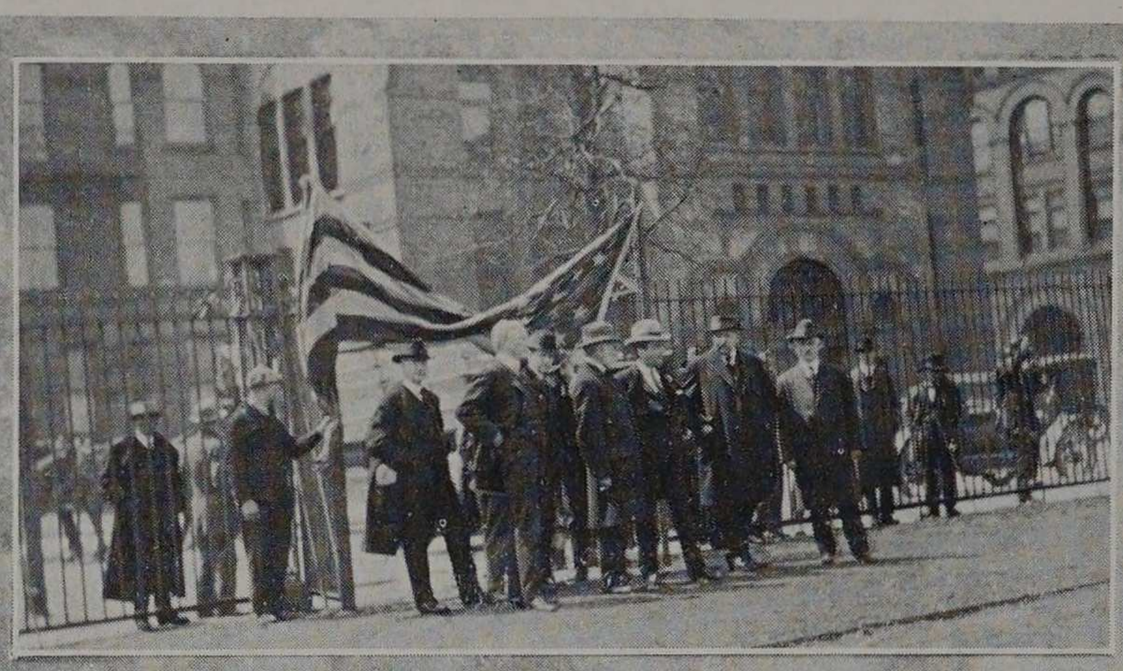


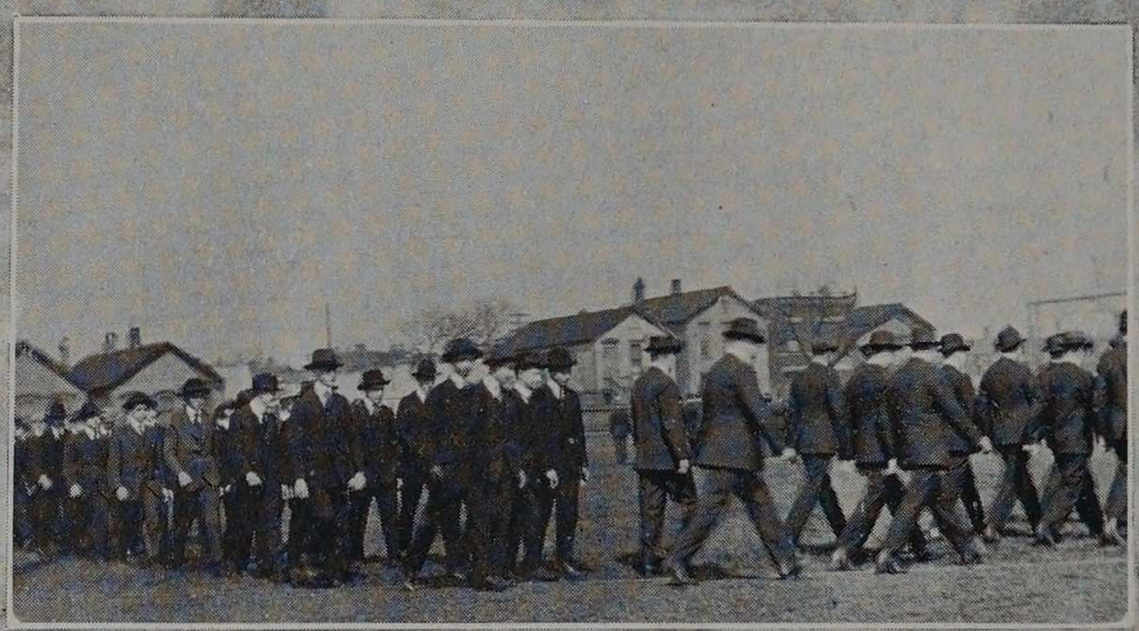


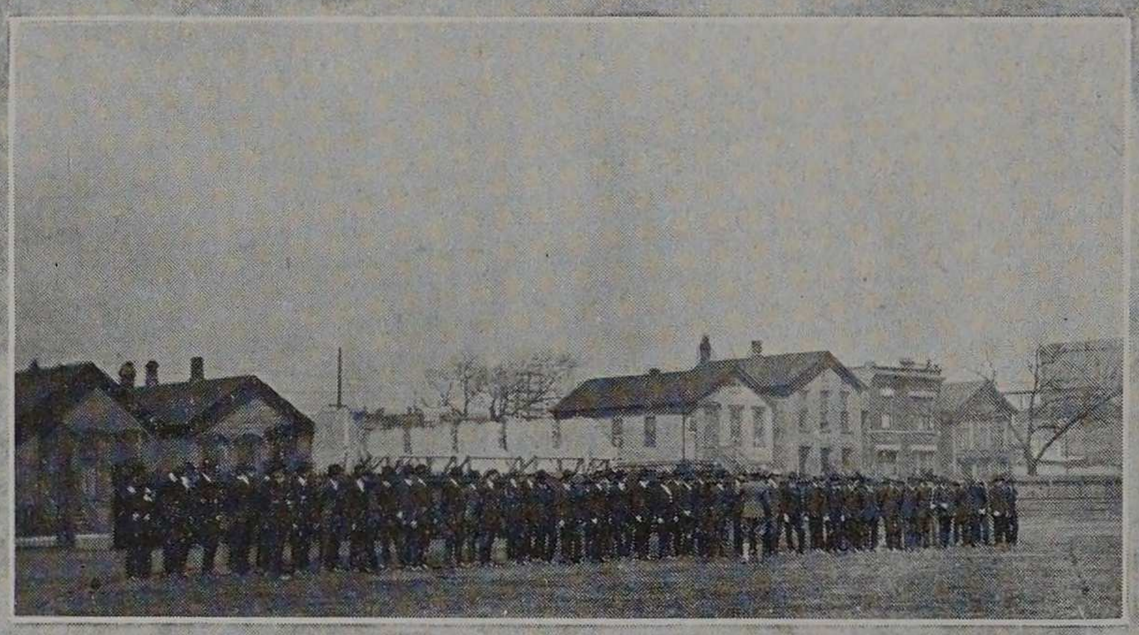

Many references have been made throughout the pages of this book concerning the many changes brought about in the regular school activities, whether scholastic, athletic or social, due to war-time necessities. A consideration of the various developments of the war has no doubt brought very forcibly to our attention the countless engineering feats produced, many of which seemed to border on the impossible, but a short time ago. Since we must admit that the outcome of the struggle shall depend to a great extent upon the engineering genius presented by either side, it is needless to say that A. I. T. has more than a passing interest in present day affairs. Throughout its history "Armour" has sought to place "first things first," and to this end the curriculum of former years has always been filled with technical subjects sufficient to keep our boys "out of mischief". The meager supply of athletics and "social engineering" were side lines indulged in by relatively few in a relatively small percentage of time (after working hours).

The summer of 1917 brought a somewhat different point of view to school officials, faculty and student body alike. The country was at war. It needed men. It needed young men. It needed healthy, strong, lively intelligent men, and perhaps most of all it needed engineers. On Thirty-third and Federal Streets, Chicago, is located an Institution, which is operated for the express purpose of turning out just this sort of material. Now a diamond, though ever so costly, will fail to fulfill its proper function unless properly cut and polished to fit its setting, and likewise our boys though they might stand in first rank as engineering students, required the rudiments of military discipline, etc. to make them of value to that cause to which they were willingly devoted. Consequently in the Spring of 1917 it was agreed by officials and student body to temporarily abandon athletics and devote as much time as possible to military drill. Lieutenant Bolte, an Armour graduate of 1915, called "tension" to the first squad of recruits that presented itself at Ogden Field for drill. Hour after hour was spent in drill, first with small squads and finally with the whole school. Even the faculty came out, about 20 strong, and though it is said that at times the joints cracked and muscles ached, it was never stated that they were not "game".

# MILITARY









Incidentally we are pleased to mention that Prof. Ladd and Prof. Gilbert are now serving the colors, while Prof. Dean is engaged in army cantonment construction. The training continued throughout the remainder of the semester, and when Lieut. Bolte was ordered to another post, Sergeant Shea took charge of the drill. During the present year provision has been made in the schedule whereby every student is obliged to take military drill one afternoon a week, during his first two years at college, and is then allowed to take as much more as may seem desirable. During the winter months, the boys have been confined to work in the gymnasium, a large part of which was in the nature of lecture and instruction work.

Our military activities, however, have not been limited to drill, for the fact remains that A. I. T. is far better equipped to develop that part of the body extending from the neck upward rather than from the neck down. Uncle Sam found one of his greatest needs in the supply of men to man his proposed merchant marine, which is scheduled to play such a vital part in defeating the purpose of the U boats. Again Armour filled the breech by turning out eleven classes in marine engineering, totaling 325 men, all of whom were men of experience in some branch of engineering. Prof. Huntley took these men in charge and under "intensive" training, for a period of four weeks, for each division, the men produced the goods. Again, from the "beginning of days" at A. I. T. we have always found some of the boys who were so-called "wireless-fiends". The A. I. T. honor roll contains the names of some fifteen of these "fiends" who are now buzzing "Liberty or Death" from headquarters to trench and mast to mast. An evening class of 175 was organized in December under government supervision, for the men included in the draft. Prof. Wilcox took charge of this work, and with the efficient help of two of our boys, Messrs. Shotwell and Mehrhoff who have long since passed from the stage of amateurism in this science, the men acquired sufficient training to give each a running start when the training camp was reached. "Shotty's" work received such approval from Uncle Sam, that today he is teaching radio telegraphy at Harvard as a C. P. O. of the Navy.

