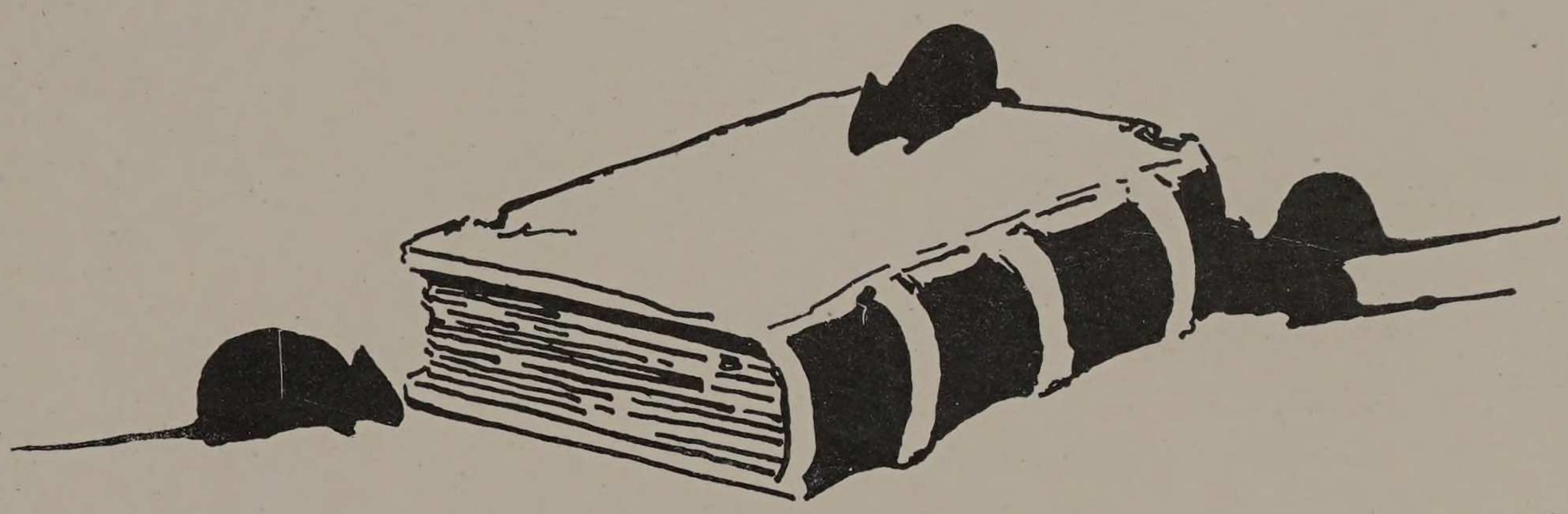
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The Year Book of the Class of 1914

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THE CYCLE

PUBLISHED BY THE

JUNIOR CLASS

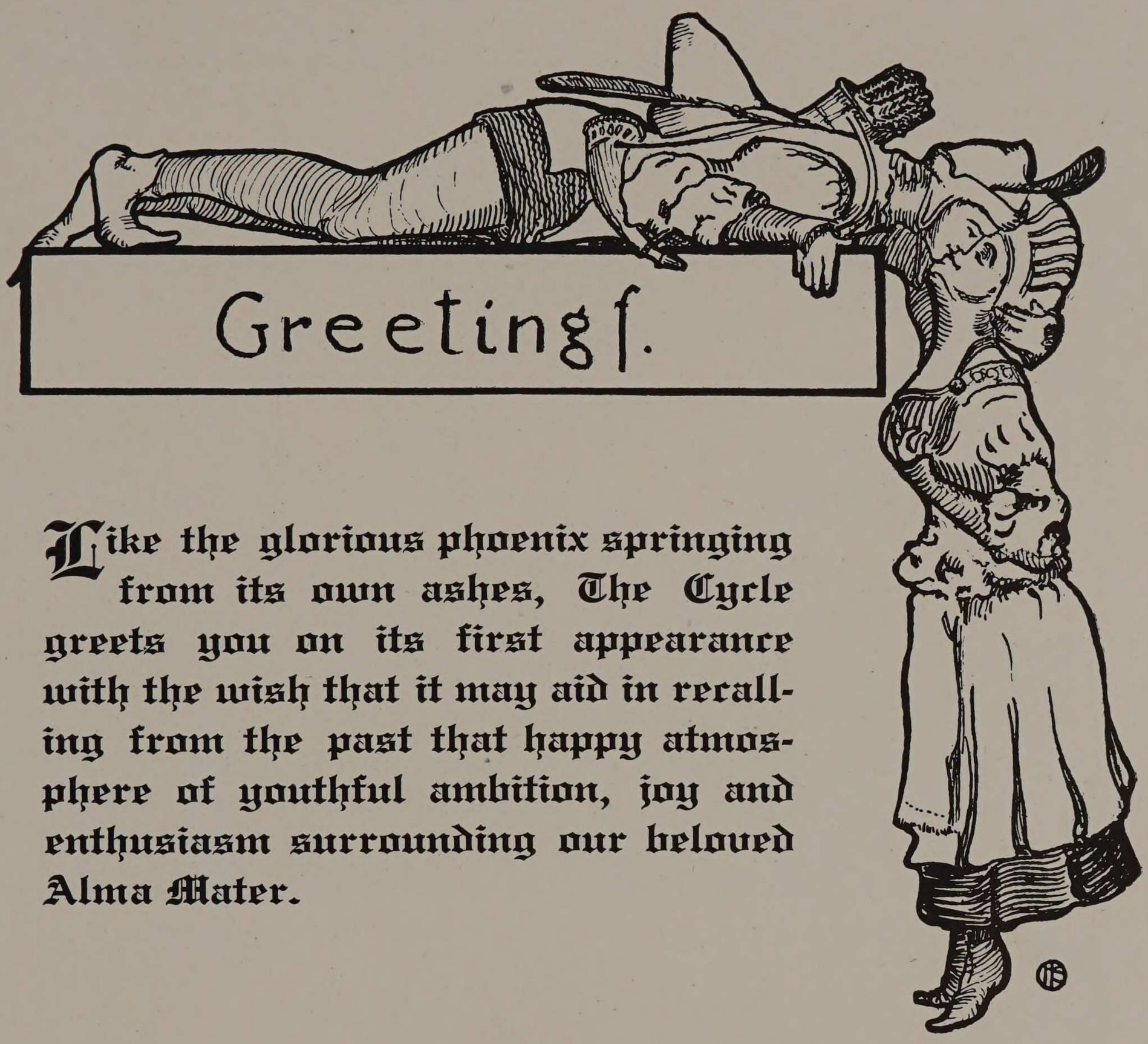
OF THE

COLLEGE OF ENGINEERING
ARMOUR INSTITUTE
OF TECHNOLOGY

ASSISTED BY

THE SENIOR CLASS

VOLUME 1 CLASS 1914



Greetings.

Like the glorious phoenix springing from its own ashes, The Cycle greets you on its first appearance with the wish that it may aid in recalling from the past that happy atmosphere of youthful ambition, joy and enthusiasm surrounding our beloved Alma Mater.

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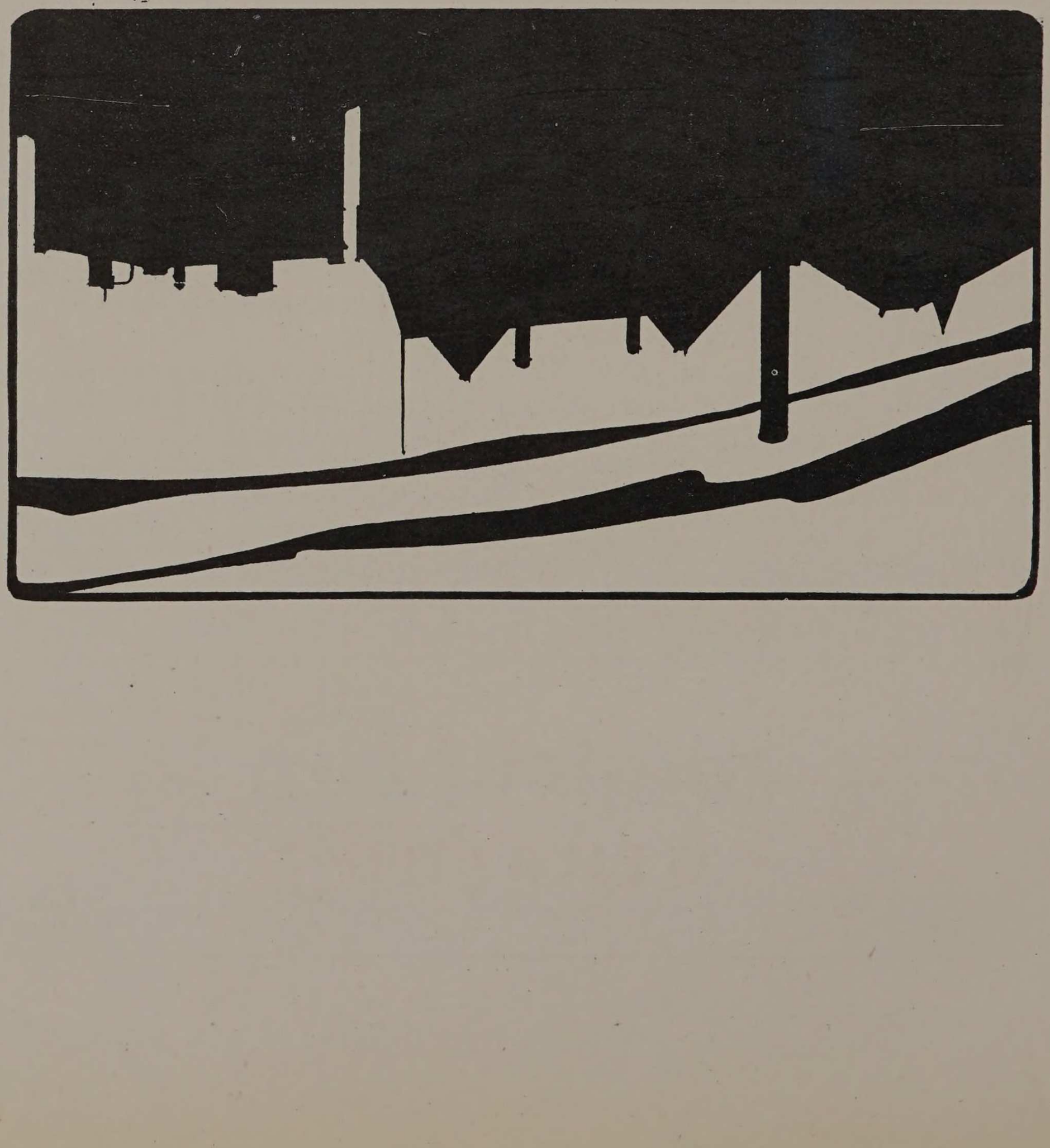
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THE INSTITUTE



The Institute

To understand an institution, to read its history rightly and interpret correctly the developments within it, an insight into its character is of prime importance. A college, in particular, can be appreciated in the fullest measure only when its individuality is made to stand out from the pages of its chronicles.

Armour Institute of Technology, a college of engineering,—so does the world know the Institute. And the courses of instructions—the degrees conferred— the enrollment from year to year, are matters of record to be readily learned from the bulletins. But the vital interest back of the facts and the changes lies in the characteristics of the college revealed through them.

Twenty years have stamped Armour as an exponent of progress. Among the colleges ever ready to advance the cause of practical science, to take the lead in spreading worthy technical movements, and even to assume the initiative by introducing new courses to the technical educational world, A. I. T. must always be classed with the foremost. Changing conditions in the industrial and educational fields have been promptly realized and intelligently met, with no hesitation induced by false sentiment.

In the spring of 1910 the Armour Scientific Academy graduated its last class. During its existence the Academy had fulfilled its purpose admirably. But changes had come about. The College of Engineering was pressed for space. The Board of Education of Chicago had provided technical high schools splendidly equipped for preparatory work. The deduction was logical, and the move pointed out as the way of progress was made.

The curriculum of the Institute abounds in evidence of the strong character of the college. Many are the courses in Architecture offered throughout the United States, but so strong a combination as that afforded by the co-operation between Armour and the Art Institute is unique among them all. And the union which developed the Art Institute course in Architecture into the Chicago School of Architecture, was effected only two years after the founding of Armour Institute of Technology. In 1901, when the course in Chemical Engineering was added, there were but two or three other courses of like nature offered in the country, and even today only ten colleges schedule Chemical Engineering. These ten colleges are all among the most prominent engineering colleges of the nation, and Armour leads them and the world in equipment for industrial laboratory work.

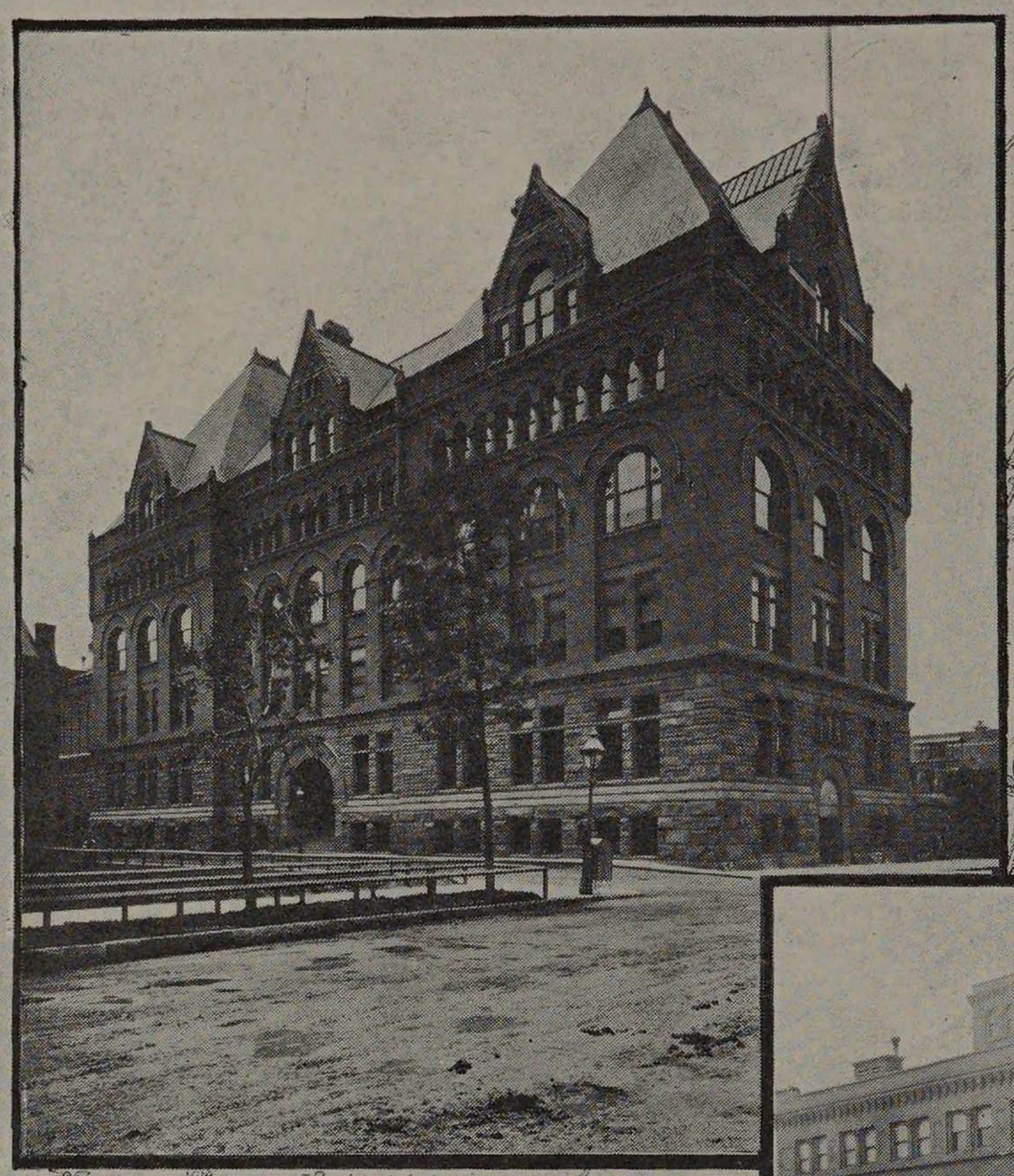
For ten years A. I. T. has stood alone, graduating students from the only existing four year course in Fire Protection Engineering. An industrial demand led to the establishment of this branch of study, in which the Underwriters Laboratories of Chicago co-operate with the Institute. Professor Taylor is the father of the course which has gained substantial recognition in the industrial world. To show that the distinction of inaugurating a new branch of technical work was not due to chance opportunity, the college has

achieved this feat for a second time. Dean Raymond perceived the need of better opportunity for instructors in Manual Training, with the result that 1912 saw the establishment of a course in Industrial Arts, leading to a Bachelor of Science Degree, designed to meet the needs of Chicago's teachers and others. This year 41 are enrolled in Industrial Arts, and industrial education owes one more debt to Armour Institute of Technology.

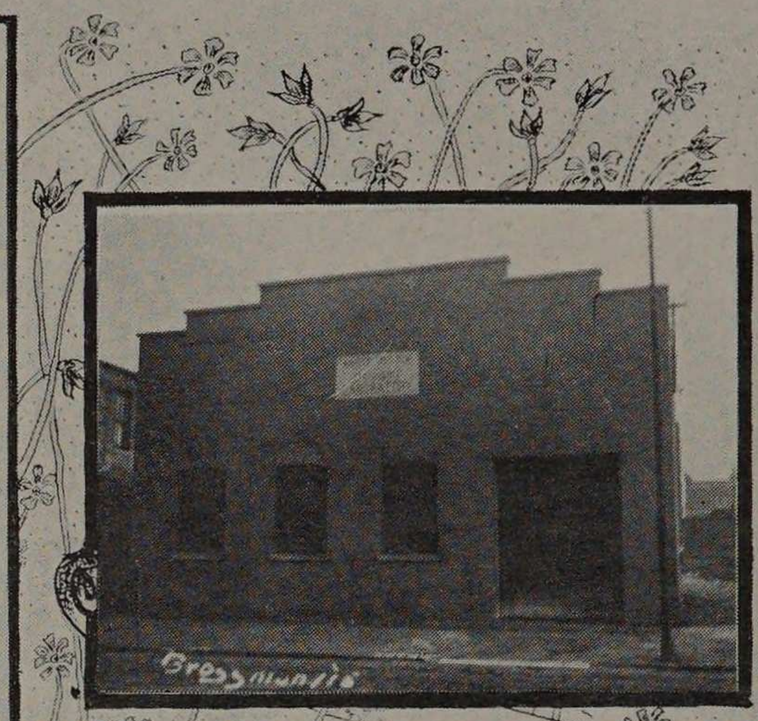
In the distinctions and particulars which individualize colleges and give to them definite personalities, the predominating characteristics of the faculty as a body, stamp themselves plainly as characteristics of the college. The facts which observation show to pertain to the faculty body at A. I. T. might be anticipated from the nature of the events recorded as the history of the college. The Professors at Armour are perhaps younger than those in the older universities and colleges, but they are full of enthusiasm, they are efficient, and they are in close sympathy with the needs of the student body. As a compliment to the faculty and the methods of education employed by the college, the fact stands out that Armour's Alumni are staying with their professions in a percentage beyond the average for graduates of technical colleges.

Related to all the above, and furnishing a final important phase in the peculiarities of the college, is the undergraduate life. Decidedly different is this question at Armour from the usual, for the absence of campus life has meant the working out of undergraduate problems under conditions not generally prevalent. Armour spirit has sometimes been called into question, when a lack of interest in student activities, outside of the daily study program, seemed evident. At times it has seemed that the hard scholastic requirements, the absence of dormitories, and the location in Chicago, would leave A. I. T. with but little beyond its educational activities. But these were the times when the problem was working itself to a final solution. Out of it all has evolved a distinctive Armour spirit—a progressive spirit in keeping with the character of the College. Some organizations have died, while others, better fitted to survive the prevailing conditions, have arisen. The student body is now supplied with the activities it demands. Armour Spirit has come to mean—desire to participate in those things which ring true as wholesome college activity, interest in all that pertains to Alma Mater, and above all, grit and determination to make good for her glory.

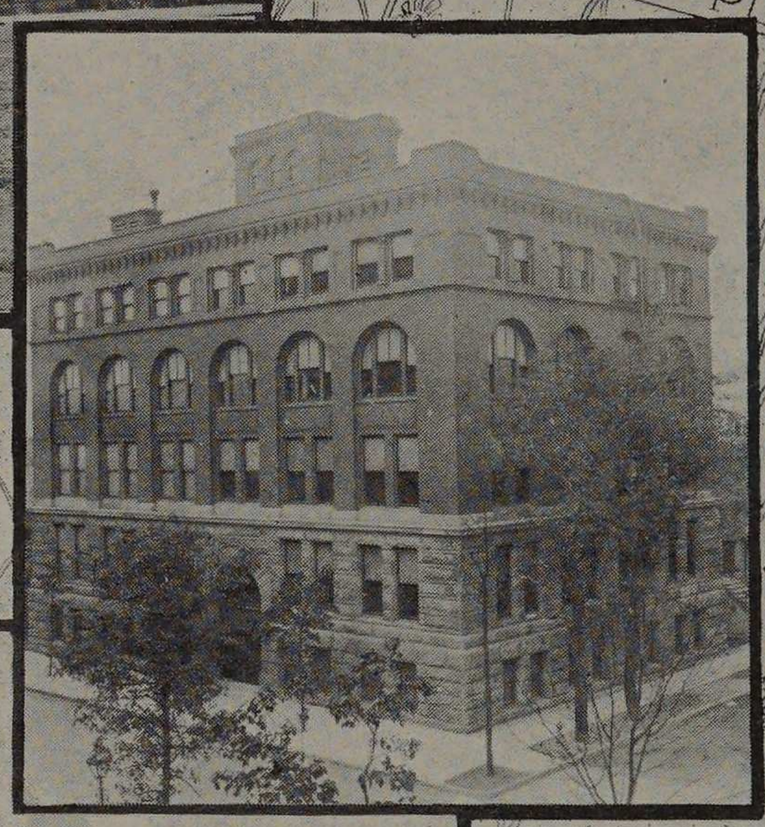




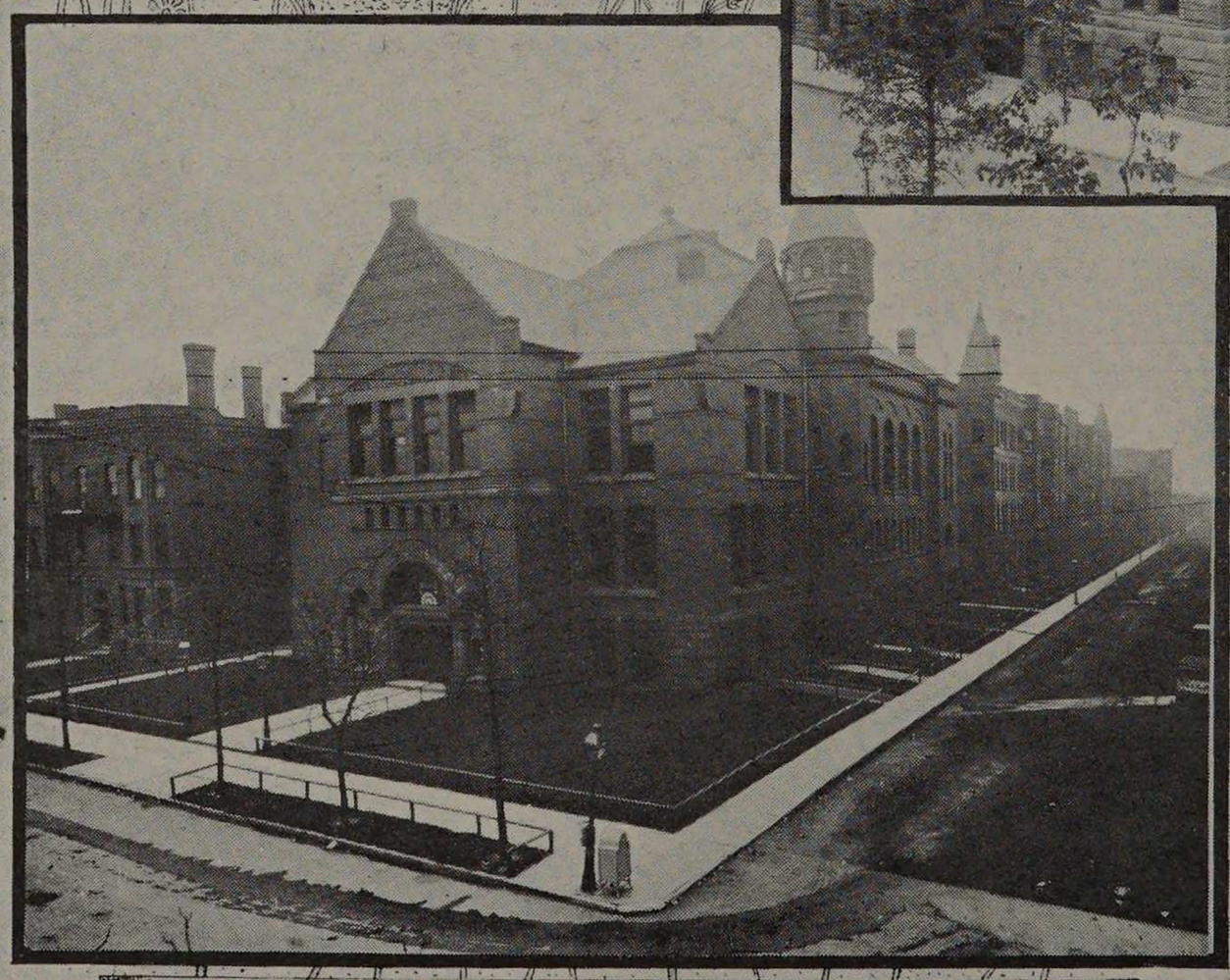
MAIN — BUILDING



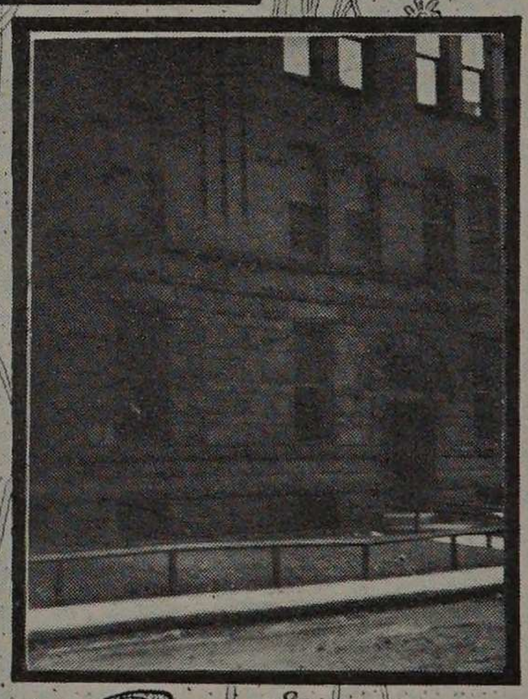
TESTING-LABORATORY & ICE PLANT



MACHINERY HALL



MISSION — BUILDING



CHAPIN — HALL

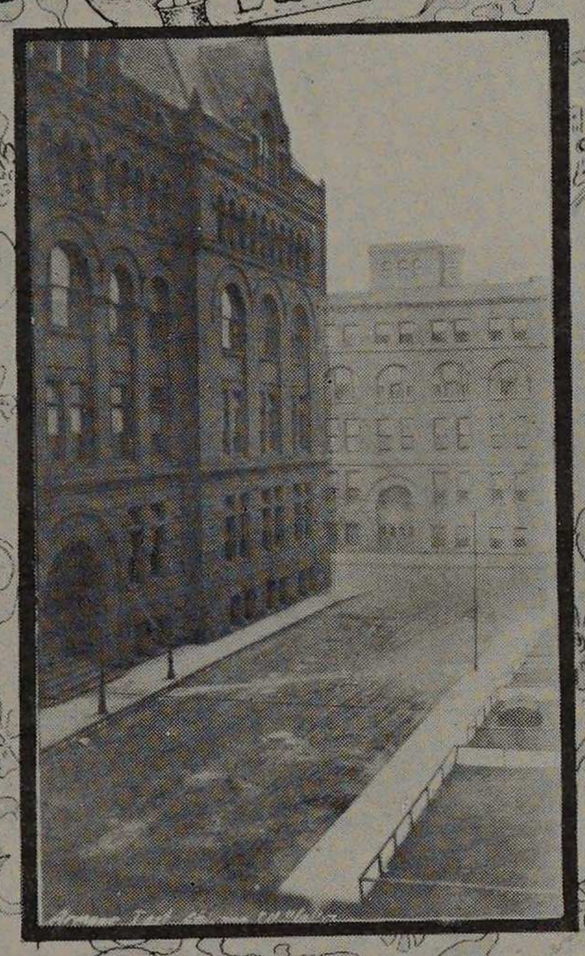
EWM



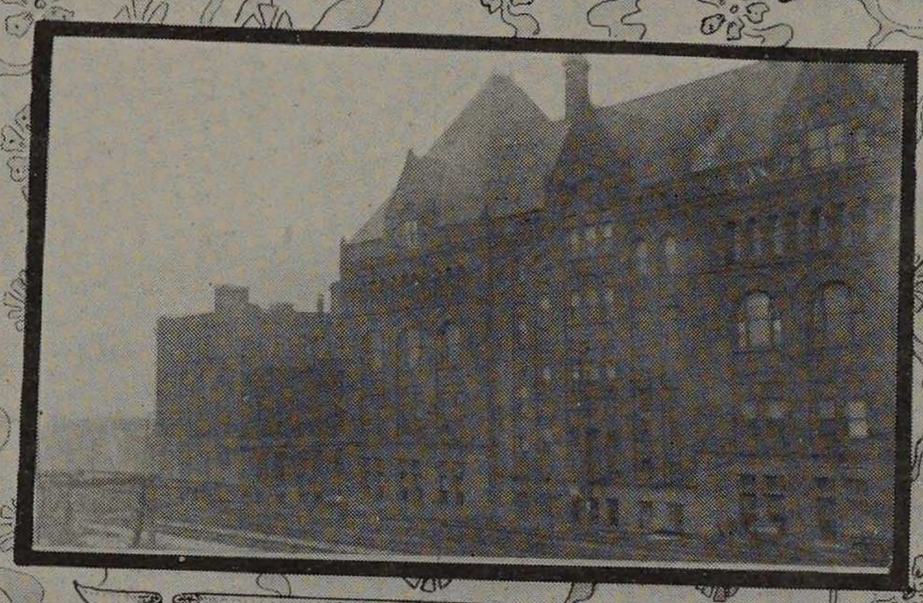
LOOKING - NORTH-EAST



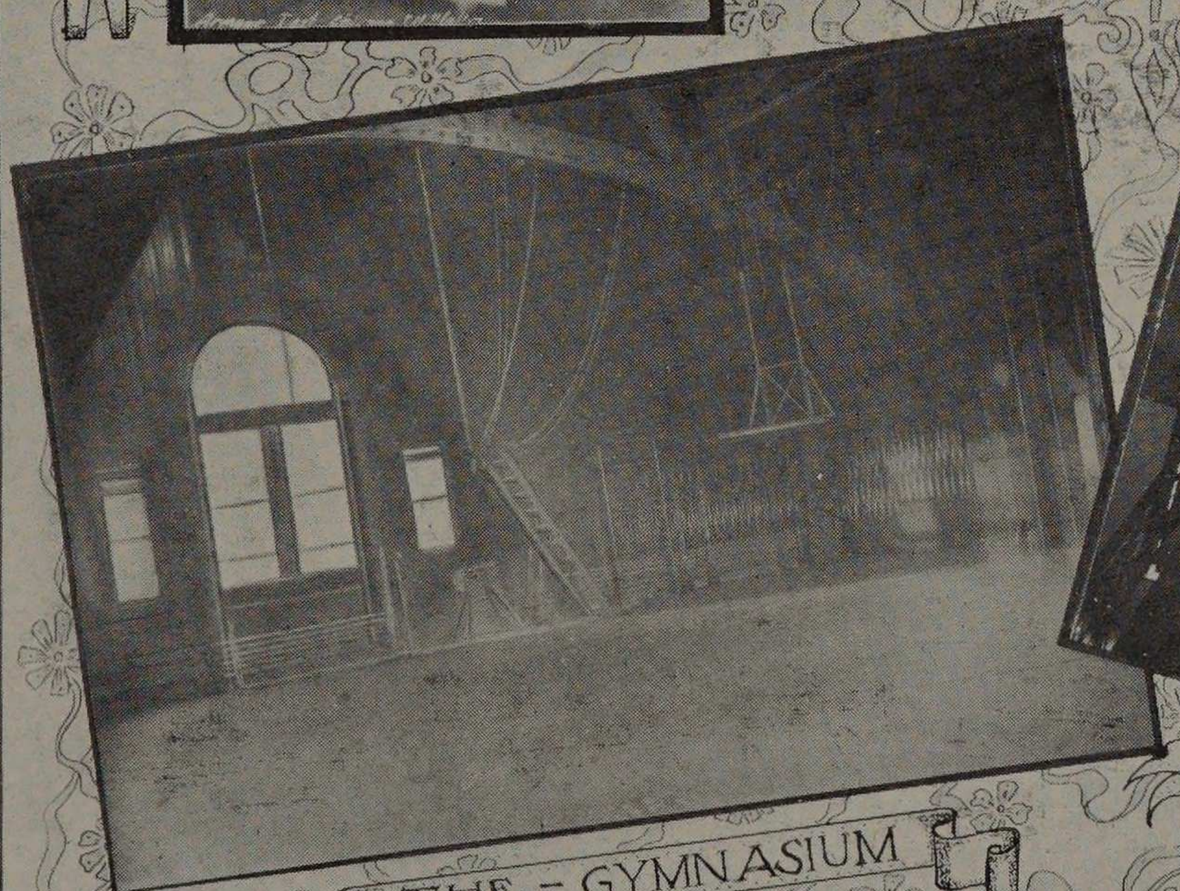
LOOKING WEST



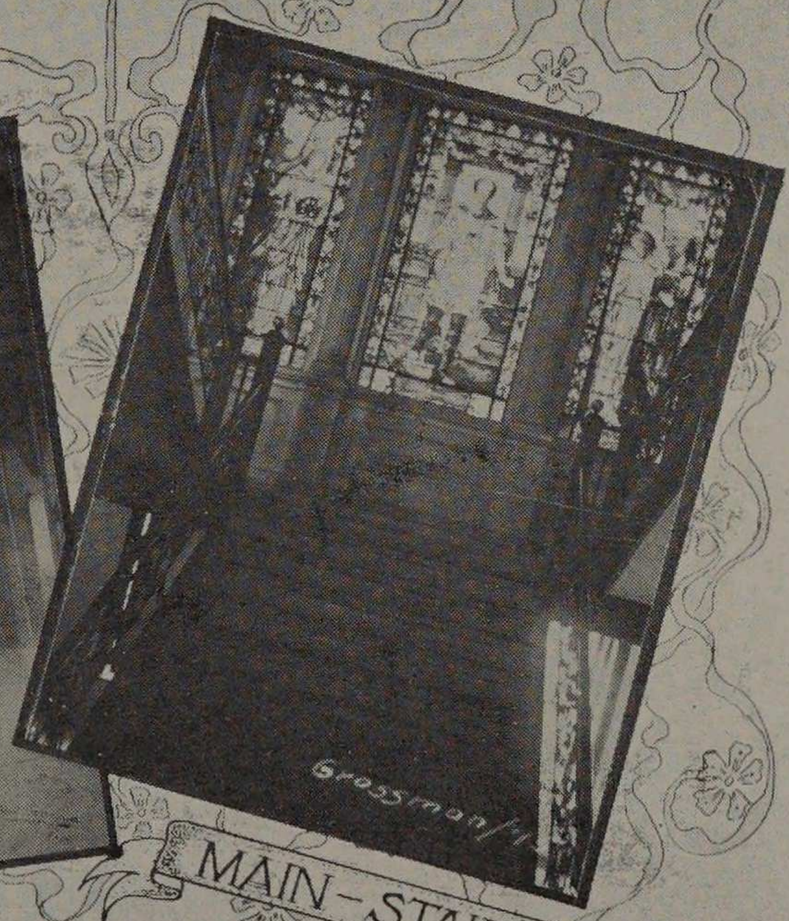
LOOKING — NORTH



LOOKING EAST



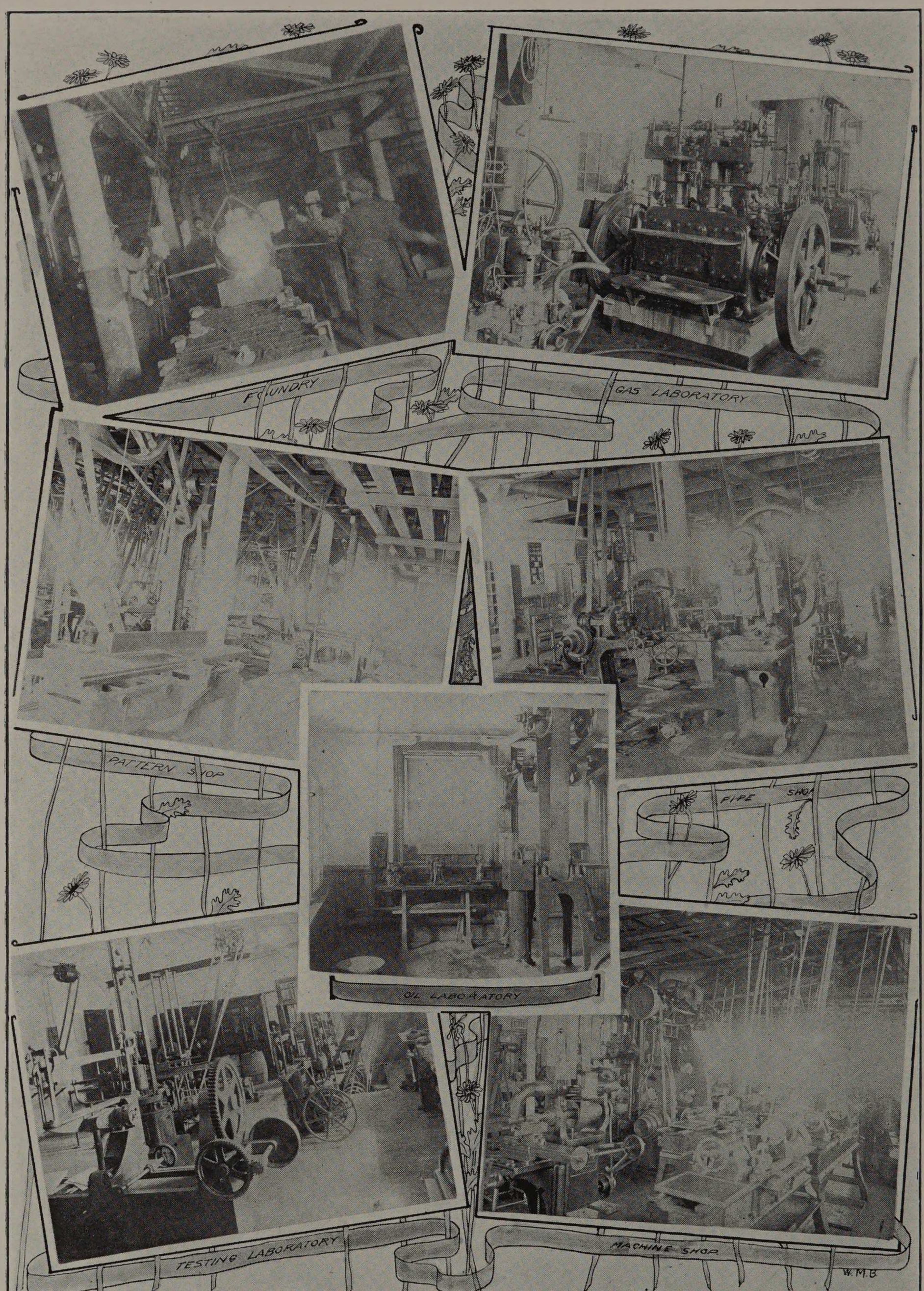
THE - GYMNASIUM



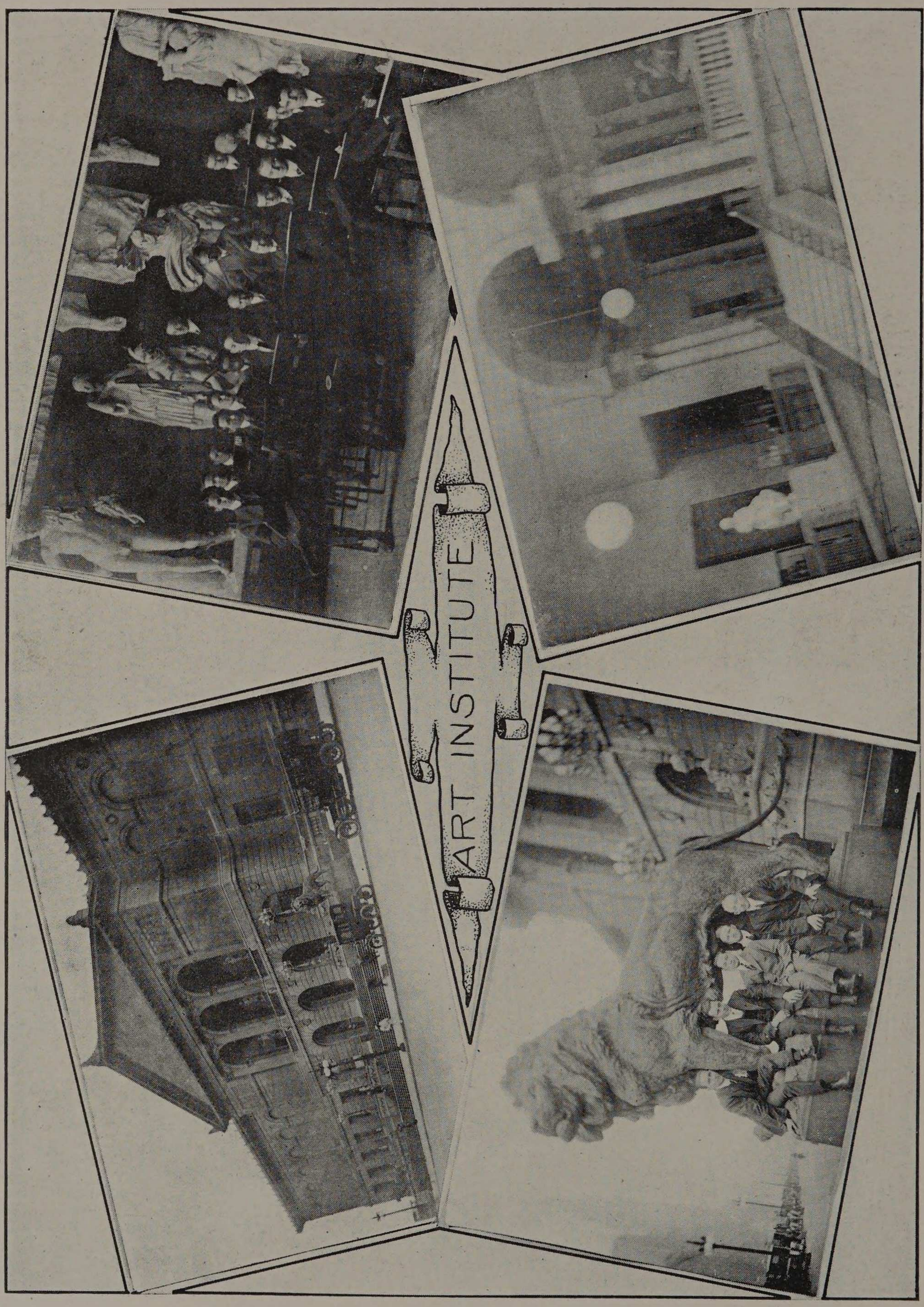
MAIN - STAIRWAY

MANN

THE CYCLE.


FOUNDRY
GAS LABORATORY
PATTERN SHOP
OIL LABORATORY
PIPE SHOP
TESTING LABORATORY
MACHINE SHOP
W.M.B


FRESHMAN CHEMISTRY LABORATORY
ELECTRICAL LABORATORY
PHYSICS LABORATORY
INDUSTRIAL CHEMISTRY LABORATORY
CHEMISTRY LABORATORY
FRESHMAN DRAWING ROOM
DYNAMO LABORATORY
W.M.B


ART INSTITUTE



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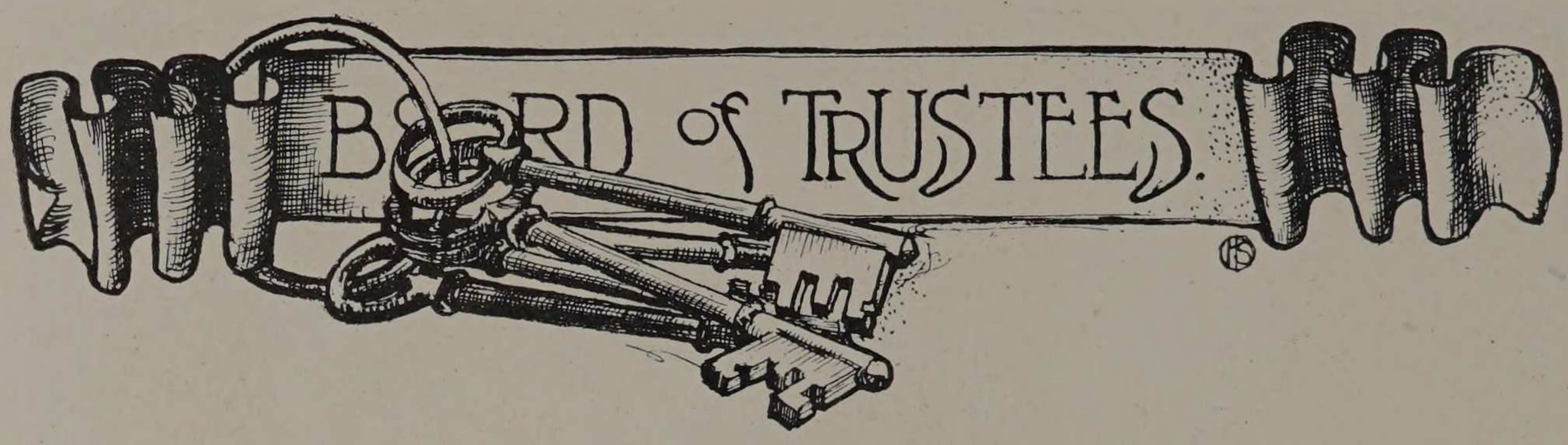
The Library contains more than 27,000 volumes, and 4,000 pamphlets; 180 periodicals are taken, kept on file and bound. It is primarily a reference library for engineering students, but is also strong in science, history, literature, philosophy and economics. It is well supplied with current literature, including the transactions and proceedings of learned societies and the chief literary and scientific periodicals.