A survey of the honor roll incomplete though it must be, indicates 2 "A" men serving as Majors, sixteen Captains, 32 First Lieutenants, forty-seven Second Lieutenants, seventeen Sergeants, eight Corporals, one hundred-twenty-five Privates, while thirty-one are helping guard the stars and stripes on the water. Since "Armour" is found in almost everything really worth while, it is not surprising to note that twenty-four of our boys are giving their services in the various shipbuilding yards throughout the east, and we feel safe in saying that the Institute Faculty felt justly proud in sharing the commendation of Mr. Roberts in explaining the splendid showing of our boys at Quincy, Mass. last summer.

Then last but not least, we find one line of "soldier-boys" at school whose present task consists of reporting to Washington once a month by mail, and maintaining a creditable scholastic standing. Here we refer to the engineer reserves. These men are expected to stay at school until graduation whereupon they become subject to call in the engineering corps of the army.

The several activities of a military nature have been briefly summarized, saying nothing of countless minor affairs which every loyal citizen of U. S. gladly encounters every day. As we extend every good wish, and sincerest regard for the welfare of every true American heart, devotedly consecrated to a noble cause, we are assured that, as the time of testing comes to each individual, our boys may be "weighed in the balance" and not found "wanting".

Trying to become an Engineer Officer in three months is a large contract for a civilian. The Civilian (you see I now write from the detached view-point of an army-man) is more or less his own master, but from the minute he strikes the enrolling officer, he is assumed to know all of the many Army Regulations and to be governed accordingly.

After going through considerable trouble in being examined physically due principally to having my first examination papers lost, I reported to the proper officer at Fort Sheridan and was assigned to the Illinois Engineer Company, but after about a week's stay here I was transferred to the Wisconsin-Michigan Company, where I found about 15 Armour Men, among others Earl Smith, S. Miller and later at Fort Leavenworth I ran across Prof. Gilbert in the Signal Corps.

We were at Fort Sheridan for five weeks training as Infantry, as it seems that the Engineer Troops are considered to be able to do anything from the repair of roads, bridges etc., in an advance, to the destruction of all that will give aid to the enemy in the case of a retirement, and, when there is nothing else to do, why go right into the trenches and help out the Infantry. It was, from these many duties and from the talks of our officers, that we soon became known as the Suicide Club. Right at the start those of us who had been out of college for some time began having our troubles. Unaccustomed to regular study and to regular hours, we started in on a regular routine beginning at 5:15 A.M. and lasting up to 10:00 P.M. Most of what we had was hard to understand, and, try as we would it was impossible to read all of it even once, and the meaning only began to become even partially clear to most of us weeks after we were supposed to be masters of the Military Art.

The work was good for us, tho unaccustomed to the marching drills, and conferences as we usually turned our study period into a series of combinations such as Earl Smith and I formed, whereby each was to see that the other was awake when the check of the barracks during study hour was made. The regular work was good for all of us and we throve amazingly. The most remarkable fact was the regularity with which we would appear on the steps of the mess hall at meals. It might be hard to get to formations on time, but meals never.

Five weeks after entering Fort Sheridan we left for Fort Leavenworth to gain our Engineer experience. This trip was long and uncomfortable as we left Chicago a cool country and struck Kansas with its temperature of 100 degrees.

At Fort Leavenworth we absorbed Kansas dust, heat and Military Engineering. We learned to dig trenches, repair and destroy bridges, make military topographical maps, solve tactical problems and in fact try to learn all the many special engineering problems as they applied to the needs of an army.

After eight weeks of Kansas summer, the Training Camp came to an end and Commissions and assignments were handed out. Many (about 25%) of the original Company had been dropped for various reasons but the Armour men all stuck to the last. About one-third of the company were ordered to Camp Custer to be with the Engineer Regiment of the National Army Division at that camp, and the balance of us were variously assigned to Regular Army Regiments

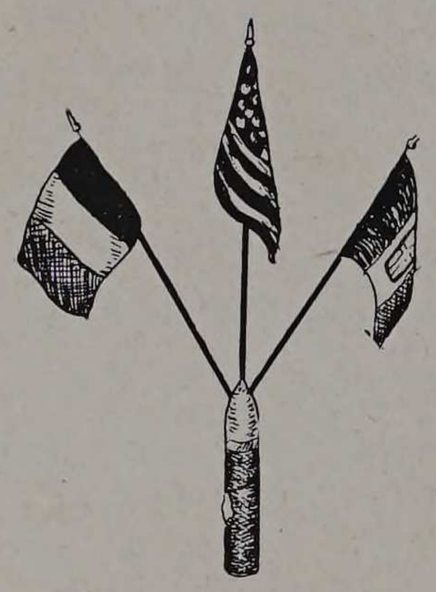
in this country, the Phillipines and Hawaii and the others were given detached duty at various places in this country and with the Expeditionary Forces.

It fell to my lot to be sent to Hoboken, N. J., for work on the Staff of the Engineer Depot Officer. It is impossible on account of orders against giving military information to tell of the work here except the very general fact that it deals with the receiving, storing and shipping of all sorts of engineer supplies such as are found necessary to meet the needs of a modern warfare. My first work was in connection with one of the depots and then I was transferred to headquarters where I am now handling such Civilian Employees of the Engineer Corps as are passing through.

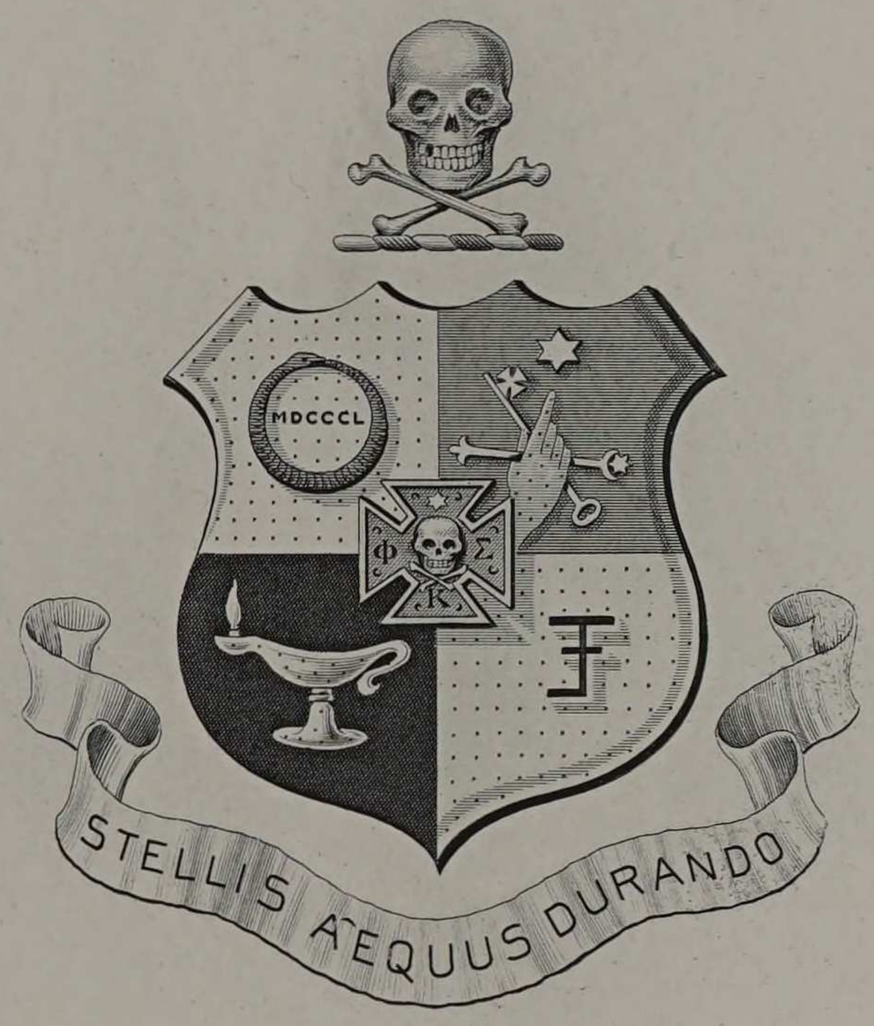
It needs only a glance at the vast quantity of supplies which are going forward for the Engineers alone, to realize that something serious is going on, and we of the Engineers think that it is being done efficiently.

As a last word, I must say that the Armour men at the Training Camp, stood well in the final assignments. I believe that they drew more of the important assignments than their mere numbers would warrant.