Direct access to the shelves of the Library is allowed to the students in order that they may better familiarize themselves with the use of the library.



MISS GERTRUDE VEBLEN

An important feature of the work done by the Library staff is the valuable help offered to the various departments of instruction by the preparation of Engineering Bibliographies.



J. Ogden Armour

Mrs. Philip D. Armour

Mrs. J. Ogden Armour

Simeon B. Chapin

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J. OGDEN ARMOUR



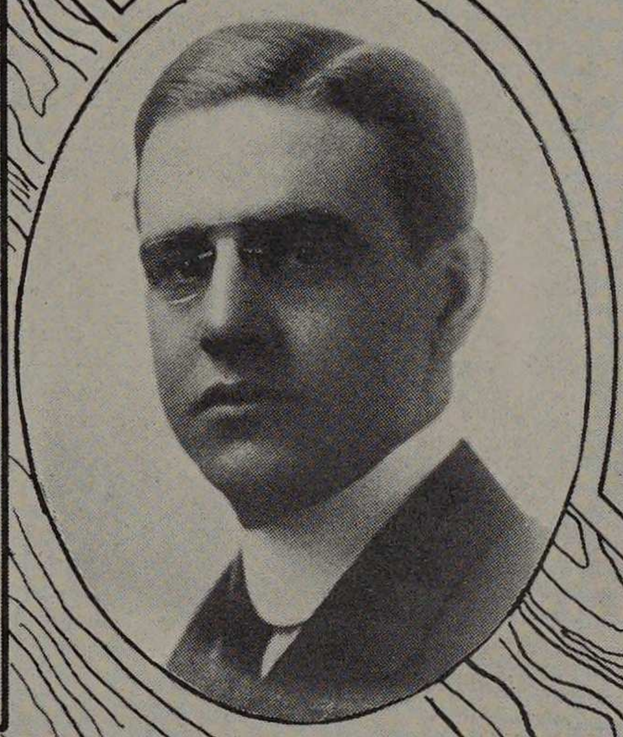
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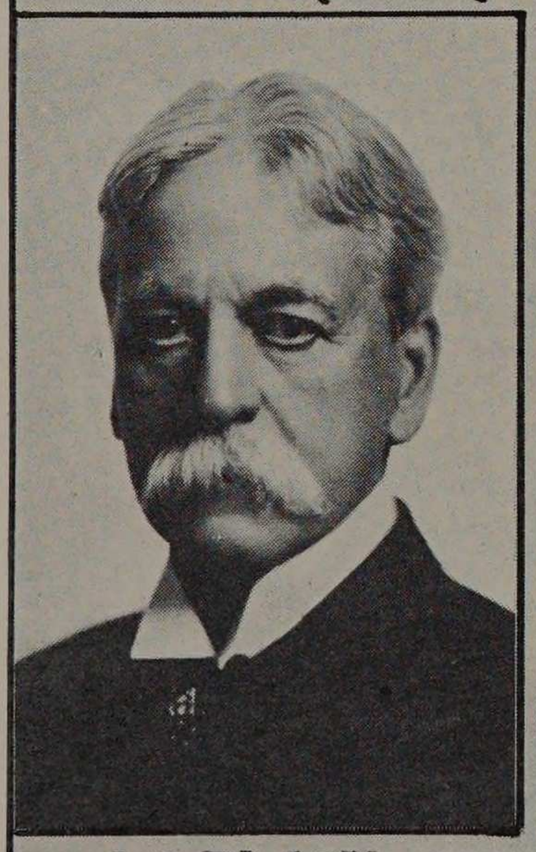
Mrs. P.D. ARMOUR



Mrs. J. OGDEN ARMOUR



R. J. DUNHAM

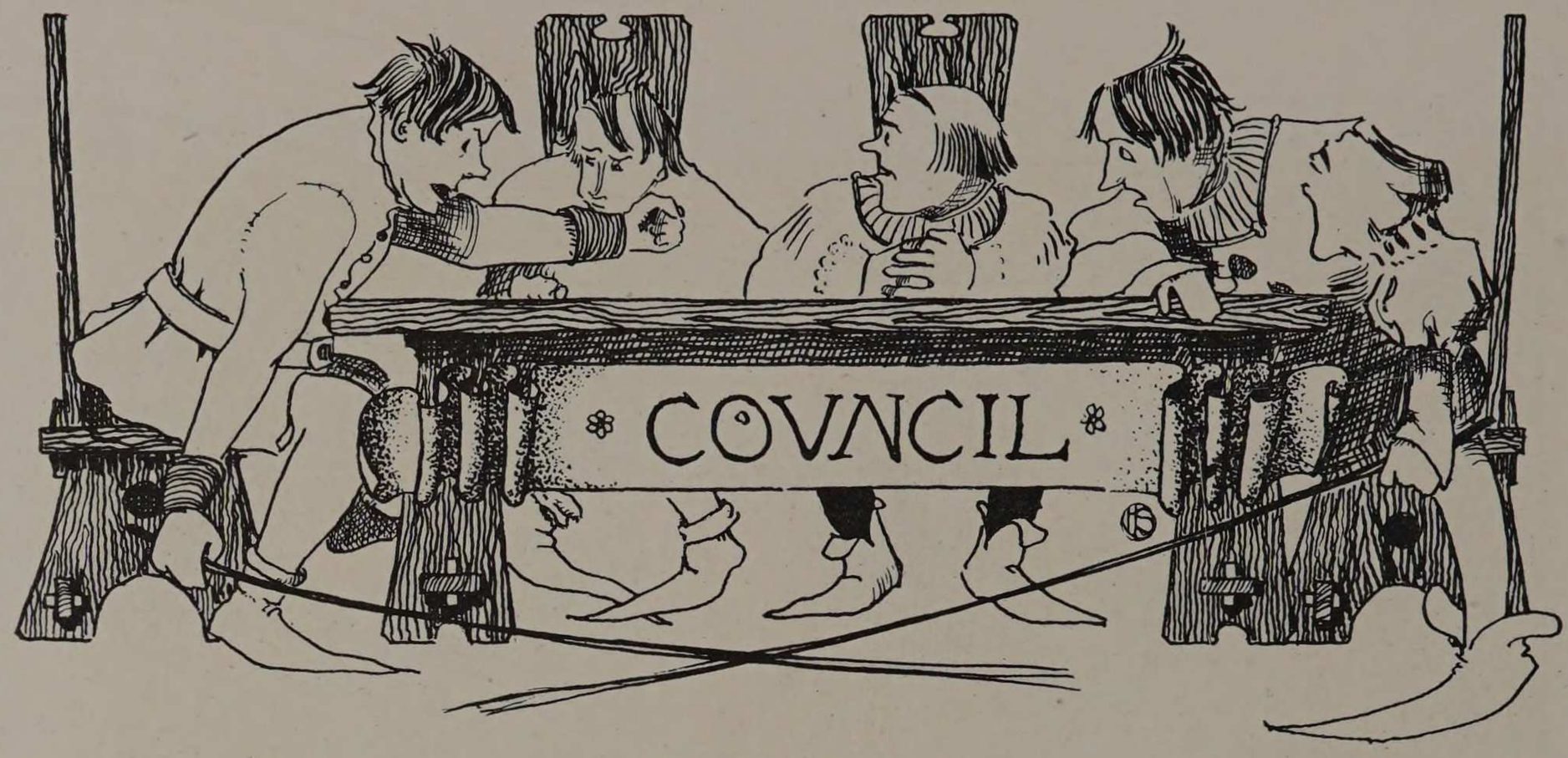


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HE ODZH

To the Faculty

As the finished product of years of moulding, forging and welding, the class of 1913 takes this opportunity of expressing to the faculty heartfelt appreciation of their ability, patience and enthusiastic cooperation, and extends to them the wish that continued success and long life may ever be their portion.


SHEEP SKIN
SMP
YE FACULTY



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Professor of Civil Engineering.
Birthplace, Rouse's Point, New York.
A. B. and C. E., Union University, Schenectady, N. Y., 1887; A. M., 1890; Ph. D., 1894.
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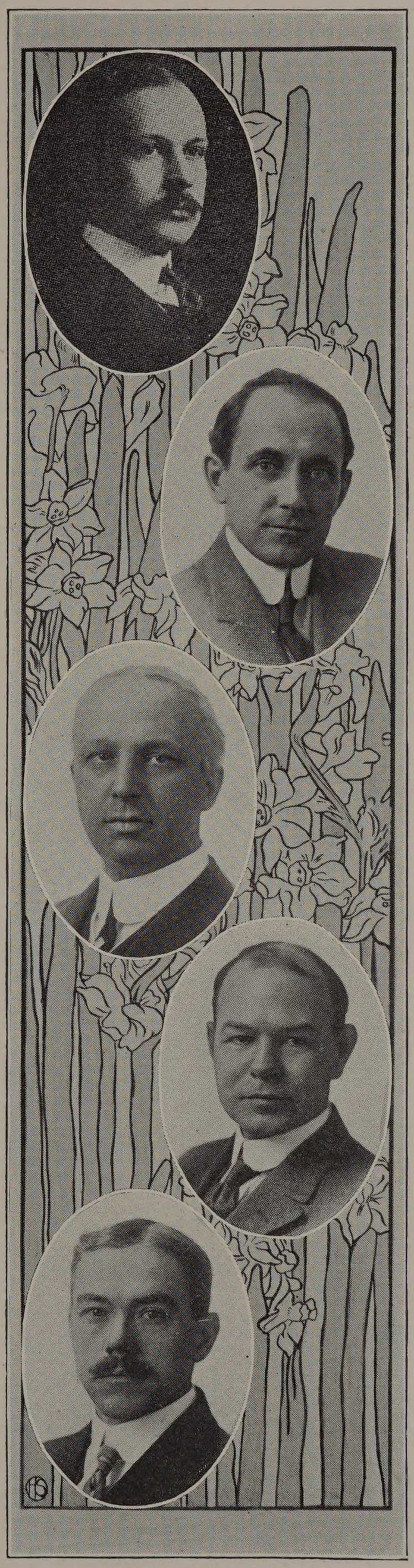
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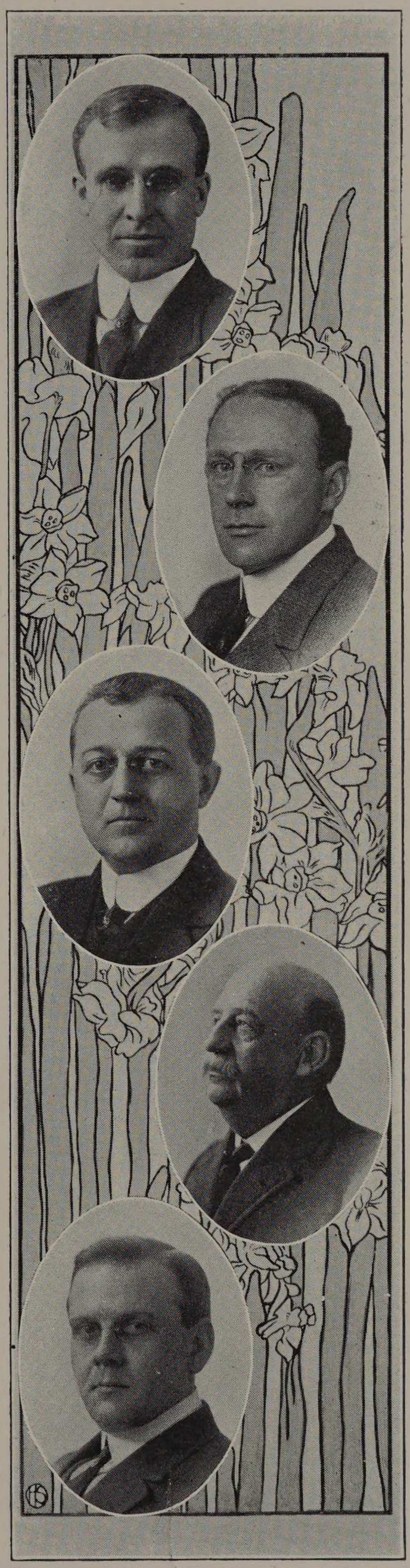
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E. E., Armour Institute of Technology, 1912.
Member of American Institute of Electrical Engineers and American Electro-Chemical Society.
Residence, 446 East 34th Street.



CLAUDE IRWIN PALMER

Assistant Professor of Mathematics.
Birthplace, Michigan.
A. B., University of Michigan, 1903.
Member of American Association for the Advancement of Science; National Society for the Promotion of Industrial Education.
Author of "Arithmetic with Applications;" "Geometry with Applications;" "Algebra with Applications;" "Trigonometry and Logarithms."
Residence, 6440 Greenwood Avenue.

ARTHUR HENRY ANDERSON

Assistant Professor of Experimental Engineering.
Birthplace, Chicago, Illinois.
M. E., Armour Institute of Technology, 1906.
Residence, 6826 Wayne Avenue.

EDWIN STEPHEN LIBBY

Assistant Professor of Experimental Engineering.
Birthplace, Portland, Maine.
B. S., Armour Institute of Technology, 1902; M. E., 1907.
Tau Beta Pi.
Residence, 11232 Esmond Street.

WILLIAM GRISWOLD SMITH

Assistant Professor of Descriptive Geometry and Kinematics.
Birthplace, Toledo, Ohio.
M. E., Cornell University, 1892.
Delta Kappa Epsilon, Sphinx Head.
Author of "Practical Descriptive Geometry."
Residence, 6758 Perry Avenue.

JOHN SIMPSON REID

Assistant Professor of Mechanical Drawing and Elementary Machine Drawing.
Birthplace, Kilmarnock, Ayrshire, Scotland.
Irvine College, British Government Science and Art Schools, Glasgow, Scotland.
Member of American Society of Mechanical Engineers.
Author of "Mechanical Drawing, Elementary and Advanced," "Drawing and Designing;" "Investigations into Drafting Room Conventions in the United States, 1909."
Residence, 43 West 33rd Street.

ROBERT CHARLES OSTERGREN

Assistant Professor of Architecture.
Birthplace, Stockholm, Sweden.
B. S., Armour Institute of Technology, 1908.
Tau Beta Pi.
Member of Chicago Architectural Club.
Residence, 2939 Vernon Avenue.

STANLEY DEAN

Assistant Professor of Civil Engineering.
Birthplace, Manchester, England.
C. E., Armour Institute of Technology, 1905.
Beta Theta Pi, Sigma Kappa Delta.
Associate Member American Society of Civil Engineers.
Residence, 6940 Wentworth Avenue.

EUGENE EDWARD GILL

Assistant Professor of General Chemistry.
Birthplace, Boring, Maryland.
Ph. B., Dickinson College, 1897. Ph. D., Johns Hopkins University, 1909.
Phi Beta Kappa.
Member of American Chemical Society.
Research Work on the "Determination of Osmotic Pressure of Cane Sugar Solutions."
Residence, 5739 Jackson Avenue.

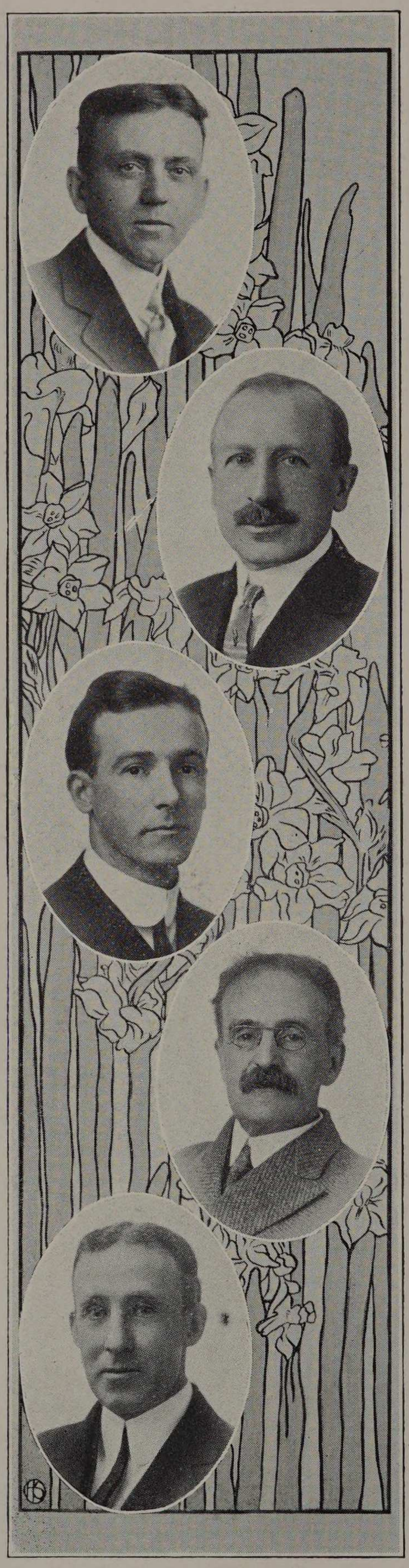
EDWARD DIEHL AGLE

Superintendent of Shops and Instructor in Machine Tool Work.
Birthplace, Greencastle, Pennsylvania.
Residence, 635 East 41st Street.

NELS PETER PETERSON

Instructor in Woodworking.
Birthplace, Hoganas, Sweden.
Residence, 1534 North Leavitt St.





CHARLES FREDERICK HAGENOW

Instructor in Physics.
Birthplace, Altona, Germany.
B. S., University of Nebraska, 1900; A. M., 1906.
Sigma Xi.
Fellow of the American Association for the Advancement of Science.
Research Work on "Electric Double Refraction in Carbon Bisulphide."
Residence, 1120 East 54th Place.

CHARLES HENRY FORNHOF

Instructor in Machine Tool Work.
Birthplace, Chicago.
Residence, 1255 Thorndale Avenue.

JAMES CLINTON PEEBLES

Instructor in Expermental Engineering.
Birthplace, Dreghorn, Scotland.
B. S., Armour Institute of Technology, 1904; E. E., 1908. M. M. E., Cornell University, 1908.
Gamma Alpha, Sigma Xi, Tau Beta Pi.
Research Work on "An Oscillograph Study of Commutation."
Residence, 436 West 72nd Street.

CHARLES E. BOUTWOOD

Instructor in Freehand Drawing.
Birthplace, Luton, England.
Studied in South Kensington Museum. Scholarship, Royal Academy School, London. Studied in Paris under Bouguereau and Fleury. Medalist Chicago Society of Artists, 1913.
Member of the Chicago Society of Artists.
Residence, Hinsdale, Illinois.

JOSEPH PATRICK KENNEDY

Instructor in Forging.
Birthplace, Chicago, Illinois.
Residence, 6333 Marshfield Avenue.

EARL WATSON MCMULLEN

Instructor in Industrial Chemistry.
Birthplace, Picton, Ontario, Canada.
B. S., Armour Institute of Technology, 1909.
Tau Beta Pi, Omega Lambda.
Member of the American Chemical Society.
Author of "New Method of Sugar Manufacture," and "Methods of Analysis."
Research Work on "Manufacture of Sugar from Dried Sugar Cane" and "Wax and Other By-Prod- from Bagasse."
Residence, 3430 Michigan Avenue.

HAROLD WILLIAM NICHOLS

Instructor in Electrical Engineering.
Birthplace, Sheffield, Iowa.
B. S., Armour Institute of Technology, 1908. M. S., University of Chicago, 1909. E. E., Armour Institute of Technology, 1911.
Sigma Xi, Eta Kappa Nu.
Member of American Physical Society.
Residence, 5465 Greenwood Avenue.

JOHN CORNELIUS PENN

Instructor in Civil Engineering.
Birthplace, Wetering, Netherlands.
B. S., Armour Institute of Technology, 1905; C. E., 1910.
Tau Beta Pi, Omega Lambda.
Associate Member Western Society of Engineers.
Residence, 11344 Eggleston Avenue.

CHARLES LARSEN

Instructor in Founding.
Birthplace, Chicago, Illinois.
Residence, 1101 North Humboldt Street.

HARRIE BRIDGMAN PULSIFER

Instructor in Metallurgy.
Birthplace, Lebanon, New Hampshire.
B. S., Massachusetts Institute of Technology, 1903.
Member of American Institute of Mining Engineers; American Chemical Society; American Association for the Advancement of Science.
Residence, 511 East 33rd Street.





DANIEL ROESCH

Instructor in Experimental Engineering.
Birthplace, Aurora, Illinois.
B. S., Armour Institute of Technology, 1898; M. E., 1908.
Tau Beta Pi.
Member of American Society for Testing Materials; American Gas Institute; Natural Gas Association of America.
Residence, 7454 Stewart Avenue.

CHARLES R. SWINEFORD

Instructor in Descriptive Geometry.
Birthplace, Van Wert, Ohio.
B. S., University of Michigan, 1904; M. E., 1907.
Instructor, University of Michigan, 1907-1908.
Residence, 3327 Armour Avenue.

CHARLES H. ALLING

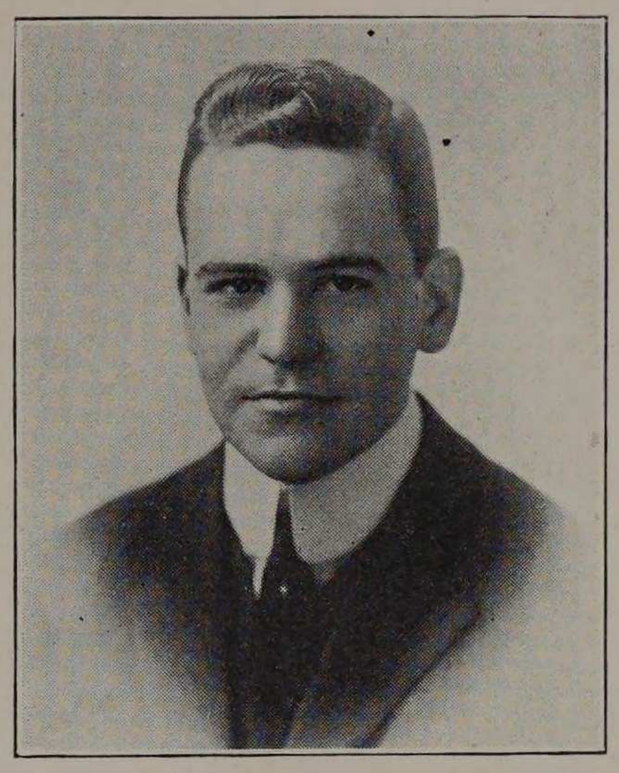
Lecturer on Business Law.
Birthplace, Madison, Indiana.
A. B., Hanover College, 1885; A. M., 1899. LL. B., University of Michigan, 1888.
Sigma Chi.
Member of Union League and University Clubs; Indiana Society of Chicago.
Author of Articles on "Wastes" in American and English Encyclopedia of Law.
Editor of Sigma Chi Quarterly, 1890 to 1905.
Attorney for Illinois State Board of Health since 1907.
Alderman of Second Ward 1897 to 1905.
Residence, 319 East 22nd Street.

THOMAS EDDY TALLMADGE

Lecturer on History of Architecture.
Birthplace, Washington, D. C.
B. S., Massachusetts Institute of Technology, 1898.
Phi Beta Epsilon.
Member of Illinois Chapter Institute of Architects.
Winner of Travelling Scholarship, Chicago Architectural Club, 1904.
Residence, University Club, Evanston, Illinois.

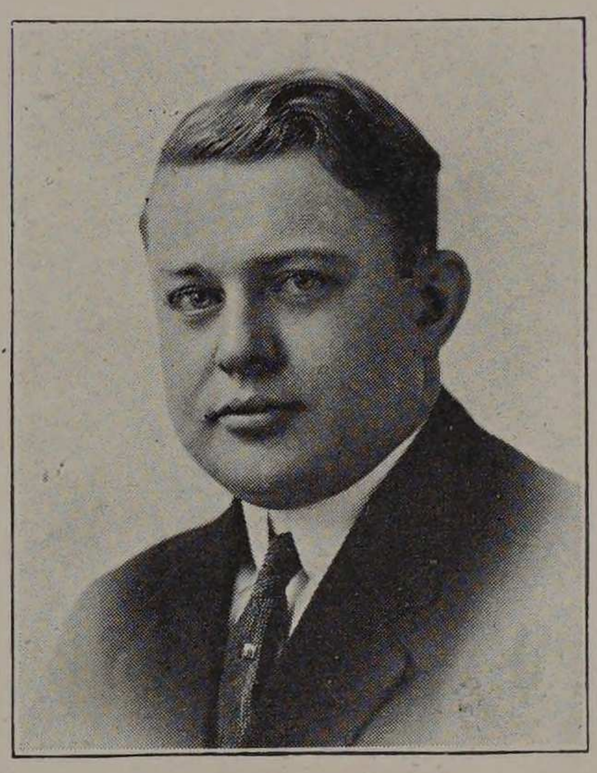
JOHN FRANK ALTER

Instructor in Architectural Drawing.
Birthplace, Austria.
B. S., Massachusetts Institute of Technology, 1911; M. S., 1912.
Residence, 233 East Huron Street.



JOHN J. GILBERT

Instructor in Electrical Engineering.
Birthplace, Philadelphia, Pennsylvania.
A. B., University of Pennsylvania, 1909.
Sigma Kappa Delta, Sigma Xi, Gamma Alpha.
Residence, 5731 Monroe Avenue.



GEORGE SINCLAIR ALLISON

Registrar.

ASSISTANTS

Record Clerk	Miss Jane L. Forrest
Assistant to Librarian	Miss Gertrude Veblen
Assistant in Registrar's Office	Charles Nisbet
Assistant to Registrar	Miss Emma J. Turck
Stenographer in office of Comptroller	Miss E. B. Black
Assistant in Gymnasium	A. R. Lyden
Second Assistant in Gymnasium	H. J. Springer
Curator of Chemical Laboratories	Alfred E. Dean
Assistant to Curator	Frank P. Palmer
Assistant in the Office of the President	Charles E. Stridiron
Assistant in the Office of the Deans	Ernest Kelly
Stenographer in Mechanical Department	J. T. Gilpin
Stenographer in Electrical and Chemical Department	G. Keske
Chief Engineer of Power Plant	John Allen
Assistant Engineer	Bert Smith
Chief Electrician	P. A. Blanchard
Mechanician	Louis A. Falk
Mechanician	W. T. Tiedemann
Assistant in Mechanical Laboratories	A. J. Dew
Assistant in Mechanical Laboratories	William Smith
Assistant in Foundry	Chester E. Davis
Assistant in Pattern Shop	W. T. Hubbard
Assistant in Machine Shop	C. H. Fornhof
Assistant in Forge Shop	M. Maloney
Assistant in Electrical Laboratories	Alfred H. Falk

Class Organizations

of the

College of Engineering

Colors: Black and Yellow

Yell: —

Arch! Mech!
Civ! Elec!
Rah! Rah!
Armour Tech!

CLASSES



God Speed

Ye wisest brethren, of the wise,
Whose breath has lifted Armour's plane,
Go forth and let the world arise,
In glory o'er thy might and main.
Quiet and calm and full of life,
Armour Seniors, equipped for the strife.

God speed, and may we meet anon,
And know each other, Alma Mater's sons,
And may thy banner be unfurled upon,
The tents of glory, tents of fame, oh gracious ones
Go forth, explore life's unknown sea,
With fame blazing, as the sun o'er the lea.

So greet we ye, and bid ye go,
Beseeching the most high thy way to keep;
Serene, and void of fear, and so —
Offering joy, for thy life to reap,
We speed ye forth, with a mighty cheer,
A handclasp fast, a smile, yea a tear.

D. B. L., '14.


SENIORS
STANLEY

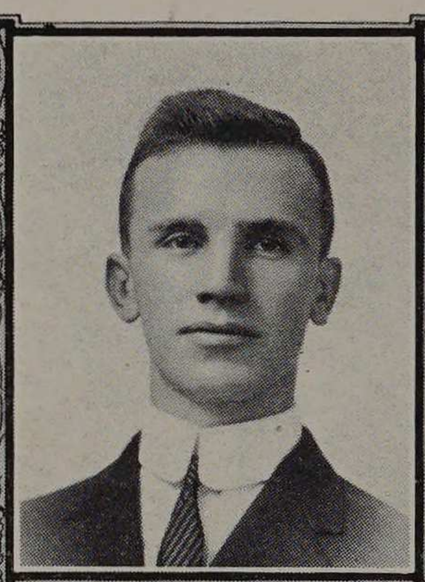
The Class of Nineteen Hundred Thirteen

Seniors



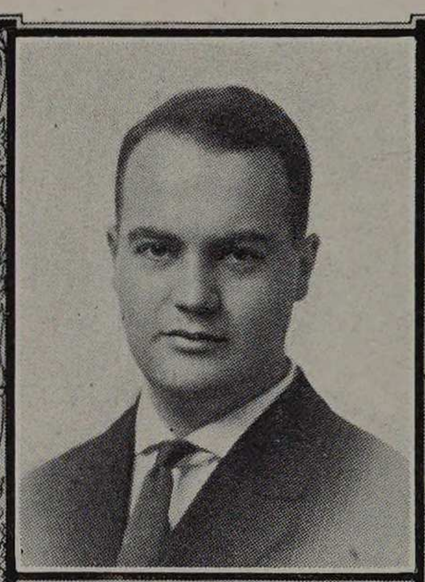
SECRETARY

C. H. SPENCER



VICE PRESIDENT

A. C. CRAMER



PRESIDENT

E. R. BURLEY



TREASVRER.

D. A. DROZESKI

Colors: — Maroon and Gray.

Social Committee

P. K. Brown — A. Woerner
H. Walin — W. Buttner
E. R. Burley

Yell:—A. I. T. A. I. T.
1—9—1—3.
A. I. T. A. I. T.
1—9—1—3.

B. S. IN M. E.

ELBRIDGE ROGER BURLEY

Effect on Carburetion of Varying Conditions in the Intake Manifold of an Automobile Motor.

Tau Beta Pi; Radical X; President senior class; President A. S. M. E.; Junior Play; Fulcrum Staff.

The list of Roger's accomplishments serves to indicate the quality of the man. Roger has held the numerous offices indicated, has supported every college movement, and yet has "made" Tau Beta Pi. His associates with one acclaim say "Well done, Roger!"

JAMES JOSEPH HAYES, JR.

Investigation of Economical Banking of Fires with Green Chain Grate Stoker.

A. S. M. E.; Senior Representative Rooters' Assn.

When Jimmy is not lighting a pill or going to class, he is either trying to dispose of dance tickets or is discussing the leading lights of the stage. James is a fervent lover of every art into which woman enters. This will serve to explain his fondness for music, dancing and the stage.

MAX DAVID WALD

Test of 25 H. P. Smith Anthracite Suction Gas Producer.

Tau Beta Pi; A. S. M. E.; Fulcrum Representative '10-'12; Chairman Constitution Committee '11; Class President '11; Social Committee '11-'12; Junior Play; Vice-Pres. Rooters' Association; Cycle Representative.

Max's only fault is an over passion for hard work. He eats it! The record he has established in scholarship can never be surpassed, while his good fellowship, unfailing spirit, and ability to get there, have won for him the admiration of all.

HOWARD COOPER

Influence of the Rate of Flow of Oil upon the Coefficient of Friction.

A. S. M. E.; Junior Play; Senior Photo Committee.

Howard is a dashing young man who has learned to combine work with play in the proper proportions. He always attends the Armour dances and many of us wonder at the extent of his acquaintance for he seldom brings the same girl twice.

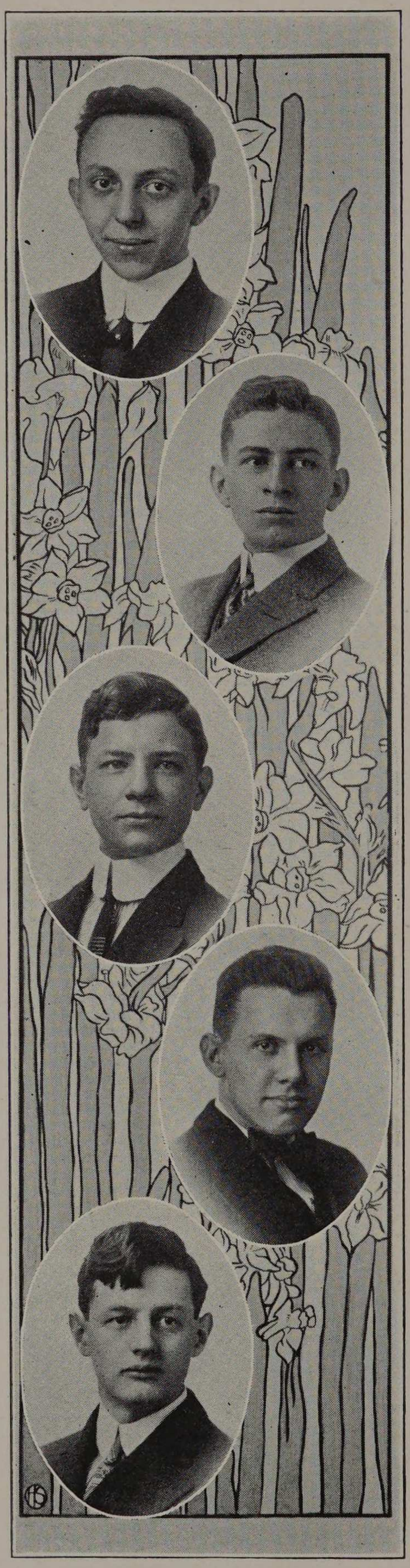
CHARLES HENRY SPENCER, JR.

Stratification of Gases in Two-Cycle Engines.

Tau Beta Pi; A. S. M. E.; Y. M. C. A.; Class Secretary '12-'13; Secretary Board of Athletic Control; Tech. Baseball 4 years; Captain '12-'13; Class Baseball '09-'12.

Charles is a quiet, modest young man, with a record that shows no one ever loses by modesty and gentlemanly conduct. He is ever courteous and the general verdict of the class is "A mighty fine fellow, this Spencer."





B. S. IN M. E.

PAUL KADEL BROWN

Test of 25 H. P. Smith Anthracite Suction Gas Producer.

Phi Kappa Sigma; Radical X; Sphinx; A. S. M. E.; Social Committee '09-'10; Chairman '11-'13; Class Secretarv '10-'11; Mgr. Tennis Tournament; Glee Club '10-'12, leader '11-'12; Quartette '11-'13; Chief Marshall Junior Week; Bus. Mgr. Fulcrum '12-'13.

Paul's working qualities were recognized as soon as he came among us, and immediately offices were showered upon him as the above list shows. He has the gift of song for which his class mates will ever remember him.

GEORGE FLEMING IRVING

Effect on Speed and Economy of Varying the Weights of Governor Balls on a Simple Corliss Engine.

Omega Lambda; A. S. M. E.; Y. M. C. A.

George is one of our most congenial fellows with a sense of humor that is all his own. It is whispered that he is quite a familiar figure in the social circles at Northwestern University. George is well known for his mature appreciation of men and ideas, a rare quality among young men.

JOHN WINTERCORN, JR.

Test of 25 H. P. Smith Anthracite Suction Gas Producer.

Tau Beta Pi; A. S. M. E.

John's integrity is unquestionable for he even refused to "crib" in Economics. Despite this, John is one of those brilliant students who combine horse sense with their knowledge. As an engineer he is bound to be a success, for although he is quiet and unassuming, he is there with the goods.

ADOLPH FREDERICK FORS

Test of 40 H. P. Halladay Automobile Chassis.

A. S. M. E., Y. M C. A.

Somewhere there is a romance connected with the life of our Adonis, Adolph Fors. In spite of this saddening tinge in his life, Adolph always appears cheerful. He is highly accommodating, and in college phraseology, is termed a mighty good scout.

JESSE DUDLEY BRADFORD

Installation and Test of Three-Ton York Ice Plant.

Tau Beta Pi; Sphinx; Bus. Mgr. Armour Engineer '12-'13; Vice-pres. A. S. M. E. '11-'13.

Bradford's temperament is peculiarly susceptible to song, particularly so if rendered by the charming young lady of his acquaintance. He no sooner met her, we are told, than life began to assume a new aspect. What a splendid theme here for a novel entitled "Calculus, Woman and Song."

B. S. IN M. E.



BREWSTER HOVENDEN JARVIS

Investigation of Economical Banking of Fires with Green Chain Grate Stoker.

Tau Beta Pi; A. S. M. E.; Junior Play.

Advertising Mgr. Cycle; Fulcrum Staff '12-'13.

Not only in scholarship but also in the activities supplemental to student life has this young gentleman excelled. The old theory that the good student is necessarily a grind is here disproved, for Jarvis seldom misses any of our social affairs and is well known as a good scout.

CHARLES FREDERICK KEHR

Effect on Carburetion of Varying Conditions in the Intake Manifold on an Automobile Motor.

A. S. M. E.

After being properly subdued, Charles turned around and became one of the men who do things. His pet specialty is boiler testing, and the way he does it is a wonder. He can knock the scale off boilers by talking to them, and he wins a girl's heart in the same way. Everybody has a good word for Charlie, the faculty included.

DONALD ADAMS DROZESKI

Heat Treatment of Alloy Steels.

Tau Beta Pi; Omega Lambda; A. S. M. E.; Junior Play; Class Treasurer '12-'13.

With a disposition such as "Don" possesses, it is not at all surprising that he received the most important office of class treasurer. Don has no trouble at all collecting dues. He is a mighty good mixer and has the knack of making friends easily.

OSCAR GEORGE SCHMIEMAN

Stratification of Gases in Two-Cycle Engines.

A. S. M. E.

Schmieman is a quiet young man of rather a serious turn of mind. He surprised us all by appearing at one of the dances recently, the surprise being his unlooked-for proficiency in the art of dancing. Schmieman is a good worker, thorough, willing and reliable.

ALFRED WALBER SEMERACK

Test of a 40 H. P. Halladay Automobile Chassis.

A. S. M. E.

"Wie gehts?" "Ganz wohl." Hail the man from Germany. We cannot understand how he was ever allowed to leave that country for surely it needs a man who is as smart as a whip. "Semy" deserves more credit than most of the fellows for getting through college for he has had to supply the necessary coin himself.



B. S. IN M. E.

ALEXANDER FRANCIS ROBERTSON

Installation and Test of Three-Ton York Ice Plant.
Treasurer A. S. M. E. '12-'13; Y. M. C. A.; Junior Play.

To Robertson might well be applied the term, "gentleman and scholar." Rob is one of those conscientious, hard-working young men who still have a little time for their fellows. It is a credit to our class that it numbers men of this type.

IRWIN NEWMAN

Installation and Test of Three-Ton York Ice Plant.
A. S. M. E.; Y. M. C. A.

Newman is one of our bright young men famous for his ability to ask questions about engineering problems. But even this dutiful son finds it hard to decide between an engineering meeting and a dance when the two occur on the same night, the dance invariably winning out.

PETER OSCAR EDWIN JOHNSON

Effect on Speed and Economy of Varying the Weights of Governor Balls on a Simple Corliss Engine.
A. S. M. E.

"Eddie," the talk of the town, is by far the best known man in his class. His keen wit and good nature have done much to immortalize him, and the way he gets there without any apparent work is beyond imagination. As cheermaster for the class he has always been conspicuous for his absence.

KASIMIR GUGIS

Heat Transmission Through Insulating Materials.
A. S. M. E.

The air of distinction and grand manner habitual with Gugis have earned him the title of "Count." Gugis has traveled a great deal and is an accomplished linguist. He is a hard worker and good fellow as well, a combination which seldom fails to get results.

NICHOLAS VANDERKIEFT

Resilience Test of Automobile Tires Under Commercial Conditions of Operation.
A. S. M. E.; Glee Club '11-'12; Tech Track '11-'12.

Vanderkieft's good nature and bubbling good humor shines in his contenance. He has done very good work on the track team and is one of Coach Schommer's mainstays for this season. Van is also a singer of quality and is altogether a right sociable fellow.

B. S. IN M. E.



HUGO RICHARD KUEHN

Test of a 40 H. P. Halladay Automobile Chassis.
A. S. M. E. Secretary '12-'13.

As a conscientious worker Kuehn is certainly one of the foremost in the class. But Kuehn is not all work. He attends all our smokers, banquets and dances, and is an all around good fellow. He is a thorough student with a highly creditable record.

WILLIAM HOWARD YORKE

Resilience Tests of Automobile Tires under Commercial Conditions of Operation.
A. S. M. E., Y. M. C. A.

Yorke surprised his associates by giving up "fussing" entirely when he reached his senior year. He still attends all of the social affairs; but his demeanor, previously characteristic of the college sport, now exhibits that polish indicative of a man of maturity and refinement. Who is she, Yorke?

CLIFFORD MILTON LARSON

Influence of the Rate of Flow of Oils on the Coefficient of Friction.
A. S. M. E.

It is still a mystery to us why the friends of Clifford Milton Larson call him by the peculiar name of "Gucks." We do not think the name descriptive of his youth, for it sounds barbarous and harsh, whereas we have ever found Clifford gentle and amiable, and altogether a fine fellow.

DANIEL MONROE STUMP

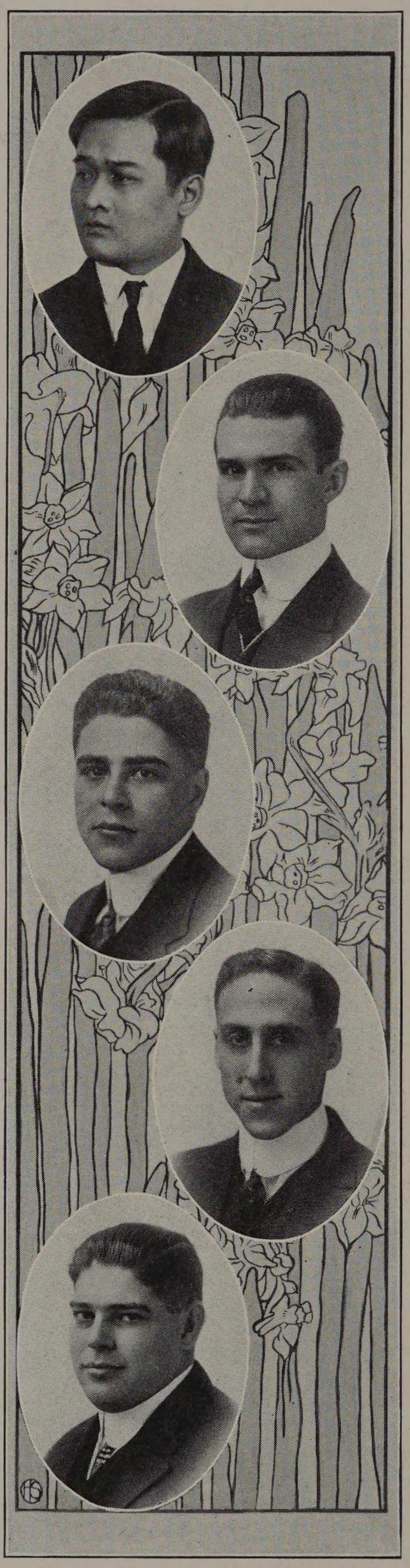
Construction and Comparative Tests of a Four Cycle Gasoline Engine Arranged to Operate With and Without an Augmented Charge of Air.
A. S. M. E.

Ever since Dan obtained his motorcycle he has become possessed of a speed mania. The desire for speed attends him everywhere and particularly in quizzes. Stump generally hands in his little yellow book while the rest of the class are sharpening their pencils preparatory to beginning.

YUK WONG

Test of the Tensile Strength of Different Sizes of Commercial Wire.

Wong has been a student at Armour off and on since he entered the Academy in 1904. This unassuming young man is an active member of the following Chinese Student organizations: Pres. Chicago Chinese Club; Director Chinese Engineering Student Society, '10-'14; member Chinese Student Alliance in America.



B. S. IN M. E.

MUN SUN TONG

Analysis of Chinese Coal.
A. S. M. E.
Tong has been hampered all along by an inefficient preparation and has been forced to put unusual efforts in order to master his studies. But this he did finally, and is now graduating with a creditable record.

B. S. IN E. E.

WARREN FRANCIS FRYBURG

Magneto Testing and Design.
Radical X.
Chairman A. I. E. E.; Social Committee. Junior Play.
Fryburg informs us that he has ridden many a bucking broncho but we can't figure out for the life of us how he does it. However he has ruled A. I. E. E., so why not a broncho which is tame in comparison.

RUDOLPH E. FISCHEL

Study of Distribution Curves of Lamps and Reflectors with Arc Light Photometer.
A. I. E. E.
It has been ruumored that our friend Rudolph is to migrate to other climes at the end of his school career because of heart trouble. The man who loves and runs away will live to love another day. We extend our hearty wishes for his success.

ALBERT LEE ARENBERG

Study of Distribution Curves of Lamps and Reflectors with Arc Light Photometer.
A. I. E. E. Class Basketball, '10-'11, '12; Tennis Championship '09, '11; Tech Track '12.
Birds of a feather flock together. That is why our friend Albert is never seen without his "fidus Achates," Fischel. Albert has brought honor to the class by winning several tennis championships.

JOSEPH S. EHRMAN

Hydro-Electric Development on the West Branch of the Penobscot in Maine.
A. I. E. E.
When a person has been unanimously elected Sergeant-at-Arms for four consecutive years you can surmise in what respect and reverence our esteemed friend Joseph is held. Mass makes might and might makes right so our friend Joe will have no trouble in trending his way through this world.

B. S. IN E. E.



MARSTON CURTIS

Proposed Hydro-Electric Development on the Desplaines River at Channahon, Ill.

Eta Kappa Nu; Y. M. C. A.; A. I. E. E. Chairman Pin Committee '13.

Mr. Curtis is a demure sort of person and reminds us of a shy little girl who does not like to give up information concerning himself personally. Curtis is one of the Electricals who take their physical exercise during electric lab periods.

WALTER GILMORE STANSEL

Proposed Hydro-Electric Development on the Desplaines River at Channahon, Ill.

Eta Kappa Nu; A. I. E. E.; Junior Play.

W. G. S.—which stands for "World's Greatest Scout" —is busily engaged in pursuing those two alluring unknowns, femininity and electricity, but by use of determination and perseverance most of his successes have been of the latter variety. All of which proves that electricity is easier to subdue.

FREDERICK THEODORE BANGS

Design of Proposed Hydro-Electric Development on Box Canyon Creek, Idaho.

Tau Beta Pi; Eta Kappa Nu; A. I. E. E.; Sphinx.

Assistant Editor Armour Engineer '11-'12, Editor '12-'13; Usher 1912 Commencement.

The powers that be! It is unnecessary to state what our friend Bangs has accomplished for we all read the Armour Engineer. The success of that paper means the ability of Armour men to do things.

EMIL A. HAGER

Design of Proposed Hydro-Electric Development on Box Canyon Creek, Idaho.

Eta Kappa Nu; A. I. E. E.

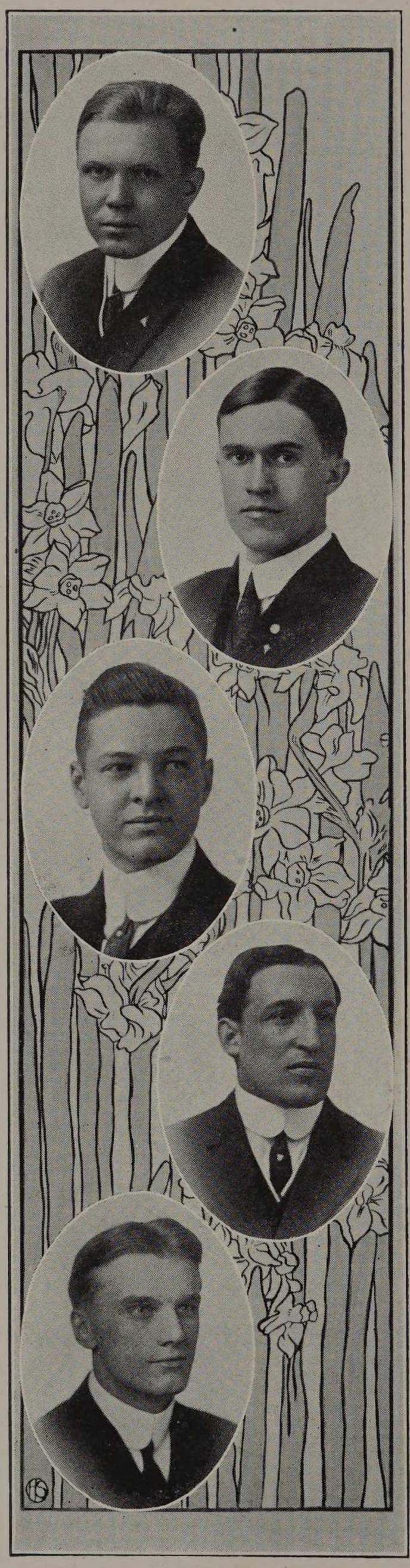
"Hello, Steve!" "Well, how did you get here so early?" "No Electric Rys.?" "No?" "Gee, could have slept an hour longer." But he is not asleep all the time. He has his period of rest like all other human beings and when he works he accomplishes something. That's more than we can say for quite a few.

RAYMOND L. WALSH

Proposed Hydro-Electric Development on the Penobscot River, Maine.

Delta Tau Delta; Eta Kappa Nu; Secretary A. I. E. E.; Vice-Pres. Y. M. C. A. '11-'12; Class Basketball 4 years; Tech Basketball '11-'12, '12-'13; Tech Track '12-'13; Class Track '12.

Walsh has been very active in athletics and has won honors for his class. The man who has to run a mile but goes a mile and a half—well he will have to walk back, that's all.



B. S. IN E. E.

WILLIAM C. MANN

Design of a Power Plant and Transmission Line for an Interurban Railway.

A. I. E. E.; Cycle Representative; Class Baseball '12; Junior Play.

Bill is one of the noisiest products ever turned out at the Institute. Besides being Fryburg's speciai Nemesis he is a cheerful attendant at all Armour affairs where he always makes his presence felt if not heard.

WALTER B. ARP

Design of a Power Plant and Transmission Line for an Interurban Railway.

A. I. E. E.

All our surplus energy has been exerted to find out what that "B" stands for. We have gone back to the time when the Babylonians were at the height of their civilization, and on their ancient clay tablets we found that "B" stands for Bopebus and so this stands on our records also. Veni, vidi, vici.

PHILIP AUBREY COPENHAVER

Magneto Testing and Designing.

Delta Tau Delta; Radical X; Sphinx; A. I. E. E. Treas. '12-'13. Tech Basketball 4 years; Class Baseball '09-'13; Fulcrum Staff '10-'13.

There is nothing like superiority no matter in what line, and as Cope has upheld the athletic end of our class we must congratulate him on his success. If he carries the same "pep" and stick-to-it-tiveness into his chosen work success will come easy.

CHARLES KOPALD

Design of a Power Plant and Transmission Line for an Interurban Railway.

A. I. E. E.; Mandolin Club; Tech Track.

The Anglo-Saxons boast of their strong men of prehistoric time, but they have nothing on us in these modern days. A man of sound body and sound mind will be physically capable of warding off all impending dangers, and our friend Charley has both.

B. S. IN C. E.

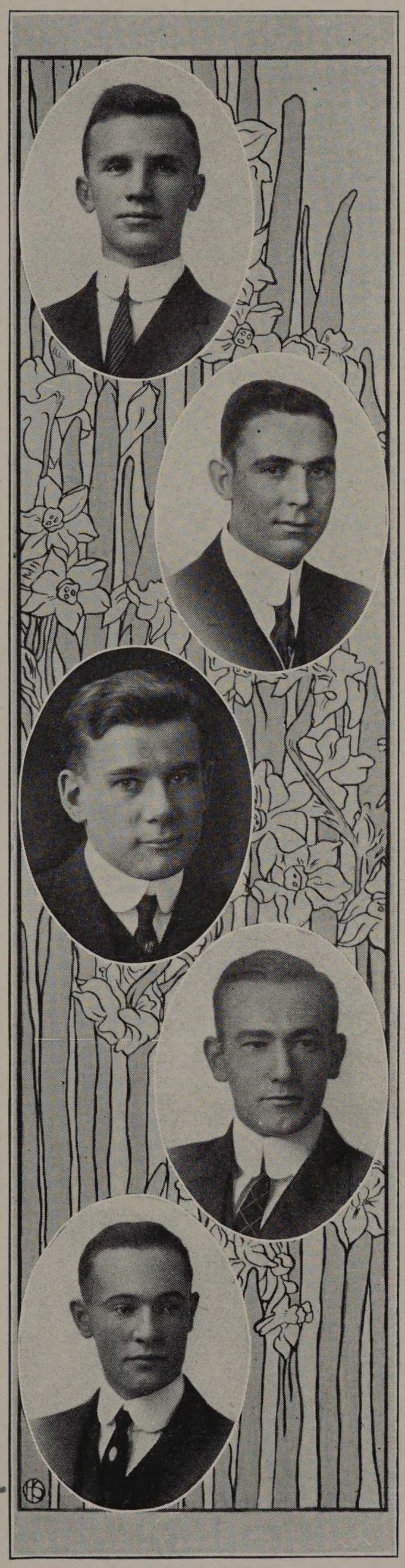
ARTHUR CARL LILL

Hydro-Electric Development on the West Branch of the Penobscot River in Maine.

A. I. E. E.; A. C. E. S

"Alternating Current" Lill is our only Hydro-Electric and it's up to him to bring fame to the class along that line. Lill will argue on anything at all and can advance satisfactory explanations for all ordinary phenomena.

B. S. IN C. E.



AUGUST C. CRAMER

Proposed Hydro-Electric Development at French's Mills, N. Y.

Tau Beta Pi; Sphinx; Vice-President Class '11-'12, '12-'13; President A. C. E. S.; President Y. M. C. A. 1912; Associate Editor Cycle.

Gus has received his share of honors during his four year term at Armour. He would have to be placed among the first on a list of those who have won the respect of their class-mates.

JOHN T. LUCAS

Proposed Hydro-Electric Development at French's Mills, N. Y.

Tau Beta Pi; Treasurer A. C. E. S. '12-'13.

Here we have another wonder who likes music with his meals. John's long suit is handling money. He has been treasurer of about every organization he belongs to, except the college itself. Just to hear John's husky voice lets you know that he is one to be reckoned with.

JOHN J. AEBERLY

Influence of Varying Spiral Reinforcing in Columns.

Delta Tau Delta; Radical X; A. C. E. S.; Y. M. C. A.

John has broken all records for speed for he completed the course in three years and is living yet. He is one of those men who first lay their plans and then go after the thing and get it done. After graduation he has a great big job mapped out for himself involving a life partnership but that will be easy for him.

HERBERT S. WALIN

Three Span Reinforced Concrete Arch Bridge.

Tau Beta Pi; Sigma Kappa Delta; A. C. E. S.; Cycle Representative; Social Committee '12-'13; Class Baseball.

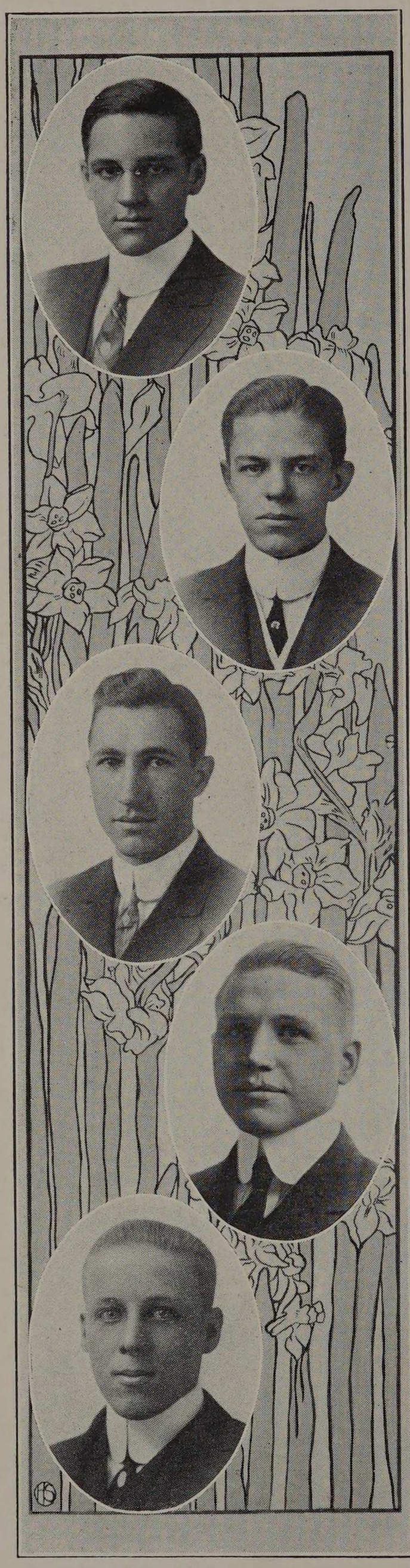
Herb's discovery of "uniform bending moment" is enough to insure him lasting fame. Always good natured and ready for anything; he likes to see things move and is always on the jump. Since his dad bought a machine Herb has to resist daily the temptation of a certain P. O. E. to go off for a joy ride.

JOHN LOGAN STEWART

Design of a Suspension Bridge.

Delta Tau Delta; Radical X; A. C. E. S.; Class Baseball '09; Class Basketball '12.

If you want to learn to yawn and yawn right, just watch Jack do it. He says himself that he would rather sleep than eat. Even though a great deal of his time has been taken up with the gentler sex, Jack managed to draw some good marks in his studies. He is what we ordinarily would term a prince of a fellow.



B. S. IN C. E.

RAYMOND JOSEPH KOCH

Three Span Reinforced Concrete Arch Bridge.
Delta Tau Delta; Tau Beta Pi; Radical X; Corresponding Secretary A. C. E. S. '12-'13.
Ray, alias "Pete Bartzen", has shown himself to be one of the big demons of the class. Work comes natural to him and he is the official pace setter of the Civil drafting room. When he manages to slip one over on O. C. B. he is cheerful for the rest of the day. Ray is also some fusser and a "bear" at dancing.

PAUL FREDERICK GREIFENHAGEN

Three Span Reinforced Concrete Arch Bridge.
Delta Tau Delta; Tau Beta Pi; Radical X; A. C. E. S.
"Greif," the other half of Koch, and one of the shining lights of the class, spent two years at the University of Wisconsin before realizing he was in the wrong place. He has since effected a combination with Koch and is one of the pace makers. However Greif is always seen at the various social affairs.

PAUL NELS RYLANDER

Concrete Grain Elevator.
A. C. E. S.; Y. M. C. A.
"Rye" entered Armour with the class of '12, but because of his belief in the advantages of mixing the practical with the theoretical, he left school for a year to work in a drafting room. Rye is not an habitual fusser, but if rumors can be relied upon he will soon be facing the problem of the high cost of living.

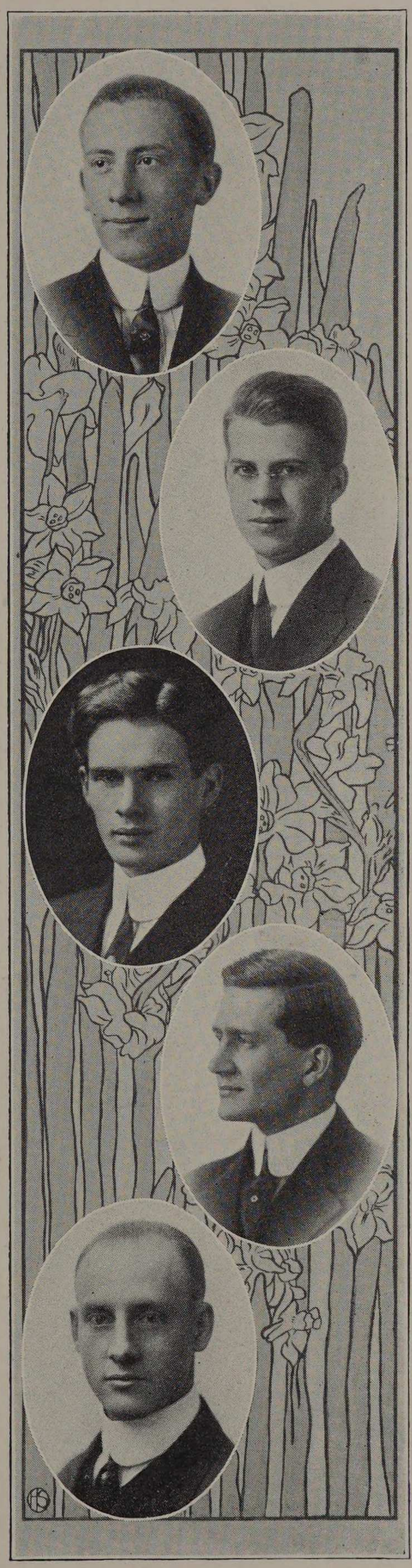
ELWOOD OSBEN LANGILL

Design of a Concrete Chimney.
Class Baseball.
Langill came from the "Coed Institution," and has not yet entirely severed his connections with one particular course in its curriculum. His first act was to enter into partnership with "Westy" as Consulting Engineers, which firm has met with marked success in all their enterprises.

EDWIN GEORGE WESTLUND

Design of a Concrete Chimney.
Class Baseball.
The history of "Westy's" career runs hand in hand with that of his inseparable friend Langill. Ever since they were seen cavorting around the keystone sack at summer camp they have been displaying the same old team work around the Institute.

B. S. IN C. E.



GEORGE LIONEL OPPER

Sewer System for Peotone, Ill.

Omega Lambda; Tau Beta Pi; A. C. E. S.; Sub Fresh. Basketball; Mgr. Class Basketball '12; Mgr. Tech Track '11-'12.

Don't make the mistake of believing that this gentleman is as ferocious as his middle name implies. "Bunney" doesn't make a big noise to let you know that he's on the job, nevertheless the man who thinks he can get the best of George will have to get up mighty early in the morning.

ROSCOE DOOLITTLE WILLIAMS

Power Development on the Desplaines River at Dresden Heights, Ill.

Omega Lambda; A. C. E. S.; Mgr. Tennis Tournament '11-'12; Glee Club '11-'12.

Does he Doolittle? Well that's where Roscoe surprises his elders. Has anyone seen him around school when he wasn't busy, except during Electric Lab? But we can't blame him for that as Wood is a member of the same party.

HENRY FRED ISRAEL

Sewer System Peotone, Ill.

Tau Beta Pi; Rec. Secy, A. C. E. S.; Class Secretary '11-'12; Sub Fresh. Basketball '09, Baseball '08-'10; Tech Baseball '11-'12; Class Baseball '09-'12; Basketball '09-'12; Baseball Mgr. '10-'13.

"Izzy" has always been a busy man around school as his evenings are all taken up with matters of the heart. It is not often you find a man who has devoted so much time to athletics and vet has made Tau Beta Pi.

JOHN THORWALD FIELDSETH

Design of Sewer System for Glen Ellyn, Ill.

A. C. E. S.

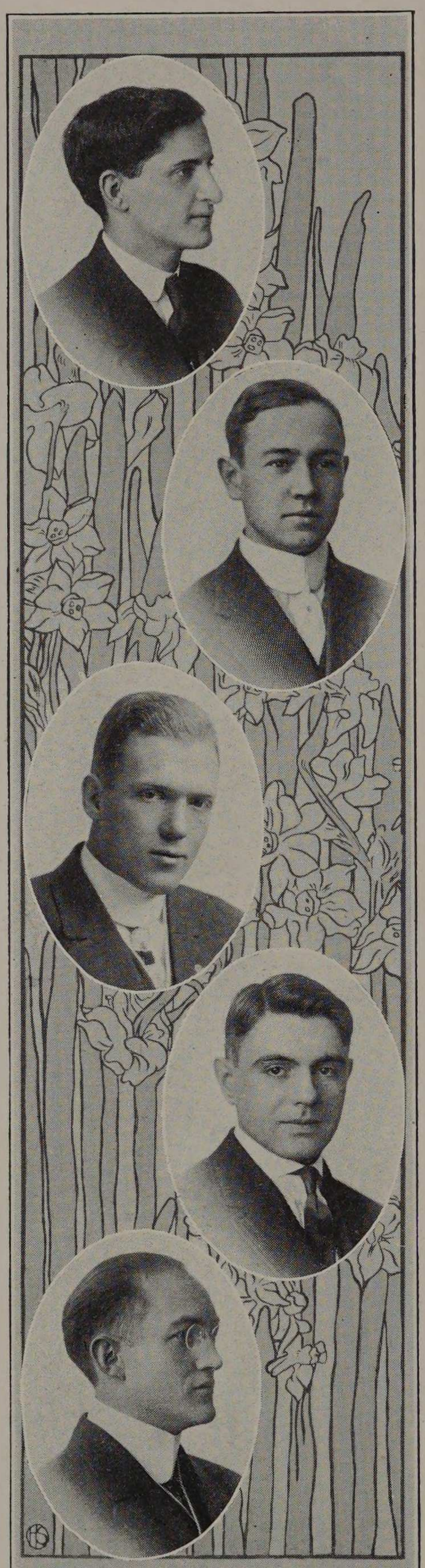
John hails from "Maryland, My Maryland." He is a man of practical ideas—"nothing like experience" is his motto—and he practices it all he can during summer vacations. Since girls all look alike to John, we have come to the conclusion that he is a confirmed bachelor.

BERNARD PHILLIPS

Design of Sewer System for Glen Ellyn, Ill.

A. C. E. S.; Y. M. C. A.; Class Baseball

Bernard comes from the pride of Illinois—Pullman. Hearing that engineers all become millionaires he entered Armour in 1909. Bernard is quite accomplished in the art of winning a lady's love. In all seriousness we say that several of his feminine friends have written Laura Jean Libby for advice.



B. S. IN C. E.

FELIX AMADOR TRUJILLO

Design of Sewer System for Glen Ellyn, Ill.

A. C. E. S.

When Felix receives his diploma he says he's going to beat it right back to Cuba. He has a drag with the government and is going to land a political job. Don't be surprised if in a few years you hear war has been declared between the U. S. and Cuba.

JOSEPH LEO FARRELLEY

Estimate of Cost of a Concrete Building.

A. C. E. S.

Farrelley, or the "Terrible Turk," hails from the wilds of West Pullman. His original worry has been to keep "Skinner" Leibrandt from slipping something over on him. When Turk gets mad, it's time to look out—he says so himself. Nevertheless he has gained his sheepskin by faithful and hard work.

CARL WILLIAM GARRISON

Design of Concrete Brick Plant, Capacity 80,000 Per Day.

Delta Tau Delta; Sphinx; A. C. E. S.; Glee Club '10 '12; Social Committee '08-'12; Bowling Mgr. '08-'09; Business Mgr. Fulcrum '10-'11; Marshall Junior Week; Class Basketball 3 years.

"Garry" was an active member of the class of '12. He has been spending this last semester in finishing up a few studies which he has to complete before the powers that be will hand him his papers.

GUY C. PITTS

Influence of Varying Spiral Reinforcing in Columns.

Y. M. C. A.

The fact that Guy is a member of the Y. M. C. A. shows that he is capable of anything if he but makes up his mind. Because his evenings have been devoted to the service of the Chicago Telephone Co., he has not had much time for social matters. However Guy is past that stage for even now some one calls him papa.

GEORGE ALBERT ANDERSON

Estimate of Cost of Concrete Building.

Sphinx; A. C. E. S.; Treasurer '12 Class '08-'09; Social Committee '09-'10; Editor in Chief Fulcrum '10-'11; Managing Editor '11-'12; Glee and Mandolin Club 3 years.

George would have graduated last year but he lost out on account of an attack of typhoid. He is right at home when manipulating the fiddle and his orchestra has been supplying the excellent music at this year's Armour dances.

B. S. IN C. E.



RICHARD F. ROTHWELL

Heat Treatment of Steel.
A. C. E. S.; Dept. Secretary Y. M. C. A. 2½ years.
Dick has been the official secretary of the Y. M. C. A. for more than two years. Since the "Y. M." acquired the Chapin Club Rooms, he has become the "nickel first" man around the billiard table. The present high standing of the Armour Y. M. C. A. is due to Dick's hard work and perseverance.

PHILIP MEYER

Power Development on Desplaines River at Dresden Heights, Ill.
A. C. E. S.; Y. M. C. A.; Class Baseball 4 years.
Whenever Phil finds time hanging on his hands he scurries around and takes a civil service exam. He surprised us all bv being the dark horse in the first "Y. M." Billiard Tournament. His duty in Wood's Electric Lab party is to keep Prof. Marsh in a pleasant humor.

JOHN A. WOOD

Proposed Hydro-Electric Development at French's Mills, N. Y.
Tau Beta Pi; Y. M. C. A.; A. C. E. S.
"Holz" is another of the boys who can prove the three moment theorem backwards. Another place where he shows his capacity is at a banquet. His Electric Lab Party is duly incorporated with a constitution and by-laws, and as "Holz" was the promoter of the idea he has been delegated to do all the work.

ORVILLE CHESTER BADGER

Design of a Suspension Bridge.
Sigma Kappa Delta; A. C. E. S.; Class Baseball 4 years.
Badger is some hustler, as the Civils will all tell you—his great ambition being to keep even with Koch and Greif in the drafting room. It is a mystery how he can keep beating it out to Oak Park to make a call and then come down with a couple of bridges and lab experiments written up over night.

CHARLES RAYMOND LEIBRANDT

Reinforced Concrete Building.
A. C. E. S.; Class Baseball '10-'13; Asst. Bus. Mgr. Armour Engineer '11-'12.
"Skinner's" mental faculties seemed to have been very inert until he was "beaned" by a young rube pitcher at Stephenson, Mich. After this he showed a marked improvement, and on the demise of Mark Peiser as President of the Corporation of Intellectual Dummies, Skinner was unanimously chosen for the honorary position.



B. S. IN C. E.

LEO P. KORNFELD

Design of a Concrete Brick Plant, Capacity 80,000 per Day.

A. C. E. S.

During the last year Leo has been holding down a job while attending school, so he has been pretty busy. He is quite an adept at golf and you will find him quite often going the rounds of the Jackson Park links.

B. S. IN CH. E.

WILLIAM KIRK MUNN

Test of Nickel Chromium Electrodes in Potassium Chlorate Manufacture.

Tau Beta Pi; President A. Ch. E. S.

Deadwood suggests that Bill must be a "bad man". This is a most erroneous idea, however, for he has always been one of the most even tempered, tactful, and diplomatic men in the class. He has never been observed following the ponies. Great things may well be expected from the only chemical "Tau Bet" man.

WILLIAM CARL BUTTNER

New Mehod for Fixation of Atmospheric Nitrogen.

Phi Kappa Sigma, Radical X; A. Ch. E. S.; Social Committee, '10, '11, '12, '13, chairman '10-'11. Treasurer A. Ch. E. S.; "Leading Lady" in Junior Play, "Emergency Coed"; Cycle representative.

Billy has been "2B Buttner" since his freshman days. Bill starred as Janet, and has succeeded, by dint of general merit in getting his fingers into about everything at Armour. He has always been one of our social lions.

PETER JOHN KNAUS

New Method for Fixation of Atmospheric Nitrogen.

A. Ch. E. S.

"Pete" classifies with those who like to work and see others work. If he does not eventually win out it will not be because of lack of energy. He ought to make good.

FONTENELLE LOGAN MOORE

Test of Nickel Chromium Electrodes in Potassium Chlorate Manufacture.

Radical X; Vice-President A. Ch. E. S.

Moore's success with the ladies is said to be phenomenal. It may be remarked that this information is indirect, for "Font" has always minded his own business and expected others to do likewise. His dignity has helped the A. Ch. E. S.

B. S. IN CH. E.

WALTER LEWIS MARX

The Yield of Acetic Acid as Influenced by Temperature in Wood Distillation.

A. Ch. E. S.; Pin Committee.

"Wall" has always been a hard man to put one over on and has always displayed great diplomacy in the class room. Only the misfortune of illness prevented the use of some of his musical compositions in the "Emergency Coed".

ADOLPH JOHN SCHUTTE

A New Electrolyte for Copper Refining.

A. Ch. E. S.

Schutte has usually known what he wanted. Though he sometimes did not get it, here's hoping that better luck will attend his efforts after graduation. His seriousness ought to succeed.

ROBERT SEBASTIAN ZIEHN

A New Electrolyte for Copper Refining.

Secretary A. Ch. E. S.

Though Ziehn has sometimes seemed rather hard to suit, he has managed his four years at A. I. T. with no remarkable storms. He may be remarked as being out of the ordinary.

B. S. IN F. P. E.

CHARLES HARRY ARNOLD

Relative Hazards of Chlorates and Nitrates.

Phi Kappa Sigma; Radical X; Nat. F. P. Assn., Social Committee '10, '11, '12, Freshman Smoker, '11-'12, Chairman '12-'13, Junior Play, Cycle Representative.

Harry is an efficient chap, almost in a class by himself—except for "Bud" Holden. He is a most successful "fusser", and it is rumored that he has already met "her". If there is any truth in the rumor she is lucky.

ALBERT FREDERICK HOLDEN, JR.

Relative Hazards of Chlorates and Nitrates.

Delta Tau Delta; Tech Track, '09, '10, '11, '12, '13; Captain '11-'12; Class Track, '10-'11; Class Basketball, '09, '10, '11, '12, '13.

"Bud" is a courteous youth, rather difficult to approach. Some say that you must talk business law to warm him up. Law is the basis of his life, which probably accounts for the fact that he is the only financier in the class of '13. His track record explains his speedy appearance.





B. S. IN A.

RALPH M. CROW

A Metropolitan Department Store.

Massier of Atelier, '12-'13; Tau Beta Pi; Alpha Delta Tau.

Ralph (better known as Pat) is so perfectly poised that he can listen to Lautz eat an apple without being at all disturbed. Besides being a star designer, he knows enough about mathematics to be an engineer, which combination is practically unique. Ralph has one other great virtue—he has never attempted to sing in public.

JACOB H. BISCHOF

A Cultural Center for Chicago on the North Shore.

Tau Beta Pi; Alpha Delta Tau; Atelier Treasurer; Junior Play; Usher Commencement '12; Cycle Representative.

Jake is interested in many subjects besides his profession, especially Gardens. Through his excellent work on the Publicity Committee the Atelier made the first page of the dailies several times recently. Besides winning the Hutchinson Medal in 1912, Jake has become famed as traveler, actor and scribe.

JULIUS STEINDLER

Grand Opera House.

Atelier.

Julius, Count of the Purchasing Department, is one of the chief prides of the Atelier; for outside of his love for mathematics and passion for arguing with "Rolph," he is such a genius with the violin that he is commonly known as Mischa II. Julius is also a member of 1st Cavalry and cultivates a luxuriant "Hoch der Kaiser" moustache.

DON JAMES HAMILTON

A Base Ball Park.

Omega Lambda; Alpha Delta Tau; Radical X; Capt. Baseball '10-'11. Capt. Basketball '10-'11.

Don has made the Atelier famous through his great athletic abilities. Any day he wishes he can forget all about stresses and strains and plumbing diagrams and sign up as pitcher with any of the big leagues, but fortunately he looks upon the great national game as a pastime rather than a profession. It is rumored that our twirler is pricing furniture and carpets, but maybe that signifies nothing.

CLAUS D. LUNDBLAD

A Bank and Office Building.

Atelier.

It is not the usual thing for a man to leave Fatherland and friends behind, come to a strange country, and in a few years become so perfectly acclimated that there is no trace of strangeness or hesitancy about him. In many ways his presence has been of great benefit to the rest of us.

B. S. IN A.

JOSEPH B. LINDQUIST

A Gymnasium for a Large University.
Massier Atelier '12-'13; Capt. Baseball '11-'12; Fulcrum Representative '12-'13.
Occasionally one finds a man who is a true sportsman in life as well as in athletics—and such is Joe. Never serious, though always sincere, this hope of the white race ranks high as artist, athlete, student and comrade, but above all he stands supreme as the "Prince of Story Tellers."

ARCHBALD DWIGHT GIBBS

Development of a Civic Center and Garden City Suburb Adjoining a Large City.
Delta Tau Delta; Social Representative Atelier '11-'12.
"Dwight Lloyd Wright" may well be called the ornament of the class, for where else can such a combination of good looks, clever talk, excellent taste and high colorature notes be found? To describe Dwight's personal charms would necessitate beginning with the moustache Parisienne and proceeding down to his cute Cinderella-like, number 7, "Martin & Martin's."

CONNELL FURAY

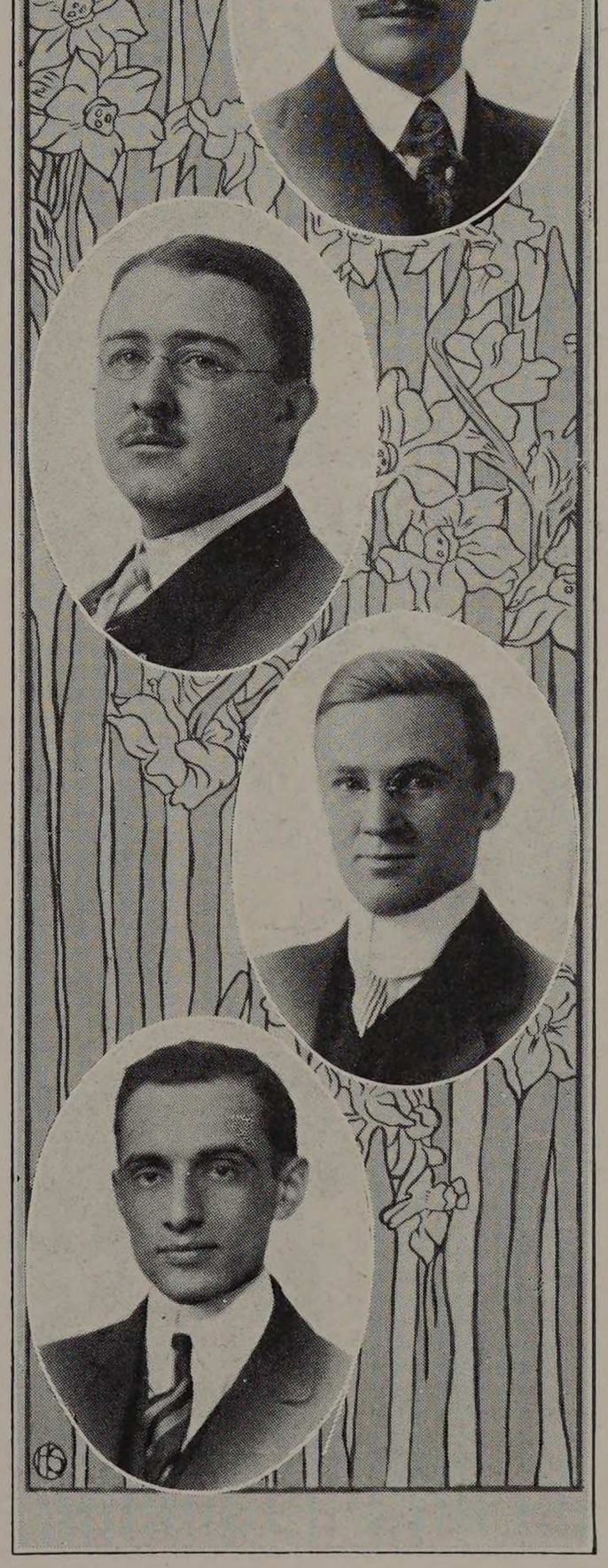
A Roman Catholic Church for a Parish of 1,000 Persons.
President Nebraska Club '12-'13; Atelier.
Connell is without doubt the best little plugger in the bunch and he never thinks of leaving work until everyone else is gone. Besides being one of the original members of the new class in construction he deserves great credit for "slipping one over" on Prof. Wilcox by taking a summer course in Physics at the U. of C.

CHARLES D. FAULKNER

Improvement of Grant Park.
Massier Atelier '10-'11, '11-'12; Alpha Delta Tau.
Charley is the last word in designing and is bound to take rank with Bramante and Sullivan. In 1912 he won the Home Traveling Scholarship and immediately hied himself off to Europe to study conditions there. The next best thing Charles does is eat—every morning promptly at 11 he drops all work and runs over to the "club" and smilingly returns at 2 P. M.

H. CADET STANLEY

Government Building and Court of Honor for the Panama Exposition.
Phi Gamma Delta; Alpha Delta Tau; Atelier, Glee Club.
Harry is rightly famous as a member of the w. k. Notoriety Committee, on which he has rendered splendid service. Among Cadet's other hobbies are oak pews, savings banks, pancake flour and the fair sex. In any one of these he will be a great success for he has "sure pleasing ways."





B. S. IN A.

ARTHUR A. WOERNER

A Country Club House.

Chairman Atelier Social Committee '12-'13; Marshal Junior Week '12; Senior Social Committee '12-'13.

"Lil Artha" is surely destined to become a great society leader for no one can surpass him in enthusiasm or willingness to work when it comes to giving a play or planning a "dance cabaret." Arthur is the proud possessor of a rich, mellow voice, and in his repertoire of impersonations there are many famous characters—chief of whom is Sophie Tucker.

EMIL ZILLMER

A Post Office for a Large City.

Omega Lambda; Sergeant-at-Arms Atelier '12.

Emil often imagines that Nature has been as kind to him as she was to Caruso, and hourly we are entertained with melodies a la mode. He gets away with it though, and even manages to be a great favorite with the co-eds "down in the cellar," where he is often seen strolling down the corridor with a bevy of blondes in his wake.

WILLIAM H. LAUTZ

A Group of Municipal Buildings.

Tau Beta Pi; Sigma Kappa Delta; Massier Senior Class '12-'13.

Bill's middle name is Sunshine and his motto is "Ich sollte sorgen." Nature has favored him with a giggle that is positively infectious. Bill's one ambition is to design a mammoth brewery and his theory is that a building is a building only when it has a dome.

WILLIAM T. BRAUN

Large Photoplay Theatre and Club for Allied Interests.

Atelier.

Bill has shown that an "architect can do anything," for outside of school hours he is a nickel show impresario, thereby earning enough money at night to enable him to be an architect by day (and not hunger). William has an eternal smile that spans his face from ear to ear, and not even the terrifying thud of Pa Shattuck's footsteps can eradicate it.

RALPH W. ERMELING

A Civic Welfare Center.

Treasurer Atelier '11-'12; Asst. Business Mgr. Armour Engineer '11-'12; Usher 1912 Commencement.

As an organist Ralph is a "bear," and as a framer of constitutions, John Hancock shrinks in comparison. As to class dues—well he certainly was fine as a collector. He has sure methods of attack; "he wants what he wants when he wants it," and almost daily he lays his claims before the deans or starts a reform petition.

Senior Class History

To the extent that the honourable deeds of mental and physical valour done and achieved by the class of '13 should notably be registered and put in perpetual remembrance, whereby the ambitious and aspiring may have an example to encourage them in their endeavours, we will treat and record a history of great prowess and hardy travail. But ere we begin our history, we beg that whoso this writing readeth or heareth may take not offense at the seeming indifference with which we treat of the fallacy of the "thirteen" superstition as has been plenteously proven by the deeds of this class.

It was on the seventh day of September in the first year of the reign of William Rex that there assembled at this institute of learning many brave and courageous youths who did inscribe their names on the covenant and likewise parted with much hard-earned coin of the realm. In number an hundred five and eighty, they passed the first days of their probation without fear or trembling inasmuch as the edict had gone forth that no longer should there be warring among the lower classes. In compliance with the customs of the times, they assembled themselves together that they might select them leaders. And after much turmoil and divers kinds of speech making was Simpson made lord and governor of the class. And a few days after, by the command of the learned Doctor, were all the classes gathered together that they might listen to the dulcet strains of the Protheroes and likewise much profit by the discourse of the Doctor. And when they were come together each class endeavored to discomfit the other by uttering divers kinds of yells of defiance and challenge. Inasmuch as these proceedings were new and strange to those of '13 they were sorely angered and annoyed that they could not join in the festivities. But certes, they intended to make all amends.

Hearing that the great and noble ruler of our land was to sojourn in our town on the sixteenth day of the same month, therefore the whole Tech with banners bravely flying and with glad cheer, proceeded to the king's highway that they might greet him and pay him homage. And again on the following night they were come to the Dining Hall on the far side of the clearing and there engaged in much shaking of hands and in sundry noises. Much glad cheer was here dispensed and those of '13 were welcomed right royally by the other classes. And now the upper classes ordained council among themselves whereby the whole Tech should meet at the Hall of Music called Oakland there to indulge in the obnoxious weed and be cheered by the entertainment there provided. Those of '13 did here wax prodigiously noisy wherefore the other classes did spitefully them reprove.

But indeed, during the first year of their sojourn at the Tech, those of '13 made a name for themselves by excelling in feats of skill and strength. Having swept everything before them on the diamond, they then proceeded to take first honors in the interclass basketball tournament. Herein the names of Hamilton, Simpson, Spencer and Lindquist were added to the athletic roll of honor. Evenso they found plentiful time wherein to absorb much knowledge and increase their good name among the powers that be. Their efforts were

of such great avail that very few succumbed at the semi-annual inquisition. Thus passed their first year, and that they might fittingly celebrate the completion of their arduous labors they gathered with the other classes at the Colonial Club where they spent several pleasant hours describing graceful parabolas and hyperboles to Benson's tuneful music. When the month of June was come the whole Tech disbanded to their various domiciles there to await the call to duty on the following September.

1911

With sadly depleted ranks those of '13 returned to the Tech in the fall resolved to carve a niche for the class on the smoke-covered heart of their alma mater. And now to the manner wise they chose as their leader, Weart who had been second in command during the year previous. Moreover they could now look down with scorn on those of '14 even like the lion at the mouse. And indeed they were likewise cheered by the news that the A. S. A. had perished during the summer vacation and that hereafter the yearly stipend for those desiring to enroll at the Tech had been increased ten pounds sterling. But now forsooth those of '13 must pay the penalty for scholarly proficiency inasmuch as their strength had been greatly sapped through hours of patient poring under the burning oil. They must needs be satisfied with second honors in the annual tournaments though it went sore against their grain. Quietly and peaceably those of '13 wooed the goddess of learning and became soon even wiser than their preceptors in their own imagination. At Christmas our leader was called to higher honors wherefore was Wald chosen leader to complete the year.

1912

And now again for the third time those of '13 came together, worn and battle-scarred, but greatly determined to win the conflict. Wise now in the ways of the world, they brought into the class meeting divers devices whereby they showed themselves exceedingly adept at matters politic. Using a heavy iron roller of vast size, they managed by great exertion to elect Adams as leader and all other officers from among the clan of Civils. Inasmuch as this was the year wherein a week is set apart that the Juniors might disport themselves and make merry, therefore were Brown and Woerner chosen to lead the festivities. In order that those of '13 might not lose their well-earned prestige in the field of sport they took first honors in the inter-class basket ball tournament and likewise third honors in baseball. And now at the invitation of the Doctor did the great and noble ruler of our land visit the Tech in the month of March and did deliver himself of an opinion regarding the cacchinations intended as joyous welcome. And anon came that week called Junior Week and those of '13 verily outdid all other classes. For every day in the week was something arranged to stir up the blood and keep up the good feeling. With baseball games, the great drama called "The Emergency Coed," the banquet at the University Club and the dance at Colonial Club they contrived to set a high mark for Junior Weeks that will be hard to surpass.

1913

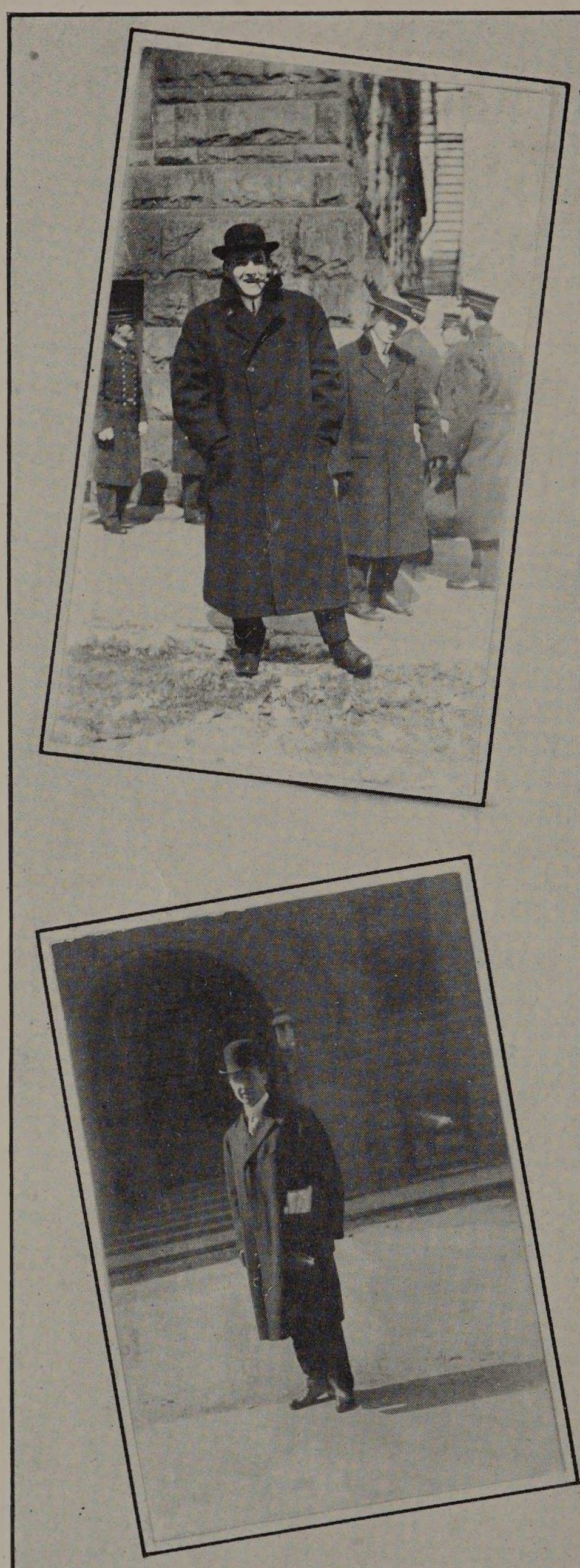
For the last time those of '13 hearkened to the call of knowledge to inscribe their names on the covenant. Much reduced were they in numbers, scarce five score in all but much heartened withal that the end was soon in sight. It now happened that the Mech. clan, being more experienced in matters politic, were enabled to fill almost all the offices from among their number by using the method learned from the Civils in the year preceding. Burley, huge of frame and enjoying much popularity, was acclaimed "first Senior at Armour" and full well has he performed his office. Inasmuch as those of '14 had prevailed upon the powers that be to consent to the reappearance of the redressed Integral, then did those of '13 abandon their own private book to join hands in producing the greater book and to share in the glory. (?)