A. L. Ladd
Captain, Engineers, R. C.



# Fraternities




*Dreka, Phila.*
*Design Patent applied for*

# Phi Kappa Sigma

## CHAPTER ROLL

*Alpha 1850* . . . . . University of Pennsylvania
*Delta 1854* . . . . . Washington and Jefferson
*Epsilon 1854* . . . . . Dickinson College
*Zeta 1854* . . . . . Franklin and Marshall College
*Eta 1854* . . . . . University of Virginia
*Mu 1858* . . . . . Tulane University
*Rho 1892* . . . . . University of Illinois
*Tau 1872* . . . . . Randolph–Macon College
*Upsilon 1872* . . . . . Northwestern University
*Phi 1873* . . . . . Richmond College
*Psi 1891* . . . . . Pennsylvania State College
*Alpha-Alpha 1872* . . . . . Washington and Lee University
*Alpha Gamma 1896* . . . . . University of West Virginia
*Alpha Delta 1898* . . . . . University of Maine
*Alpha Epsilon 1898* . . . . . Armour Institute of Technology
*Alpha Zeta 1899* . . . . . University of Maryland
*Alpha Eta 1901* . . . . . College of Charleston
*Alpha Theta 1901* . . . . . University of Wisconsin
*Alpha Iota 1902* . . . . . Vanderbilt University
*Alpha Kappa 1903* . . . . . University of Alabama
*Alpha Lambda 1903* . . . . . University of California
*Alpha Mu 1903* . . . . Massachusetts Institute of Technology
*Alpha Nu 1904* . . . . . Georgia School of Technology
*Alpha Xi 1905* . . . . . Purdue University
*Alpha Omicron 1905* . . . . . University of Chicago
*Alpha Pi 1906* . . . . . Cornell University
*Alpha Rho 1911* . . . . . Cornell University
*Alpha Sigma 1915* . . . . . University of Minnesota
*Alpha Tau 1915* . . . . . Leland Stanford, Jr. University

# Phi Kappa Sigma

## ALPHA EPSILON CHAPTER

*Chartered June 8th, 1898*

1920

G. L. Anning
L. E. Jones
E. M. Matson
F. P. McDonald
H. E. Sasse
R. Boose

1921

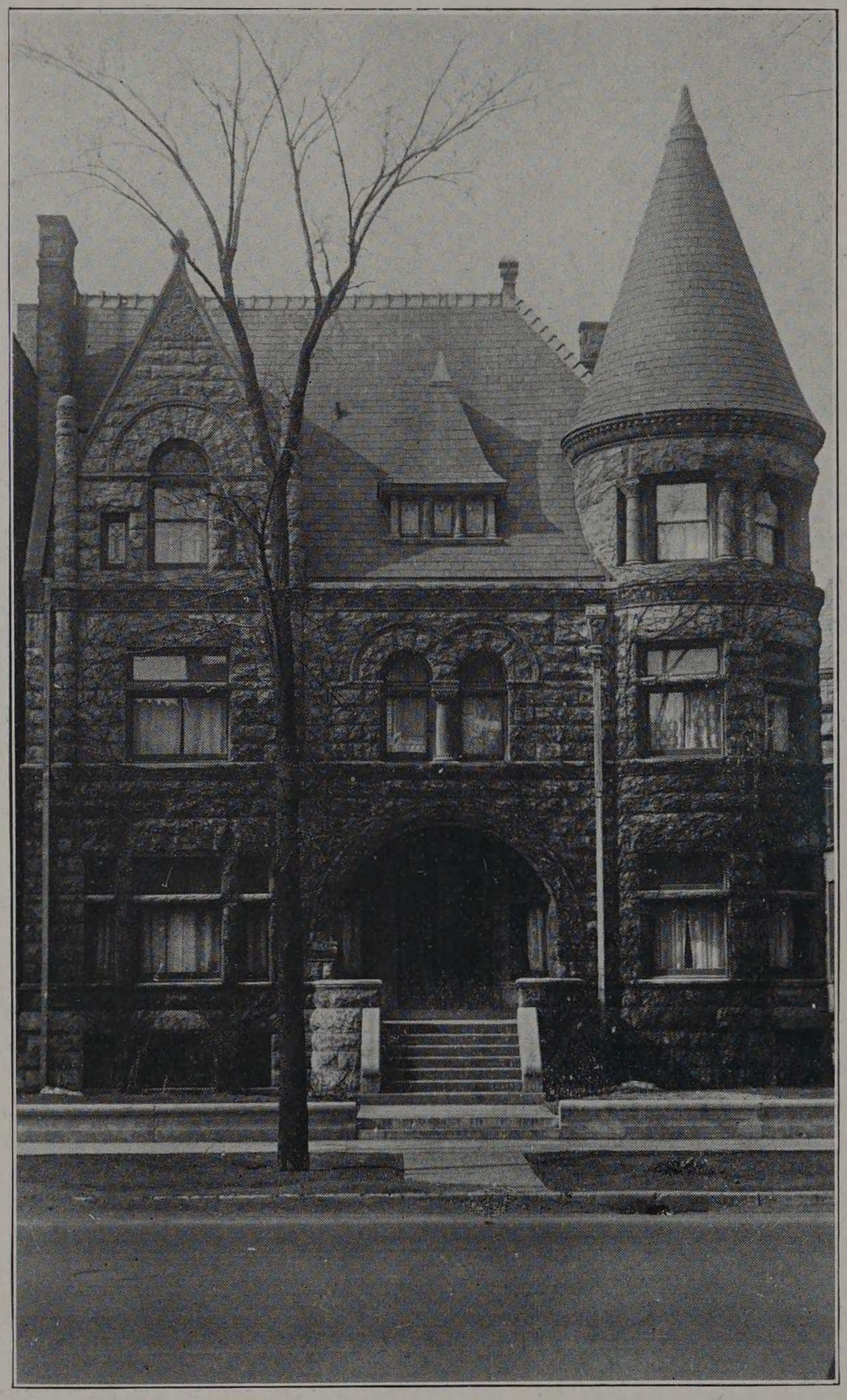
C. H. Bochman
G. W. Stege
J. Lawrence
E. W. Geisler
W. Zingheim
L. P. Smith
E. A. Polzin
E. R. Felber
R. Hadgraft

*Pledge*

A. R. Falk

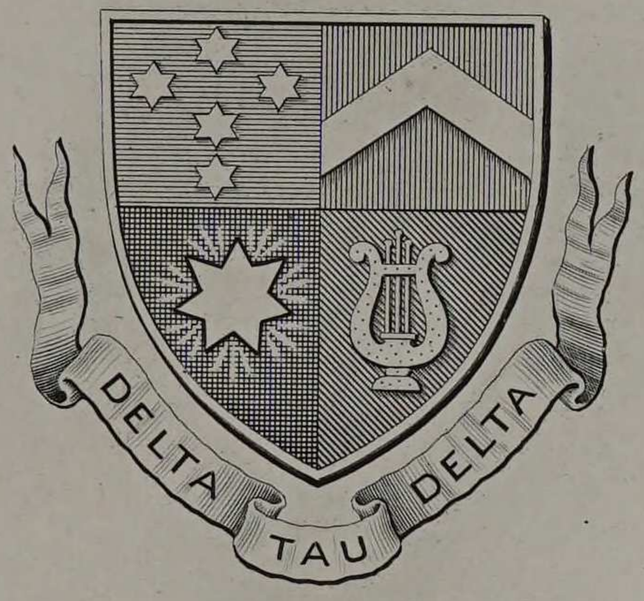


Top Row—Bockmann, Boos, Zingheim, Geisler, Polzin.
Middle Row—Smith, Matson, Anning, Sherwood, Jones.
Bottom Row—Felber, Stege, Sasse, McDonald, Hadgraft.



PHI KAPPA SIGMA HOUSE






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1908

Dreka, Phila.

# Delta Tau Delta

FOUNDED AT BETHANY COLLEGE IN 1859

*CHAPTERS*

## SOUTHERN DIVISION

VANDERBILT UNIVERSITY
WASHINGTON AND LEE UNIVERSITY
UNIVERSITY OF GEORGIA
EMORY COLLEGE
UNIVERSITY OF THE SOUTH
UNIVERSITY OF VIRGINIA
TULANE UNIVERSITY
GEORGE WASHINGTON UNIVERSITY
UNIVERSITY OF TEXAS

## WESTERN DIVISION

UNIVERSITY OF IOWA
UNIVERSITY OF WISCONSIN
UNIVERSITY OF MINNESOTA
UNIVERSITY OF COLORADO
NORTHWESTERN UNIVERSITY
LELAND STANFORD, JR. UNIVERSITY
UNIVERSITY OF NEBRASKA
UNIVERSITY OF ILLINOIS
UNIVERSITY OF CALIFORNIA
UNIVERSITY OF CHICAGO
ARMOUR INSTITUTE OF TECHNOLOGY
BAKER UNIVERSITY
UNIVERSITY OF MISSOURI
UNIVERSITY OF WASHINGTON
IOWA STATE COLLEGE
UNIVERSITY OF OREGON
UNIVERSITY OF KANSAS

## NORTHERN DIVISION

OHIO UNIVERSITY
UNIVERSITY OF MICHIGAN
ALBION COLLEGE
WESTERN RESERVE UNIVERSITY
HILLSDALE COLLEGE
OHIO WESLEYAN UNIVERSITY
KENYON COLLEGE
INDIANA UNIVERSITY
DE PAUW UNIVERSITY
BUTLER COLLEGE
OHIO STATE UNIVERSITY
WABASH COLLEGE
WEST VIRGINIA UNIVERSITY
PURDUE UNIVERSITY
UNIVERSITY OF CINCINNATI
MIAMI UNIVERSITY

## EASTERN DIVISION

ALLEGHENY COLLEGE
WASHINGTON AND JEFFERSON COLLEGE
LAFAYETTE COLLEGE
STEVENS INSTITUTE OF TECHNOLOGY
PENN STATE COLLEGE
RENSSELAER POLYTECHNIC INSTITUTE
UNIVERSITY OF PENNSYLVANIA
LEHIGH UNIVERSITY
TUFTS COLLEGE
MASSACHUSETTS INSTITUTE OF TECH.
CORNELL UNIVERSITY
BROWN UNIVERSITY
DARTMOUTH COLLEGE
COLUMBIA UNIVERSITY
UNIVERSITY OF MAINE
SYRACUSE UNIVERSITY
UNIVERSITY OF PITTSBURGH
WESLEYAN UNIVERSITY

# Delta Tau Delta

## GAMMA BETA CHAPTER

*Chartered May 10th, 1901*

*Juniors*

JOHN EDWARDS ALEXANDER
WALTER ELWOOD MEAD
JOHN BORDEN WILBOR

*Sophomores*

WOODBRIDGE BISSELL
WILLIAM NOLING ERICKSON
ALFRED WILLIAM FOLEY
ALFRED TINSLEY WENNER

*Freshmen*

JAMES CARDWELL CARSON
ANSON BONDY GRONBERG
HERMAN RICHARD HUTH
WILLIAM KIMBALL LYON, JR.
EMIL WILLIAM PFAFFLIN
JAMES CYRIL SHORT
CHARLES TAYLOR WALTER
HAROLD LOUIS WOODS