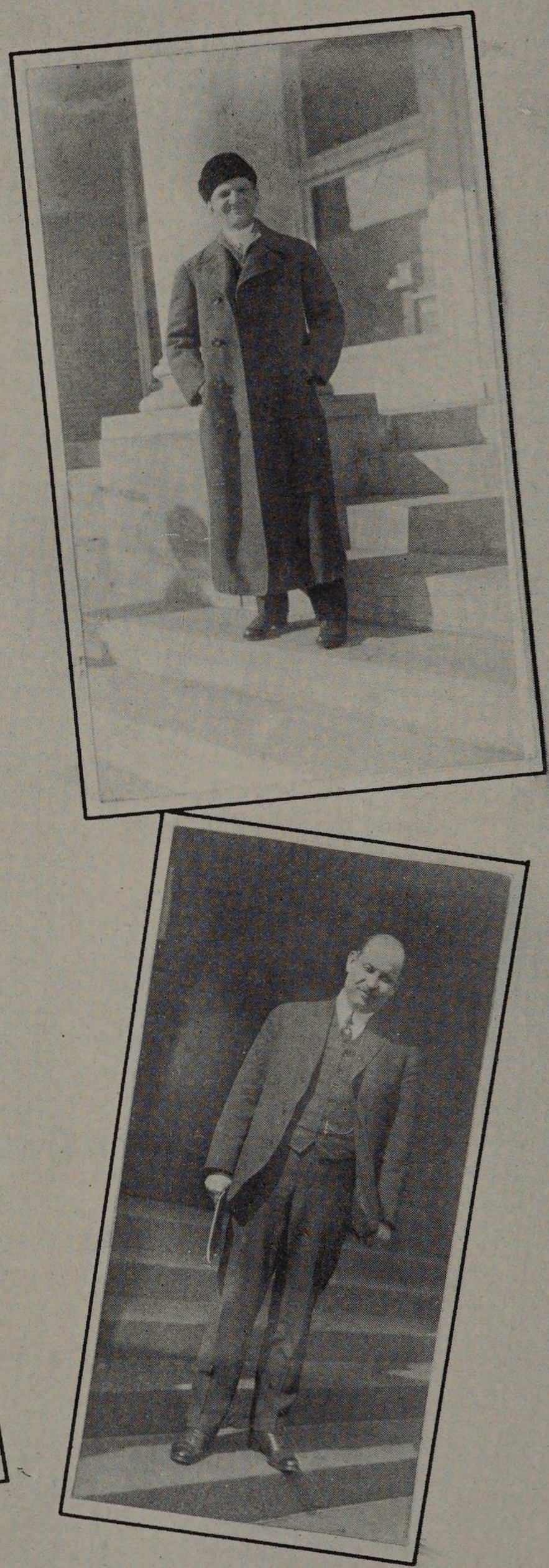
As befits the dignity of seniors, little time was spent in poring over books forasmuch as they were now well qualified to answer all questions from their own imagination. Between having their likenesses reproduced in gold and platinum and circumventing the collector of much moneys for manifold purposes, suffice it to say that those of '13 have spent a busy year. But the end approaches and those of '13 are impatiently waiting to show the expectant world how things should be run. Truly marvelous are the theses now in course of preparation and they will certainly reflect great credit on the imagination which has been so carefully and painstakingly cultivated during our term of four years at the Institute. Be that as it may, the class of '13 has made a name for itself among the archives of the Tech on account of its high grade of scholarship, proficiency in athletics, college loyalty, and various other qualities which need not be mentioned. Therefore, we can see naught ahead but fame and honor for those who were brave enough to withstand superstition and enroll with the class of '13.

LOST, STRAYED OR STOLEN

Below is a list of prominent members of the class of 1913 who started in with the class in 1909, but who, for various reasons, have left the Institute.

G. H. Adams
M. P. Allen
C. H. Crowell
E. L. Hoffman
H. D. Ingram
E. W. Rietz
D. E. Simpson
J. C. Wares
J. H. Hansen
N. V. Ahlvin
G. F. Ford
J. Lundberg
H. W. Valentine
D. L. Weart
H. S. Drew
R. F. Kirkham
R. M. Cole
G. F. Mooney





ARMOUR INSTITUTE OF TECHNOLOGY

LIFE'S

ENGINEERING LABORATORY

Report on

BEHAVIOR OF ARMOUR STOCK CARS IN FOUR YEAR.

ENDURANCE RUN.

MODELS:--- '13; -'14; -'15; -'16.

By The OBSERVER.

Experiment Performed 9/'09 to 5/'13

Report Presented May 31 1913

Returned for Correction Test on 1/3 Car OK & accepted.

Accepted Make further runs on '14 '15 & '16 cars—

SUBJECTS: Four "Armour" Stock cars (auto not freight), models '13, '14, '15, and '16 --- 8, 6, 4, and 2 cylinders respectively. Latter model recognized by distinct green hue.

APPARATUS: Fuel and Repair Pits, 33rd and Armour Ave.

Condensed Fuel," Text Book Grade.

Lubricating Oil, "Prof" Brand.

Deadmen's Curve at Ogden Field.

Quiz Curve adjacent to the Pony Stables.

METHOD: The runs commenced on 9/7/09, model '13 being accompanied by three other cars, '12, '11, and'10, these cars dropping out in their respective years, car '13 having swiped their gas. The runs were made in four periods of nine months each, the three intervening months being set aside to allow the crews to do enuf exhibition work to raise the necessary wherewithal for fuel, oil and accessories for the next run. The runs provided for physical and mental tests, altho' many of the latter were more of the former considering the amount of use made of the occupants of a certain stable. Tests of stability on a polished floor were run as often as the treasury allowed.

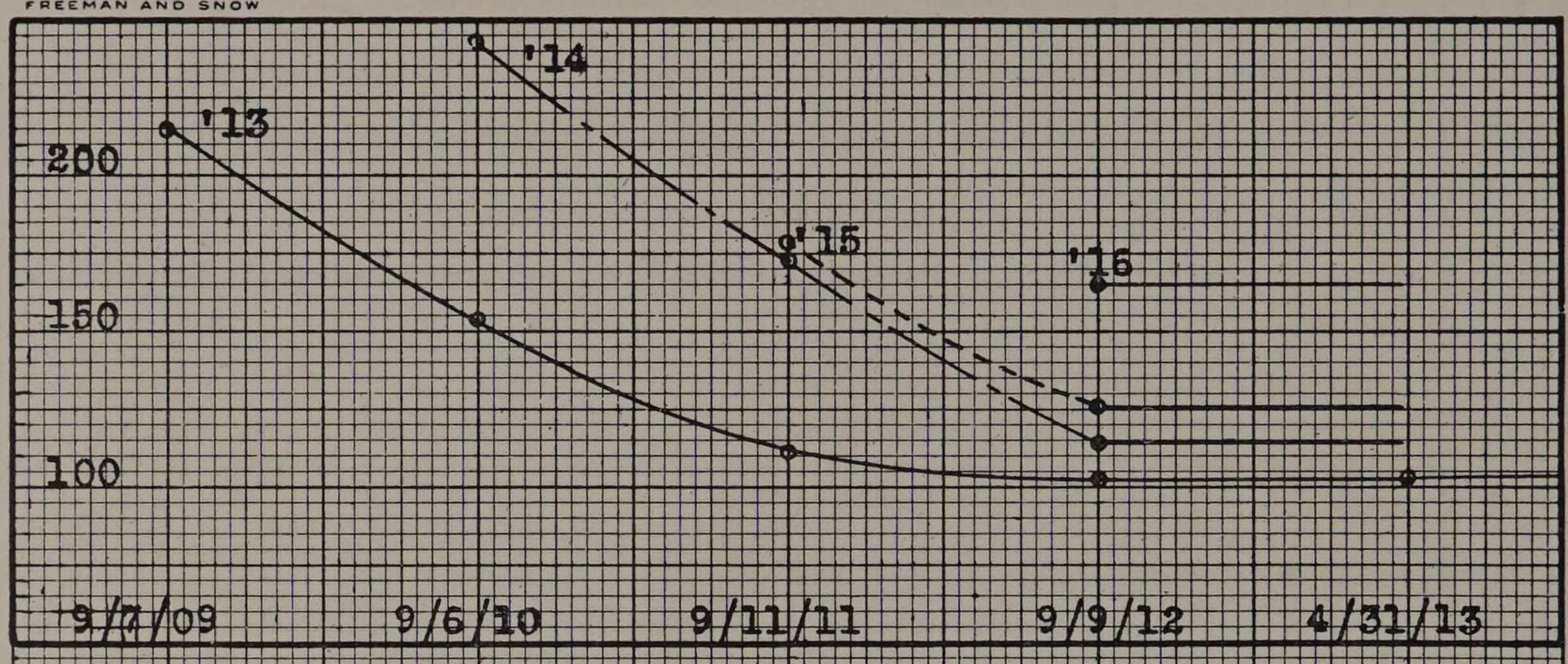
DISCUSSION: A perusal of the data and graph sheets show that '13 has an indeterminant piston displacement (meaning capacity) and a lively crew; and, as yet, that '16 is having some trouble with its forward speed transmission. From curve one (1), it can be seen that '14 started off with oversize tires, and necessarily, therefore, with a swelled head, but acknowledging the superior wisdom of its elders has since come down to the proper level. '15 has had much ignition and gear troubles, there being much back-firing and many stripped gears on the second run.

Being hired to do so," it must be said in conclusion that the '13 model has had the other cars backed off the collegiate boards in all the tests and at the same time developing an intellectual capacity in her crew of plus infinity (which isn't much).

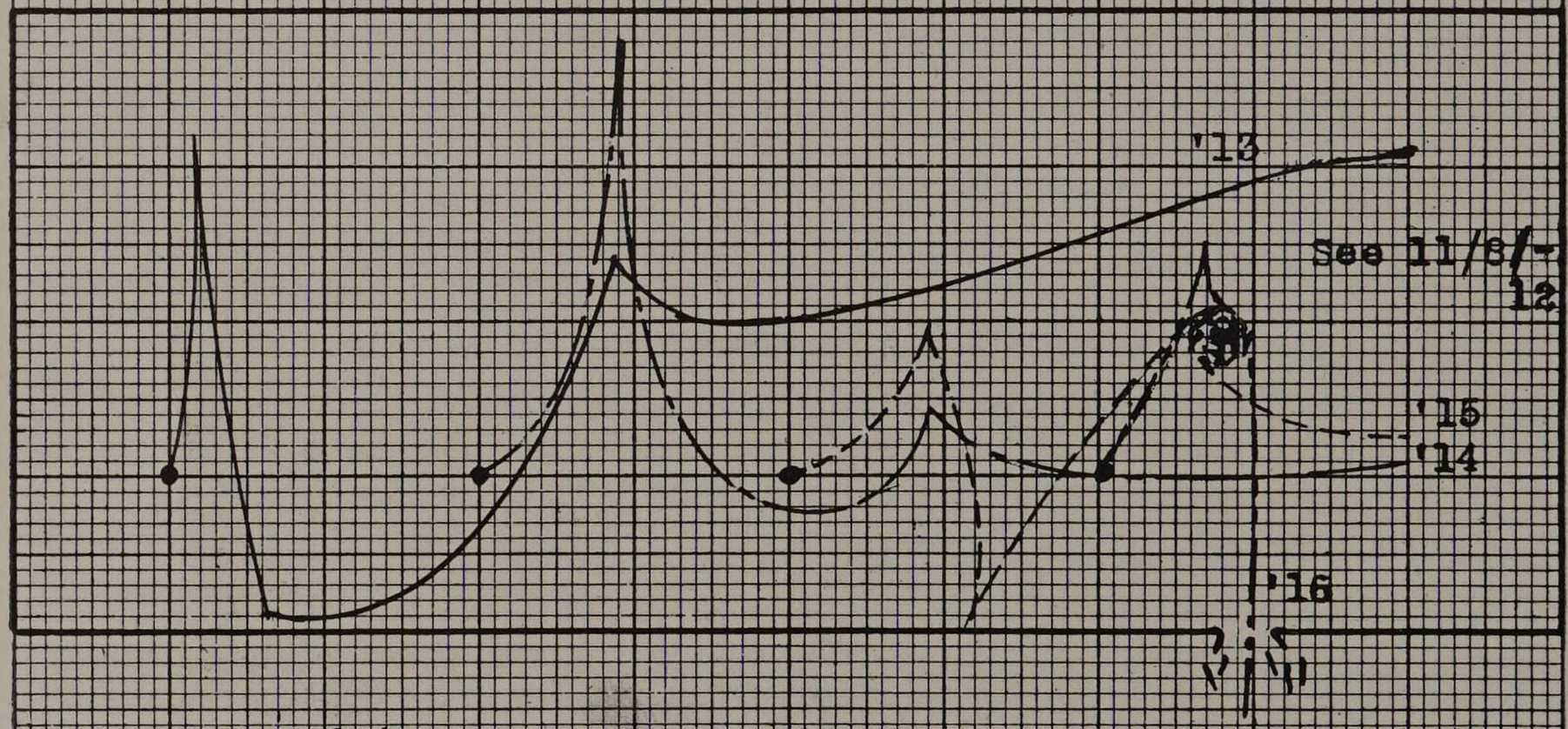
Time.	Car	Remarks.
9/ 7/09	13	All off (no reference to grey matter). 214 man-power (M.P.)developed.
9/17/09	13	Little handcranking. Meet crews of other cars.
9/27/09	13	Jarred the "ball"bearings out of car 12 --- 11 to 0.
10/ 1/09	13	"Accumulate" baskets off of car 12 to the tune of 26 to 17.
10/19/09	13	Smoky engine. Some of the crew asphyxiated beyond help.
4/29/10	13	Purchase a D.A.N.C.E. accessory.
5/--/10	13	Nearly swamped at Quiz Curve. Hadn't heard of Pony Stable.
9/ 6/ 10		Second run started. Too much exhibition for 60 of '13 crew. Car '14 takes place of Car '10. 244 M.P.
9/30/10		All cars in dash up Fall Inter-class Games Hill. Car '14 first with car '13 a good second.
11/18/10	14	Lot of trouble with a smoky engine. Other crews make merry.
3/ 3/11	13	Ditched at Colonial Bend. Everybody hopped to it.
3/31/11	14	Got into '13's tracks at C.B. Dawnced out in fine shape.
5/--/11	All	Quiz Curve. Had a--------Nuff sed.
9/11/11	All	Exhibition work killed 43 of '13 crew. Now 111 M.P. '14 off at 174 M.P. Car '15 takes place of '11. 179 M.P.
9/22/11	All	General adjustment of carburators at "Cap's".
11/--/11	All	Baseball-bearings cleaned. 14-1st; 13-2nd; 15-3rd.
11/ 3/11	15	Crew overcome by xs of smoke. Foul work suspected.
3/ 3/11	14	New pumps bought for use at Colonial Bend.
4/29/12 to 5/ 1/12	13 13	Car and crew touch the high spots only. Adjust carburator feed at University Club---S.R.O. sign out at the play--- and finally do some agricultural work on hops.
9/ 9/12	All	'13 crew sticks thru some hot exhibition stunts. 103 M.P. '16 takes place of '12. '14 and '15 off in good order.
9/27/12	All	A little lubrication at the Lunch Room.
11/ 8/12	15 & 16	After trouble from smoky engines, 15 and 16 collide in deadly combat on Deadmen's curve in sight of all other crews. Injured taken to Mandarin Hospital.
11/22/12	All	Have Miss Eva as apassenger. (SOME passenger).
12/ 6/12	13	Crew and accompanying Janes negotiate Colonial Bend.
2/28/13	All	Home concert. Fitterman, French Mechanician of '15 performs for crews etc. of all cars.
5/ 5/13	14	Crew of '14 drive car to limit. Downtown shows forced to close their doors. Mary Ann's and crew man the pumps.
5/31/13	13	To show superiority of the car, the crew of '13 send it over Quiz curve at breakneck speed without equinary help.

GRAPH (T) SHEET.

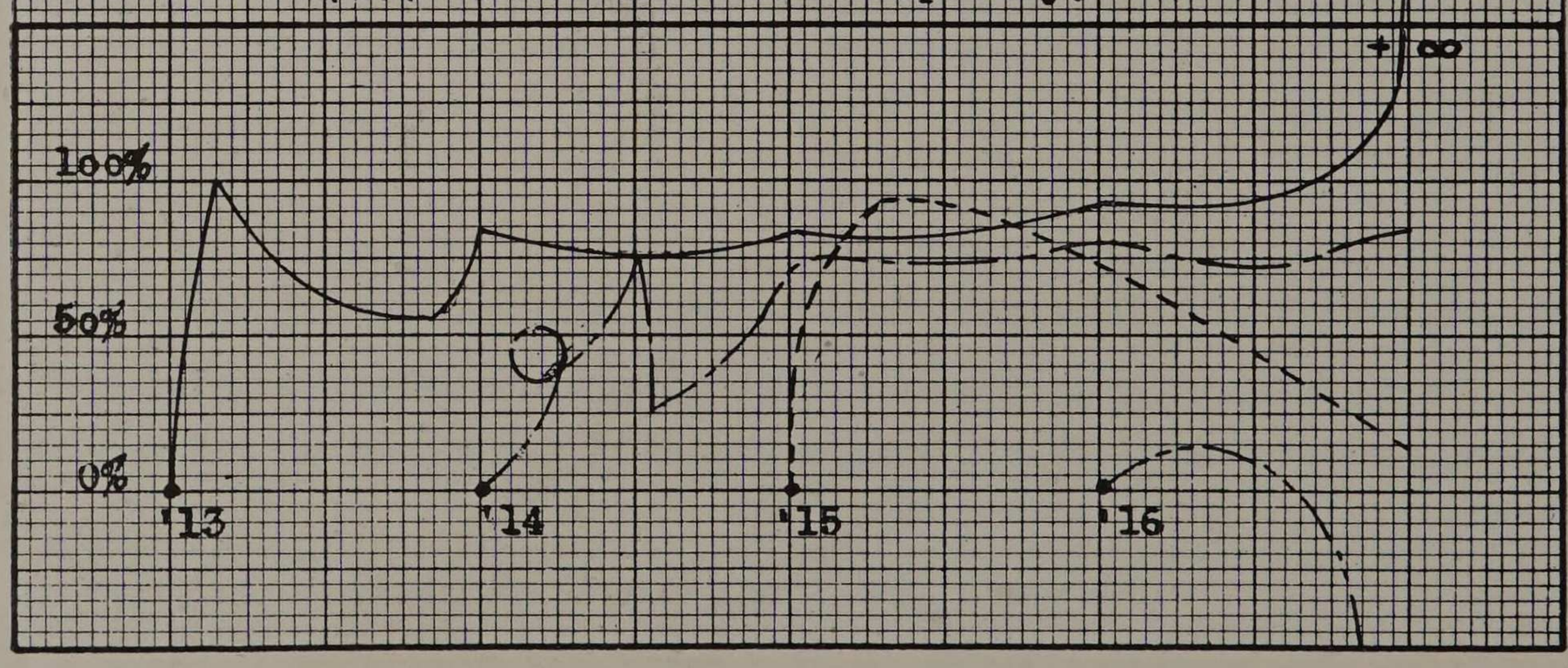
(1). Man-Power Loss or Summer Exhibition Fatalities.

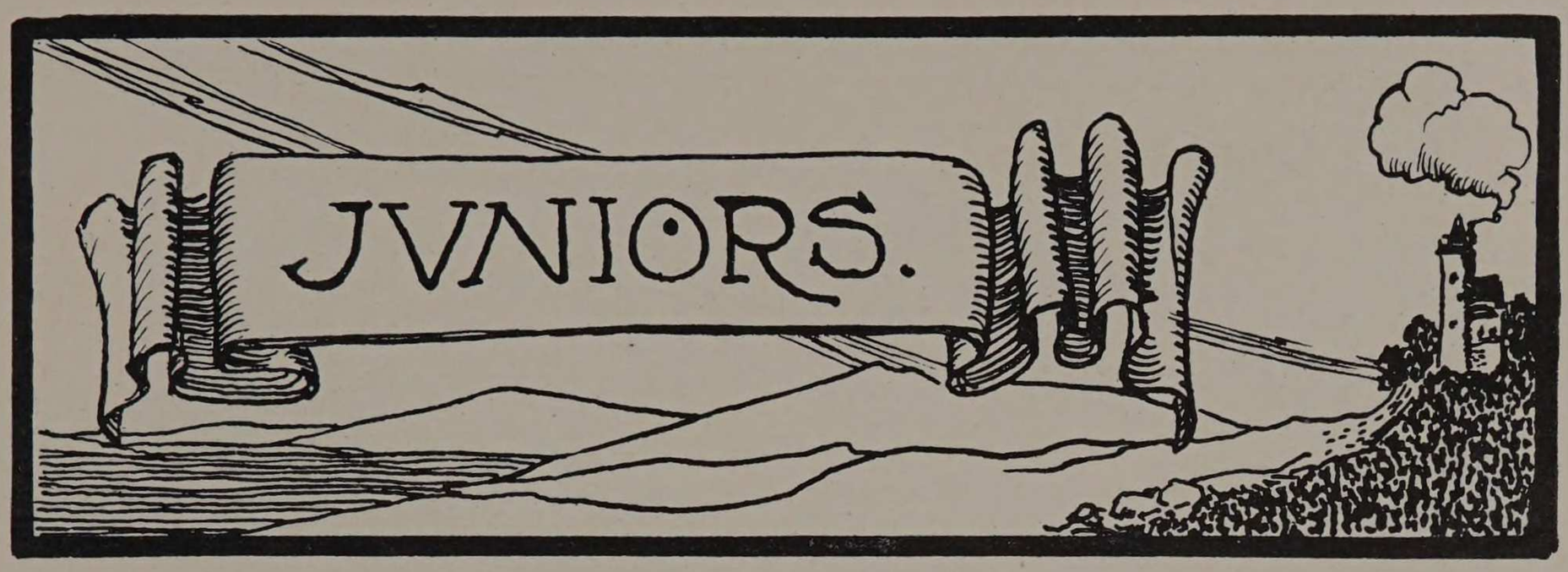


(2). Smoke Effects.



(3). "Fuel" and "Oil" Capacity.

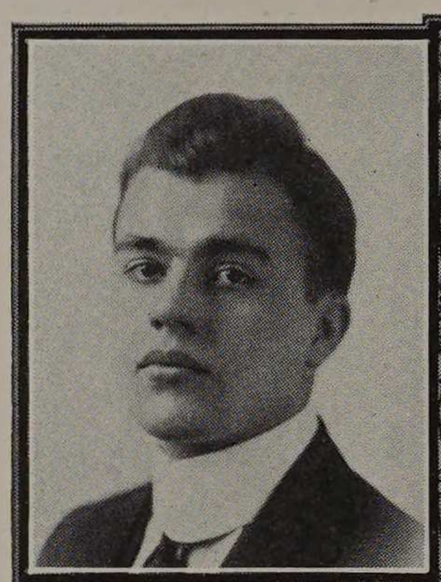



JVNIORS.



The Class of Nineteen Hundred Fourteen

Juniors



SECRETARY.

H. E. JEDAMSKE.



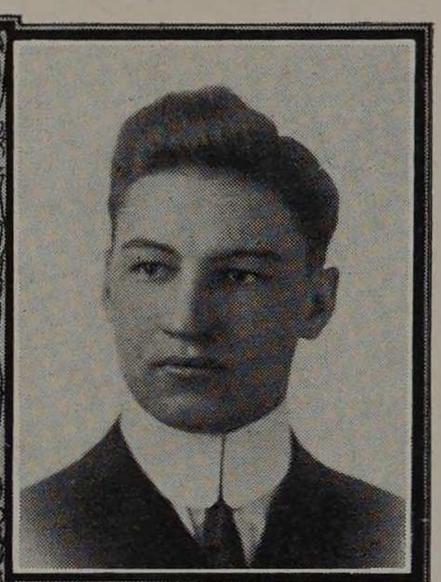
VICE PRESIDENT.

G. S. BARBER.



PRESIDENT.

E. A. PYNCHON.



TREASVRER.

S. P. WALKER.

Colors: Maroon and White

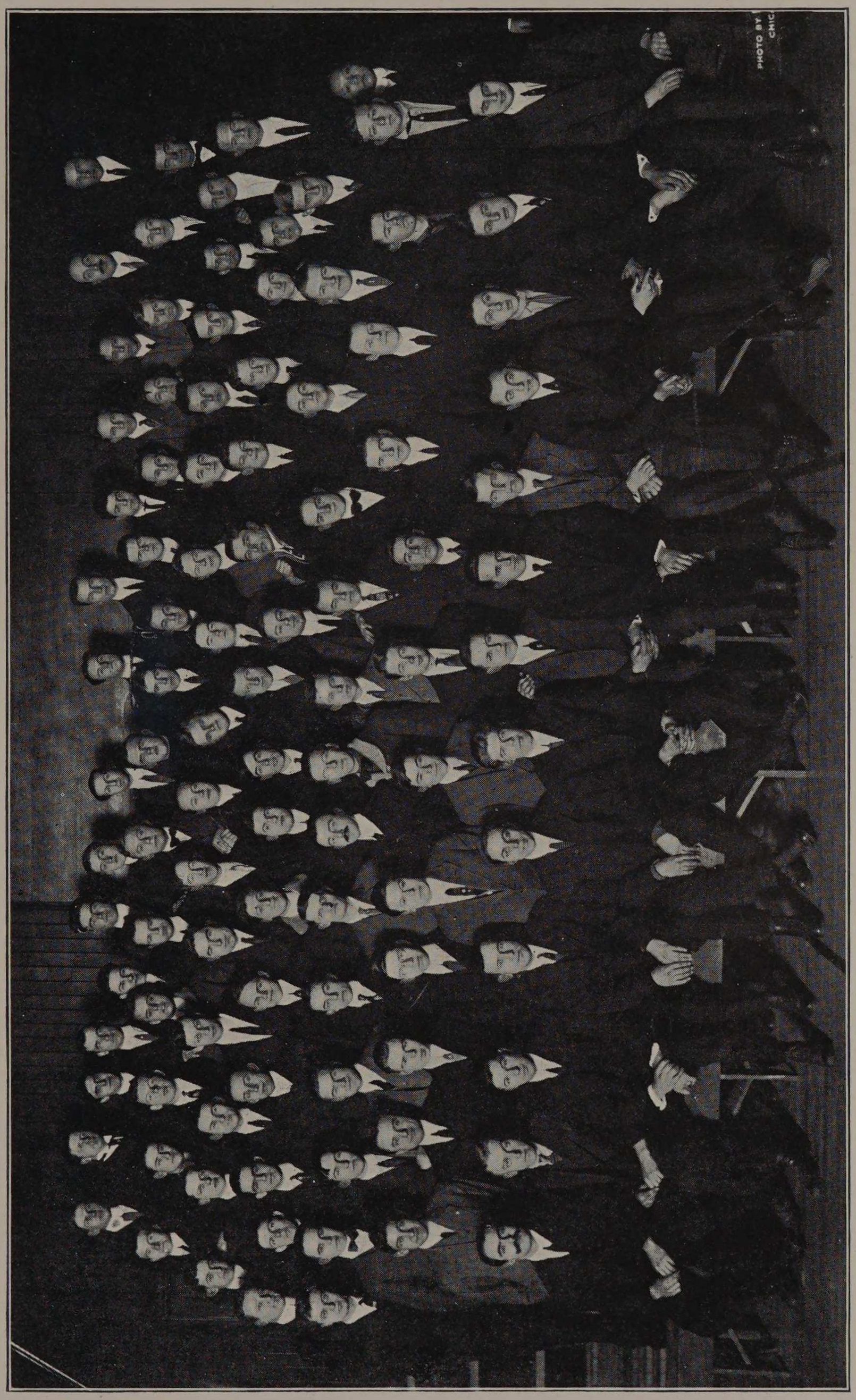
Yell: Hullaballoo Ballaballore 1-9-1-4
Hullaballoo Ballaballore 1-9-1-4, Armour

Social Committee

F. L. Brewer
H. D. Roller
J. M.Emslie
H. O. Sexsmith
R. Zook

Junior Week

F. D. Farrar, First Marshal.
C. C. Heritage, Second Marshal.


PHOTO BY
CHIC.

CLASS OF NINETEEN HUNDRED FOURTEEN

Students in Mechanical Engineering

Brewer, Fred L., Jr.
Erickson, H. E.
Goetz, O.
Goetz, W.
Gumpper, H. D.
Himelblau, H.
Kling, O. E.
Koch, A. N.
Menke, Edward
Meyer, L. C.
Sir, W. W.

Students in Electrical Engineering

Beckley, H. E.
Bolton, T. C.
Burris, E.
Case, H. L.
Charlton, J. A.
Dumke, W.
Heim, R. M.
Lang, E. C.
Matt, Paul
Moy, B. T.
Oldenburger, W.
Roberts, W. F.
Schoembs, A. F.
Swartz, C. H.
Turner, J. W.
Wetzel, C. L.
Whitmore, R. W.

Students in Civil Engineering

Auer, P. F.
Boetter, Carl
Compton, F. N.
Dean, C. A.
Doan, L. A.
Ehrlich, W.
Emslie, J. M.
Finlayson, S. S.
Hallstein, W. H.
Hamilton, W. H.
Heeren, A.
Hendrickson, E.
Hallowed, J.
Holmboe, J. A.
Jedamske, H. E.
Johnson, V. E.
Jucker, J.
Kann, W.
Kirk, A. M.
Moeller, A.
Norton, J. C.
Pomerene, J.
Pynchon, E. A.
Sevin, M. I.
Seidenstrang, O.
Steininger, W.
Vesely, J. C.
Walker, S. P.
Wilensky, M.
Zack, E. G.
Zeman, L.

Students in Chemical Engineering

Agazim, T.
Carnahan, G.
Carver, A. L.
Cunliffe, R.
DeCelle, O. A.
Finklestein, L.
Heritage, C. C.
Hirsch, L.
Hook, F. W.
Lesser, D. B.
McCormack, J. H.
Perlstein, H.
Shackman, J.
Whittington, J. A.
Wishnick, I.
Yonkman, Wm.
Zavertnick, J.

Students in Fire Protection Engineering

Gielow, W. C.
Hepp, E. J.
Somers, L. V.

Students in Architecture

Barber, G. S.
Barr, A. W.
Blanding, H. O.
Cohen, J.
Eliel, A. G.
Farrar, F. D.
Halperin, C.
Nertney, H. F.
Reily, A. E.
Hetherington, M. D.
Jensen, L.
Koenigsberg, N.
Kujawski, E. S.
Maddox, H. H.
Roller, H. D.
Schmidt, C. G.
Sexsmith, H. O.
Shane, J. L.
Stein, E.
Unseld, H. F.
Vittner, C.
Valerio, F. M.

The Class of Nineteen Fourteen

A RECORD OF ITS EXPLOITS

FOREWORD

To write the biography, to date, of the Class of Fourteen involves the recording of the development and deeds of a very vigorous, healthy and progressive personality. The strong coherence of the individuals to the class in all undertakings shows in the decidedly unusual number of achievements indelibly written to the credit of the present Juniors.

CHAPTER ONE.

The official birthday of Fourteen, September 12, 1910, presented to Armour a large and promising infant. From the discomfort caused by the crowded halls on that noteworthy occasion it was apparent that the host of Freshmen donating their first shekels to their prospective Alma Mater, constituted a class of unusual size.

Enrolling with Fourteen were many men from the last class of the A. S. A., and the familiarity of these men with the ropes at A. I. T. expedited the organizing of the Frosh. Quickly the formalities were gone through, the men became acquainted with one another and the college, and Fourteen began to display a lively interest in what was going on about it.

The then recent death of the "rush" meant that no desperate struggles were had with the worldly wise Sophs. At the Freshman Smoker the newcomers massed manfully behind their president and took possession of the balcony at Oakland Music Hall, which was previously occupied by the second year men, and contributed a large share to the smoke and noise of the evening.

Athleticly, Fourteen was into the game at the first opportunity. The basketball season offered the unexpected sight of the freshmen walking off with the interclass championship. An uneasy feeling prevailed in the class, and diagnosis of the case revealed that track was needed back at A. I. T., so an agitation was started. This athletic unrest was quieted somewhat when "One-Four" repeated by landing first in the inter-class baseball series.

In the due course of events the Freshman dance was held. March 31, 1911 marks the date of Fourteen's debut into Armour's social whirl. Signal success attended this initial attempt. The electrical effects were unique and Fourteen's reputation as a host was made. An addition to the social calendar came when the class held the first annual Freshman banquet.

An incident displaying good judgment as well as agressiveness, was the appointment at the end of the Freshman year, of a committee to give welcome and aid to the newcomers next fall. At this early date too, the idea was conceived of starting a "year book fund," to be applied to Fourteen's Senior Year Book, or to the revival of a Junior annual.

The close of the year showed a very creditable scholarship average for the Frosh. The athletic records showed Fourteen well represented on the Tech teams. All in all, the college was ready to say, "Well done, One-Four!"

CHAPTER TWO.

With the arrival of September, 1911, Fourteen stepped briskly into Sophomore position, and resumed progress on all lines. Increased athletic glory was brought by the Inter-class baseball championship. Again the Tech teams included a large share of Fourteen talent. But most noteworthy in the athletic field was the successful issue of the track agitation begun in the Freshman year. Track was re-instated. The word was passed, however, that the preservation of track at the Tech depended on the degree of student support accorded it. To investigate methods of assuring good support not only to track, but to all worthy activities, a soph committee was appointed. Quickly the work of the committee materialized into the Armour Rooters' Association, an organization of the whole college, headed by the men of Fourteen.

During the Sophomore year Fourteen's Year Book fund was added to, and the uneasiness regarding the Junior annual, which had passed out with the demise of the Integral in 1910, was visibly increasing.

With the close of the year came more activity for the class. The dance, banquet, and other social affairs proved the expected successes. The balmy days developed a Sophomore college tennis championship. And the combined election and appointment of members of the Fulcrum managing staff placed a Fourteen man at the head of the college paper.

Satisfied with the showing of the first half of its existence, Fourteen formally adjourned for the customary three months.

CHAPTER THREE.

And time passed until Fourteen had come into the title of Junior Class at A. I. T. As had been planned and foreordained the re-establishment of the Junior annual was brought about—with the good will of the college and the co-operation of the seniors, Fourteen launched the Cycle.

In regular routine the Juniors claimed the intercalss championships in baseball, basketball and track. The Tech basketball team too was captained by a Junior, and owed much strength to the prowess of Fourteen's men.

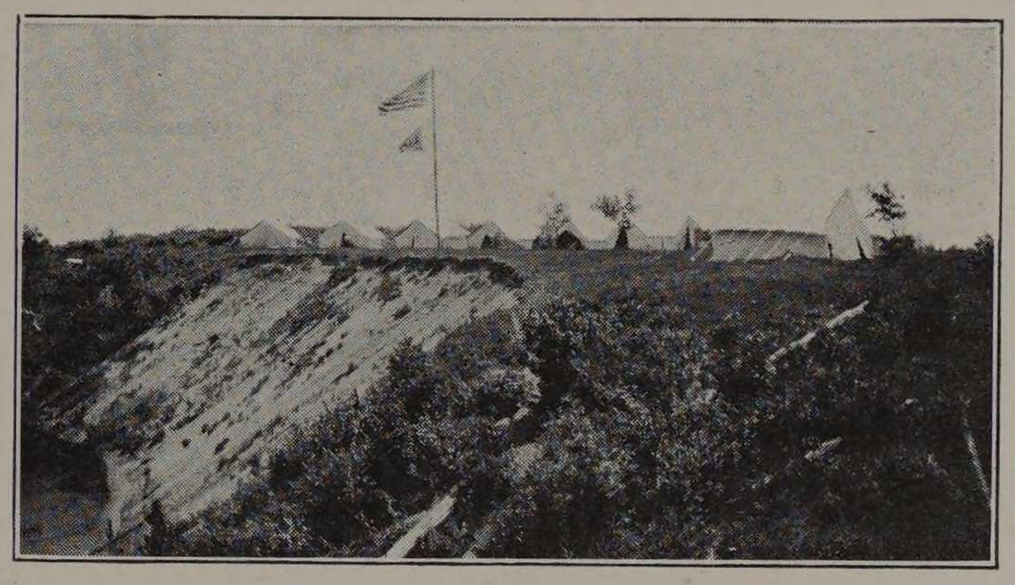
With the return of track and the coming of the Cycle, Fourteen's activities were not yet complete. At the Freshman Smoker the Juniors began agitation for the return of football, and Fourteen is now making deep inquiries on that subject.

Armour's greatest Junior Prom befell on February 7, 1913, and Fourteen's reputation lost nothing through the event.

But the completion of chapter three of this record lies in the future. It is for another year to tell the fame of Fourteen's Junior week.

The present Junior class presents its history to Armour men in a spirit of pride for what has been accomplished, and hope for what still can be done—hope for the deeds of future classes as well as for its own exploits. And there is too, an element of respect for those who have preceded. For, after all, the incentive to Fourteen's success has been in the desire to work for old Armour and to make good in the eyes of her sons—those who have gone and those who are still to come.

Summer Camp — 1912



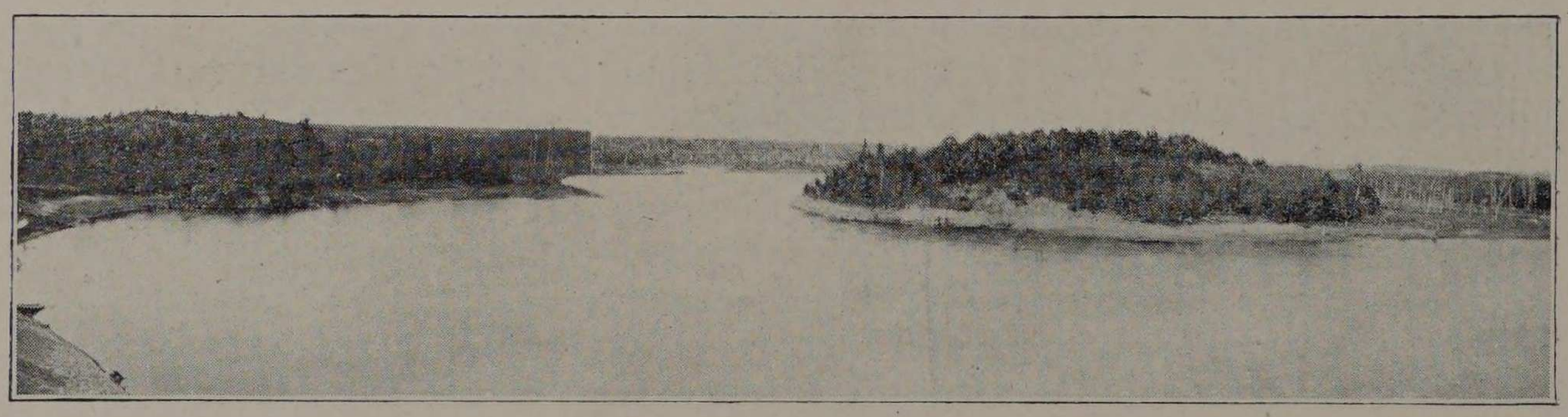
On June 7th the hopeful Civils embarked for their six weeks' sojourn in the wilderness, arriving at Pembine the next morning after spending a sleepless night. The "Limited" which was to carry them on to Kremlin being slightly behind schedule time, the interval was spent inspecting the metropolis of Pembine. Although the sight seeing cars were not running, the fellows managed to find out that there were about twelve thirst emporiums scattered about, the majority being on the East side of town where high class "varnish" was sold.

After the local freight on the Soo Line finally did arrive it did not take long to get to Kremlin—not quite as long as it takes to walk(ask "Bunk" Hollowed.) Arriving at Kremlin, everybody picked their tents and tentmates for the next six weeks. The Rathskeller harbored Art Moeller and Bill Kann, who were always ready to dispense their musical talent, together with Sister Pomerene and Ero Dames. Next came the Hobo Hotel which contained the other half of the quartet, "Ty Cobb" Hook and "Speed" Emslie, occasionally known as "Dink" who had a habit of rehearsing "Everybody's Doing It" at all hours of the night; also "Smudge" Compton and "Hobo" Zack (who parted with their curly locks via Hook's clippers to get next to nature and "Sixty" Auer.) The last tentful of Sophs, The Holligan Flats, contained "Pickerel" Doan, "Gaby" Boetter, "Doc" Ehrlich, Art Heeren and John Vesely —a tentful of terrors (?) to the fish until the game warden made a call. The Annex was the exclusive property of "Slim Bill" Suffern and "Premo" Miranda, the terrible terror of the backwoods sluggers. This tent was the rendezvous of the "wolves" and "little games" were pulled off almost every night. Next came the supply tents and then Professor Phillips and Mr. Penn's tent. Following was the Baby Incubator tent in which "Bernice" Walker, who acted as commissary, and John Lucas, who had charge of the instruments, were hatched. The Dingbats next door was presided over by Felix Trujillo who had his hands full with "Chris" Hollowed and "Cupid" Oldenburger. "Jumping Jupiter" Wood and "Singing Jack" Stewart who has a beautiful voice (in his sleep) which requires a little cultivating (with a harrow) were the other occupants. The Morgue, next in order, contained "Cocky" Marx, "Germany" Nebel and "Ignatz" Simmons otherwise known as the "Boy Scout," "Archimedes Mike" and several other pet names. Last but not least came the noisy tentful of freshmen in Seldom Inn—"Dynamite" Anning, "Swede" Strombach, Heine Rook and "Lanky" Knuepfer, who were the objects of a midnight raid the night before the Fourth. At exactly twelve on the night of July 3rd the celebration started. Everybody had to pile out under threats

of a shower. Anning didn't see the joke and consequently had his boudoir mussed slightly and decided to spend the rest of the evening playing hide and seek with the mosquitos in the swamp.

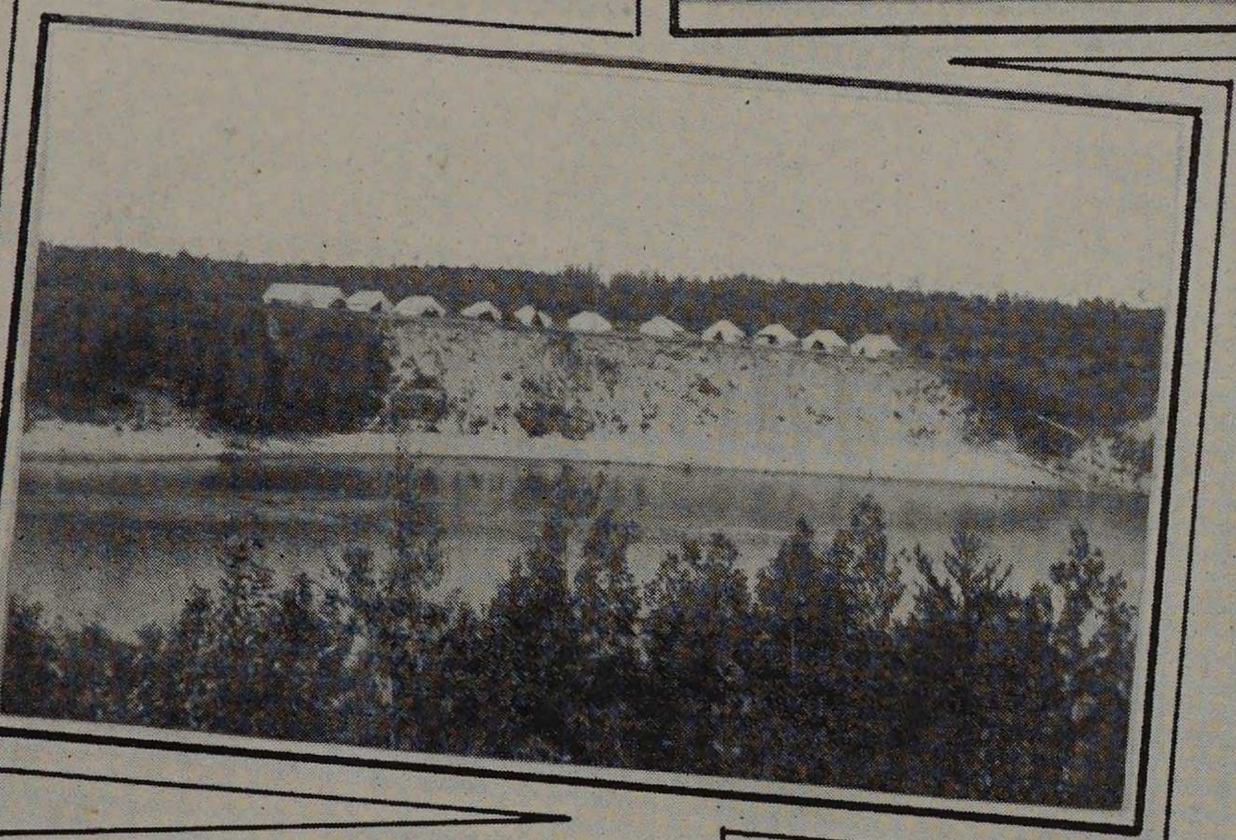
It didn't take long to get acquainted with the nearby "bergs" of Faithorn, Pembine, Norway, etc., but first of all with the postmistress at Kremlin, that is, when "Steve" Walker wasn't there. Although the fellows formed a number of acquaintances with the lumber jacks, their most intimate attachments were acquired with the mosquitos who seemed to take quite a fancy to them especially on those moonlight (?) nights which were best enjoyed while writing up stadia notes. Among the prospective "consulting" engineers several "Hot Air" Lines were run which were guaranteed to eclipse the Soo Line. Numerous budding topographers were discovered—or rather undiscovered—who could take enough topography in two hours from a convenient hill top to satisfy their desire for the rest of the day. Before leaving camp several fellows could call all the ties between Faithorn and camp by their first names.

After having spent a week dismantling instruments and searching for the "Line of Collimation" the camp baseball team journeyed to Faithorn under the leadership of Bill Kann and took the lumber jacks in tow by a score of 22 to 6. Faithorn's phenomenal pitcher couldn't make his "dark one" work that day, it being Sunday, and consequently the natives got a little exercise. On June 30th the team was defeated by Pembine 9 to 8 because of a few blistered hands and stiff backs acquired in pumping a "rattler" up hill for ten miles. On July 4th however the fellows went to Pembine determined to win, and with Miranda pitching, beat them 14 to 5. That night the natives pulled off some races and fireworks—also firewater—and gave an impromptu dance. Although there were not enough waitresses to go around for partners everybody had a good time. Just when the swimming was getting fine and the sunburn had commenced to tan the edict went forth to break camp.



1912 ≈ CAMP





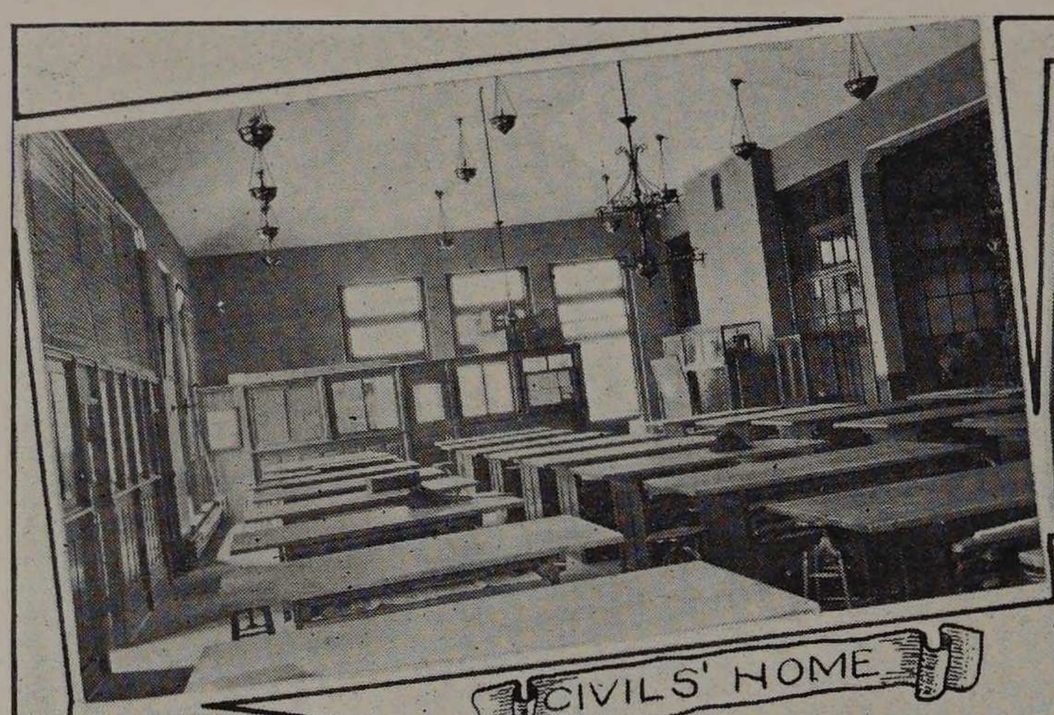
CAMP ≈ SITE



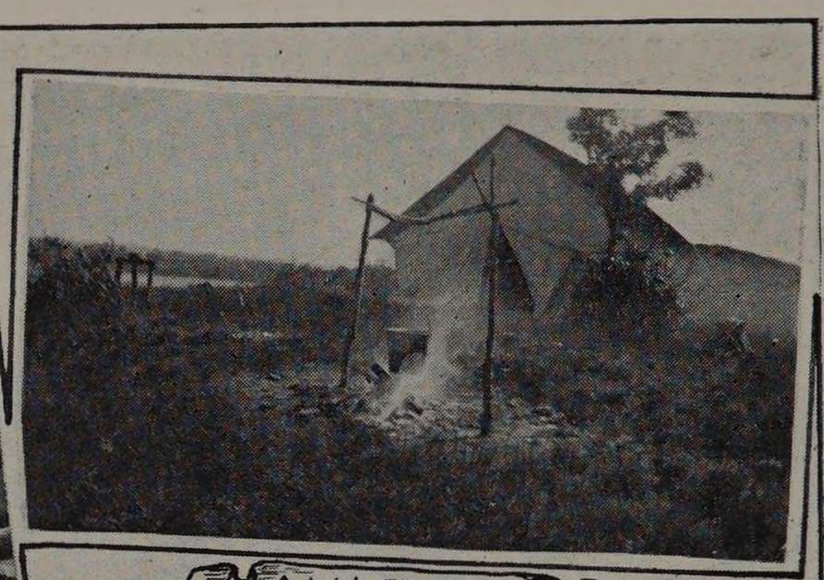


MESS

MASTERS OF THE CAMP



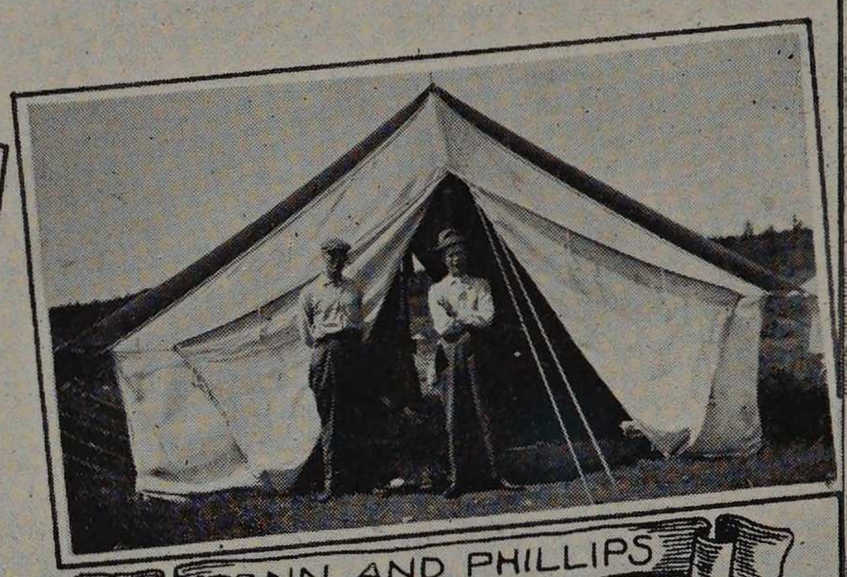
CIVILS' HOME



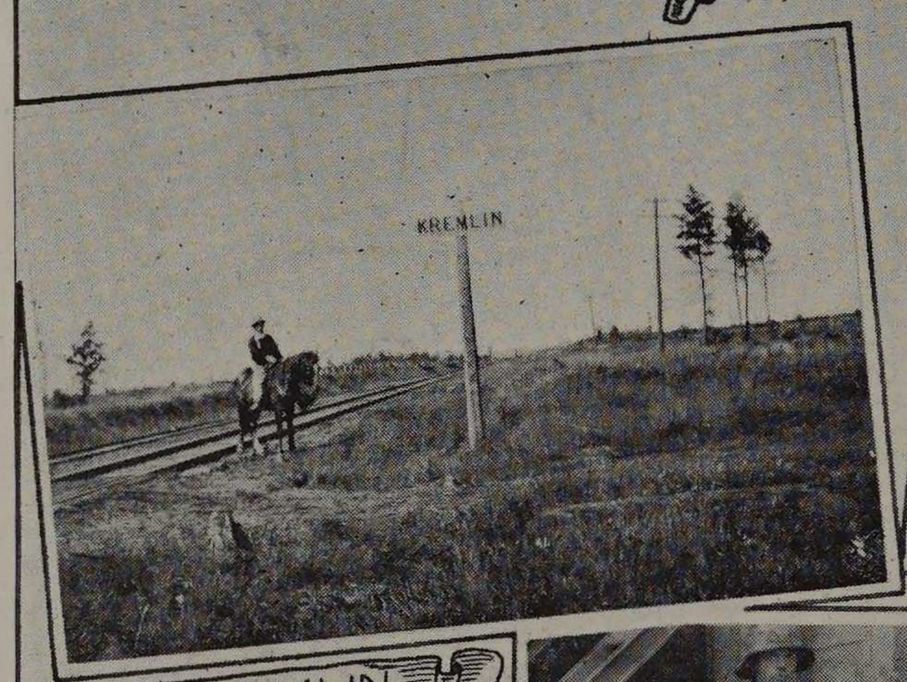
AH! EATS



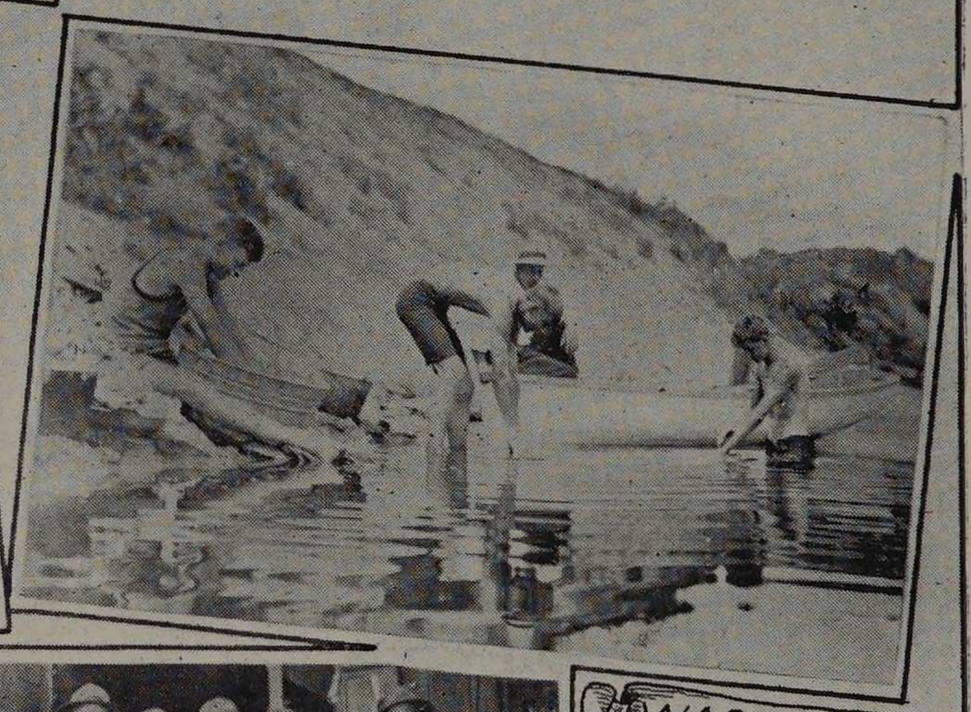
ARRIVING AT KREMLIN



PENN AND PHILLIPS



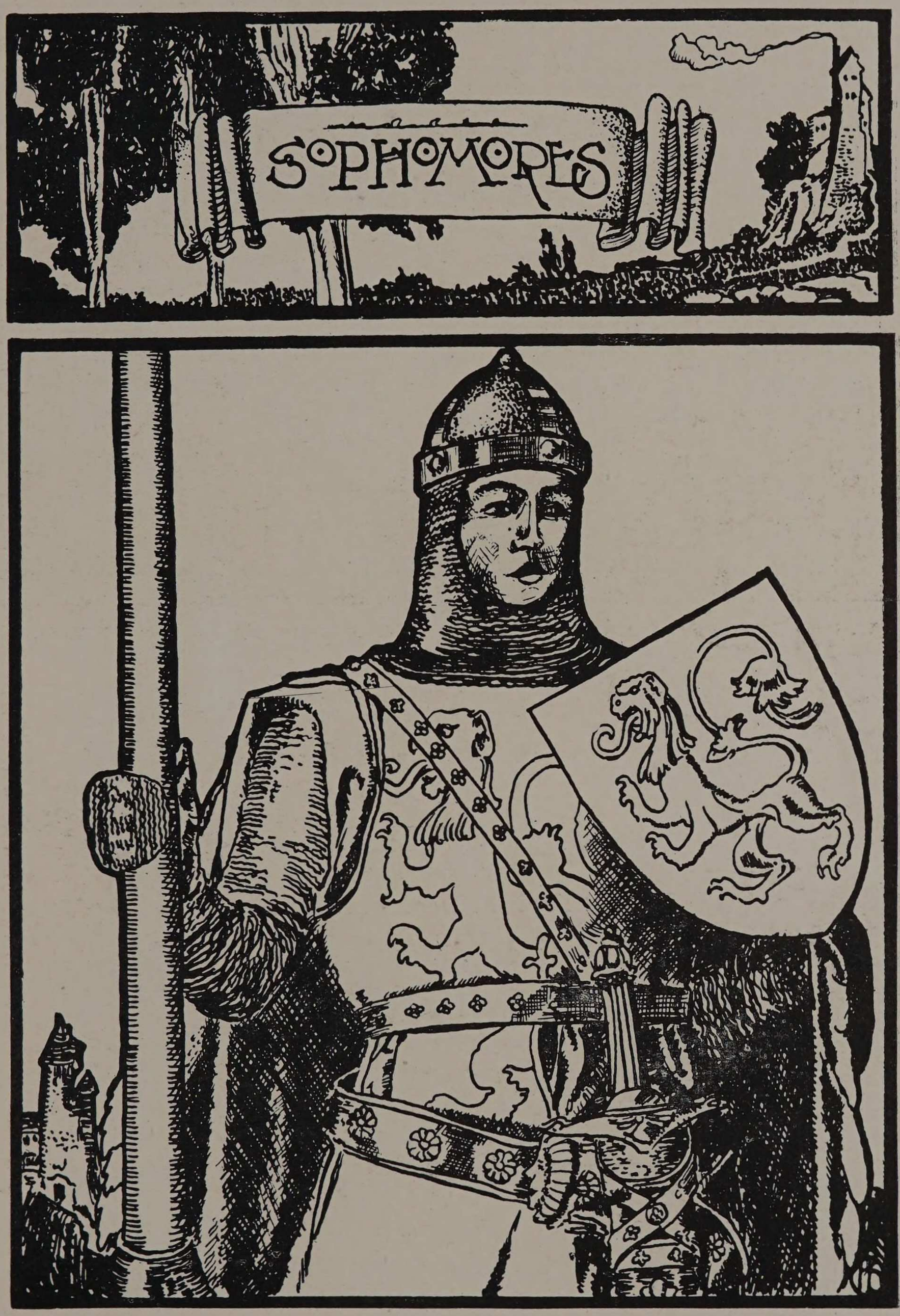
KREMLIN



WASH DAY

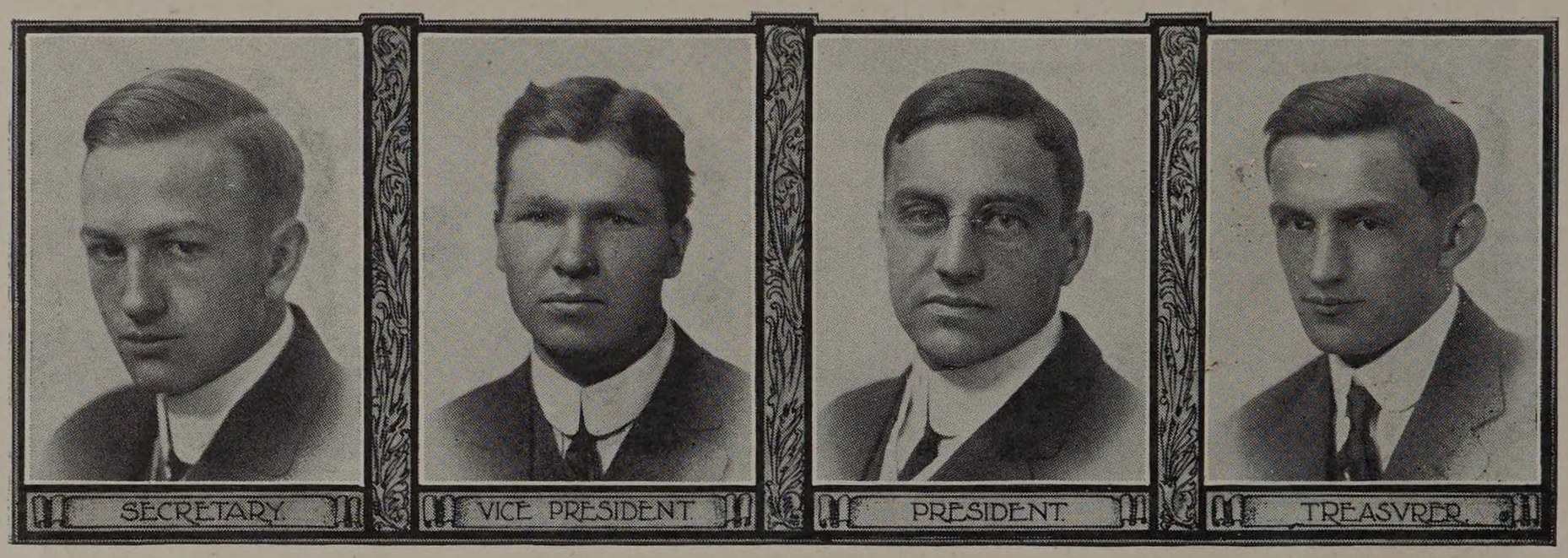


AT OLIVER MINE


SOPHOMORES

The Class of Nineteen Hundred Fifteen

Sophomores



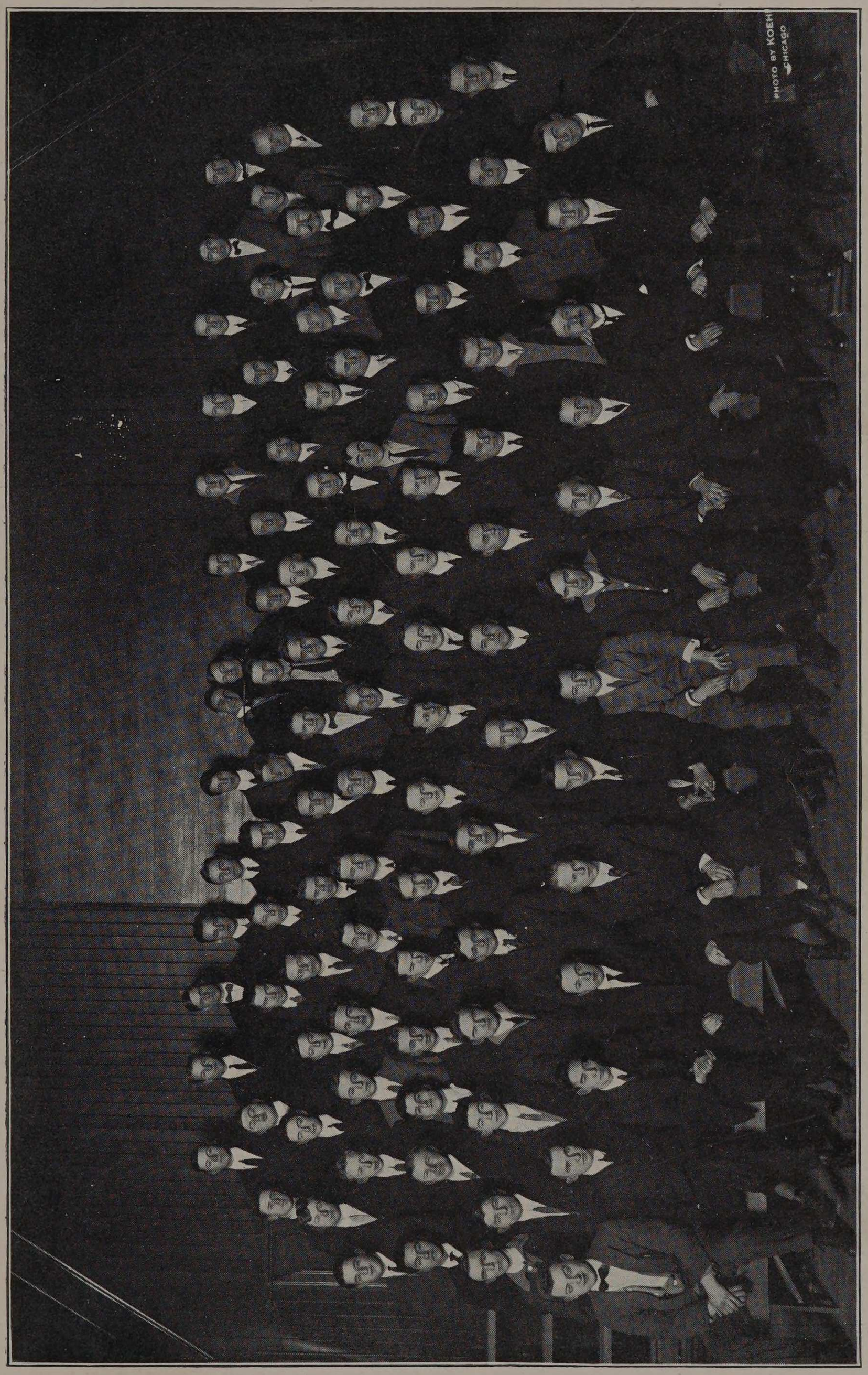
W. PFEIFER A. GRIFFITH J. McKEAGE H. NEBEL

Colors: Green and White

Yell: "Yea! Fifteen, Yea! Fifteen,"
F-I-F-T-E-E-N
Fifteen.

Social Committee

H. P. Sherwood E. M. Kratz
G. R. Bartling L. S. Downey
G. Sproesser


PHOTO BY KOEH
CHICAGO

CLASS OF NINETEEN HUNDRED FIFTEEN

Students in Mechanical Engineering

Agee, Jess A.
Anderson, Oscar A.
Bohn, Robert G.
Bready, Wm. M.
Bunge, Ludwig W. A.
Chipman, F. L.
Close, Lyman W.
Cooban, Frank G.
Diebold, Paul
Dodge, Adiel Y.
Downey, L. S.
Faulkner, Fred L.
Gedge, F. C., Jr.
Gleason, Charles E.
Goe, David M.
Hanson, Chester
Hockenberger, P. R.
Hibbard, Lewis E.
Johnson, A. H.
Juttemeyer, Walter
Libke, Robert H.
Mayer, James L.
Palmer, Roger C.
Patterson, C. E.
Patterson, Wm., Jr.
Rehnquist, P. A.
Roethe, P. H.
Sherwood, Herbert P.
Steinhart, Clarence E.
Stepanek, Emil
Thal, Sam
Walker, B. H.
Ward, Fred L.
Wight, Clifford D.

Students in Electrical Engineering

Adamson, F. F.
Anderson, Stanley W.
Borroughs, Walter
Broyles, J. L.
Burnham, C. L.
Conklin, Joseph T.
Cohn, J. W.
Deering, John
Dubinsky, Abraham
Eales, James F.
Galloway, Robert B.
Hailey, James G.
Hannaford, George A.
Lister, Everett
Lord, Harry H.
Mammes, Harry A.
Mieczkowski, T.
Pfafflin, Theodore K.
Pfeiffer, Walter S.
Renaud, Eugene
Robbins, Chase E.
Seeberger, Harry F.
Shaffer, Lawrence B.
Shaffer, Sydney
Springer, Ormond S.
Stecher, M. V.
Sullivan, Thomas
Wolfson, Wm.
Wright, C. F.

Students in Civil Engineering

Anning, Harold E.
Chase, D. A.
Deitenbeck, Max
Duffy, Joseph L.
Fitterman, Noel C.
Gillidette, Walter L.
Grodsky, M.
Hahn, Herbert
Hook, L. D.
Kadinsky, Max
Kiene, Theodore J.
Knuepfer, C. A.
Lindbloom, Wm. V.
Marx, Emmet
Nagle, John L.
Nebel, Herman C.
Owen, Russel
Pathman, Felix
Peterson, Arthur L.
Simmons, Charles R.
Sprosser, George
Stromback, Ernest J.
Trinkhaus, George J.

Students in Chemical Engineering

Badger, Volney P.
Congdon, Charles C.
Diemecke, Curt W. C.
Gothwaite, Everett D.
Grossman, Al. N.
Hahn, G. A.
Hathaway, Miller R.
Lauletta, Joseph, Jr.
McKeage, Jack A.
Markham, Hogan
Parrott, Raymond D.
Prest, Irving
Sieck, Ernst
Strain, Harry H.
Wilson, Robert L.
Yamamoto, I.

Students in Fire Protection Engineering

Chamberlin, Joseph F.
Kratz, Edward M.
Markham, Earl B.
Rietz, Walter H.

Students in Architecture

Arcus, H. G.
Bartling, George R.
Bodholdt, Arne
Cruttenden, Charles N.
Gibson, Bayard K.
Graves, Bernard S.
Griffith, Archie B.
Hirose, Yoshisaku
Hirshfield, Leo S.
Isensee, F. M.
Lewis, Jacob
Lurvey, Louis
Peters, R. L.
Peterson, Thorwald
Porter, Earl W.
Rissman, Maurice B.
Roy, Herman C.
Schiffers, Emil A.
Schreiber, Ernest A.
Schulze, Charles P.
Sieh, Elmer J.
Stark, Andrew G.
Wagner, Fred H.
Windsor, John J.
Zaldokas, Mathew E.

History and Incidents of the Class of 1915

Yea! Fifteen! Yea! Fifteen!
F-I-F-T-E-E-N
Fifteen!

Ah-h-h! Here they come! See them strut! Don't you know who they are? Why they are one of the best classes that ever went through the Armour Institute of Technology. Did you say that you never heard of them? Astounding! Well! Just sit down here a few minutes and I will tell you all about them.

The class of Nineteen Hundred and Fifteen was born on the Eleventh day of September in the year of our Lord, Nineteen Hundred and Eleven. A memorable date indeed. The halls and corridors in the main building were crowded with Freshmen on that day; they soon became acquainted with one another and it wasn't long before they noticed that the upper classmen were casting admiring glances at them and that even the Faculty seemed to be proud that they were going to be with them for four consecutive years. It was then that these humble freshmen realized that they had come to Armour not only to make a name for themselves but also for the school, and they set about immediately to do so. They were far more progressive than most classes and they wanted to "do things" right away but they didn't want to neglect their studies, so after they were well settled in Chemistry, had a good start in Algebra, had soiled their overalls in the Foundry and Forge Shop and had taken a few showers in the Gym., (all of this covering a period of about two weeks) they became restless and called a class meeting.

Their first class meeting was notorious. They didn't wait for an upper classman to officiate and advise them as had hitherto been the custom but immediately set in to run things to suit themselves. Suddenly, from out of their midst, sprang two fellows, both headed for the temporary chair, one was short and heavy set with red hair and known afterwards as "Red" Strain, the other was tall, sinewy and grew dark hair; he was known as "Duke" Cooban. "Red" beat his rival to the chair and called the meeting to order. This was the first step towards the organization of this famous class. In less than an hour everything was over with. Strain was elected President, Earl Markham, chairman of the social committee, and Joe Chamberlain, Treasurer—the three most important offices.

All through the year the class showed unusual ginger and in the following Spring gave one of the prettiest and neatest dances that was ever given at Armour. Even the upper classmen acknowledged this fact. The dance was held at the Colonial Club and over two hundred couples were present. The first annual class banquet was held at the Great Northern Hotel toward the end of the second semester and every one present enjoyed themselves so there is no reason why that banquet shouldn't go down in history.

Never through the whole year did the Freshmen shirk their work and at the end they were men. The Faculty of the School was proud of them and not until everything was over did these little Freshmen know that they had been a great factor in the life of the school that year and that they were destined to be a greater factor the following year. They now felt good that the dirty work of the Forge and Foundry was over with and that they were no longer Freshmen but Sophomores; thus in a happy frame of mind, they wended their way homeward for the summer holidays, some to work, some to travel, some to visit the "fair ones" but all with a feeling of loyalty to their class.

The school year of 1912-1913 opened up on the Ninth Day of September. Again the halls and stairways were crowded with 1915 men. The number had been greatly reduced, however, and only about one hundred and twenty were present. But, few as there were there was that same feeling of loyalty and independence in each man. They were now an organized crowd of fine manly young fellows and it was less than two weeks before they called a class meeting and started to get busy.

This first meeting was as famous as the other meeting, probably more so. Their old President, Strain, was back and had the honor of calling the meeting to order. When the nominations for the Presidency were opened there were only two men nominated; one was Harry Strain, the same old "Red," and the other was Jack McKeage, known most generally as "Mac." Nearly the whole hour was spent in electing one of these men. On the first ballot they split evenly but on the second ballot "Mac" beat "Red" out and a new President took the Chair. Herman Nebel was elected Treasurer and "Pinkie" Sherwood chairman of the social committee.

As Sophomores they showed more spirit and soon were letting the public know of their existence by painting large 15's around the school. The incoming Freshmen undertook to do something better, and pretty soon a high feeling of antagonism was in every one's veins. The Sophs however were supreme and not only placed a "15" flag where it couldn't be disturbed but were victorious in the "Foot-ball" game between the 15's and the 16's on the night of the smoker. Thus they will reign over the poor little Freshies forever.

The year is still young, and if the Sophomores carry out all their plans and intentions their name will go down in the history of the school. Now take it from me, my friend, when you hear that "Yea Fifteen," you want to take your hat off and stand silent until all is quiet again, because you are in the presence of a loyal bunch of followers of the Green and White flag of the Class of Nineteen Hundred and Fifteen of the Armour Institute of Technology.

ARMOUR DAILY DOPE

SPORTING EXTRA

Weather Report: Quiz Storm due May 35, Corral your ponies.

Senior-Faculty Game On!

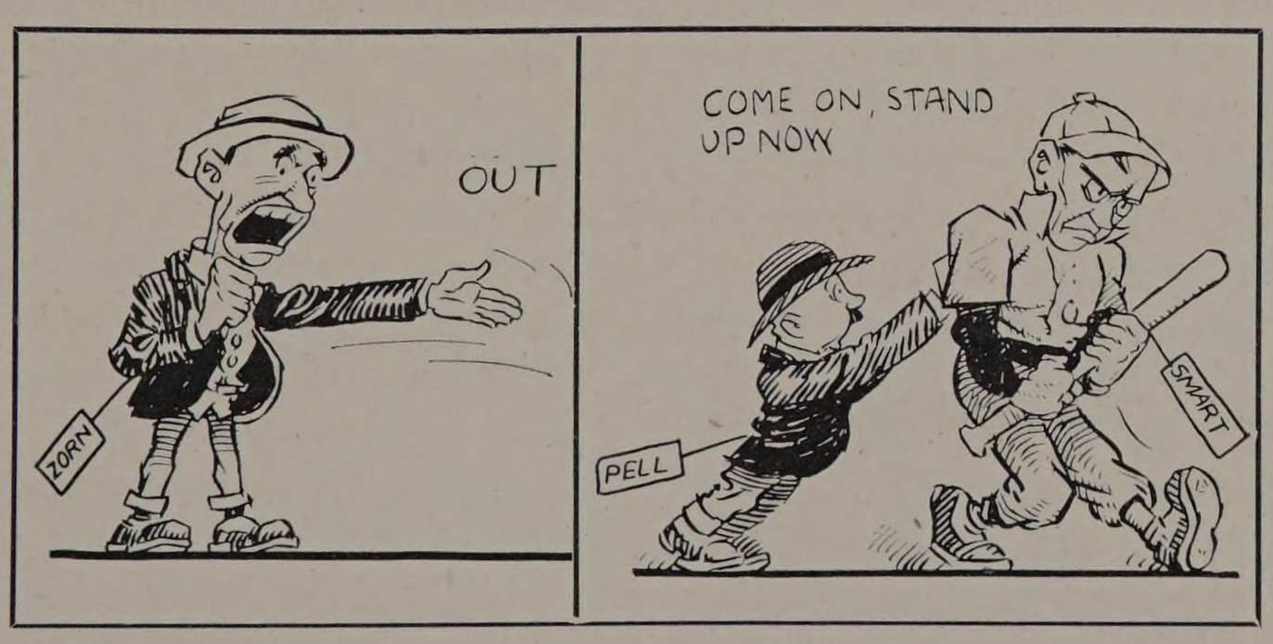
The line-up:

FACULTY	SENIORS
Wilcox, 3rd	Burley, s. s.
Pell, s. s.	Arp, 1st
Larsen, 2nd	Arnold, l. f.
Nichols, r. f.	Bradford, r. f. (Capt.)
Swineford, c. f. (capt.)	Jarvis, 2nd
Snow, 1st	Wald, 3rd
Leigh, c.	Buttner, p.
Smith, l. f.	Ehrman, c.
Campbell, p.	Fryburg, c. i.
Smart, sub.	

Umpire, Zorn; bat boy, Peterson; water boy, Reid.

First inning: Campbell threw the first ball Leighward. The second was a Scotch high ball. Burley hit one which was Snowbound and frozen on to. Twelve straight high balls made the bases full. Leigh called for several more drops for which Jarvis and Wald in succession vainly reached. "Hughey" Campbell gave his famous "Ay ay" yell, and students who had not finished Calculus cheered loudly. No hits. No runs.

First inning (second half): Wilcox was hit in the head by the first pitched ball. He was caught stealing second but allowed to keep it on showing his Y. M. C. A. button. Pell was called out on strikes. He muttered some foreign expression which only umpire Zorn understood. Pell was put out of the game. Larsen came to bat but could not stand in the batter's box without protruding over the plate. Substitute Smart knocked a two-bagger and Wilcox reached third. Nichols walked, but was caught napping off first base. He felt like five cents. Wilcox stole home, — almost. One hit. No runs.



Second inning: Pitcher Buttner came to bat. Wilcox and Campbell held a consultation. Buttner was hit by the first pitched ball. Ehrman batted one to the grand stand which Captain Swineford seized barehanded,—after it stopped rolling. Swineford attempted to beat Buttner to the plate. Buttner scored, and Ehrman reached first. Fryburg struck out. Burley struck out. Arp repeated. One hit. One run.

Second inning (second half): Swineford got a hit but ran to the wrong base. Leigh was called out for batting out of order. He became overheated (in an argument), but water boy Reid came to his rescue. Smith tied the score with a home run. The ball was lost, and so the Senior-Faculty game will be postponed until May—.

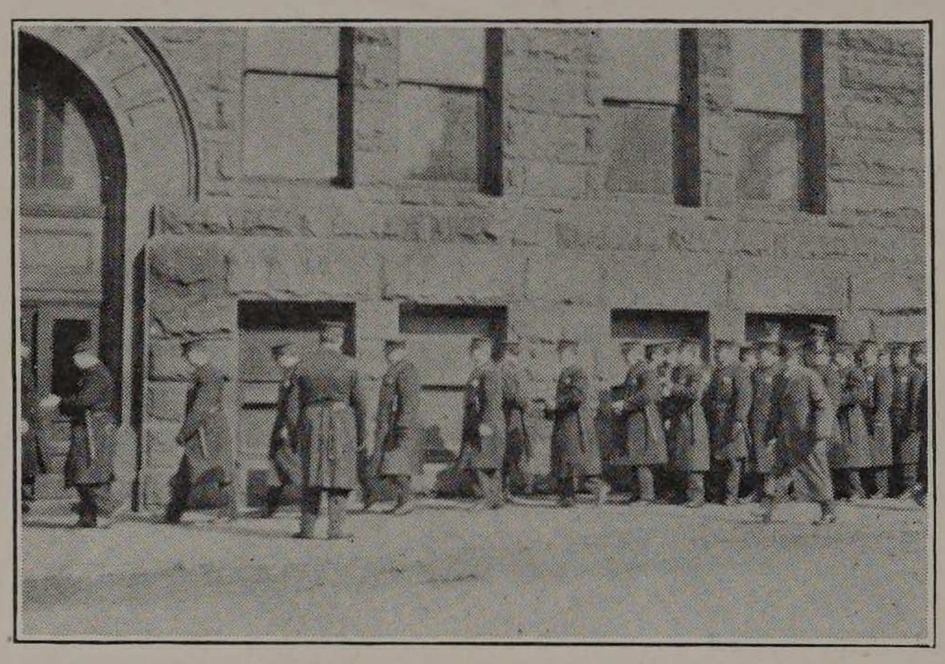
NEW EVIDENCE OF GRAFT AND CORRUPTION AMONG HIGH OFFICIALS.

Startling Story of Star Sleuth Dietary Discipline Destroyed.

A new chapter has been added to Chicago's already long story of graft and corruption in official circles. It involves the well known Eta Bita Pi, whose activities consist in restricting the deleterious and excessive consumption of pie among athletes who have been of great service to Armour. It appears, however, that the administrative body of the Eta Bita Pi, known as the Board of Pirates, sought new fields to conquer and is attempting a school-wide ban on the eating of pie without the sanction of the Eta Bita Pie. And

(Continued on page 22)

ARMOUR DAILY DOPE



POLICE RAID ARMOUR INSTITUTE.

But, After Intimidating Innocent Victims, Return the Way They Came.

It was the night of the Big Smoker, and all Armour was there. For some reason, which has never been satisfactorily explained, there had sprung up a feeling of hostility between the classes of 1915 and 1916. It had been growing for some time and whenever a group of Sophomores came together on the campus, the air was filled with vague mutterings whose purport seemed to be, "Wait until the Smoker, there'll be something doing then. We must stick together."

The Smoker night came, peace and good will reigned, but "Red" Strain, "Spike" Hanson and other Sophs kept the word going along the rows, "Everybody at Ogden Field as soon as we get out." The smoker was over and a long string of students snaked its way thru the streets to Ogden Field. Some Juniors took charge. "Freshmen at the north end of the field, Sophs at the south end." Clothes and watches were hung on the flagpole, the mass divided, and then the referee held up a sack, gave the signal and the battle was on.

For fifteen turbulent minutes the mass swayed to and fro, with hoarse cries of "Get Miesse," "Where's Red," "Sic 'em, Fresh," "Help, 16," mingling with the groans of the mortally stepped on and the breaking of collar bones and fountain pens from the bottom of the mass. Then above the din was heard the clang! clang! of bells on the blue wagons, cries of "the Cops," and then some fifty or sixty or ninety minions of the law stepped into the picture. There were some good athletes in the bunch that night, but the records made were never equalled in daylight. Close cleared the fence and bleachers in a single bound, McKeage ran the hundred to the north gate in 9:2 flat, running a close race with Alter of the Fresh, but coming thru the gate the winner. But, alas, some were foiled in their flight by the barbed wire fence, which resembled a clothes line on a Monday morning after the first detachment had passed. The mortality among trousers was appalling. But finally the suspense was ended, when the valiant police released the ringleaders and left the field. After an inventory was taken, the total breakage was found to consist of a few bruises and Roethe's collar bone. And peace and good will reigned once more.

CHICAGO STOCK TRANSACTIONS.

W. D. & H. H. Physics Standard	25
Hist. of Civ. Pref.	100½
Eng. Cooper, Com.	75
Eng. Smart, Pref.	85
A. I. T. Des. G. Swineford	26
A. I. T. Des. G. Smith, Pref.	86
Calc. Campbell, reg.	45

THINKS STUDENTS OUGHT TO STUDY.

Professor Advances Theory That Colleges Are for Study and Not for Recreation.

We note, in an article from a contemporary, that Prof. Goddard of Swarthmore College has opened a new field of thought. For the first time in the field of human research, the theory of the "Whyness" of students has been investigated. In just such a manner the idea of a spherical world was developed, and there is no telling what may come of Prof. Goddard's hypothesis. If he can prove this hypothetical statement, the future of the "Tech" and other schools will be assured, and

(Continued on Page 16)

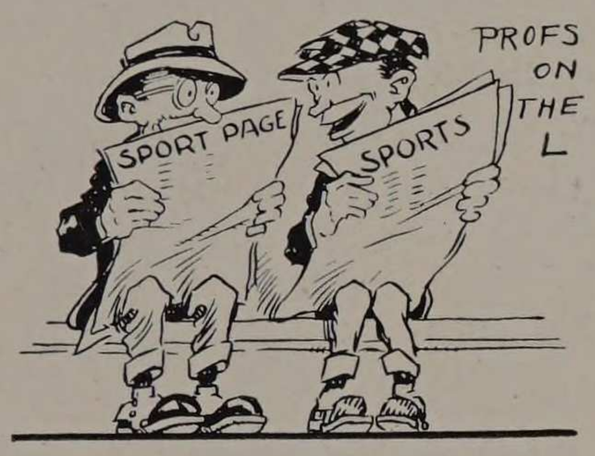
Get a Ticket in the Great

PHYSICS POOL.

(Successors to the Louisiana Lottery.)

For Sophomores only. Juniors excluded because of experience. Lucky number to be drawn by Prof. Wilcox assisted by Profs. Doubt and Hagenow.

Rules of Lottery.—The Lowest grade gets the money. Contest to be held May 35 in the Gym.



Shattuck: "Hurry up and say you don't know, Windsor, I want to ask you a question."

"Upon my honor," a pun, your honor.

Put to the Proof.

"Bobbie" Ostergren: "I will have no more of this matching pennies in class. I have done it and know what it leads up to."

A. A. U. TRACK.

Many of the entries to the annual meet of the Armour Athletic Union have yet to appear. The Soph. Ath. Club is the only club that has handed in a complete entries to date. During the past year, this club has carried away the money in every meet in which they have entered except one, and have come to occupy a place where they are much feared by the other clubs. A list of entries sent in by the S. A. C. follows:

100 and 220 yd. dashes—Lord, Goe, Chase, Kratz, Sieh, Marx, Spitz.

Pole Vault—Wolfson, Thal, Mammes.

Distance Events—Mieczkowski, Pathosky, Kadinsky, Grodsky, Dubinsky, Anning.

Weights—Faulkner, Burroughs, Pfafflin, Wight, Duffy, Lister, Sieck.

Hurdles—Schultze, Sproesser, Schreiber, Steinhart, Wagner, Gross.

The offficials of the meet have been selected by the National Commission, and are as follows: Starter, Goe; Judge at tape, Close; Field Judges, Markham.

Champion Trains at Springer's Gym.

Much enthusiasm has been manifested lately at Harry Springer's gymnasium. Crowds gather every night to watch and hear Frank Gotch Thal in his daily workouts with his wrestling partners, Zbysco McKeage and Dr. Roller Chipman. The champion (of Hyde Park) is preparing for the big finish match with "the pride of the Fresh," and there is no doubt that he will do his best work. The champion in an interview, said, "I will have no trouble in disposing of anyone that they put up against me, as I am in the pink of condition and am willing to meet anyone at any and all times."

FINANCIAL.

One of the biggest deals ever consumated on the 'change lately was the giving over of the South Side Elevated Railway Company to a syndicate composed of several business students of Armour Tech. The Skindicate is composed of Messers. Chase, Vanderkieft, Zook, Galloway, Schreiber, Shaffer, Reilly, Gillidette and Porter, backed by several of the financial magnets of New York. The new controllers will raise "L" with the valuations of the road, install new passenger service, with special facilities for ladies, and raise the fare to ten cents, with barber, bath and laundry fees extra. We hope to see "L"———

(Continued on Page 17.)



LAURA JEAN KIBBEY'S ADVICE

Dear Miss Kibbey:—

I am keeping company with a girl of 16. Her father objects merely because I am a student. Students, he says, make poor husbands. He will not give reasons for this, but has made threats as to what he will do to me if I do not keep away. Now I love the girl and will not give her up. What would you advise me to do.

H. A. L.

H. A. L.

If I were you, Hal, I would beat up her old man and elope with the girl. If the former is impossible, elope with her mother or her little sister. L. J. K.

Dear Miss Kibbey:—

I want to ask your advice. By mistake I asked two girls to go to the Glee Club concert. I like them both equally well and both are all ready to go, but it would be fatal for me to turn down one, as they live in the same apartment building and the other would be sure to find it out. What would you do in my case? F. G. G.

F. G. G.—If I were you———I would either shut all the windows on retiring and then blow out the gas, or borrow money enough to take both the girls. Perhaps they will enjoy the latter way better as they will then have someone to converse with during the entertainment.

Dear Miss Kibbey:—

I have been receiving a letter each week day and a registered letter on Sunday from my fiance in Missouri. Last Sunday I received no letter. Do you think she still loves me and what would you advise me to do? W. L. G.

W. L. G.—If I were you, W. L., I would either prosecute the civil service commission or take the first train back to Missouri and see what is the cause of this neglect. Perhaps———all sorts of calamities might have befallen her. L. J. K.

A MONOTYPE OR TWO.

To B. L. T.

"Immortals," "Quirks and Queries,"
Our husbands, wives and dearies,
And "Signs of the Times"
Struggling with rhimes,
"Identified," "Celebrities Unknown,"
Are only mild diversions,
Pleasant by-paths for excursions,
Compared with reading something of your own.
—S. S.

One of our own contemporaries (not mentioning any names) boasts of the distinction it has become to "Make the Line." Pooh-pooh, Two pooh poohs. From Portland, Ore., to Tampa, Fla., every young man is straining to be able to answer "yes" when the idol of his heart asks him, "Have you made the Mon?"

Discovered. Mr. Crain is the man who put the bean in beanery.

STRANGE, IF TRUE.

Seen on the second floor of an Indiana Avenue apartment house, Sonnenschein and Fairweather are living in perfect harmony.

L. S.

The Gans Klein Co. do a small clothing business in Helena, Mont.

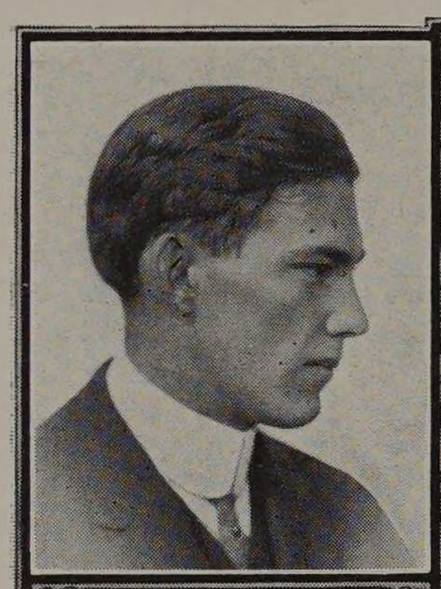
The popular mind should be disabused of the impression that tennis is a lady's game. We'll admit that it is played by a few ladies and that it is played at by a host of others, but we'll not stand by and hear it called a mollycoddle game without raising our voice in protest.


FRESHMEN



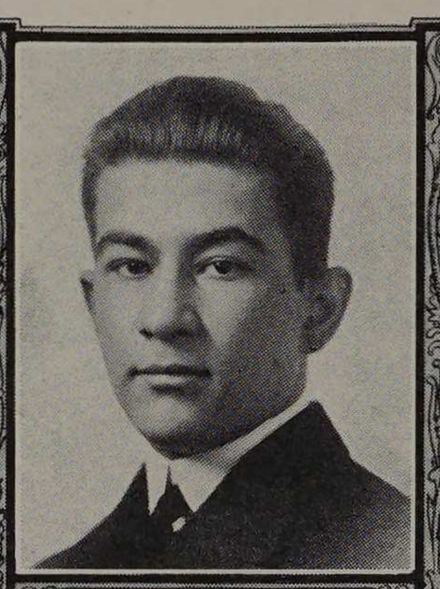
The Class of Nineteen Hundred Sixteen

Freshmen



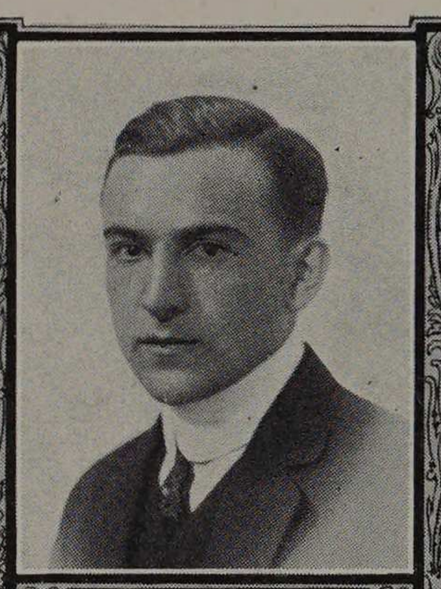
SECRETARY.