*Pledged*

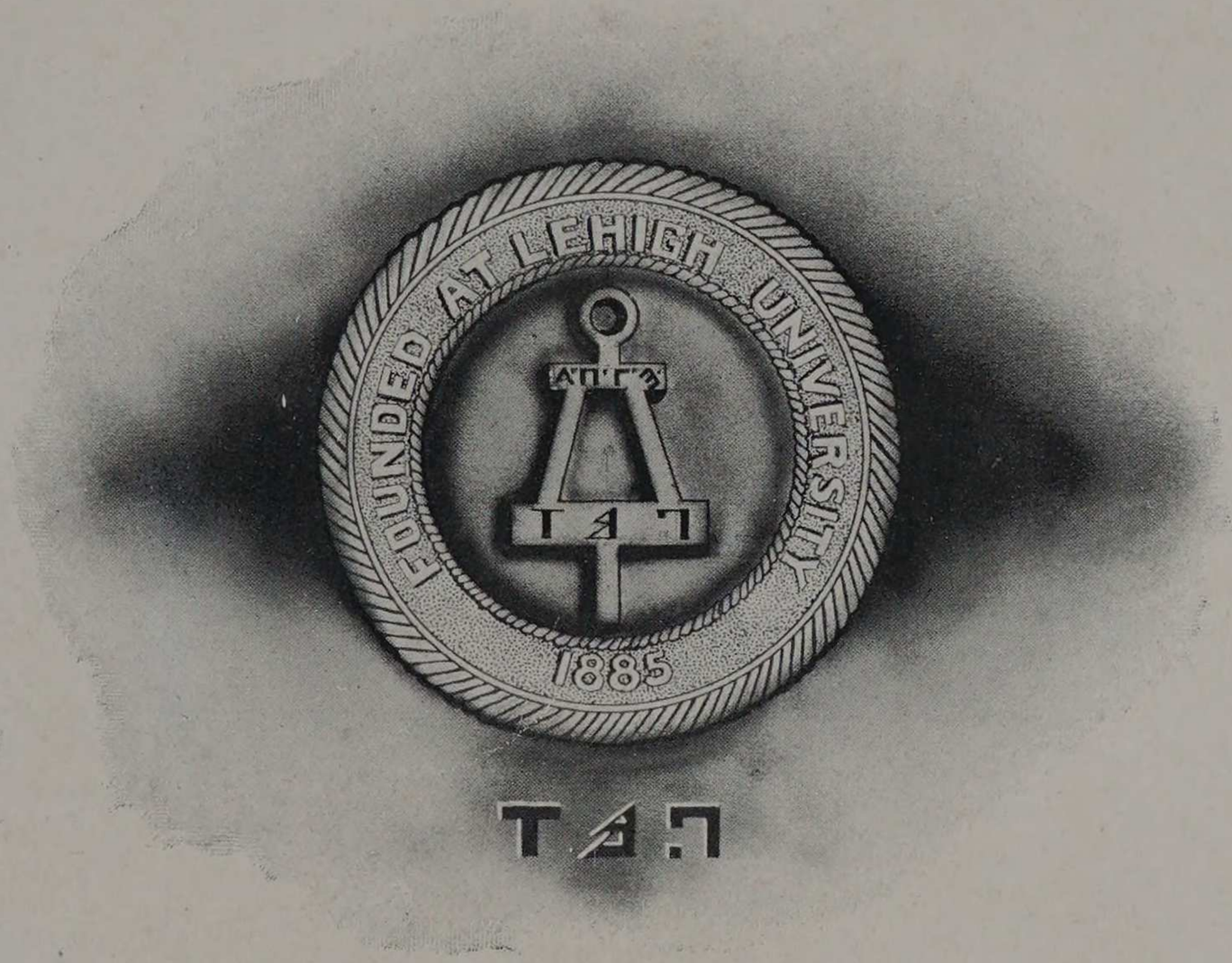
EMIL FRANK WINTER



Top Row—Wilbor, Pfafflin, Erickson, Woods.
Middle Row—Lyons, Wenner, Bissell, Carson, Short.
Bottom Row—Foley, Mead, Wynne, Walter.



Delta Tau Delta House


FOUNDED AT LEHIGH UNIVERSITY
1885

# Tau Beta Pi

## BETA CHAPTER OF ILLINOIS

*Chartered April 6th, 1906*

*Faculty Members*

E. H. Freeman, Armour, '02
P. C. Huntly, Arkansas, '10
W. H. Lautz, Armour, '13
C. W. Leigh, Illinois, '87
E. S. Libby, Armour, '02
D. P. Moreton, Armour, '06
M. B. Wells, Purdue, '94
H. L. Nachman, Armour, '02
J. C. Peebles, Armour, '04
J. C. Penn, Armour, '05
R. V. Perry, Armour, '97
J. V. Richards, Illinois, '10
Daniel Roesch, Armour, '04
K. H. Read, Lehigh, '15

*Honorary*

H. M. Raymond, Dean of the Engineering Studies
A. E. Phillips, Professor of Civil Engineering
G. F. Gebhardt, Professor of Mechanical Engineering
Harry McCormack, Professor of Chemical Engineering

1918

D. E. Cable
E. R. Cole
F. S. Cowles
S. L. Evans
N. L. Huffaker
A. A. Hofgren
F. R. Johnson
F. E. Marx
E. A. Moore
J. Nitka
H. A. Peterson
E. F. Quinn
K. M. Sabiston
H. H. Shotwell
K. A. Taylor
W. C. Wright

1919

D. S. Chase
R. O. Joslyn
Wm. Mendius
C. W. Muehlberger
H. F. Rehfeldt
F. A. Trask



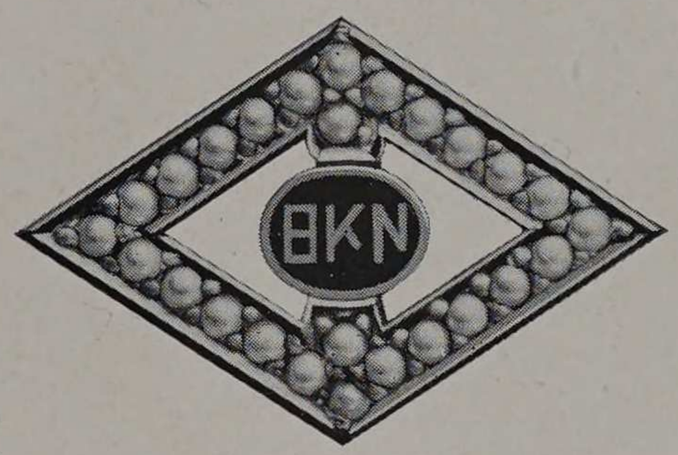
Top Row—Evans, Taylor, Hofgren, Johnson, Marx,
Middle Row—Cable, Perry, Penn, Paul, Read.
Bottom Row—Shotwell, Nitka, Cole, Wright.

# Tau Beta Pi

## *CHAPTER ROLL*

FOUNDED AT LEHIGH UNIVERSITY IN 1885

| | |
|---|---|
| *Lehigh University 1885* | ALPHA OF PENNSYLVANIA |
| *Michigan Agricultural College 1892* | ALPHA OF MICHIGAN |
| *Purdue University 1893* | ALPHA OF INDIANA |
| *Stevens Institute of Technology 1896* | ALPHA OF NEW JERSEY |
| *University of Illinois 1897* | ALPHA OF ILLINOIS |
| *University of Wisconsin 1899* | ALPHA OF WISCONSIN |
| *Case School of Applied Science 1900* | ALPHA OF OHIO |
| *University of Kentucky 1902* | ALPHA OF KENTUCKY |
| *Columbia University 1902* | ALPHA OF NEW YORK |
| *University of Missouri 1902* | ALPHA OF MISSOURI |
| *Michigan College of Mines 1904* | BETA OF MICHIGAN |
| *Colorado School of Mines 1905* | ALPHA OF COLORADO |
| *University of Colorado 1905* | BETA OF COLORADO |
| *Armour Institute of Technology 1906* | BETA OF ILLINOIS |
| *Syracuse University 1906* | BETA OF NEW YORK |
| *University of Michigan 1906* | GAMMA OF MICHIGAN |
| *Missouri School of Mines 1906* | BETA OF MISSOURI |
| *University of California 1906* | ALPHA OF CALIFORNIA |
| *Iowa State College 1907* | ALPHA OF IOWA |
| *University of Iowa 1908* | BETA OF IOWA |
| *University of Minnesota 1909* | ALPHA OF MINNESOTA |
| *Cornell University 1910* | DELTA OF NEW YORK |
| *Worchester Polytechnic Institute 1910* | ALPHA OF MASSACHUSETTS |
| *University of Maine 1911* | ALPHA OF MAINE |
| *Pennsylvania State College 1912* | BETA OF PENNSYLVANIA |
| *University of Washington 1912* | ALPHA OF WASHINGTON |
| *University of Arkansas 1914* | ALPHA OF ARKANSAS |
| *University of Kansas 1914* | ALPHA OF KANSAS |
| *University of Cincinnati 1915* | BETA OF OHIO |
| *Carnegie Institute of Technology 1916* | GAMMA OF PENNSYLVANIA |


ΦKN

# Eta Kappa Nu

*Honorary Electrical*

DELTA CHAPTER

*Chartered 1909*

*Faculty*

PROFESSOR J. J. GILBERT
PROFESSOR G. E. MARSH

1918

R. A. ERICKSON
A. A. HOFGREN
O. M. HULLINGER
H. H. SHOTWELL
F. B. VODGES
J. J. HUNT
V. E. HUPP
J. NITKA
C. SENESCALL
L. WEISS

1919

R. O. JOSLYN
A. S. LIU
R. H. RENSCH
E. SCHEUER
A. SUGARMAN
M. VEREMIS



Top Row—Joslyn, Hullinger, Hofgren,
Middle Row—Vogdes, Nitka, Senescall, Erickson, Hupp.
Bottom Row—Scheuer, Shotwell, Weiss, Hunt.