J. L. HAYES



VICE PRESIDENT

P. BLOUKE



PRESIDENT

E. D. PIERRE



TREASVRER.

H. C. HOLT

Colors: Blue and White

Yell:—

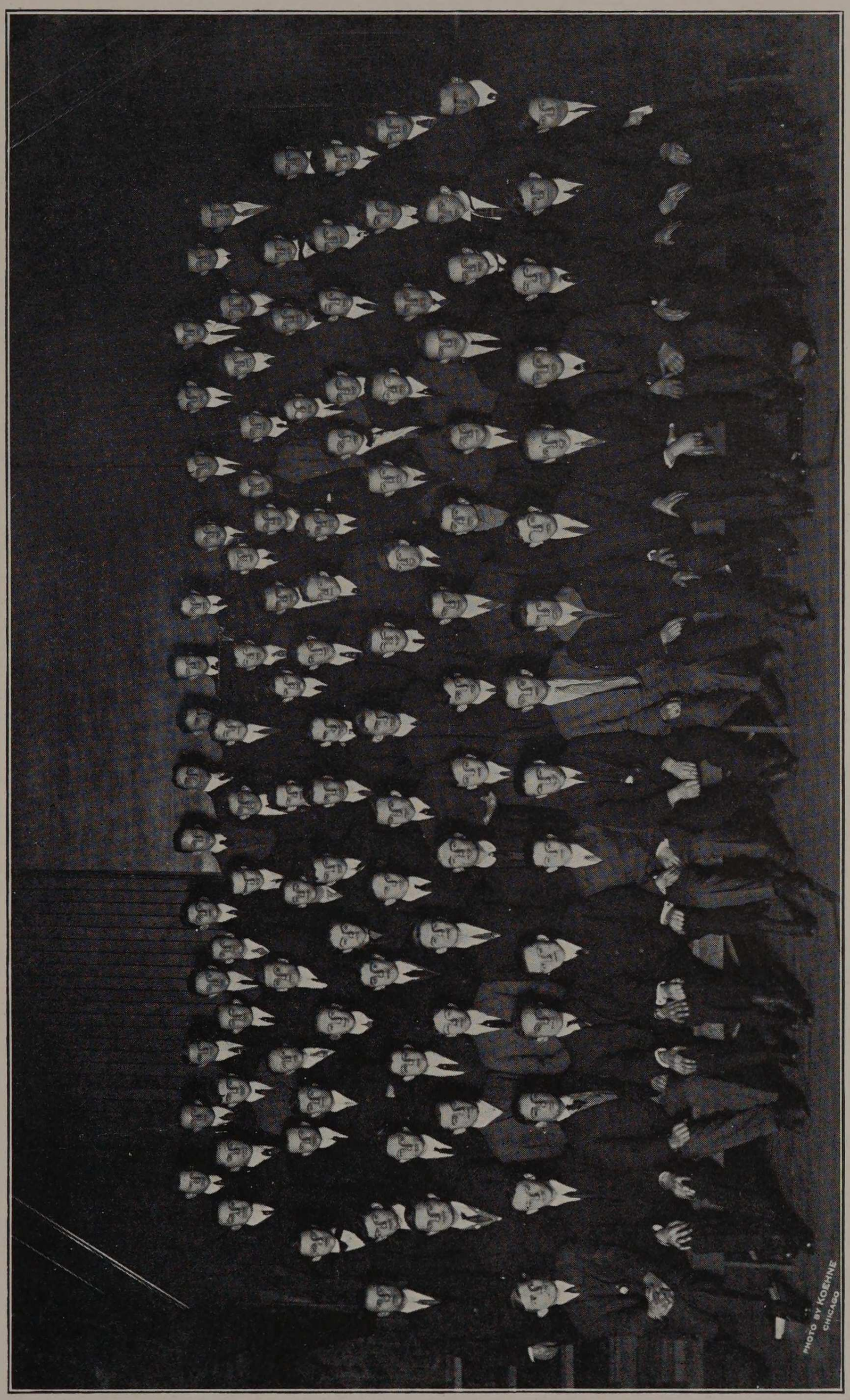
RAH! RAH! RAH! RAH!
ONE NINE ONE SIX
RAH! RAH! RAH! RAH!
ONE NINE ONE SIX
RAH!

Social Committee

R. S. Miesse

B. F. Roos
J. E. Sullivan

E. B. Eames
G. B. Perlstein


PHOTO BY KOEHNE
CHICAGO

CLASS OF NINETEEN HUNDRED SIXTEEN

Students in Mechanical Engineering.

Armacost, Wilber
Beers, Otis E.
Benavides, Manuel
Broman, John
Echlin, Ellis S.
Etten, Henry C., Jr.
Gamson, David
Greenspahn, Abram H.
Hallett, John A.
Homan, Lintner
Hill, Claude
Katzinger, Arthur
Larsen, Harry E.
Le Vally, John R.
Marx, George B.
Monat, Harry G.
Mundt, Wm. C.
Miller, Joseph
Newman, Edward Lee
Phillips, C. T.
Pimstein, Sidney
Ross, Henry B.
Rehnquist, Paul A.
Sawyer, H. Willard
Siebenaler, George
Stephens, Donald Ross
Willet, James
Zohobaugh, Frank

Students in Electrical Engineering.

Abrams, Samuel M.
Alender, Walter
Aske, Irving Elsworth
Barrer, Glen A.
Bland, Henry
Bridgman, W. K.
Byanskas, John
De Las, Casas
Enzler, Leroy J.
Hazel, Lyle L.
Hetherington, James W.
Hillock, James F.
Holmes, Charles F.
Holt, Basil Page
Horn, Harry
Heymer, Rae J.
Iffert, Harry I.
Katz, Harry S.
Kinnally, R. W.
Lanning, Hazen B.
Leatherman, C. M.
Luckow, Lincoln
McCafferty, James P.
McClellan, Robert Prince
McDonnell, Walter J.
McGinty, Ernest A.
Miesse, Richard S.
Oswald, Arthur A.
Ott, Konrad Louis
Potter, M. L.
Prochazka, Rudolph
Porges, Edward D.
Smith, Bernard M.
Van Derrolyan, Charles M.
Wengel, Arthur M.
Wilcox, Maurice L.
Wilson, Harold
Weeth, Edward P.

Students in Civil Engineering.

Alter, Arthur S.
Anderson, Olof E. H.
Arteago, Eduardo
Andzejewski, Chester
Bower, Floyd
Brady, George F.
Buchman, Isaac H.
Byrne, Wm. James
Cooney, James G.
Dolan, Joseph C.
Dean, Clayton
Edelstein, Erwin
Farledansky, Benjamin
Foy, Edgar A.
Hahn, Herbert
Hemple, Harry
Kucera, Charles J.
McHugh, Lawrence J.
McIntosh, R. T.
Miranda, Primitivo
Mowry, J. K.
O'Grady, Omar G.
Roser, Samuel
Schuham, Milton
Simpson, Herman N.
Sosna, Samuel E.
Sostheim, Benno B.
Sterling, Walter A.
Stride, Harry
Sullivan, Joseph E.
Swidler, Joseph
Toler, Frank
Wermuth, Alfred C.
Whitlock, Harold P.

Students in Chemical Engineering.

Boand, Jules F.
Bolte, C. Lawrence
Buck, Harold M.
Durant, Richard F.
Dougherty, Gerald T.
Grasse, C. Arnold
Hawkins, William
Isenberg, Nathan
Kendall, Sidney W.
Landis, Maurice N.
Leiszner, August
Luckow, William
Luttge, Harold
Perlman, William
Perlstein, George B.
Schlesinger, Victor G.
Widell, Arthur L.

Students in Fire Protection Engineering.

Butterman, Samuel
Carr, Carlye
Maguire, Howard B.
Peterson, Leonard
Rainwater, J. P.
Seymour, L. C.

Students in Architecture.

Aarens, Harry B.
Bergman, Lewis J.
Blouke, Pierre
Braun, Isadore
Cable, Max L.
Collins, H. W.
Chaund, Wm. H.
Eames, Emerson B.
Farrier, C. W.
Finkelstein, Sidney
Gronberg, A. E.
Hamilton, Charles
Holt, H. Cecil
Loewenberg, Israel S.
Lundblad, Carl Hader
Lampe, Clarence W.
Mann, Estes W.
Nielson, Elker
Newson, Archie F.
Peek, Carlyle
Pierre, Edward D.
Peterson, Stanley M.
Roos, Bernard T.
Salzman, M. A.
Shelberg, Elmer E.
Spengler, Frank
Swartz, August
Vader, Howard W.
Volz, Wm. H.
Wallbrecht, Howard L.

Letters of A. Fresh to his Brother

Armour Institute, Nov. 21, 1912.

Dear Brother:

On my arrival here I found that they gave more work than I could comfortably digest, so I had to postpone writing to you. My Math Prof however, must have lost himself looking for a lost golf ball, for he did not show up today; accordingly I am able to devote the usual mathematical three hours to the writing of this epistle.

On Sept. 9, 1912, with much signing of papers and transference of paternal cash over the library table the class of 1916 was formally registered.

For a while we freshmen were knocked around as a reward for our greeness, but after our first class meeting on September 25th, we felt the strength of our numbers and let no one "hang it on" '16.

On September 27, at the annual Freshman Handshake, given by the local Y. M. C. A., we had our first view of the "terrible" (?) Sophs in a body. Hostilities were in the air and there was considerable preliminary cheering and "rough-housing." By the end of the evening, however, the cheerful influence of the "feed" and Prof. Smith's Pianologue had such a marked effect that no violence developed.

Our first chance to show the rest of the college that we were the biggest thing that ever happened at Armour came in the Inter-class baseball series. In our first game we snowed the Seniors under by a 16-6 score, but we lost the championship to the Juniors. Our fine showing gives us a chance of landing several varsity positions in the spring.

We repeated our baseball performance in the Inter-class track meet, when the Juniors, by dint of more experience, managed to nose us out by a three-point margin. '16 furnished the stars of the meet in Sullivan, Landis and Katzinger. You ought to have seen those three walk away from the rest of the field, Kid.

About three weeks ago the Sophs developed a mania for painting offensive "'15s" along the sidewalks and walls. For a while we let them enjoy themselves, but finally the artistic pride of some of my classmates was touched, and the night preceding the Freshman Smoker the '15s were mysteriously transformed into majestic '16s.

Smoker evening was on November 8. '16 certainly turned out for the occasion and kept the balcony safe from intruders. The program was introduced, now and then, but it did not interfere with the yelling. The most interesting number on the program was staged later on at Ogden Field. It was rather dark and stormy in that particular locality for a while and various Freshmen and Sophs are suspected of being responsible for the storm. It appears that the Sophs became wearied of being walked upon and sent in a riot call. After the police had been persuaded that the Sophs deserved all that they got, they (the police) returned to their downy cots.

In the Inter-class basketball series, just finished, we once more took second place to the Juniors. However, several of our men will undoubtedly land places on the Tech team.

Well, the clock just struck one, and I guess I'll quit. Yours till the next Prof loses himself,

A. Fresh.

In the Armour Library, Feb. 10, 1913.

Dear Brother:—

The second registration day rolled around about a week ago, and we Freshmen went through the formalities like veterans.

Things have been pretty lively since I wrote you last. As prophesied in my former letter, several of our men landed positions on the Tech Basketball team. Katzinger and Sullivan are playing as regulars and McDonnell was varsity guard until he hurt his foot and was forced to give up.

On November 22 the Rooters' Association inaugurated a new custom at Armour when they held a theatre party. The Frosh were there as usual. At the conclusion of the program, which was far from "nawsty," we adjourned to the various restaurants and chop houses.

The freshmen are proving "live wires" and are active participants in all college activities. A goodly number of them have been seen at the Senior and Junior Proms, and we expect to hear from several of our number when the Glee and Mandolin Clubs stage their annual Home Concert.

Our athletic heroes have been rewarded with numerals, which were presented to them at our last class meeting. That meeting also disclosed some unsuspected parliamentary ability, during a hot discussion over the proposed class constitution. The matter was finally shelved, and bloodshed averted. The bell is ringing for a 9:30 class, so that means goodbye.

A. Fresh.

Armour Institute, April 1, 1913.

Dear Brother:—

Continuing my chronicle, the recent event of greatest importance was the annual Home Concert of the Glee and Mandolin Clubs. I won't attempt a description of the stunts of Home Coming Evening; they must have been seen to be appreciated. Needless to say, '16 furnished its full quota of the talent.

Our own social events come the latter part of the year. The social committee has made arrangements for the Freshmen Dance, which is to come soon. The banquet, which will closely follow the dance, is also being earnestly discussed. The class is eagerly looking forward to the dance and "eats."

Athletics once more have the center of the stage. Baseball practice has commenced, and '16 expects to be well represented on the team. The track is well populated these days, and Armour expects to make a creditable showing.

With half a semester over, I feel as though I were rounding into the home stretch of the Freshman year, so I take the liberty of signing myself,

A. Near Soph.

PS.—The last is, of course, a cheerful point of view.

A. N. S.

FRESHMAN
- ISSUE -

Armour Examinhim

Whether Report
For ARMOUR and the villages of Chicago and Englewood:—
Fair, with Quiz storms due soon.

VOL. MDCCCCXVI No 16. ARMOUR, MAY 1913. Price 1 Cent. On the Elevator 5c.

EXTRA

DOUBLE EXTRA

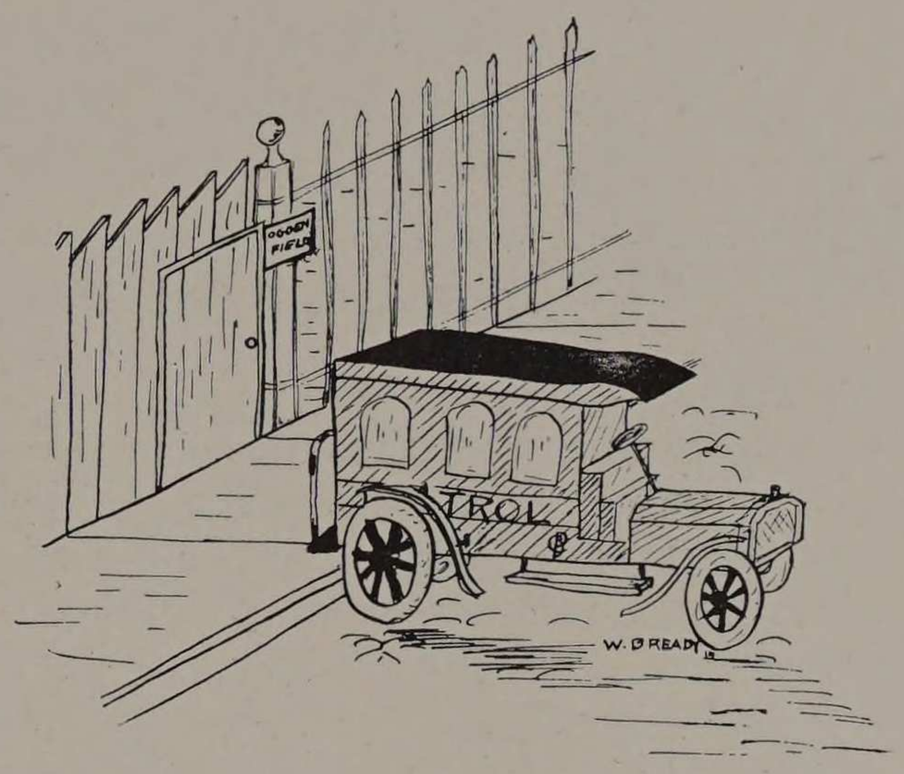
Gentle or docile readers:—This is a scoop with a capital S and a capital COOP.

Having unlimbered our weary minds of the above, we continue:—Upon a balmy Sept. evening, the 15th to be exact, or was it the cool, clear, sparkling morning of the 16th—anyway—something happened. This something was something terrible.

To continue or proceed:—Our special correspondent, a brave, strong, big hearted fellow, full of good, rich, red blood, was given the assignment. Alas! alas to say, however, he never reached the bloody scene of battle, being kidnapped by a crew of ruffians, hired by our contemporary, and hid away until the dirty work was done. Thus we were unable to publish a story of the battle.

BUT:—neither did our contemporary. And—why not? We deduced that their followers had suffered a defeat, but how could we prove it? Easy—astoundingly easy—detective Peek, Carlyle Peek, the world known peeking peeker was put on the job. And the result:—

Words fail our faithful typewriter and we can only point with pride to the dread-



fully realistic picture on our left. Title:—Why the Wearers of the Green, Otherwise Known as the Class of Sixteen, Did Not Annihilate and Remove All But the Grease Spots of Their Oponents.

We will let Mr. Peek explain how with the aid of Smith's Descrip he solved the great mystery.

Continued on page 13.

NOTICE

Attention is called to the fact that the nomenclature of this sheet is the EXHAM-INHIM and no reference is made about examining her. This paper (?) is published by the faithful freshmen members of a **HE** college and any reference to a her is liable to cause fluttering heart failure of the youthful congregation.

EXAMINHIM MAGAZINE SECTION



By BEETRIS EAREWAX

IN THIS COLUM I SHALL ANSER THE CRYS SENT TO ME BY LOVING HARTS AND ENDEVER TO MEND BROKEN AND CRACT JOINTS.

Dear Bee:—

I am a young and beautiful girl of eighteen and believe that one of a number of young engineers is in love with me. He continually refers to A. I. T. What does he mean and how may I know if he really loves me? Yours, Dollie Dilpikle.

ANS.—(1) A. I. T. stands for an interesting time and nothing else. Anybody who has any connection with A. I. T. is supposed to have too much brains to have any heart, so be careful. (2) In the words of Shakespeare:—"Love is measured by the expense account of the lover." If he's a tightwad and didn't take you to the Freshman dance, drop him cold.

Dear Miss Earewax:—

I am engaged to the Armour Institute elevator boy. Though his life is sad, do you think we will be happy?

Yours, Lulu Krum.

ANS.—By no means marry him. You are a girl of too happy a disposition to marry a man who has so many ups and downs in life.

Roland writes:—I dearly love a beautiful girl, but she claims that I talk too much. OH! what shall I do?

ANS.—Very simple, too simple even to ask a child. Become a student at the Institute and spend your time in the Library. Our expert, Mrs. Beveridge, will do the rest.

LOST—ONE INDOOR BASEBALL game on Tuesday, March 4, 1913. Reward for any information. The Junior Class.

PANTS POCKET ESSAYS
By Poetta Pants.

THE FRESHMAN CHEMICAL COURSE

The Freshman Chemical Course at the Armour Institute of Technicalities was installed in A. D. the Mayflower for the benefit of the clothing stores and the chemical glassware people.

The object of the course, according to the Institute catalog is to familiarize the student with analytical chemistry of the qualitative and quantitative variety. The real object, however, is to slowly kill off most of the prospective members of the Chemical Course. Thus those that stick it out have a better chance of getting a job after they have performed their last explosion.

Rumors have it, that on account of the thorough experience received, his Satanic majesty employs none but Armour graduates in his fume factory.

The profs., having interests in the clothing business, base their marks on the number of suits, trousers, vests, etc., that are consumed per semester.

To join the class it is necessary to procure a slip of cardboard, called a breakage card, which closely resembles a meal ticket. The only difference is that it costs $10 and is not worth a ham sandwich when presented at Armour Square. There is a mythical story that once upon a time a fellow got some money refunded at the end of the term. This myth has all other mythical myths backed off the boards.

The object of the laboratory course is to see how fast you can make the glassware companies declare 7% dividends and how fast you can transform a simple piece of cardboard into a neat sieve.

FOUND—ONE DEAD FISH SMELL ON the 4th floor, main building. If not removed at once, there is likely to be flowers and soft music for one member of the Rothwell family. Signed:—The Profs and students who are forced to use the 4th floor.

SPORTS—BASE BALL—ATHLETICS

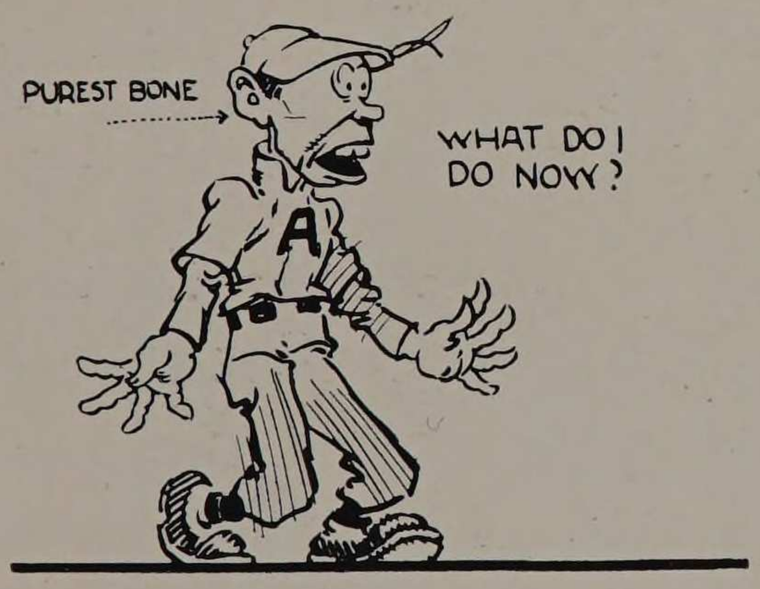
THE CUBAN MYSTERY.

In the first place he is a Cuban. Now, my dear children, what does that indicate? A Baseball Player! Right you are, and a pitcher at that.

J'ever see Miranda (Primitive Miranda in full) pitch. He's got Carver catching foul tips in indoor ball beat a mile. Some regular game of ball he pitches, too. "SENIORS—6, FRESHMEN—16, MIRANDA PITCHING," is what the headlines were one day last fall.

Now you'd think that with a handicap like Primitive attached to him he couldn't do more than one thing. 'Nother think coming, however. You should have seen him bring down that liner in the indoor baseball game of March 4. Incidentally the final score was Juniors 3, and the Freshmen 8.

Far be it from us to predict what is going to happen with him in the box during the conference games, but let it suffice to say that we can rest easy on our pins as to the results.

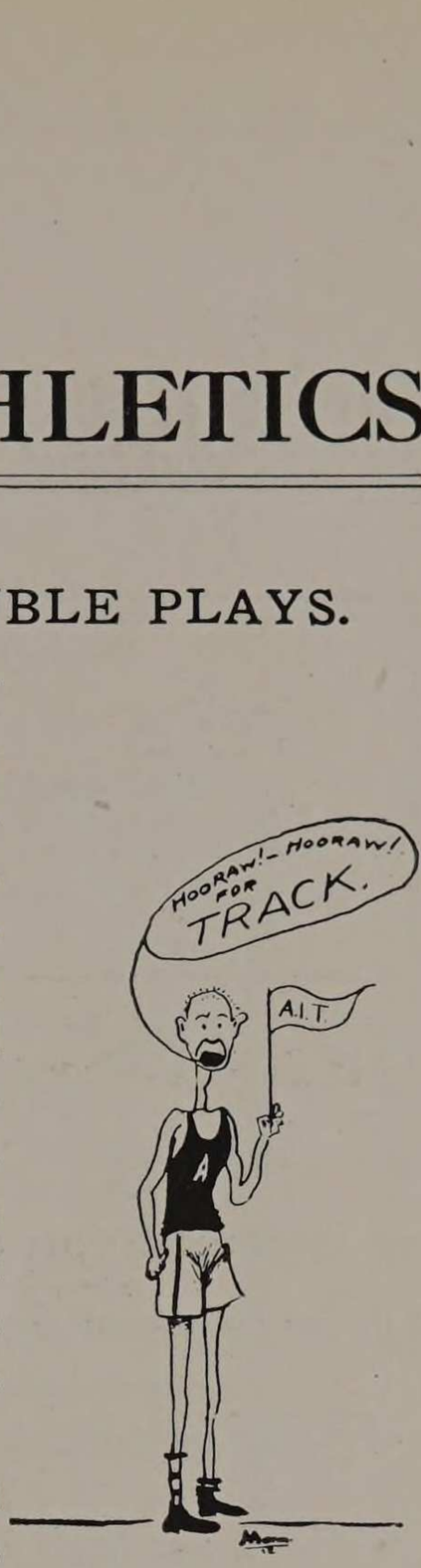


What they look like when Primitive gets to 'em

WANTED—POSITION BY AN A1 SERgeant-at-Arms. Best of references. Experience as S. A. of freshman class. Nuf Sed. Apply to McDonnell, '16.

ASSISTS AND DOUBLE PLAYS.

What do you think of that husky fellow of the blue and white who burned up the cinders in the track meet last fall? I guess Kid Sullivan did some tall grabbing for a number of those 32 points.



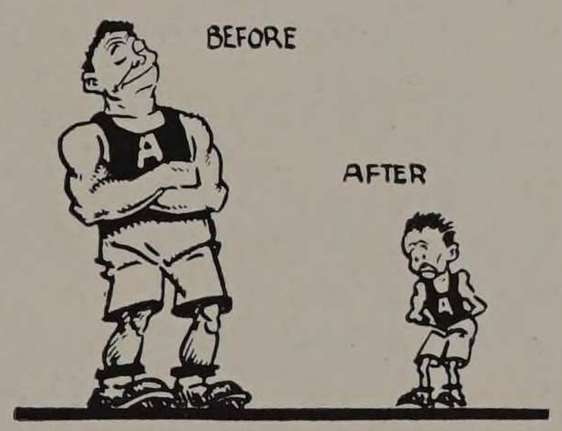
Sort of hard lines to lose the meet by three points, but still those fussy Juniors have to be petted.

Rumors have it that some generous members of the Freshman class have started a subscription toward raising the means to enable Starter Freud to take some lessons in regard to the intricacies of the starting gun.

Altho' '14 beat the boys 9 to 4 in outdoor ball, notice is to be taken of the fact that we cleaned them up to the tune of 8 to 3 when it came to the indoor variety.

Another gentle reminder is that '16's basket ball squad was the only one to take a game away from the victorious Juniors and with a score of 14 to 21 at that.

And I guess that there was nothing slow in the showing of the '16 boys on the varsity team.



As the Seniors looked to the Freshman

LOST—ONE BRASS BAND. ANY INformation pertaining thereto desired.

IT IS THE EXAMINHIM AGAINST THE SYSTEM

It is, has been, and always will be, the plan and policy of this journalistic journal to attempt to protect the physical and mental interests of our readers single handed.

BUT WE HAVE REACHED A CRISIS.

We must call upon our friends to come to our aid and help us in YOUR fight. We need your honest help in helping us prevent the future engineers from becoming hopeless cripples.

WE ARE GOING AFTER THE SYSTEM.

And why? For many years, while we have pulled our weary limbs up many flights, the high handed and bloated aristocracy of the SYSTEM, who call themselves superior, have lolled in ease and ridden in luxury. But the worm has squirmed.

WE REFUSE TO WALK AND DEMAND TO RIDE.

We hasten to add here, that the EXAMINHIM has no hidden motives or desires in this glorious fight. We simply want to be counted on our patrons' side. We want no offices, no positions or anything lucrative, nothing more than the power to fight the people's battles.

Their slogan, their war cry, must go. Never again shall the honored halls vibrate with the college yell of the SYSTEM. The motto, "THE ELEVATOR FOR THE ELEVATED ONLY" will be buried in the depths of the stone yard and no more shall we be asked to show our doctor's certificate.

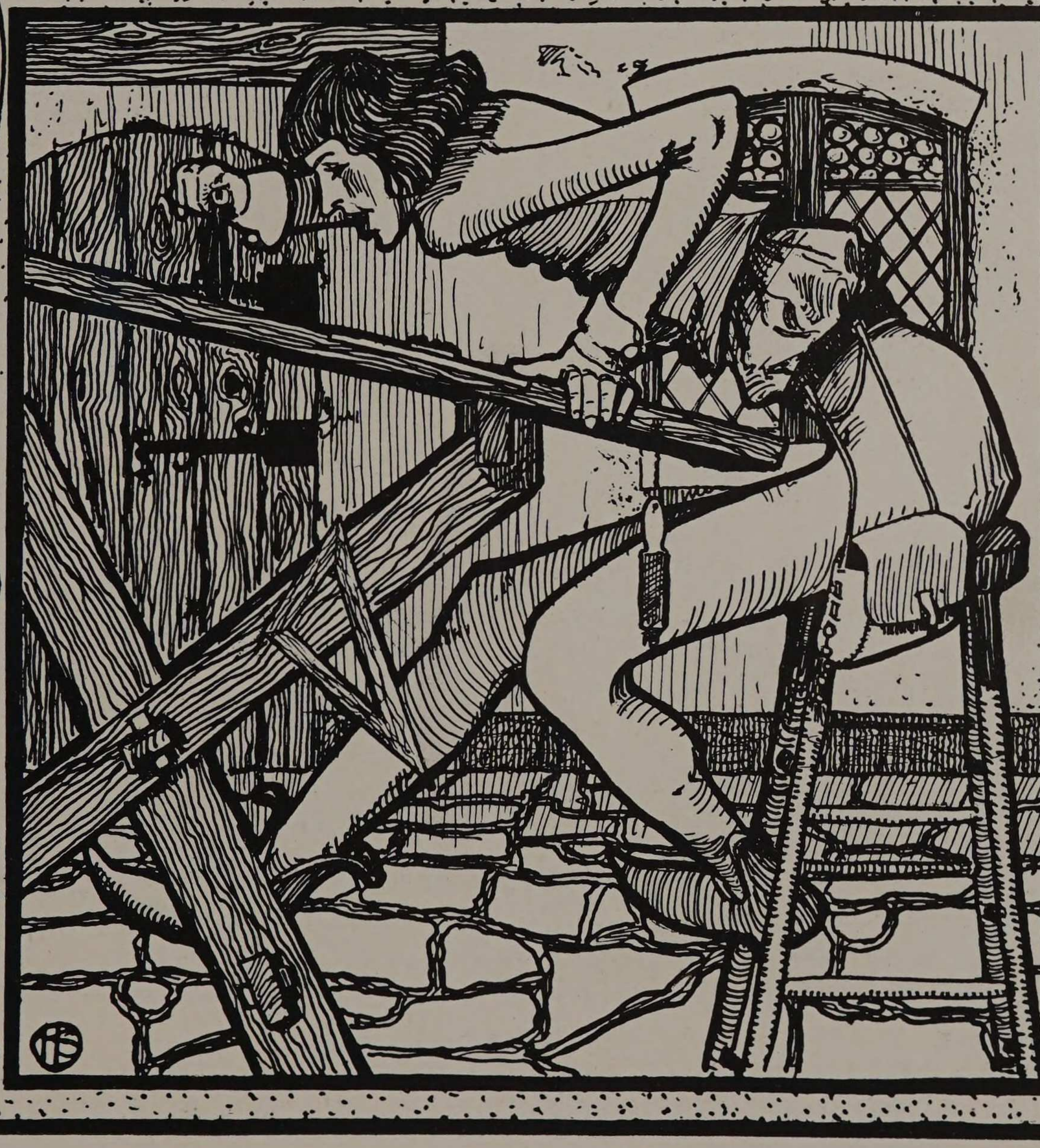


WE WILL RIDE IN PEACE.

So get ready to strike and to strike hard. Hit wherever hittable. Remember Prof. Tibbals' "MASS ACTION." Get those that are in the front row and REMEMBER THAT IT IS THEIR PRIVILEGE TO HOWL ACCORDING TO THEIR HURTS.

So charge, make them HOWL AND THEN WE RIDE.

The Department of ARCHITECTVRE.



ATELIER NOTES

The first smoker of the year was held in the Lunch Room of the Art Institute, Oct. 4, 1912. At this smoker Bishoff and Faulkner told of their trip through Europe.

On Nov. 1, 1912, the Architects gave a Halloween Dance and the attendance was restricted to architects and their friends.

The second smoker was held at the Art Institute on Dec. 19, 1912. Bernard Greengard, the winner of the Traveling scholarship of 1910-1911 gave an interesting talk.

Jan. 17, 1913, marked one of the biggest social successes of the year, the Architects' Dance at LaSalle Hotel. At this affair Miss Mary Garden consented to be guest patroness. Some of the Irish Players honored us with their presence.

The third smoker was held April 3, 1913, in the Club Room of the Art Institute. At this Smoker Mr. Walter Burley Griffin talked about the planning of a city from the ground up. Mr. Cox and Steindler furnished the music for the evening.

Everyone of our department has the futurist feeling, therefore the Architects gave a futurist dance in the Lunch Room, April 8, 1913, at 4 P. M.

OFFICERS OF THE ATELIER

Massier.....William A. Lautz
Secretary.....Gordon S. Barber
Treasurer.....Murray Hetherington
Social Chairman.....Arthur A. Woerner
Sergeant at Arms.....Emil Zillmer
Fulcrum Representative.....Joseph Lindquist
Purchasing Agent.....Julius Steindler

Senior Officers.

Massier.....William Lautz
Treasurer.....Jacob H. Bischof
Social Committee.....Arthur A. Woerner and A. Dwight Gibbs

Junior Officers

Massier.....Gordon S. Barber
Treasurer.....Roscoe H. Zook
Social Committee.....Harold Sexsmith

Sophomores

Massier.....B. K. Gibson
Treasurer.....A. B. Griffith
Social Committee.....E. A. Schiffers

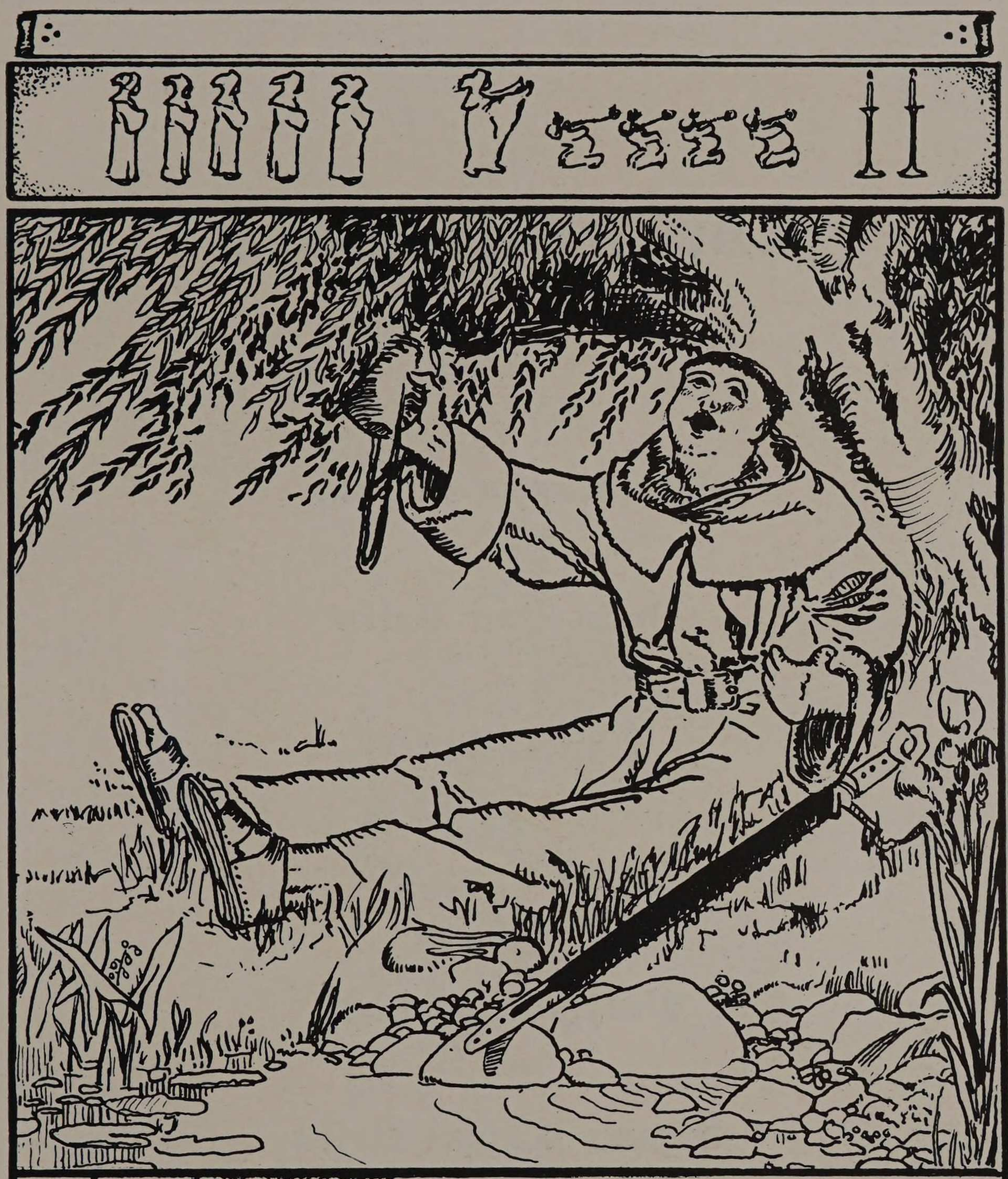
Freshmen

Massier.....E. W. Mann
Treasurer.....E. R. Nielsen
Social Committee.....H. C. Holt

CLASS of 1914.







FRATERNITIES.

The Fraternities

Phi Kappa Sigma

Delta Tau Delta

Tau Beta Pi

Eta Kappa Nu

Omega Lambda

Sigma Kappa Delta



E.A.Wright Phila.
U.S.Design Patent
3311

Phi Kappa Sigma

Founded at the University of Pennsylvania, 1850

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
Iota—1855	Columbia University
Mu—1858	Tulane University
Rho—1892	University of Illinois
Tau—1872	Randolph-Macon College
Upsilon—1872	Northwestern University
Phi—1873	Richmond College
Psi—1890	Pennsylvania State College
Alpha Alpha—1894	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 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 Michigan
Alpha Pi—1906	University of Chicago
Alpha Rho—1911	Cornell University



Phi Kappa Sigma

Alpha Epsilon Chapter

Chartered, June 8th, 1898

FACULTY

John J. Schommer, Chicago, '10

INSTITUTE

Seniors

Paul Kadel Brown
Charles Harry Arnold
James Henry Hansen
Hubert Elmore Willson
William Carl Buttner

Juniors

Harold Dickinson Gumpper
Philip Fenton Auer
Charles Egbert Gleason
John Jucker, Jr.
John Reynolds Dewson
Frederick Lucius Brewer
John Henry McCormack
Olaf Emil Kling
Robert Grant Bohn

Sophomores

Frederick Charles Gedge, Jr.
Ivar Roy Swanson
Charles Thomas Phillips
Fred Lindsay Ward
George William Sproesser
Elmer John Sieh
James Frasier Eales
John Joseph Windsor
Harold Edmund Anning
Lintner Homan

Pledged

Julian Lee Hayes
Jules Francis Boand
Walter Adam Sterling
Charles Lawrence Bolte
Emerson Rexford Eames
Richard Fuller Durant

CLASS of 1914.



BREWER
EAMES
McCORMACK
EALES

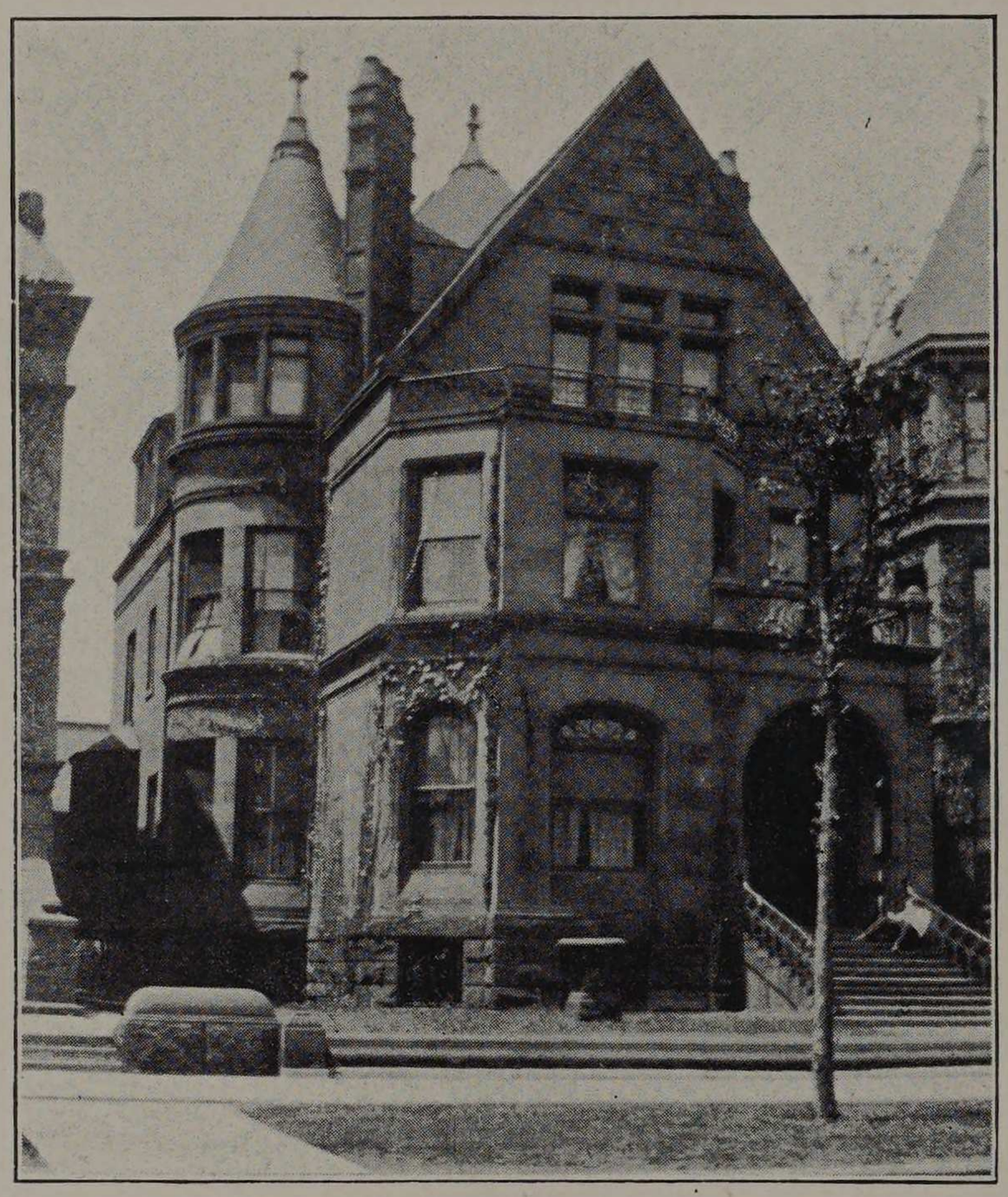
SPROESSER
BOHN
WILLSON
DEWSON

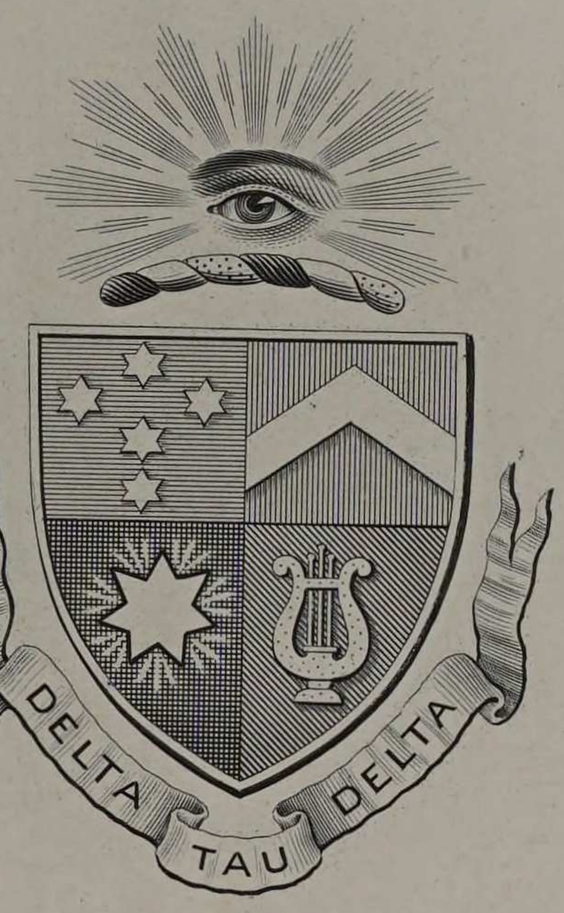
HAYES
SIEH

WINDSOR
SWANSON
BUTTNER
JUCKER

PHILLIPS
BOLTE
GLEASON
BOAND

AUER
ARNOLD
GUMPPER
STIRLING





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Frank F. Rogers
1908

Dreka, Phila.

Delta Tau Delta

Founded at Bethany College, 1859

Chapter Roll

SOUTHERN DIVISION

Lambda—1881	Vanderbilt University.
Pi—1878	University of Mississippi.
Phi—1898	Washington and Lee University.
Beta Epsilon—1882	Emory College.
Beta Theta—1883	University of the South.
Beta Iota—1889	University of Virginia.
Beta Xi—1889	Tulane University.
Gamma Eta—1903	George Washington University.
Gamma Iota—1903	University of Texas.
Beta Delta—1912	University of Georgia.

WESTERN DIVISION

Omicron—1880	University of Iowa.
Beta Gamma—1888	University of Wisconsin.
Beta Eta—1883	University of Minnesota.
Beta Kappa—1883	University of Colorado.
Beta Pi—1893	Northwestern University.
Beta Rho—1893	Leland Stanford, Jr., University.
Beta Tau—1894	University of Nebraska.
Beta Upsilon—1874	University of Illinois.
Beta Omega—1898	University of California.
Gamma Alpha—1900	University of Chicago.
Gamma Beta—1901	Armour Institute of Technology.
Gamma Theta—1902	Baker University.
Gamma Kappa—1905	University of Missouri.
Gamma Mu—1908	University of Washington
Gamma Pi—1911	Iowa State College.

NORTHERN DIVISION

Beta—1862	Ohio University.
Delta—1874	University of Michigan.
Epsilon—1876	Albion College.
Zeta—1882	Western Reserve University.
Kappa—1867	Hillside College.
Mu—1866	Ohio Wesleyan University.
Chi—1881	Kenyon College.
Beta Alpha—1887	Indiana University.
Beta Zeta—1871	Indianapolis University.
Beta Delta—1875	De Pauw University.
Beta Phi—1894	Ohio State University.
Beta Psi—1894	Wabash College.
Gamma Delta—1902	University of West Virginia.
Gamma Lambda—1907	Purdue University.
Psi—1910	Wooster University.
Gamma Xi—1910	University of Cincinnati.

EASTERN DIVISION

Delta—1863	Allegheny College.
Gamma—1861	Washington and Jefferson College.
Nu—1906	Lafayette College.
Rho—1874	Stevens Institute of Technology.
Upsilon—1879	Renssellaer Polytechnic Institute.
Omega—1897	University of Pennsylvania.
Beta Lambda—1889	Lehigh University.
Beta Mu—1889	Tufts College.
Beta Nu—1889	Massachusetts Institute of Technology.
Beta Omicron—1890	Cornell University.
Beta Chi—1896	Brown University.
Gamma Gamma—1902	Dartmouth College.
Gamma Epsilon—1902	Columbia University.
Gamma Zeta—1904	Wesleyan University.
Gamma Nu—1908	University of Maine.
Gamma Omicron—1912	Syracuse University.



Delta Tau Delta

Gamma Beta Chapter

Chartered May 10th, 1901

INSTITUTE

Seniors

John James Aeberly
Daniel Connell
Philip Aubrey Copenhaver
Carl William Garrison
Archbald Dwight Gibbs
Paul Fred Greifenhagen
Albert Frederick Holden, Jr.
Raymond Joseph Koch
John Logan Stewart
Raymond Leo Walsh

Juniors

Thomas Cornish Bolton
Charles Abbott Dean
Walter Herman Hallstein
Warren Hasting Hamilton
Albert Nicholas Koch
Joseph Calvin Norton
Joseph Charles Wright

Sophomores

Joseph Frederick Chamberlin
Lyman Withrow Close
Frank George Cooban
Philip Rodney Hockenberger
Alfred Hopkins Johnson
Edwards Mars Kratz
Jack Anderson McKeage
Walter Henry Rietz
Clifford Liston Burnham

Freshmen

Richard Stanley Miesse

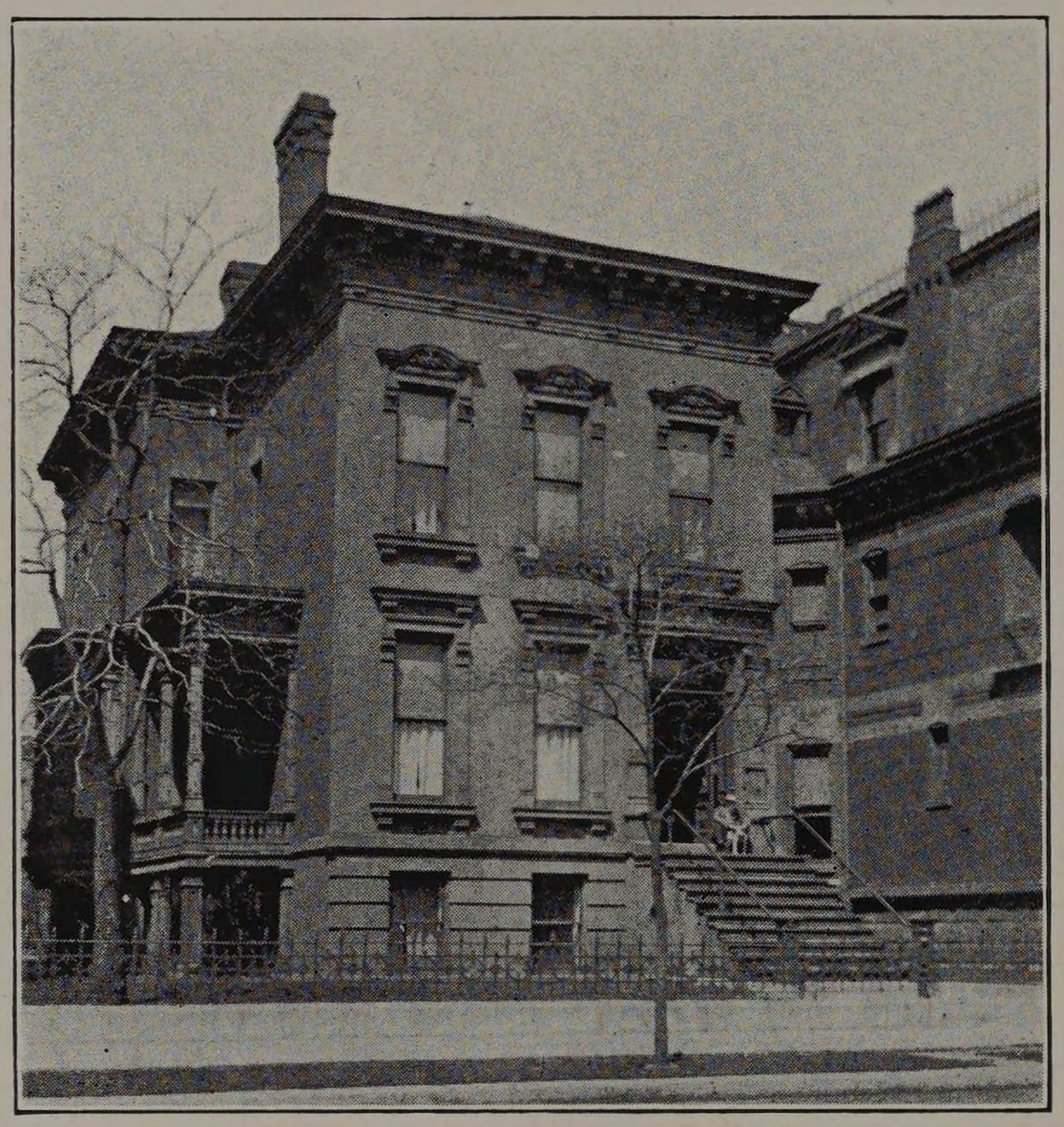
Pledged

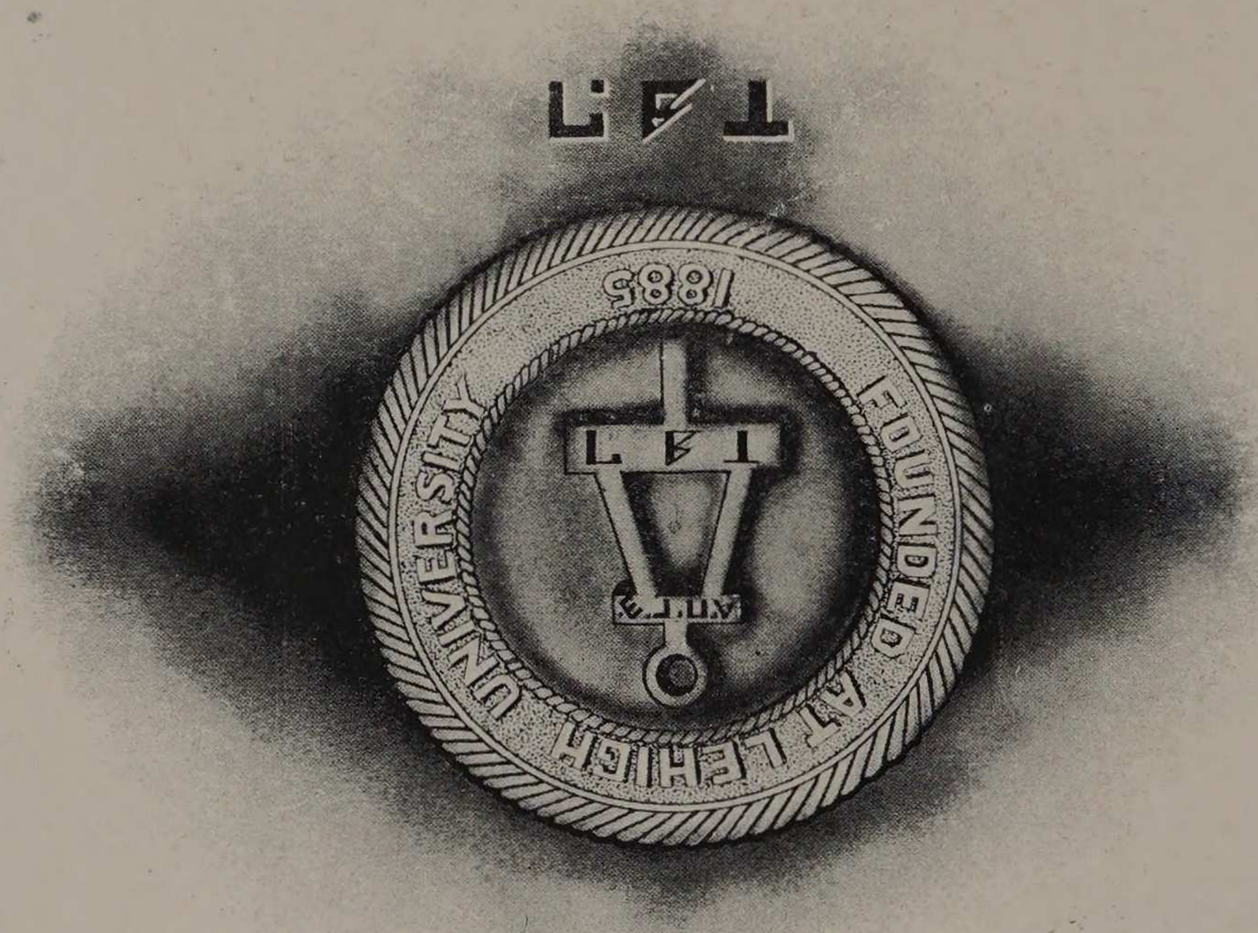
Henry Bland
Pierre Blouke
Estes W. Mann
Howard Burce Maguire
Joseph Edward Sullivan
Herbert Patterson Sherwood



KRATZ JOHNSON NORTON MIESSE RIETZ HOCKENBERGER
BURNHAM WRIGHT COOBAN WALSH CHAMBERLIN
GARRISON HOLDEN GIBBS AEBERLY HAMILTON HALLSTEIN
STEWART CONNELL DEAN GREIFENHAGEN KOCH COPENHAVER

CLASS of 1914.



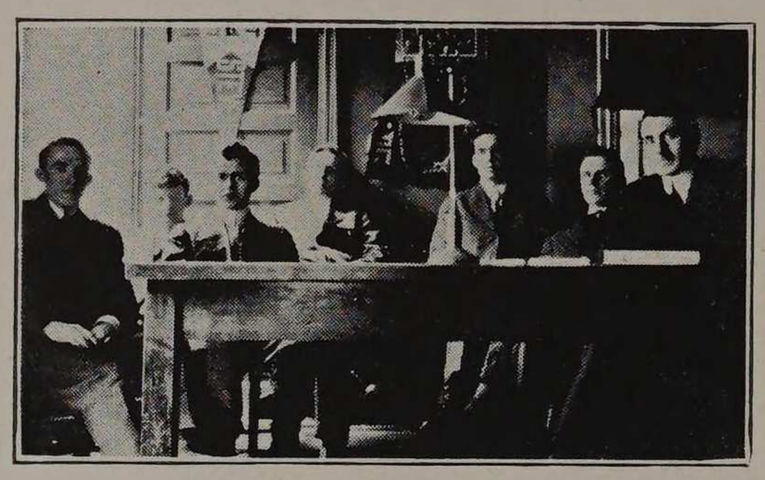

LEHIGH UNIVERSITY
FOUNDED AT LEHIGH
1865
1866

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
Rensselaer Polytechnic Institute—1908	Gamma of New York
University of Iowa—1908	Beta of Iowa
University of Minnesota—1909	Alpha of Minnesota
Cornell University—1910	Delta of New York
Worcester 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



Tau Beta Pi

Beta Chapter of Illinois

Chartered April 6th, 1906

FACULTY

E. H. Freeman, Armour '02
C. W. Leigh, Illinois '87
E. S. Libby, Armour, '02
E. W. McMullen, Armour '09
D. P. Moreton, Armour '06
H. L. Nachman, Armour '02
R. C. Ostergren, Armour '08
J. C. Penn, Armour '05
R. V. Perry, Armour '97
M. B. Wells, Purdue '94

HONORARY

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

INSTITUTE

Seniors

Fred T. Bangs
Jacob H. Bischof
Jesse D. Bradford
E. Roger Burley
August C. Cramer
Ralph M. Crow
Donald A. Drozeski
Paul F. Greifenhagen
Henry F. Israel
Brewster H. Jarvis
Raymond J. Koch
William H. Lautz
John T. Lucas
William L. Munn
George L. Opper
Charles H. Spencer
Max D. Wald
Herbert S. Walin
John Wintercorn, Jr.
John A. Wood

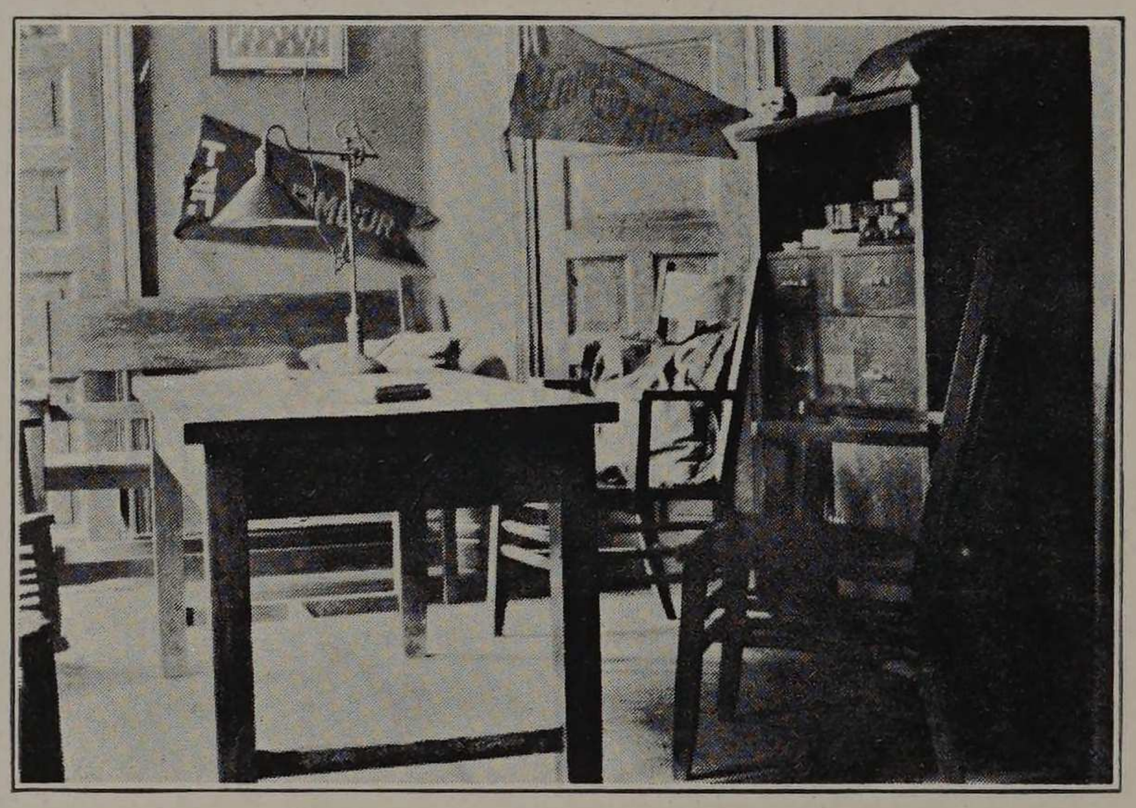
Juniors

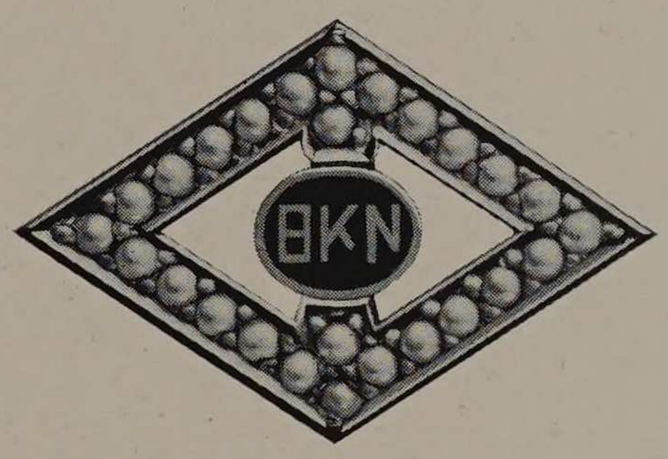
Herbert E. Jedamske
Charles A. Dean
Walter W. Ehrlich
Arthur G. Eliel
Harry E. Erickson
Fred D. Farrar
Matthew J. Fleming
Clark C. Heritage
Joel A. Pomerene
Stephen P. Walker



NACHMAN WINTERCORN BRADFORD PERRY CROW
ISRAEL KOCH DROZESKI BURLEY LAUTZ BANGS LUCAS
WOOD BISCHOFF GREIFENHAGEN OPPER MUNN JEDAMSKE WALIN JARVIS
McMULLEN FREEMAN PENN SPENCER CRAMER WELLS WALD

THE CYCLE.




BKN

Eta Kappa Nu

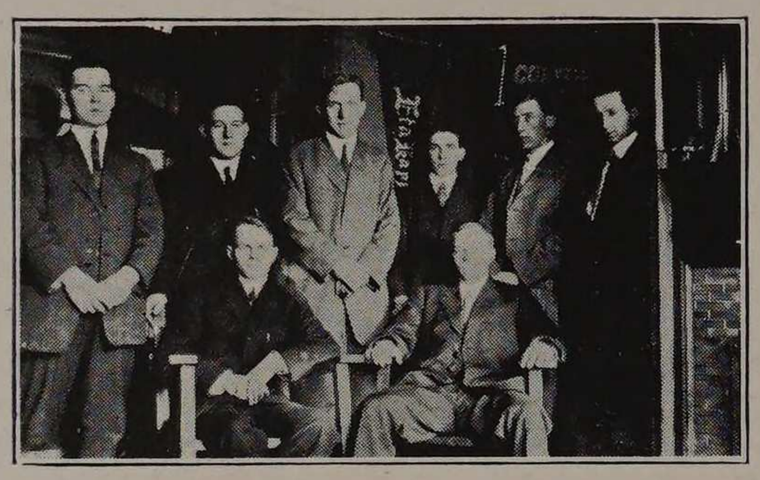
Electrical

Founded at the University of Illinois, 1905.

Chapter Roll

Alpha.....University of Illinois, Urbana, Ill.
Beta.....Purdue University, West Lafayette, Ind.
Gamma.....Ohio State University, Columbus, O.
Delta.....Armour Institute of Technology, Chicago, Ill.
Epsilon.....Pennsylvania State College, State College, Pa.
Zeta.....Case School of Applied Science, Cleveland, O.
Theta.....University of Wisconsin, Madison, Wis.
Iota.....University of Missouri, Columbia, Mo.
Kappa.....Cornell University, Ithaca, N. Y.
Lambda.....University of Pennsylvania, Philadelphia, Pa.

Pittsburg Alumni Chapter, Pittsburg, Pa.
Chicago Alumni Chapter, Chicago, Ill.
New York Alumni Chapter, New York, N. Y.



Eta Kappa Nu

Delta Chapter

Chartered 1909

FACULTY

H. W. Nichols, '08.

INSTITUTE

Seniors

Fred T. Bangs
Marston Curtis
Emil A. Hager
Walter G. Stansel
Raymond L. Walsh

Juniors

Harry L. Case
John R. Charlton
Edward L. Nelson
Robert W. Whitmore

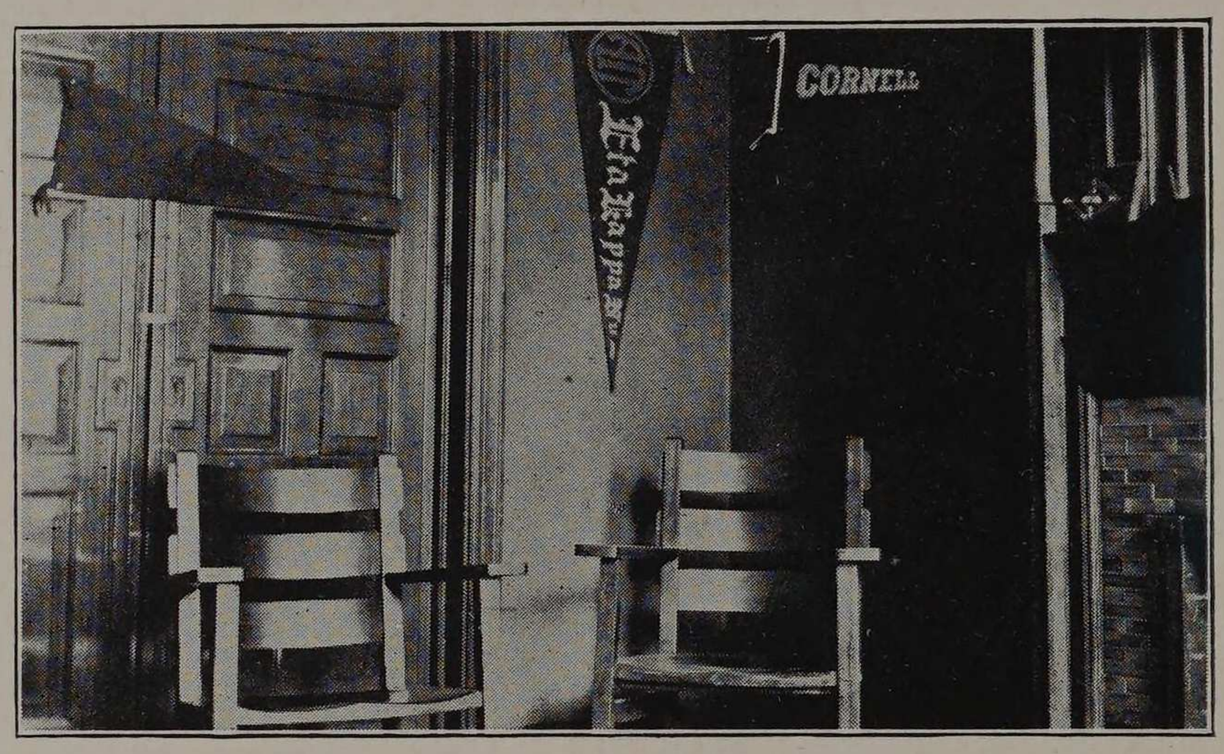
Pledges

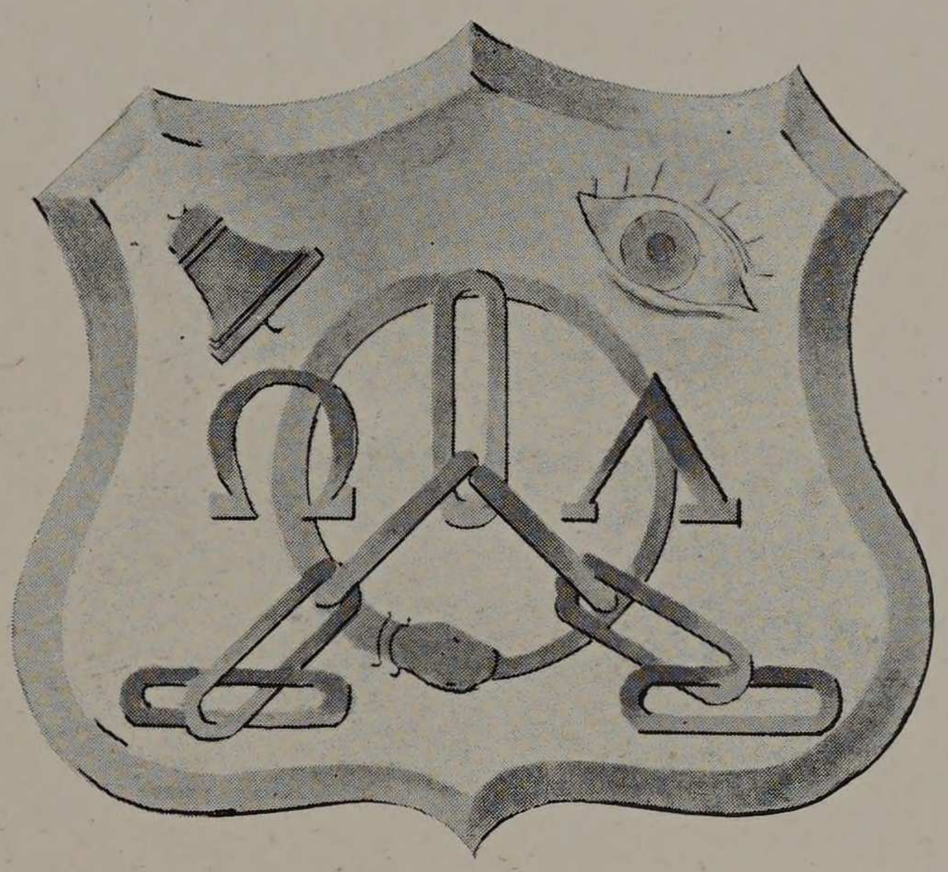
Thomas C. Bolton
Francis Fernandez
Arthur F. Schoembs
John W. Turner



HAGER NELSON BANGS NICHOLS WALSH STANSEL
CASE CURTIS CHARLTON
WHITMORE

THE CYCLE.







Omega Lambda

Local

Organized October 21st, 1908

FACULTY

Robert Vallette Perry, Armour '97
Earl Watson McMullen, Armour '09
John Cornelius Penn, Armour '05

INSTITUTE . . . .

Seniors

Donald Adams Drozeski
George Fleming Irving
Don James Hamilton
George Lionel Opper
Roscoe Doolittle Williams
Emil Gustave Zillmer

Juniors

Glen Cooper Carnahan
Russel Wallace Cunliffe
Fred Diggins Farrar
Earl Hendrickson
Jens Anton Holmboe
Edwin Albert Pynchon
Henry Dreusicke Roller
Leslie Van Zandt Somers
Harold Ogden Sexsmith
Roscoe Harold Zook

Sophomores

Cecil Earle Patterson
Walter Scott Pfeifer
Lester Small Downey
Bernard Shearer Graves

Pledged

Walter Max Ehrlich
Herbert Egan Jedamske
Harry H. Strain
C. Arnold Grasse
Alfred Clemenz Wermuth
Edward A. Pierre



PENN IRVING PYNCHON CUNLIFFE DROZESKI ZILLMER PATTERSON
GRAVES SOMERS ROLLER OPPER WILLIAMS HOLMBOE DOWNEY McMULLEN PERRY
GRASSE JEDAMSKE ZOOK HENDRICKSON PFEIFER EHRLICK STRAIN




SIGMA
KAPPA
DELTA



Sigma Kappa Delta

Local

Organized September 20th, 1912

FACULTY

William G. Smith, Cornell, '92
Stanley Dean, Armour, '05
John J. Gilbert, Pennsylvania, '06
James C. Peebles, Armour, '04

INSTITUTE

Seniors

Orville C. Badger
William H. Lautz
Herbert S. Walin

Juniors

Fay Neal Compton

Sophomores

J. Friece Adamson
George R. Bartling
Denton A. Chase
William V. Lindblom
Earl W. Porter
Emil A. Schiffers
Ernest F. Schreiber
Charles P. Schulze
Clarence E. Steinhart
Chester F. Wright

Special

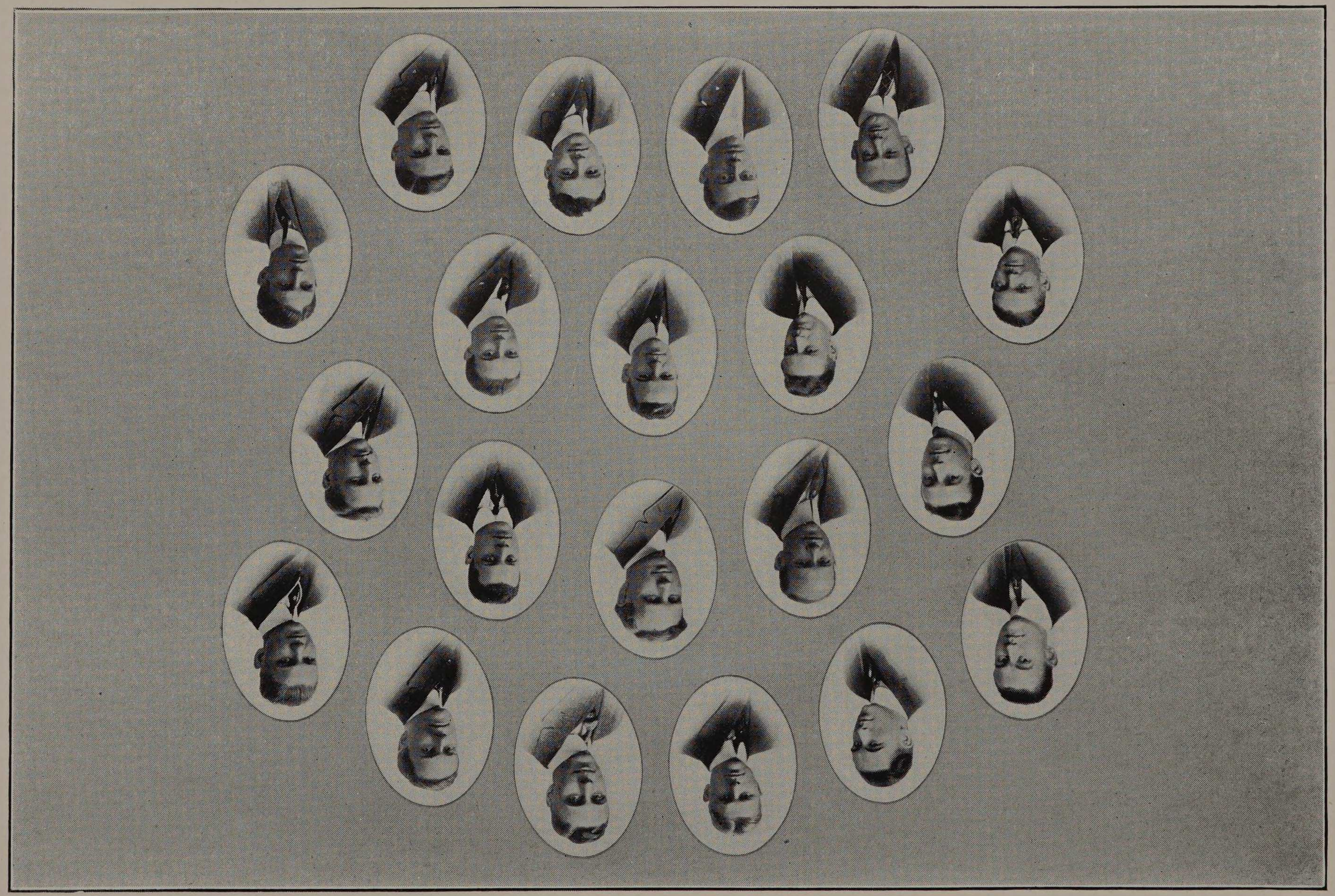
Calvin W. McFerran

Pledged

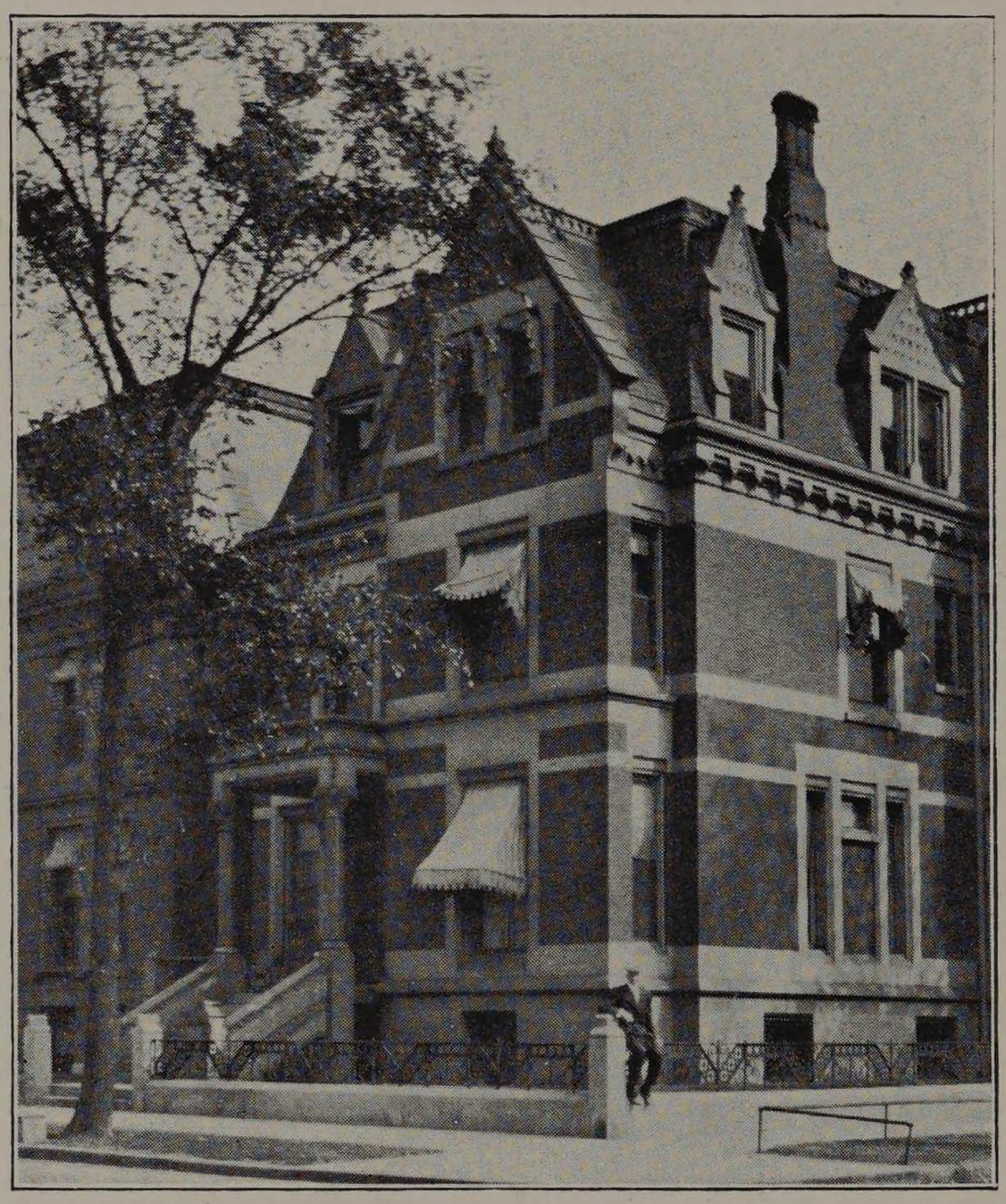
Stanley M. Peterson

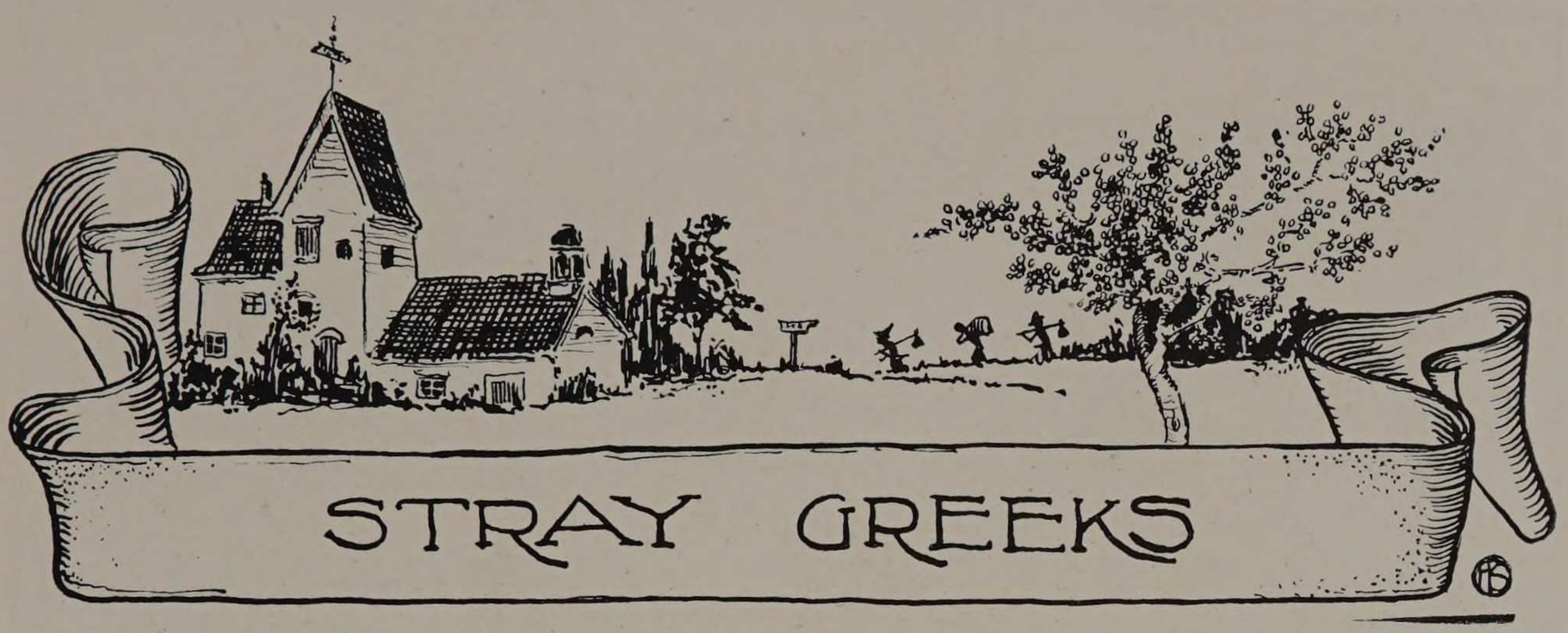
CLASS of 1914.

SCHULZE SHREIBER CHASE WRIGHT ADAMSON SCHIFFERS
PEEBLES PORTER SMITH BARTLING DEAN
STEINHART LAUTZ GILBERT BADGER McFERRAN
WALIN LINDBLOM COMPTON PETERSON

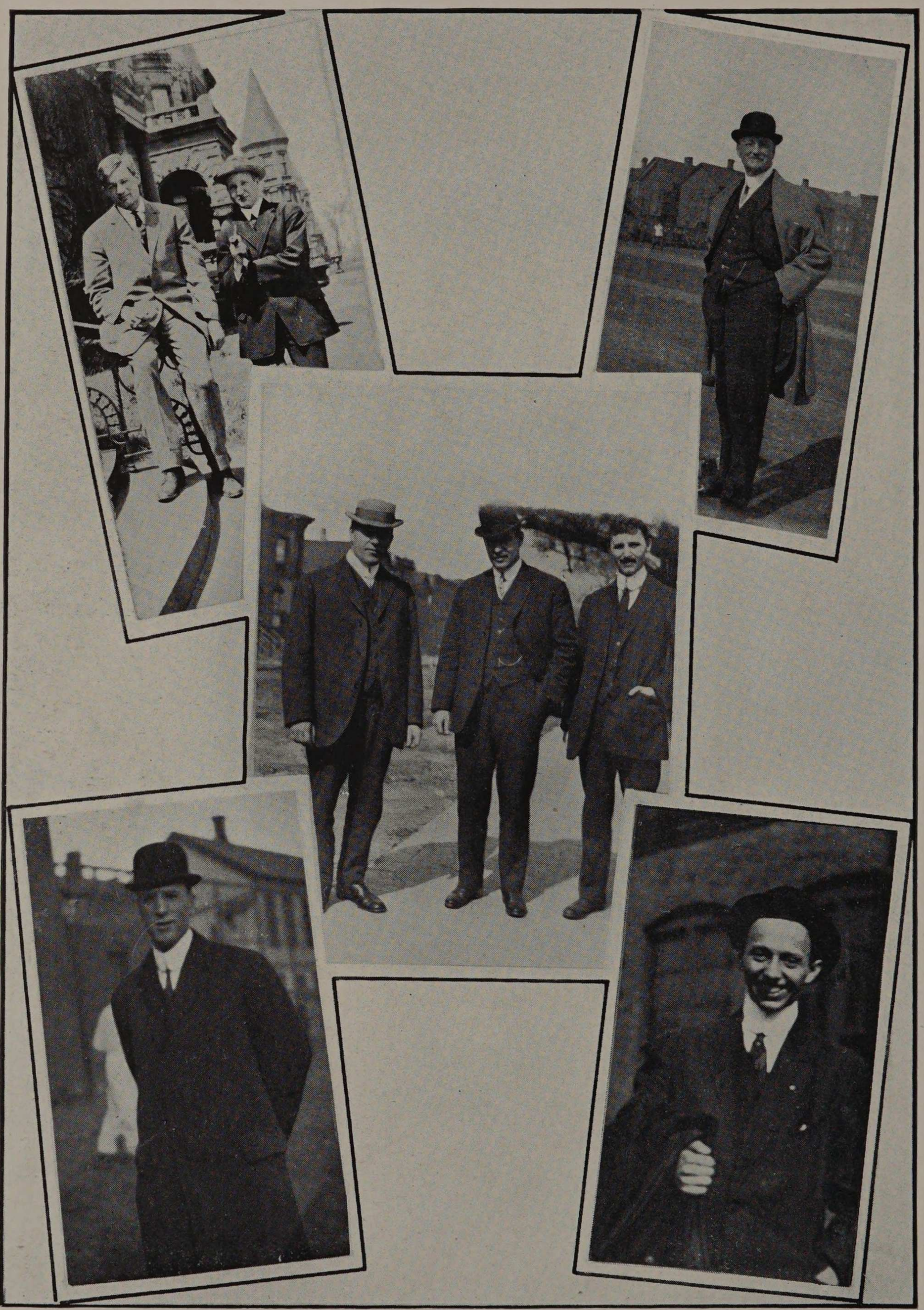


THE CYCLE.





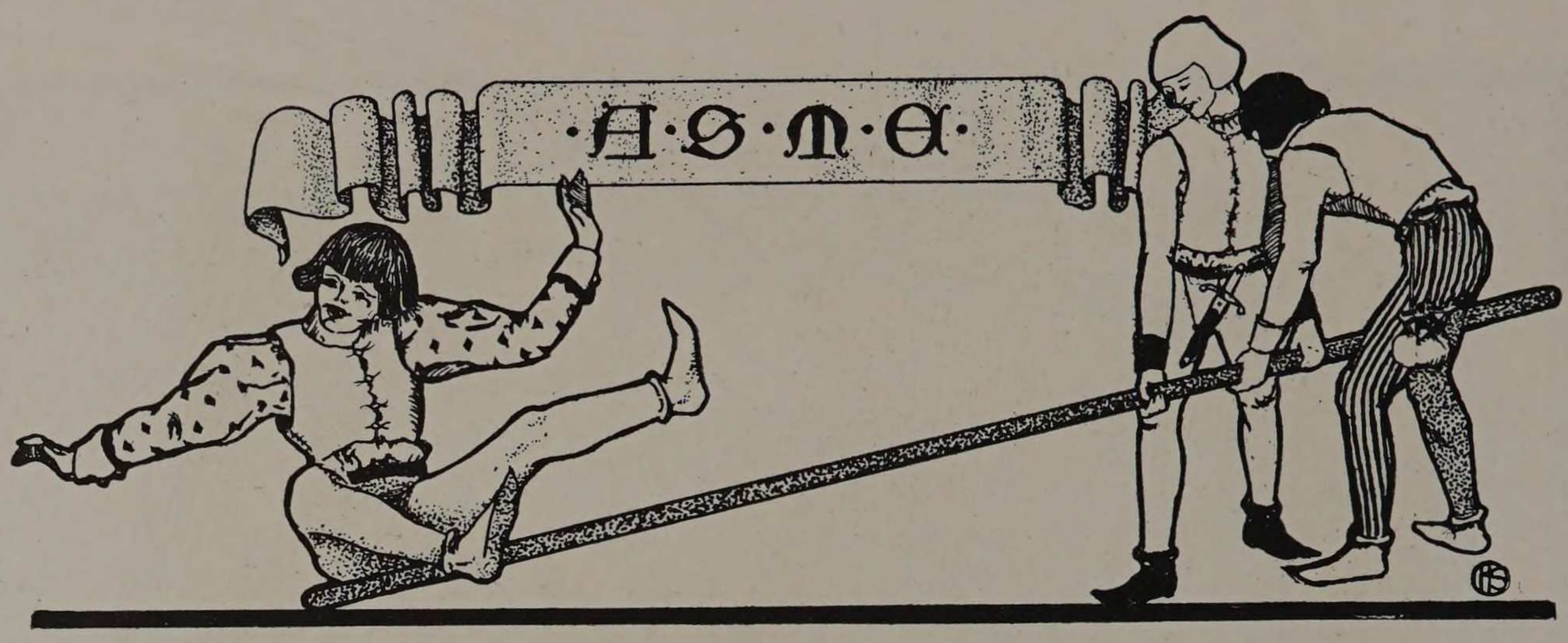
H. Cadet Stanley, '13	Phi Gamma Delta	University of Nebraska
Clark C. Heritage, '14	Phi Gamma Delta	University of Chicago
Frank W. Hook, '14	Gamma Theta	Iowa State College
Earl W. Porter, '15	Alpha Tau Omega	Simpson College
Basil P. Holt, '16	Sigma Nu	University of Arkansas
H. Cecil Holt, '16	Sigma Nu	University of Arkansas
E. B. Hurley, '16	Delta Kappa Epsilon	University of Chicago



ORGANIZATIONS.



Ye Council Pointeth the Way.