# Eta Kappa Nu

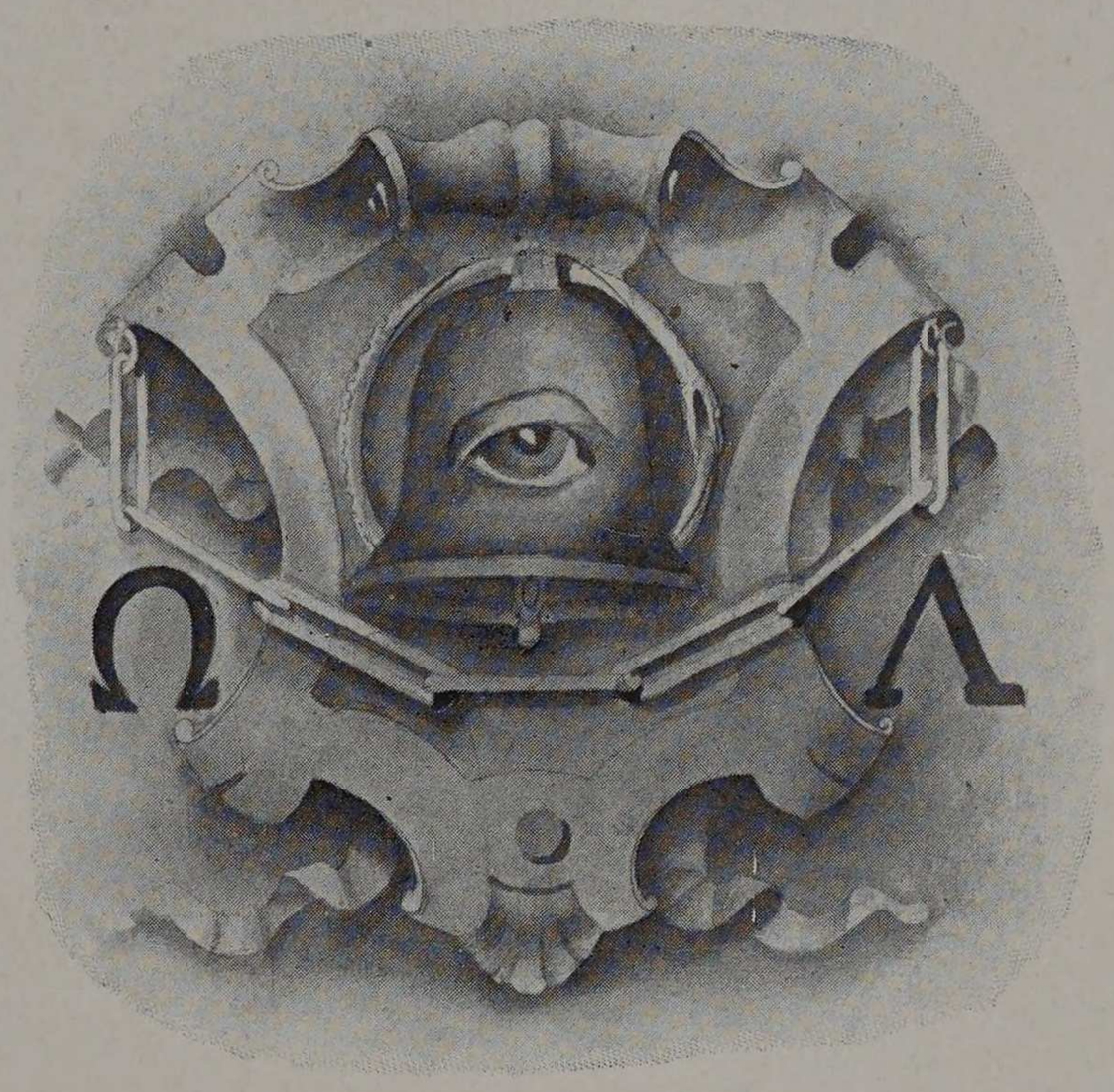
*HONORARY ELECTRICAL*

FOUNDED AT THE UNIVERSITY OF ILLINOIS, 1904

*CHAPTER ROLL*

*Alpha* . . . . . University of Illinois, Urbana, Ill.
*Beta* . . . . . Purdue University, Lafayette, Ind.
*Gamma* . . . . . Ohio State University, Columbus, Ohio
*Delta* . . . . . Armour Institute of Technology, Chicago, Ill.
*Epsilon* . . . . . Pennsylvania State College, State College, Pa.
*Zeta* . . . . . Case School of Applied Science, Cleveland, Ohio
*Theta* . . . . . University of Wisconsin, Madison, Wis.
*Iota* . . . . . University of Missouri, Columbus, Mo.
*Kappa* . . . . . Cornell University, Ithaca, New York
*Lambda* . . . . . University of Pennsylvania, Philadelphia, Pa.
*Mu* . . . . . University of California, Berkeley, Cal.

Pittsburgh Alumni Chapter, Pittsburgh, Pa.
Chicago Alumni Chapter, Chicago, Ill.
New York Alumni Chapter, New York, N. Y.
Schenectady Alumni Chapter, Schenectady, N. Y.
Milwaukee Alumni Chapter, Milwaukee, Wis.
St. Louis Alumni Chapter, St. Louis, Mo.


Ω
Λ

# Omega Lambda

LOCAL

*Organized October 21, 1908*

*Faculty*

ROBERT V. PERRY, Armour, '97
JOHN C. PENN, Armour, '05

1918

HAROLD H. SHOTWELL
STANLEY L. EVANS
RICHARD N. MANN
ORA M. HULLINGER
VERNON E. HUPP
RAYMOND A. ERICKSON
EVERETT R. COLE
FRED E. MARX
AXEL A. HOFGREN
RALPH H. RUSK
CLYDE SENESCALL

1919

ALFRED E. MAITRE
EINAR L. NIELSEN
CLARENCE B. CLARK
RAYMOND O. JOSLYN
MARION E. SHAW

1920

MYNHART E. BRUECKNER
F. CLAIRE HINCKLEY
WILLIAM J. CHAPIN
PROBY C. GREY
EDWARD BRONS

1921

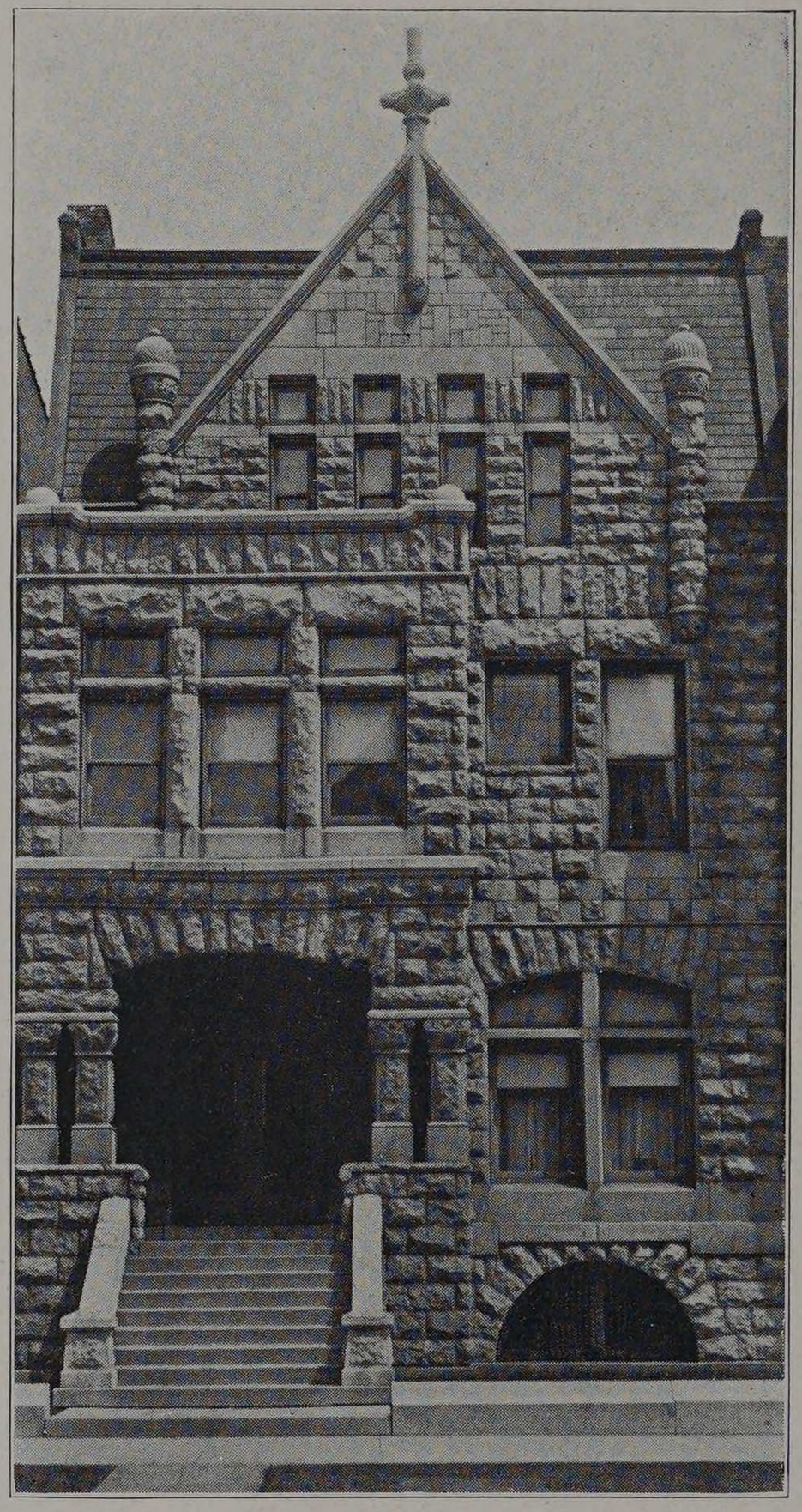
WILLIAM C. BELL
GEORGE W. PETERSON
GEORGE E. SCHINDLER
JOHN B. THOMPSON
SHELDON H. WEBSTER
EUGENE A. WILSON

*Pledges*

FLETCHER E. HAYDEN
ERWIN H. SOMMER
VINCENT D. SHEARIN
FRED. A. ANDERSON
ALEXANDER R. MEHRHOF



Top Row.—Shotwell, Webster, Hofgren, Hullinger, Mann, Schindler, Brons, Peterson, Cole.
Middle Row—Hayden, Maitre, Wilson, Rusk, Erickson, Hupp, Nielson, Marx.
Bottom Row—Hinkley, Bell, Mehrhof, Sommer, Shaw, Joslyn, Brueckner.



Omega Lambda House


SIGMA KAPPA DELTA

# Sigma Kappa Delta

## ALPHA CHAPTER

*Organized Sept. 20, 1912*

*Faculty Members*

JAMES C. PEEBLES, Armour, '04 WILLIAM G. SMITH, Cornell, '92

1918

HERBERT PUSCHEL JOHN L. BROYLES

1919

ALBERT R. THROOP DANIEL C. BERG
JACOB A. KEETH WILLIAM J. MCCORMACK
MARION F. BACON HOWARD S. MUESSE
ARTHUR N. GAIL ARMOND RAPHAEL MONOCO
EDWIN H. ARNOLD HARRY F. GELDMIER

1920

ROBERT SAMUEL ILLG ELLIS COOK

1921

THOMAS MICHELS ROBERT VAN VALZAH

*Pledged*

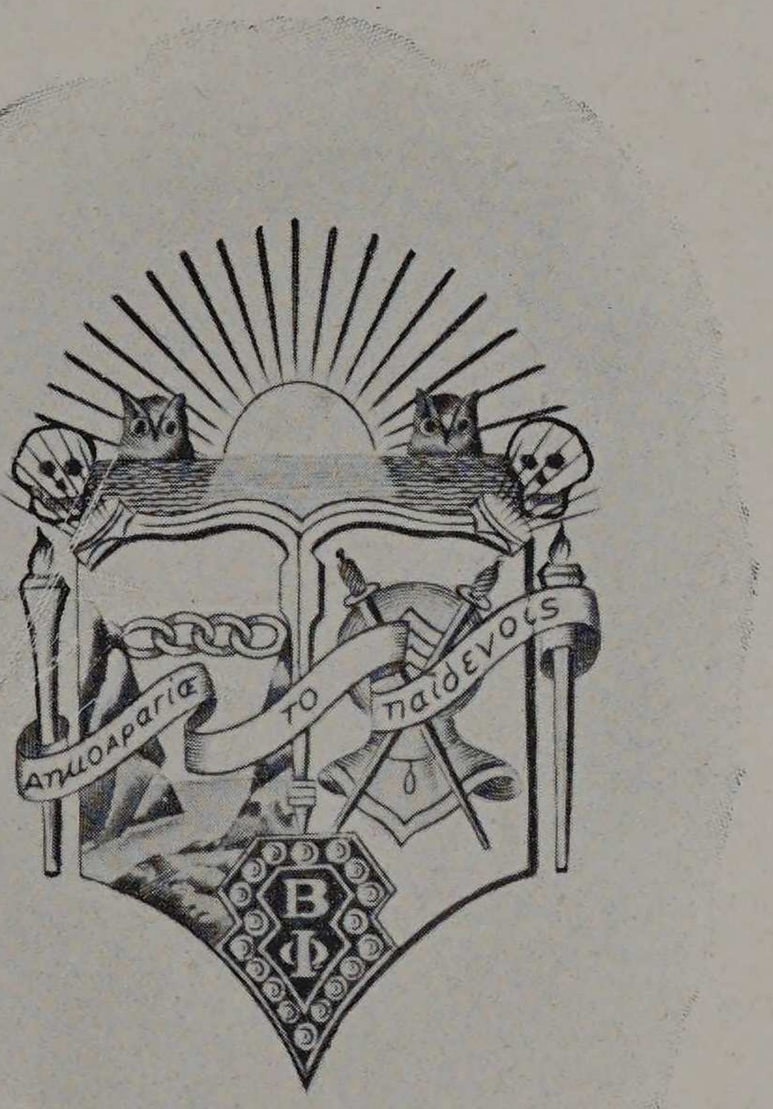
FREDERIC A. TRASK FRANCIS P. SHEA
VICTOR M. CROWN JOHN PAUL HILLS
EVERETT V. WELCH CLARENCE W. MUEHLBERGER
ALEXANDER B. GREENLEAF



Top Row—Michels, Keith, McCormack, Cook, Arnold.
Middle Row—Monaco, Gale, Puschel, Bacon, Muesse, Broyles.
Bottom Row—Throop, Trask, Muehlberger, Crown, Van Valzah.



Sigma Kappa Delta House


ΑΠΛΟΑΡΙΑΙΑ ΤΟ ΠΑΙΔΕΥΟΙΣ
B
Φ

# Beta Phi

FOUNDED AT THE UNIVERSITY OF CHICAGO 1911

## *CHAPTER ROLL*

| | |
|---|---|
| *Alpha* | UNIVERSITY OF CHICAGO |
| *Beta* | NORTHWESTERN UNIVERSITY |
| *Gamma* | ARMOUR INSTITUTE OF TECHNOLOGY |
| *Delta* | UNIVERSITY OF ILLINOIS |
| *Epsilon* | UNIVERSITY OF IOWA |
| *Zeta* | UNIVERSITY OF MICHIGAN |
| *Eta* | DEPAUW UNIVERSITY |
| *Theta* | ROSE POLYTECHNICAL INSTITUTE |

## GAMMA CHAPTER

*Chartered March 1913*

*Faculty*

H. L. NACHMAN, Armour, '03 DANIEL ROESCH, Armour, '04

1918

GUY L. ANDRE
VOLNEY A. KERR
WALTER W. KOEHLER
LOUIS E. TWERY
FRANCIS B. VOGDES
LESLIE WEISS

1919

HAROLD T. CLAUSEN
CHESTER C. DANFORTH
ALLEN E. ERICKSON
CARL L. GOLD
WILLIAM MENDIUS
HUBERT F. REHFELDT

1920

JOSEPH BIDWELL
LEONARD L. GORDENIER
ALBERT C. GRABENDIKE
HARRY KIHLSTROM
RAYMOND MALWITZ
WILLIAM T. MCCAULEY
ELMER SCHARF
ALBERT H. THOMPSON
EMIL VOGT

1921

ROBERT E. R. BROAD
GEORGE L. CONNER
RICHARD J. GRANT
ROBERT ALLEN ISAACS
MAXWELL F. MAY
LOUIS C. SCOTFORD
ROY M. SINGER

*Pledged*

JAMES IRA BREADY
LEO F. BUNDE
HARRY E. CURTIS
HALE LITTLE
ERWIN I. ROSENTHAL



Top Row—Grant, Erickson, Kerr, May, Scotford, McCauley, Malwitz.
Middle Row—Rehfeldt, Mendius, Vogdes, Weiss, Nachman, Gold, Taylor, Clausen.
Bottom Row—Singer, Bunde, Scharf, Isaacs, Koehler, Kihlstrom, Vogt.




SCARAB

# Scarab

HONORARY ARCHITECTURAL

FOUNDED AT THE UNIVERSITY OF ILLINOIS, 1909

## TEMPLE ROLL

| | |
|---|---|
| *Karnak* | UNIVERSITY OF ILLINOIS |
| *Edfou* | ARMOUR INSTITUTE OF TECHNOLOGY |
| *Ipsimboule* | WASHINGTON UNIVERSITY |
| *Thebes* | PENNSYLVANIA STATE UNIVERSITY |

## *EDFOU TEMPLE*

*Chartered 1915*

*Honorary*

LOUIS H. SULLIVAN

*Faculty*

EARL H. REED, JR.

1918

S. C. HULBURT
A. R. MONACO
W. C. WRIGHT

1919

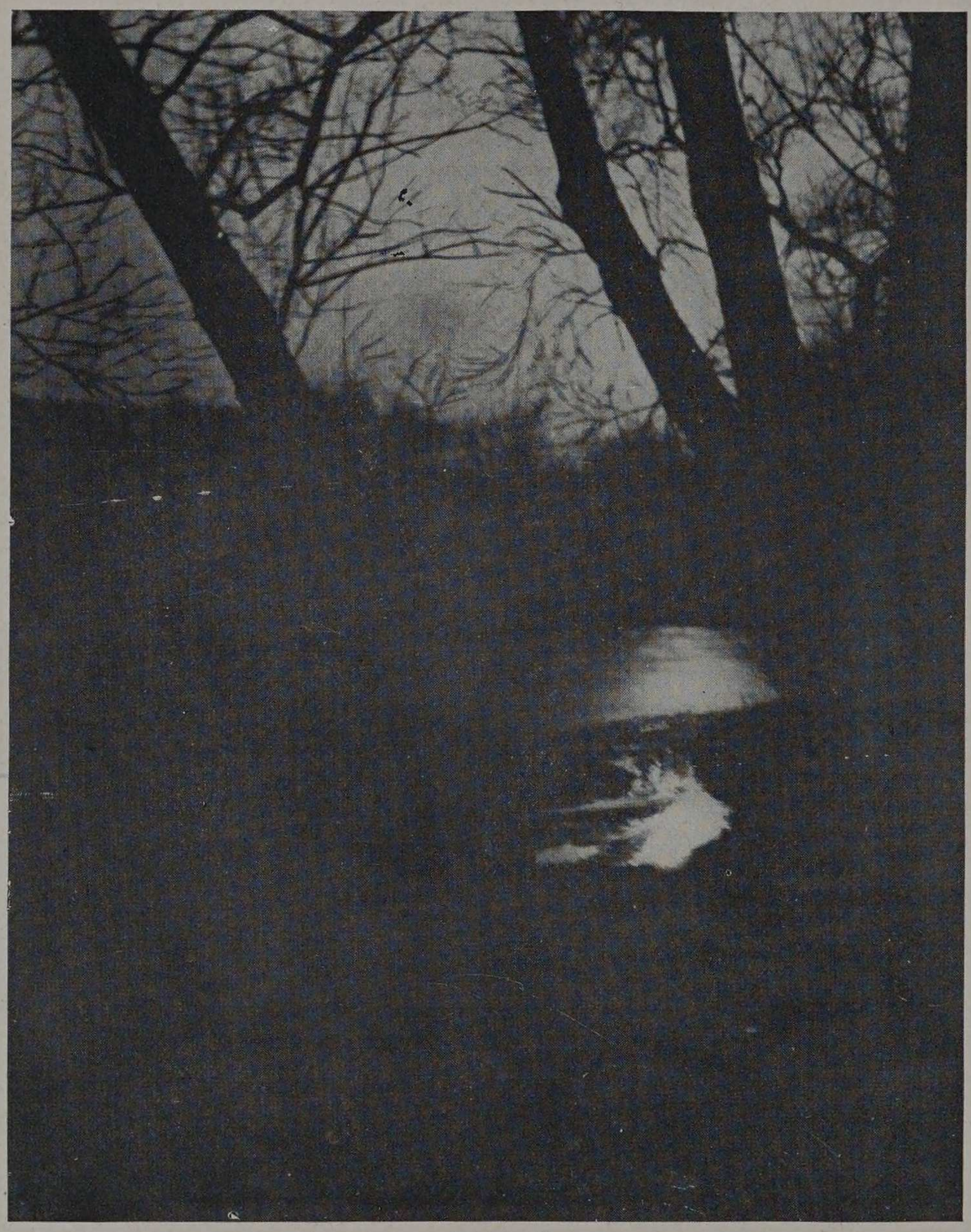
A. B. GREENLEAF
W. J. MCCORMACK
H. S. MUESSE

1920

L. K. CARDWELL
F. C. HINCKLEY
J. A. KARLSON
W. J. O'CONNOR



Top Row—Cardwell, McEldowney, O'Connor, Karlson, McCormack, Hinkley.
Bottom Row—Greenleaf, Hulbert, Wright, Muesse, Monaco.




A I T

# Sphinx

OFFICERS

LESLIE WEISS . . . . . *President*

HERBERT W. PUSCHEL . . . . *Secretary-Treasurer*

*Faculty Member*

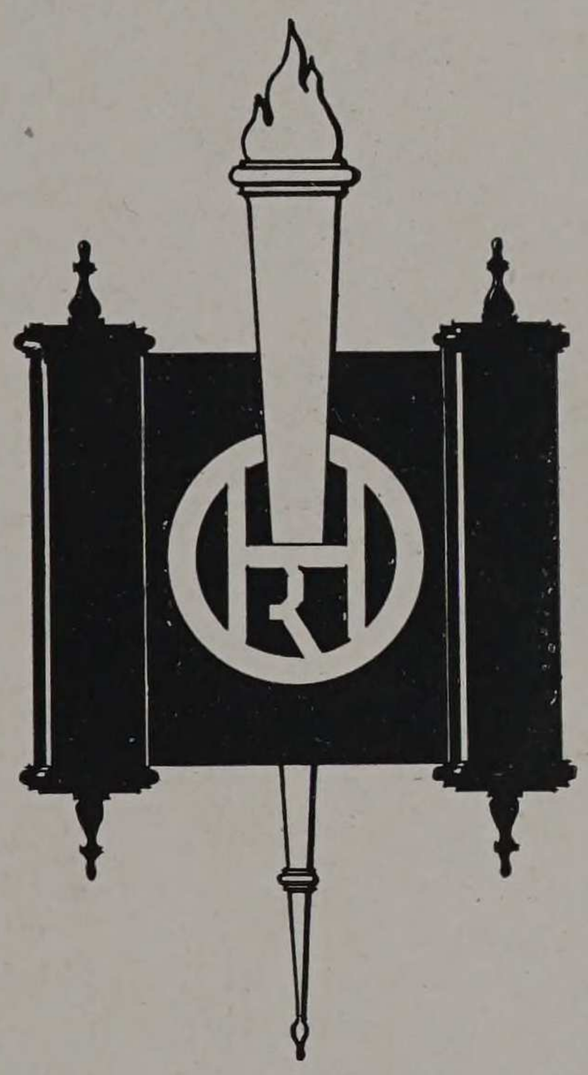
DEAN L. C. MONIN

*Members in College*

HERBERT W. PUSCHEL
K. A. TAYLOR
LESLIE WEISS
H. H. SHOTWELL
WILLIAM MENDIUS
ROBERT H. RENSCH
R. O. JOSLYN
J. A. KEETH
W. C. WRIGHT







# The Ohr

*Organized November 16, 1914*

1918

HARRY GLUBE

1919

ALEXANDER S. LA ZORIS
RUEBEN S. WEINSCHENKER
HARRY K. WERTHEIMER

1920

MAURICE M. JACKSON
ROY N. SPITZER

1921

SIDNEY W. GROSSMAN
NORMAN J. SCHLOSSMAN
IRVING J. LOEBL
ISADORE SCHURMAN
ALBERT F. SPITZGLASS



Top Row: Loebl, Schlossman, Spitzer Middle Row: Wertheimer, Glube, LaZoris, Weinschenker
Bottom Row: Spitzglass, Grossman, Schurman

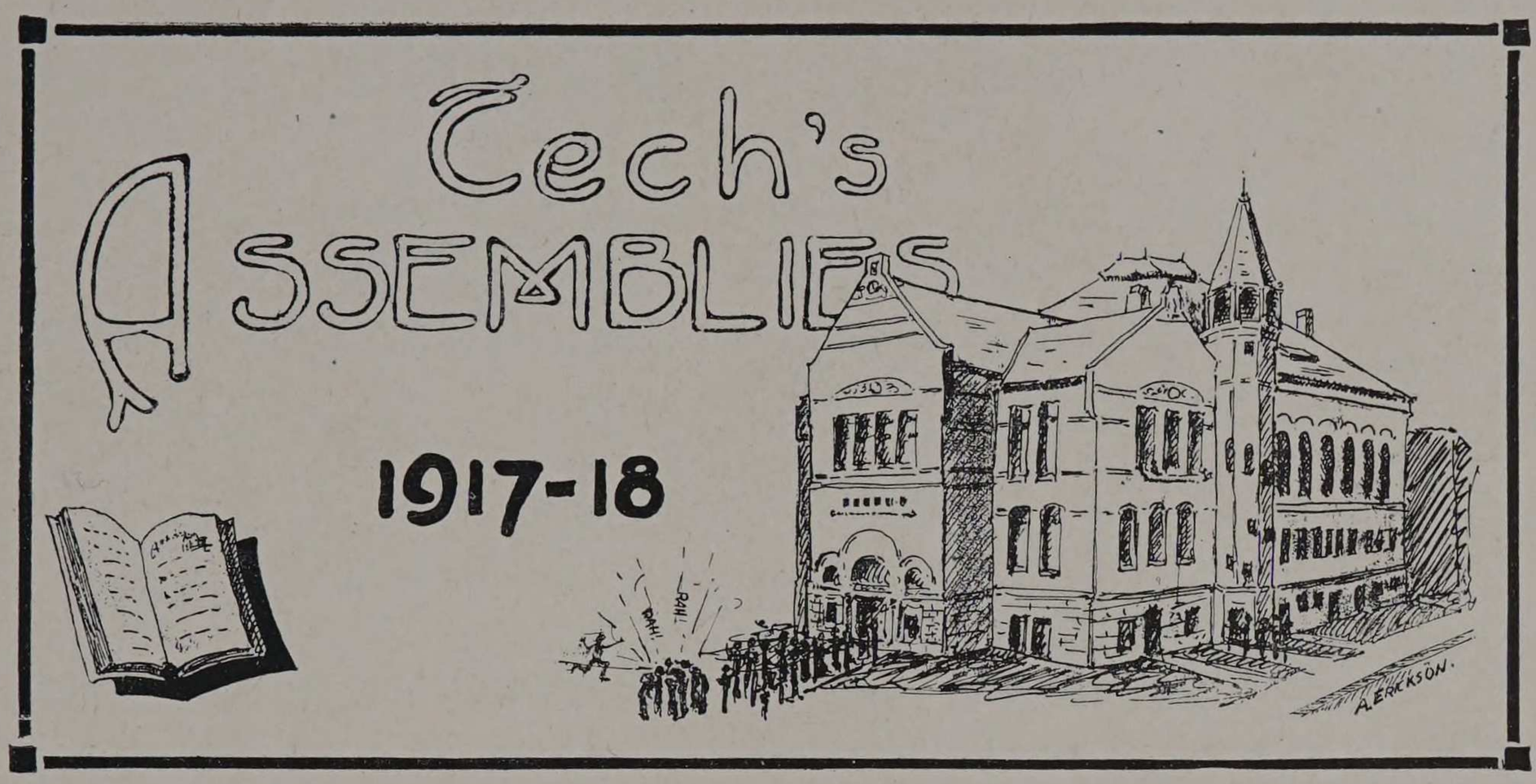
# Institute Calendar

1917

| | | |
|---|---|---|
| June 7 | Thursday . . . | Entrance Examinations. |
| June 25 | Monday . . . . | Summer Session Begins. |
| August 3 | Friday . . . . | Summer Sessions Ends. |
| September 6 | Thursday . . . | Entrance Examinations. |
| September 10 | Monday . . . . | First Semester of the College Year 1917-1918 Begins; Registration Day. |
| October 1 | Monday . . . . | Evening Classes (First Term) Begin. |
| Nov. 29 and 30 | Thursday and Friday . | Thanksgiving Holidays. |
| December 7 | Friday . . . . | Evening Classes (First Term) End. |
| December 10 | Monday . . . . | Evening Classes (Second Term) Begin. |
| Dec. 24 1917, to January 5, 1918 | inclusive . . . . | Midwinter Recess. |

1918

| | | |
|---|---|---|
| January 26 | Saturday. . . . | First Semester Ends. |
| January 28 | Monday . . . . | Second Semester Begins. |
| February 12 | Tuesday . . . . | Lincoln's Birthday, a Holiday. |
| February 22 | Friday . . . . | Washington's Birthday, a Holiday. |
| March 1 | Friday . . . . | Evening Classes (Second Term) End. |
| March 4 | Monday . . . . | Evening Classes (Third Term) Begins. |
| March 29 | Friday . . . . | Good Friday, a Holiday. |
| May 10 | Friday . . . . | Evening Classes (Third Term) End. |
| May 26 | Sunday . . . . | Baccalaureate Sermon. |
| May 29 | Wednesday . . . | Commencement Exercises. |
| June 1 | Saturday. . . . | Second Semester Ends. |
| June 6 | Thursday . . . | Entrance Examinations. |
| June 3 | Monday . . . . | Summer Session Begins. |
| July 12 | Friday . . . . | Summer Session Ends. |
| September 5 | Thursday . . . | Entrance Examinations. |
| September 9 | Monday . . . . | First Semester of the College Year 1918-1919 Begins; Registration Day. |




November 12, 1917.

War experiences of the Western Battle Front. Given by Capt. R. Hugh Knyvett, 15th Australian Infantry.

The United States Coast Guard. Talk given by Capt. Gardner, U. S. Coast Guard.

December 12, 1917.

Address by Lieut. Jaeger, U. S. Navy, on the Naval Reserves.
"Come to the Shipyards", by Mr. Roberts of the Four Rivers Ship Construction Company.

February 5, 1918.

Address on "War Savings Stamps", by Mr. Nolan. Very good music by the Jackie Band of the Great Lakes Naval Training Station.

# Junior Week Program

Due to the war the following changes in the Junior Week Program have been suggested.

Monday, May 6.—Quiz in Hydraulics. (A survival of the fittest). Tiddle-de-Winks in the afternoon for the survivers.

Tuesday, May 7.—Physics Quiz.
P.M.—Inter-class Marble Games.

Wednesday, May 8.—Rope and Thesis Jumping—by Seniors only.

Thursday, May 9.—A.M.—Faculty Croquette Match.
P.M.—Manicuring Contest by the Architects.

Friday, May 10.—Drop-the-Handkerchief. (Armour co-ed invited). Pussy in the Corner. Lotto, etc. for those who find the above too strenuous.

---


# THE ARMOUR ENGINEER

*A permanent and accessible record*
*of Armour achievements*

---

## Live Wires Belong to the

# Y. M. C. A.

## Are You a Live One?

# Armour
# Institute of Technology
# Chicago

Courses offered in

MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING,
CHEMICAL ENGINEERING, FIRE PROTECTION ENGINEERING,
CIVIL ENGINEERING, INDUSTRIAL ARTS,
AND ARCHITECTURE

These courses are each four years in length and lead to
the Degree of Bachelor of Science

COMPLETELY EQUIPPED SHOPS
AND LABORATORIES

The Institute Bulletins will be sent upon Application

# The Engineer

Who is the man designs our pumps with judgment, skill and care?
Who is the man that builds 'em and who keeps them in repair?
Who has to shut them down because the valve seats disappear?
The bearing-wearing, gearing-tearing mechanical engineer.

Who buys his juice for half a cent and wants to charge a dime?
Who when we've signed the contract can't deliver half the time?
Who thinks a loss of twenty-six per cent is nothing queer?
The volt-inducing, load-reducing electrical engineer.

Who is it takes a transmit out to find a sewer to tap?
Who then with care extreme locates the junction on the map?
Who is it goes to dig it up and finds it nowhere near?
The mud-bespattered, torn and tattered civil engineer.

Who thinks without his product we would all be in the lurch?
Who has a heathen idol which he designates Research?
Who tints the creeks, perfumes the air, and makes the landscapes drear?
The stink-evolving, grass-dissolving chemical engineer.

Who is the man who'll draw a plan for everything you desire?
From a trans-Atlantic liner to a hairpin made of wire?
With "ifs" and "ands", "howe'ers" and "buts" who makes his meaning clear?
The work-disdaining, fee-retaining consulting engineer.

Who builds a road for fifty years that disappears in two?
Then changes his identity, so no one's left to sue?
Who covers all the traveled roads with filthy oily smear?
The bump-providing, rough-on-riding highway engineer.

Who takes the pleasure out of life and makes existence hell?
Who'll fire a real good looking one because she cannot spell?
Who substitutes a dictaphone for coral tinted ear?
The penny-chasing, dollar-wasting, efficiency engineer.



# Play Tennis Hard

Put all your energy into the game—make every stroke count—but start the season right. Be sure of your tennis strings. Remember that the sudden breaking, deadening or stretching of a single string may spoil the stroke that means game, set and match.

## Don't Take Chances With Inferior Strings---SPECIFY

# *Armour's*

Try **Armour's Tennis Strings** the next time your racket needs restringing. Their superior strength, resiliency and non-stretching qualities will give you the confidence in your stroke so necessary to your playing your best game.

Carefully made from the finest, selected quality of raw material to suit the most discriminating purchaser.

Four different grades: Extra Special, Super Special, Special and AA.

*Send for samples and latest prices*

ARMOUR AND COMPANY
Chicago

1327

## *Musicians' Supplies*

If you want the best music strings on the market insist on getting Armour's from your local dealer. We carry a complete line for Violin, Banjo, Mandolin, Guitar, Cello, Double Bass, Ukelele and Harp. Send for our latest catalog of Musicians' Supplies and Accessories.

Armour's QUALITY PRODUCTS

# "Our Inspection Trip to the Illinois Steel Company"

Our inspection trip to the Illinois Steel Co. was a decided success. I say success because it, by far, surpassed any other inspection trip that we have had up to date. It served very nicely to brighten up a gloomy day and to divert our minds from the deep and drudged thot of laboratory work for that afternoon.

After boarding a dark-town transportation bus at the corner of State and Thirty-third St. we ambled southward for about forty blocks and then we transferred to a Hammond car which in it's southward route endeavors by every possible hook and crook to get one addled and confused in his directions. We rode this car with some difficulties and mental anguish to within a mile or two of the plant, and decided that it would be easiest to walk the rest of the way. We arrived at the gate of the Steel Co. at about one twenty, and found that we had to wait outside across the street from a BAR until our instructor arrived. He got there at about a quarter of two and then we passed inside the gate to the door of the reception room where we had to wait another half hour until the guide got all details properly booked and signed, and then he went thru a formal review to his superior, of where he would lead us and the wonders he would reveal to us. Our guide was a very trustworthy appearing sort of an individual who would keep us out of any place where there was any danger, either physical or mental. He wore a star and a blue uniform which showed some age but very few spots. The one remarkable thing about this man was his speed; he took us thru the plant like some fellows go thru college; in at one door and out at another. He knew a lot but it was a hard job to find out what it was, in fact, we never did find out much of what he knew. He told us a few things tho, for instance, he told us that they had some Bessemer converters and Blast furnaces around there somewhere.

After counting us two or three times and having us check everything except our hats and coats, our guide started out a little short of a run and we followed, keeping in sight as much as possible. We went over a high bridge first which gave an excellent birds-eye view of the layout of the grounds and buildings. We passed several human trucks carrying some heavy material in buckets with a sort of a hod. We wound around for a while over scrap iron and twisted rails and finally dodged into a sort of a shed with a couple of boards swinging on hinges for a door. We were rather surprised when we got inside to see a good exhibition of water falls. The water was tumbling and splashing down over some massive machinery. I asked somebody what it was and what the machinery was for and they said that they thot it was a Rail mill but didn't think that it was working. I looked around and found that the guide and most of our crowd was gone so I endeavored to catch up again. The next thing that we got into was the one thing that brightened up the afternoon, in fact we were dazzled for quiet a while after we left and had to wear blue glasses while we were inside. In entering we went up a very narrow stairway and into a side door (not the family entrance) and into a very large room, with a high roof. There were a number of men working high above us and they were making tumultuous noises which, if for our benefit, should have been left out. After satisfying ourselves that nothing was going to hurt us from above we went on down the center of the room and in front of some large open hearth furnaces. These were built of brick and lined with dolomite. These furnaces were going at a white heat but the operation was mostly over. The liquid iron was in a boiling state and was being prepared for tapping. Some strong backed men were scooping in some sort of a flux which

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I think we decided was dolomite. We were sort of awe stricken and in this condition we were nearly run over by a charging machine which is a very ingenious affair which picks up a car and dumps a whole carload of the charging material into the furnace at a time. They are small cars, however, holding about a thousand pounds of material. They were charging with scrap steel while we were in there. While we were in there a chemist made an analysis of the steel for carbon. I say he was a chemist because he took a sample, cooled it down, cut in two, give it the once over, and reported .250% carbon. Of course I don't know how near right he was but we took his word for it.

From this place we walked down a beautiful little avenue past some small mountains or piles of raw iron ore, which was piled up near the water edge, and into another building. In this building the main thing to look out for was overhead cranes. They were frisking around to and fro and one never knew when he was going to be smacked up the side of the head with a brilliant red ingot. We weaved around and thru a conglomeration of machinery and past some soaking vats. In these vats were a number of large ingots being heated to a constant temperature, for rolling. Next we went over and watched the rollers work. These ingots were rolled out into long square bars about 6x6 inches and then cut up into about six foot lengths. The most interesting thing about this place was the machinery and the remarkable skill of the workmen in juggling those long bars which were carried along on rollers. Those workmen could steer a large bar thru a small hole every time. After looking this place over pretty well, we went to another rolling device. This time they were rolling the ingots out into sheets about three-quarters or an inch thick and about six feet wide. This operation was the same as the first except that they had a series of explosions for our benefit by throwing salt and water on the sheet and then running it thru the rollers. One peculiar feature of this building was that while we were there there was a continuous screaching of whistles; it kept us busy looking around for fear that something was going to run over us. We passed on by where they were straightening the sheets and cutting them into the sizes that were wanted. From here we went into another building were they were also rolling out large ingots. This time they were being rolled out into narrow sheets and about two or three inches thick and were cut into lengths of about three feet. These sheets looked like a different material than that of the first sheets and the bars, but I never found out if it was different or not. These sheets were piled up about six in a pile and carried by a very cleverly built crane to a small car. From here we hurried on and went past several other buildings a few of which had the door open and we got a glance in, but could not determine what was inside. We walked past one place where there were several stenographers in view but alas we were hurried on past. The first thing we knew, we were where we started and after getting our belongings, we bid adieu to our guide, called it a day, and started home.

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"Here's a story of a motorman who sustained, six-thousand volts and still lives".
"Oh well, he was a non-conductor".

To the instructors—
Frosh:—"Pardon me but I didn't understand you?"
Soph:—"Will you please repeat the question?"
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"You are the first girl I ever loved!"
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