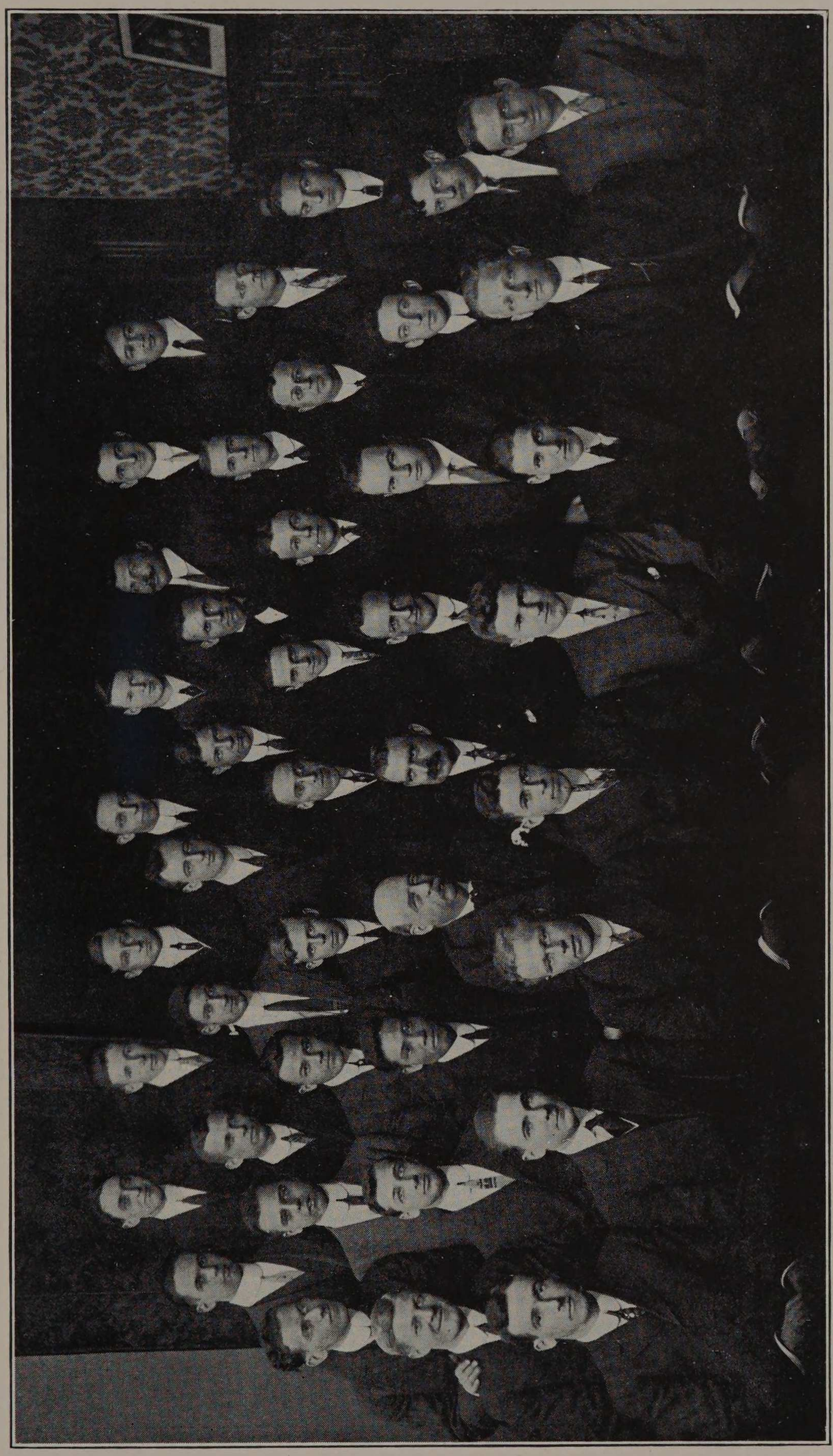
ARMOUR STUDENT BRANCH
AMERICAN SOCIETY OF MECHANICAL ENGINEERS

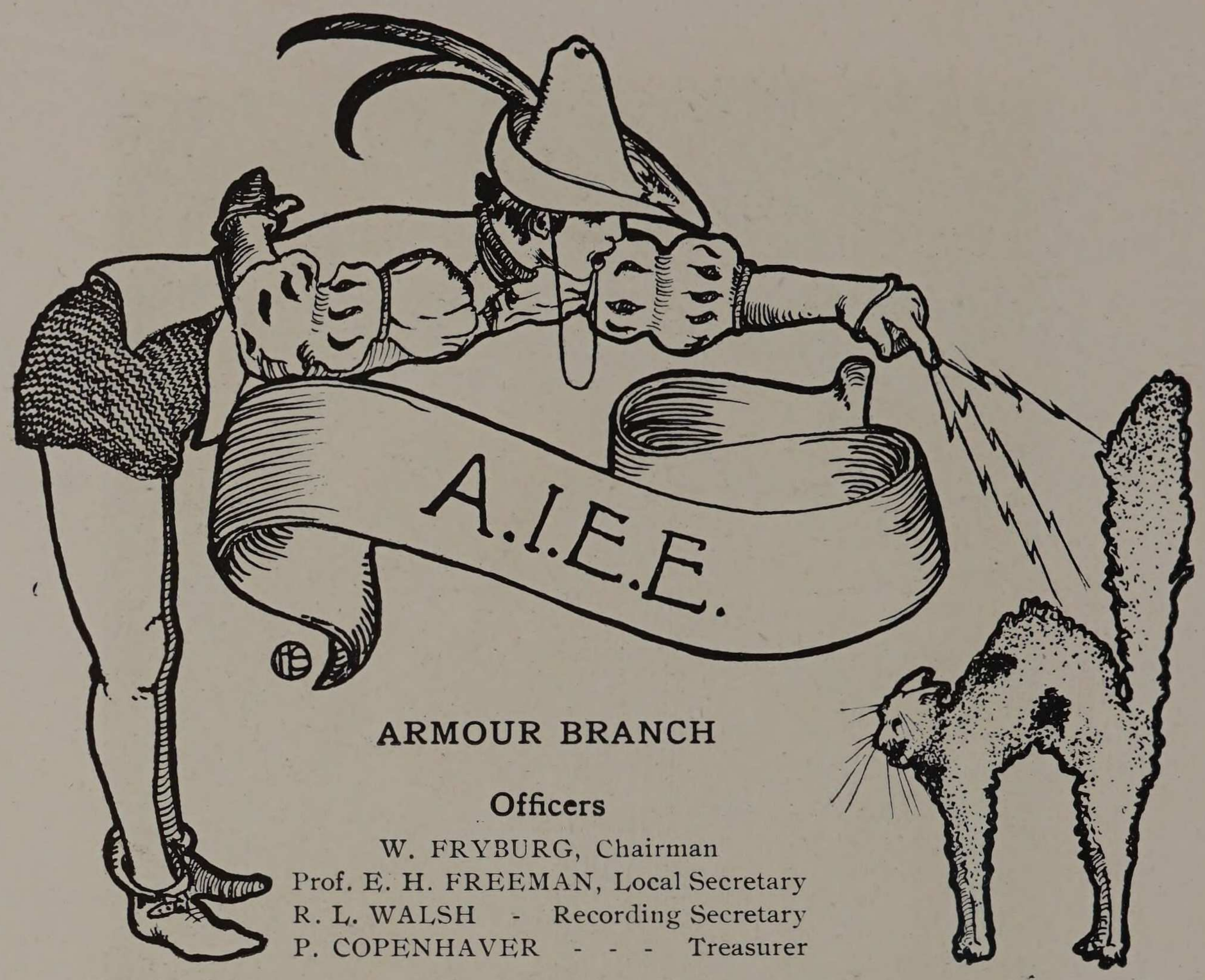
E. R. Burley.....President
J. D. Bradford.....Vice-President
H. R. Kuehn.....Secretary
R. F. Robertson .....Treasurer
Prof. G. F. Gebhardt.....Honorary Chairman

The Society was organized in January, 1905, by members of the graduating class, who called it the "Senior Mechanical Society." Later, on Oct. 15, 1907, it was decided to admit the Junior Mechanicals to membership, and this custom now prevails. In 1909 the Society became affiliated with the A. S. M. E., being duly organized as a student branch on March 9th. The Society holds student discussions on Mechanical subjects and keeps well in touch with new developments.

As is usual, the present year was opened by a smoker held on Sept. 19, 1912. On Oct. 9, 1912, Mr. C. K. Baldwin gave an illustrated lecture on "Belt Conveyors." At the second lecture on Nov. 6th, Mr. Daniel Roesch, '04, instructor in Experimental Engineering at the Institute, delivered a treatise on "Carburetors and Mixing Valves." The last meeting of the year 1912, was held on Dec. 4th. Mr. S. Rosenzweig, of the Erie City Iron Works, presented a paper on "Poppet Valve Engines and Superheated Steam." Illustrating his remarks by means of fifty lantern slides, the speaker described the Lentz engine, one especially designed to operate under the high temperatures produced by superheated steam. Mr. C. W. Naylor, Chief Engineer of Marshall Field & Co., spoke to the members of the Society on Jan. 15, 1913. Although his company now uses central station current, Mr. Naylor brought out many interesting facts which could only be obtained by years of experience. This meeting was followed by a banquet on Jan. 18th, held at the Boston Oyster House. On Feb. 5th, Mr. W. H. Green explained the "Wilsey Fuel Economy Gauge" to the Society. The gauge is an instrument for indicating relative boiler efficiencies, and is the invention of an Armour alumnus.

CLASS of 1914.





ARMOUR BRANCH

Officers

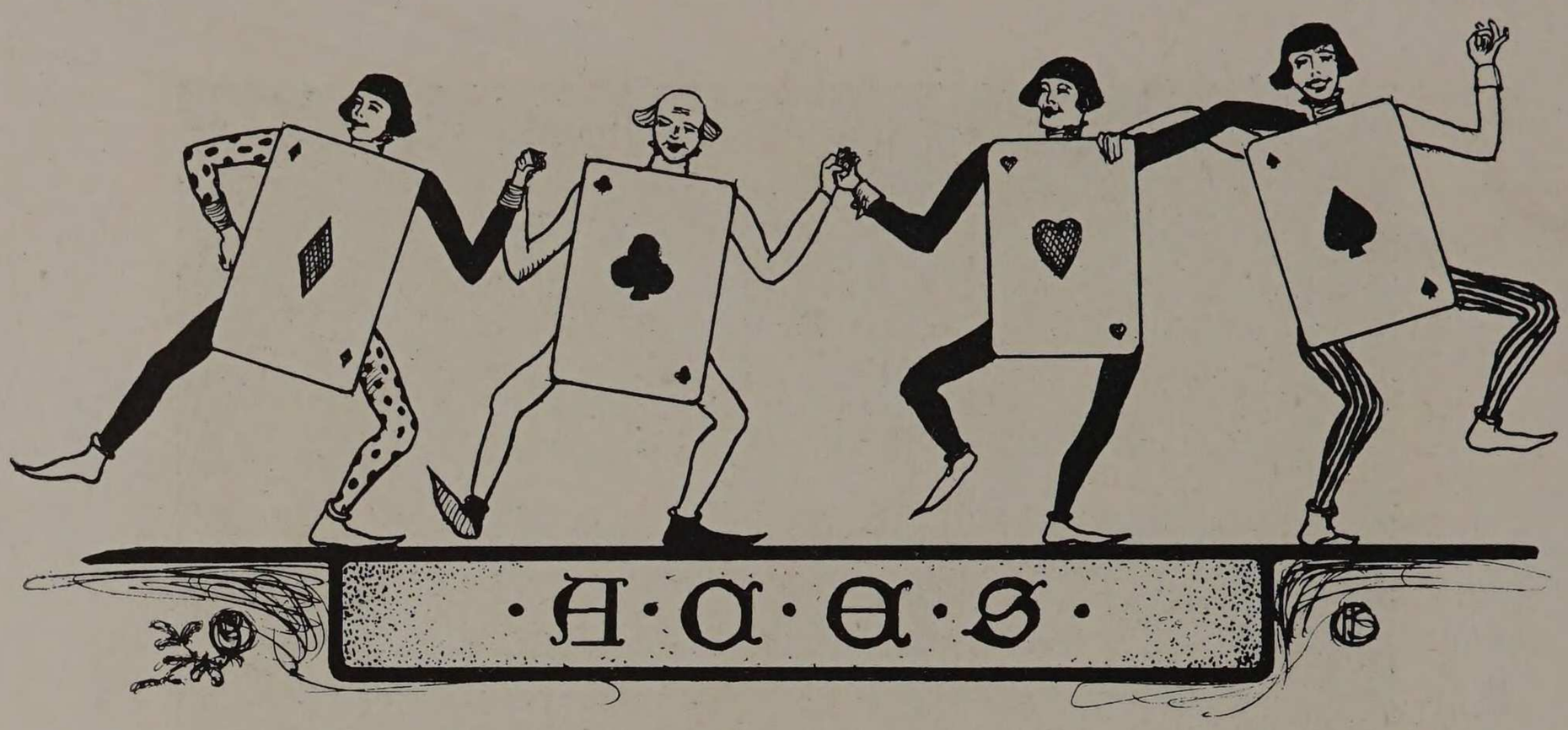
W. FRYBURG, Chairman
Prof. E. H. FREEMAN, Local Secretary
R. L. WALSH - Recording Secretary
P. COPENHAVER - - - Treasurer

The American Institute of Electrical Engineers is an organization that stands at the head of the list of organizations associated with the electrical industries in this country. The student branch of the Society makes it possible for the technical student early in his career to associate with men prominent in the electrical world, and to come in touch immediately with new developments in his chosen field. The Armour Branch was organized in 1903, and at that time Prof. Freeman was appointed to the Executive Committee of the Chicago Branch of the parent Institute so that the Armour society might be well represented.

Juniors and Seniors are eligible to membership, and the meetings strike an average between student discussions and talks from practical men. Meetings have been held as follows:

Sept. 25, 1912—Business Meeting and Smoker.
Oct. 22, 1912—"Storage Batteries"—A. L. Arenberg, '13.
Nov. 6, 1912—"Lifting Magnets"—T. H. Pither
Nov. 22, 1912—Business Meeting.
Dec. 5, 1912—"Application of Electricity to the Gasoline Automobile"—P. Copenhaver, '13.
Dec. 18, 1912—Semi-Annual Banquet.
Feb. 6, 1913—"Gas Engine Ignition Systems"—O. K. Hutchinson, '14.
Feb. 20, 1913—"Distributing System of a Large Central Station."—G. W. Ambrust.





ARMOUR CIVIL ENGINEERING SOCIETY

Officers

A. C. Cramer.....President
G. L. Opper.....Vice-President
H. F. Israel.....Recording Secretary
R. J. Koch.....Corresponding Secretary
J. T. Lucas.....Treasurer

Committee Chairmen

A. C. Cramer.....Executive
F. A. Trujillo.....House
H. S. Walin.....Smoker
R. F. Rothwell.....Banquet
G. L. Opper.....Initiation
O. C. Badger.....Pin

The Armour Civil Engineering Society was founded in the year 1906, while the Constitution which was drawn up by the then Junior and Senior classes, was adopted on June 14th, 1906. A suite of rooms on the second floor of Chapin Hall were secured about this time, and these have served as the meeting place of the Society ever since. A very unique pin designed to represent a levelling rod target is the Society badge. The membership numbers forty-five.

The object of the organization is the discussion of Civil Engineering topics, and the promotion of general information on Engineering subjects. The following meetings have been held:

October 1st—Opening meeting with talks by Professors Phillips, Dean, and Armstrong, and M. J. C. Penn.

October 15th—Semi-Annual Smoker and Initiation of Juniors.

November 19th—"Pure Water Supply"—Mr. C. L. Saner.

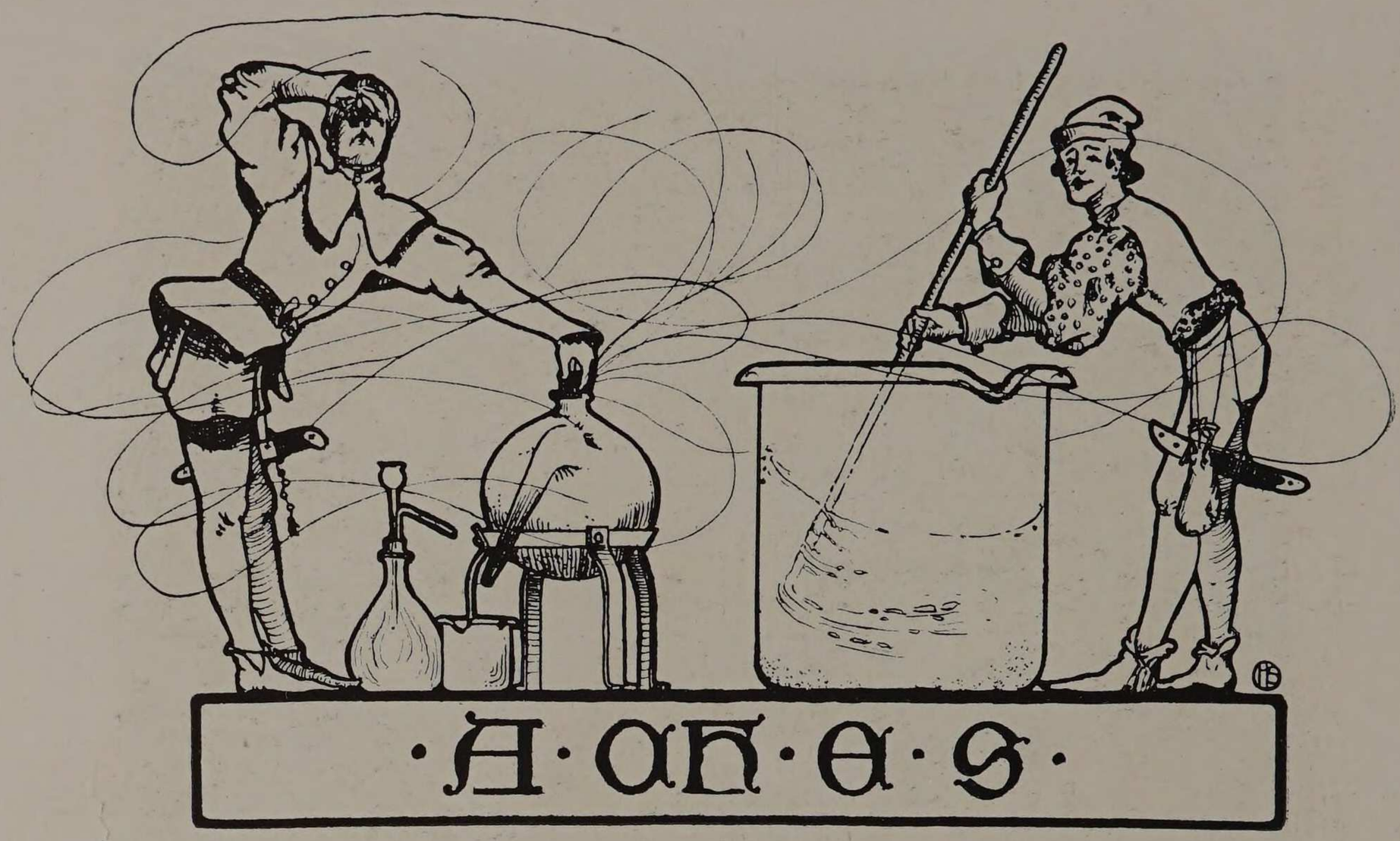
December 3rd—"Engineering as a Profession"—Mr. H. E. Bartlett.

December 17th—Illustrated Lecture—"Viaducts and Bridges"—Prof. M. B. Wells.

February 5th—Semi-Annual Smoker at the Chapin Hall Rooms.

February 25th—Annual Election of Officers.


KOEHNE



·A·A·A·S·

ARMOUR CHEMICAL ENGINEERING SOCIETY

Officers

W. K. Munn.....President
F. L. Moore.....Vice-President
R. S. Ziehn.....Secretary
W. C. Buttner.....Treasurer

The Chemical Engineering Society is now in its tenth year, having been organized in February, 1903. It was the purpose of the founders that fortnightly discussions of practical chemical questions of the day be held. The speakers were not only men of outside prominence, but members of the society themselves. During the first five years the Society adhered rather closely to this policy and some excellent student papers may be found in the Institute library. Even the current chemical literature was reviewed and references tabulated. This policy has since been changed and at present informal monthly banquets with outside speakers are in vogue.

On Sept. 25, 1912, the Society organized under the officers elected at the Spring Meeting. The first dinner was held October 16th at Kuntz-Remmler's. Prof. McCormack gave an extensive report on the Eighth International Congress of Applied Chemistry to which he was a delegate. On November 20th, the Society dined at the City Club. Mr. E. T. Clarage, who was to address the meeting, was unfortunately unable to attend. Prof. McCormack and Mr. McMullen of the faculty gave interesting talks on non-corrosive steels, and the drying of eggs.

The annual Alumni banquet was held Jan. 15th at the Hotel Sherman. The speakers and their subjects were:

Mr. H. Sieck, '11—"Cocoanut Oils."

Mr. R. B. Harper, '05, Ch. E., '09—"Success or Failure for the Graduate."

Several other alumni and the "chief" gave short informal talks. Mr. R. D. French, Chief Chemist for the Dearborn Drug and Chemical Co., talked on "Methods of Water Analysis" after a dinner at the City Club on March 5th.



√FX

Senior Radics

In College

C. Harry Arnold
Paul K. Brown
E. Roger Burley
William C. Buttner
Phillip A. Copenhaver
Warren Fryburg
Paul Greifenhagen
Don W. Hamilton
Raymond J. Koch
Fontenelle L. Moore
John L. Stewart
John A. Schreiber
Hubert E. Willson

Out of College

George M. Adams
R. E. Agee
E. C. Brewer
H. S. Drew
J. Henry Hansen
W. E. Haynes
R. F. Kirkham
M. LaRou
J. E. McDonald
Elmer W. Rietz
D. E. Simpson
H. L. Sowards
D. L. Weart
B. A. Young



STEWART BURLEY BROWN
BUTTNER COPENHAVER ARNOLD FRYBURG
WILLSON GREIFENHAGEN MOORE KOCH

Junior Radics

In College

John Aeberly
P. Fenton Auer
Fred L. Brewer
Charles A. Dean
Fred D. Farrar
Charles E. Gleason
Harold D. Gumpper
Walter H. Hallstein
Warren H. Hamilton
Clark C. Heritage
John Jucker, Jr.
John H. McCormick
Edward A. Pynchon

Out of College

Polk W. Agee
H. Glen Clarke
H. H. Maddox
Roy S. Rhodes
Flavius W. Rydell
Albert W. Schell
Barnes D. Shnable
Harold J. Smith
John G. Whipple



HALLSTEIN PYNCHON DEAN HERITAGE
AUER GUMPPER McCORMACK MADDOX GLEASON
JUCKER FARRAR BREWER HAMILTON

Sophomore Radics

In College

Jess A. Agee
Joseph F. Chamberlin
Joseph T. Conklin
Frank G. Cooban
Frederick G. Gedge
Philip R. Hockenberger
Charles A. Knuepfer
Alfred H. Johnson
Edward M. Kratz
Jack A. McKeage
Charles T. Phillips
Walter H. Rietz
Herbert P. Sherwood

Out of College

Chester F. Hamilton
Edward E. Luder



JOHNSON CHAMBERLIN
KNUEPFER KRATZ CONKLIN
RIETZ SHERWOOD McKEAGE HOCKENBURGER

Freshman Radics

In College

C. L. Bolte
E. R. Eames
J. L. Hayes
B. P. Holt
H. C. Holt
R. H. Libke
W. McDonell
R. S. Miesse
E. D. Pierre
B. L. Roos
L. C. Seymour
A. Spoeneman
W. A. Sterling



HAMILTON B. HOLT MIESSE
STIRLING EAMES PIERRE HAYES
ROOSE C. HOLT



Officers 1912

F. U. Smith.....Honorary President
N. P. Peterson.....President
G. M. Wilcox.....First Vice-President
W. K. Smart.....Second Vice-President
H. L. Nachman.....Secretary
W. W. Manning.....Treasurer

Officers 1913

F. U. Smith.....Honorary President
G. M. Wilcox.....President
R. V. Perry.....First Vice-President
A. H. Anderson.....Second Vice-President
C. I. Palmer .....Secretary
G. S. Allison.....Treasurer

The Faculty Club is an organization, founded in 1905, whose membership consists entirely of the faculty of the Institute, and is duly incorporated under the laws of the state of Illinois. Its purpose is the fostering of good-fellowship in the faculty body. The Club rooms are located on the ground floor of the Mission building, and consist of a reading room and a billiard room. During the year several tournaments are run off, and this year E. W. McMullen and Dean H. R. Raymond have displayed the best skill with the cues. The leader of the billiard fans is said to be Comptroller F. U. Smith.

The rooms are especially popular during the middle of the day; and altogether the Club is well supported by the faculty. It indeed serves the purpose of recreation and rest, combined with congenial surroundings.

The honorary members are two in number, J. Ogden Armour and James Little.

In Memoria

Lest Alumni, queries send,
Asking of their old time friend
Just a word;
Lest the bunch that used to find
Recreation for the mind
On the "third;"

Lest they judge our work half done,
If we mention not the fun
That they had;
Let us say right now and here,
We've not forgotten in a year,—
Chapin Club.

'Cross the street, the third floor back
Bloomy, Spindy, Bill and Mac
Had their smokes,—
No, that bunch was never sore,
Always showed the "glooms" the door
With their jokes.

Many older men have said,
That the Club would clear their head
For a "queez."
Sure it was, it helped your brain,—
Made your nerves forget the strain
In your ease.

There it was that good friends met,
Just to pay the little debt,
That they owed,—
A debt so many leave unpaid,
A kind handclasp, a greeting said
As we should.

Of years the Chapin Club lived five,
And in that time it seemed to thrive.
We were proud.
All at once it was no more,
Closed was the old familiar door
To the crowd.

But we hold those memories dear,
As we halt a moment here
On this page.
Let us toast to friendships made,
Smokes we smoked, and games we played,—
In Chapin Club.



THE SPHINX.

The Sphinx Society

Officers.

George A. Anderson.....President
Edward W. Menke.....Secretary and Treasurer

Faculty Members

Dean L. C. Monin
E. W. McMullen

Members in College

Brown, P. K.	Menke, E. W.
Hook, F. W.	Cramer, A. C.
Porter, E. W.	Jarvis, B. H.
Garrison, C. W.	Bradford, J. D.
Bangs, F. T.	Anderson, G. A.
Copenhaver, P. A.	Perlstein, H.

We now have at Armour three publications, the Cycle, the Fulcrum, and the Armour Engineer. In order to have smooth co-operation between the different executive heads, we have as a common council, the Sphinx Society. The executive heads of these publications and two faculty representatives are members ex-officio, and any member who has served one year on these publications, but who has not held executive positions on same, may be elected to membership.

The Sphinx Society is not only a managing and social organization, but is also an honorary society, membership to which can only be had through merit of service on the different student publications.



MENKE PORTER CRAMER BANGS PERLSTEIN HOOK
BRADFORD JARVIS ANDERSON BROWN



Frank G. Cooban, '15.....Business Manager
Lyman W. Close, '15.....Ass't Business Manager

GLEE CLUB

Clark C. Heritage, '14.....Leader
William G. Smith.....Director

First Tenor
W. G. Smith
C. L. Boetter, '14
E. R. Marx, '15
A. Bodholdt, '15

Second Tenor
P. K. Brown, '13
F. W. Hook, '14
S. W. Anderson, '15
B. K. Gibson, '15
H. L. Wallbrecht, '16

First Bass
C. C. Heritage, '14
W. Steininger, '14
L. W. Close, '15
F. K. Wagner, '15
H. M. Buck, '16

Second Bass
F. D. Farrar, '14
W. Yonkman, '14
G. R. Bartling, '15
E. T. Sieh, '15

Piano—R. M. Heim

MANDOLIN CLUB

John A. McKeage, '15.....Leader
Corydon D. Smith.....Director

First Mandolin
J. A. McKeage, '15
C. L. Bolte, '16
K. M. Simpson, '16
F. A. Toler, '16

Clarinet
S. Pimstein, '16

Second Mandolin
W. V. Lindblom, '15
J. T. Conklin, '15
J. L. Shane, '15
C. De Las Casas, '16
L. T. Bergman, '16

Piano
C. D. Smith

Violins
E. D. Gothwaite, '15
P. A. Rehnquist, '15
S. E. Sosna, '16
W. Hankin, '16



THE CYCLE.

The Musical Clubs have become permanently organized as a society of the Institute during this season of '12-'13. The Clubs have existed off and on since '01-'02, particularly efficient work having been done in '06-'07, and '11-'12. This season's work has been up to standard in every way and has included engagements both out of the city and in many suburbs of the city such as Waldron, Austin, Woodlawn, South Shore and Edgewater. The Home Concert was attempted this year as a Home Coming Night for Alumni, and the Clubs were rewarded with the best attendance ever recorded on such a night. The Institute Quartette has ably assisted the Glee Club in its programs and fills engagements of its own.

THE INSTITUTE QUARTETTE

Prof. W. G. Smith.....First Tenor
Paul K. Brown, '13.....Second Tenor
Clark C. Heritage, '14.....Baritone
William Yonkman, '14.....Second Bass



SMITH BROWN HERITAGE YONKMAN

GLEE CLUB



RACINE,



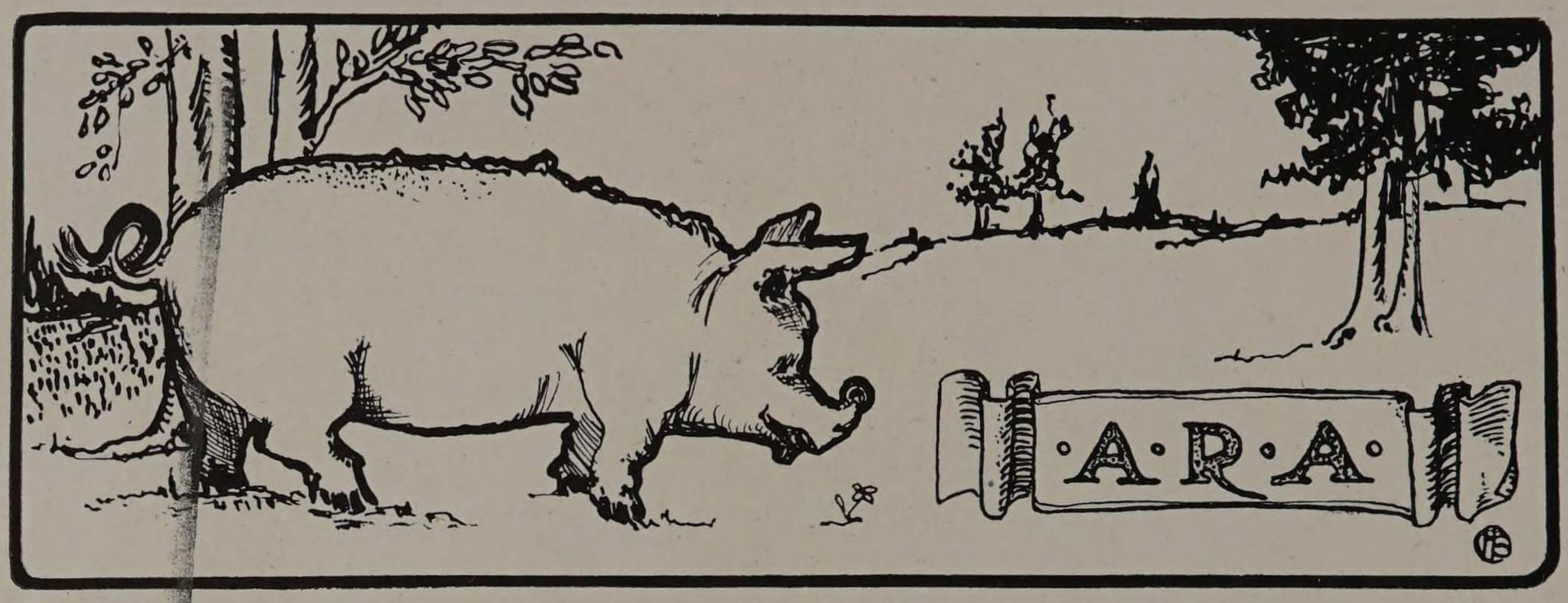


WISCONSIN,

APRIL



1912



Governing Board

Harris Perlstein, '14.....President
Max D. Wald, '13.....Vice-President and Treasurer
Clark C. Heritage, '14.....Secretary
David B. Lesser, '14.....College Cheer Leader

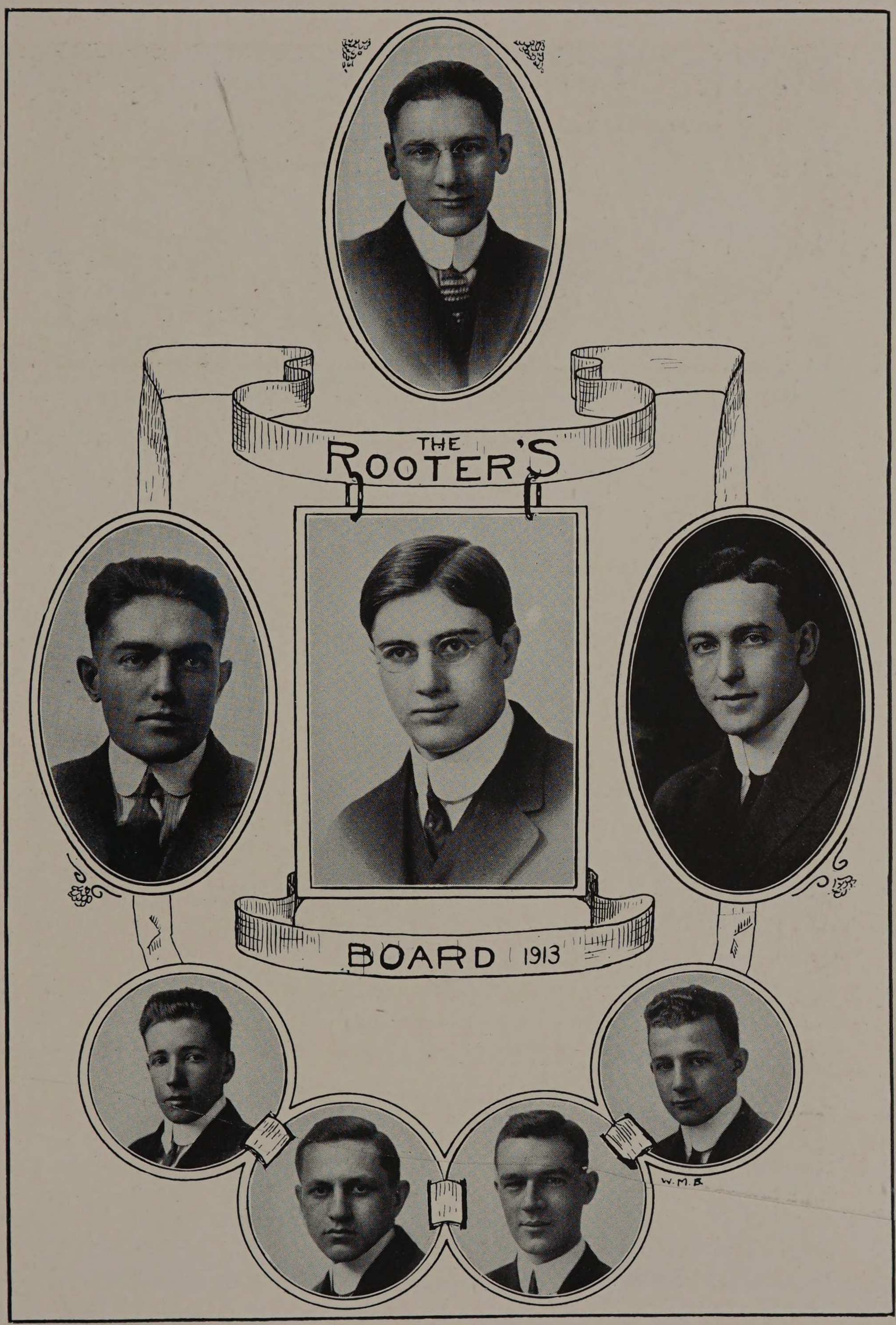
Class Representatives

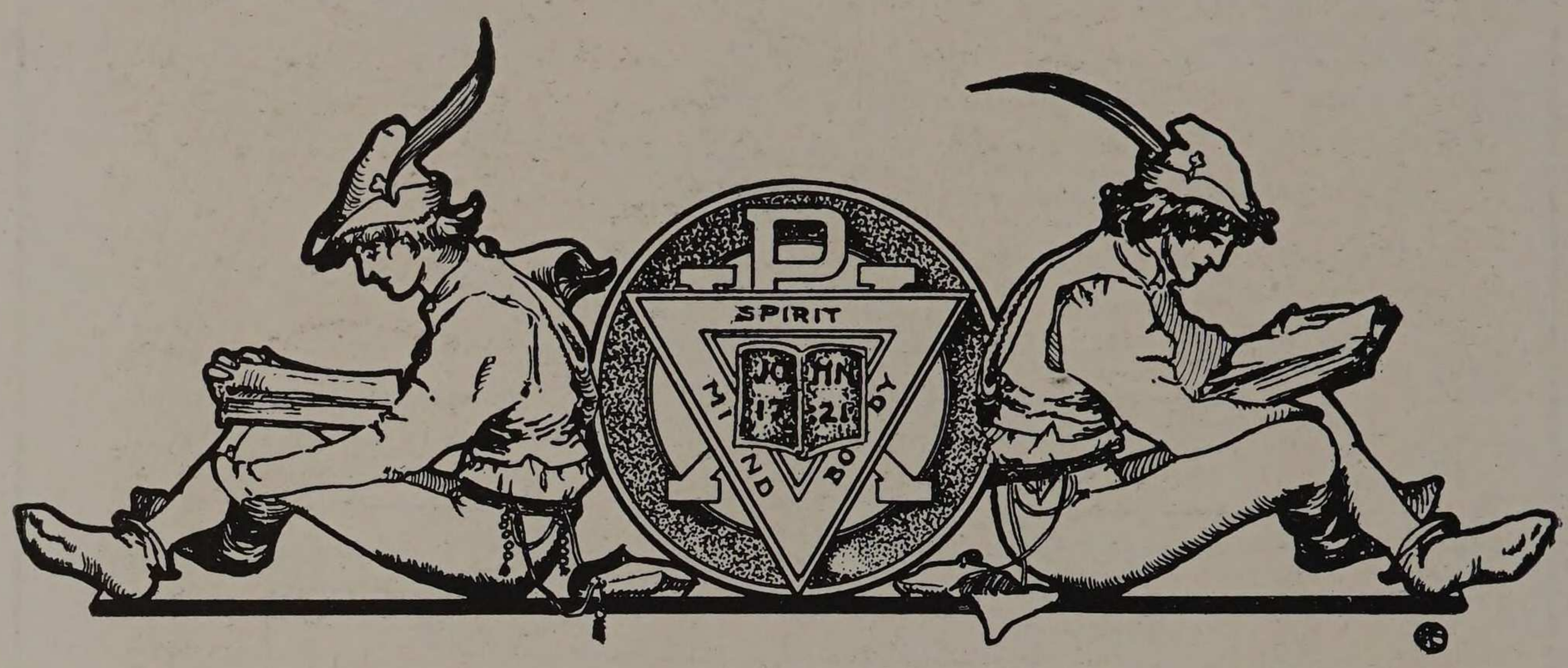
J. J. Hayes, '13 — A. G. Stark, '15
F. L. Brewer, '14 — A. S. Alter, '16

The Armour Rooter's Association was organized on April 30th, 1912, and constitutes a working unit whereby the entire Institute may bring worthy student activities to a successful issue. This scheme of the coalition of forces and interests in one student body was conceived by members of the Class of 1914. It has well repaid the trouble necessary to effect the organization, by the resulting increased interest in Athletics, and the late phenomenal successes of Junior Week, Tech Night, and the annual Home Concert of the Musical Clubs. The A. R. A. has shown wonderful support, and is bettering conditions greatly.

All students in regular attendance at the Institute are members of the Association upon being present at a meeting. The government of the A. R. A. is in the hands of the eight men of the governing board. The finances are furnished by the individual classes.

The purpose is best set forth by this extract from the resolutions adopted at the first meeting:—"to promote desirable intercourse among all students of the Armour Institute of Technology; to support all worthy student activities; to make possible student co-operation concerning projects or problems involving the whole college; to ascertain student sentiment on such projects and problems; and to enable unified action of the student body on matters of interest to the whole student body.


THE ROOTER'S
BOARD 1913
W.M.B.



Officers

C. L. Boetter ..... President
W. Borroughs ..... Vice-President
J. W. Turner ..... Recording Secretary
W. Steininger ..... Department Secretary

Board of Management

Prof. G. M. Wilcox, Chairman

Prof. C. W. Leigh
Prof. G. L. Scherger
Prof. T. E. Doubt
Prof. M. B. Wells
Mr. F. U. Smith
Mr. N. P. Peterson
C. L. Boetter
J. W. Turner
W. Steininger

Committee Chairmen

Prof. G. M. Wilcox ..... House
J. A. McKeage ..... Social
H. C. Nebel ..... Membership
F. G. Cooban ..... Meetings
L. W. Close ..... Church
F. W. Hook ..... Service
W. H. Hallstein ..... Bible Class



THE CYCLE.

The Armour Y. M. C. A. is one of the departments of the Illinois Y. M. C. A. and is, no doubt, an important factor in college life. It is the object of the Association to produce a moral movement within the student body by means of organized Christian work. At the same time the Association is absolutely undenominational.

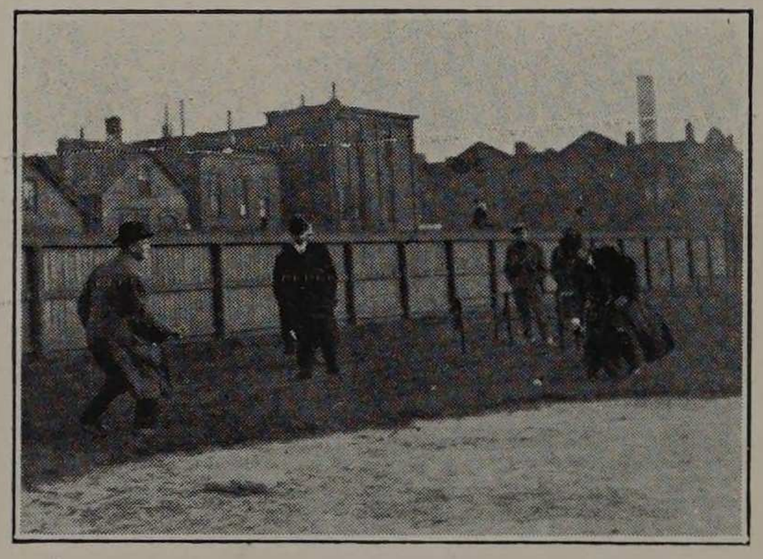
During the past year the Y. M. C. A. has been presented with the former Chapin Club rooms in Chapin Hall, an act which has greatly fostered the growth of the organization. Recreation of various kinds is furnished. The billiard table, which is a gift of Mr. Simeon B. Chapin, together with an assortment of magazines, books and games make the Club life extremely pleasant. Billiard, chess and checker tournaments are held throughout the year.

During the first semester, weekly meetings have been held in the Association rooms at which Prof. Scherger has discussed, "Topics of Interest to Young Men." Bible study is coming to be realized as a requirement in a man's education, and this opportunity should not be neglected.

The first "affair" of each college year has been the so-called "Freshmen Handshake," given by the Association; where by means of speeches, entertainment and refreshments the new-comers are made to feel as much at home as is possible. At intervals throughout the year socials are given to promote greater interest and fellowship.

Upon request new students are met at trains and assistance given in finding rooms. The endeavor is also made to place students in churches of their respective denominations.

A new form of activity in the Association is the teaching of English to foreigners, an action which is entirely voluntary on the part of the students. The men who do this come to realize things that they never dreamed of before. They begin to see things as the common laborer does, and consequently are unconsciously being trained in the handling of men such as they are sure to meet out on the "job." This activity is really not confined to the Association members alone, and it is hoped that the school as a whole will earnestly consider it.





Officers

C. J. Furay.....President
T. R. Kiene.....Vice-President
E. G. Zack.....Secretary and Treasurer

Members

Active

C. J. Furay, '13.....Omaha
A. B. Griffith, '15.....Omaha
T. J. Kiene, '15.....Omaha
R. G. Bohn, '14.....Grand Island
R. H. Peters, '14.....Grand Island
H. E. Willson, '13.....Anselmo
E. G. Zack, '14.....Columbus

Honorary

Prof. C. B. Cooper.....Lincoln
H. C. Stanley, '13.....Omaha
G. F. Brown.....Omaha

THE CYCLE.

The Nebraska Club was founded in 1906 for the purpose of promoting good fellowship among the students of the Institute who hail from the "corn-husker's" state. It was through the earnest efforts of the twenty charter members, with C. M. Lindsay, of Omaha, as president, and the good will and support of the Executive Council that the present room in Chapin Hall was obtained for the home of the Club.

The Society is certainly progressing, and a gold pin of an attractive and appropriate design was adopted last year. A reunion is planned for the near future for all Alumni members, this to be held at Omaha. It is to be desired that this function will develop into an annual affair.



KIENE GRIFFITH

FURAY ZACK

STANLEY BOHN

The Institute Band

Officers

V. E. Johnson.....Leader
J. G. Shakman.....Manager

Cornets

V. E. Johnson, '14 — F. L. Faulkner, '15
H. Willson, '13 — C. P. Schultze, '15
I. A. Newman, '16

Altos

J. G. Shakman, '14 — J. L. Broyles, '15
H. B. Hallet, '16

Clarinet

J. H. McCormack, '14 — A. G. Pimstein, '16

Trombones

E. S. Kujawski, '14 — E. J. Sieh, '15

Baritone

A. L. Peterson, '15

Drums — Snare

L. A. Doane, '14

Bass

W. Fryburg, '13

This is the first year of the Institute Band, and considering the difficulties which have been surmounted, the men have done well. The organization is far from complete, but with the help of the Rooter's Association, the members hope to put the proposition on a permanent basis. The Band was financed this season by the A. R. A. Lack of sufficient bass instruments was the only reason that no concert work was undertaken, which condition will no doubt be remedied next season.

The Amalgamated Association of Unknown Celebrities

Being a compilation of characters little known but long remembered.

1

The fireman on the R. I. who fires up just after leaving Thirty-First Street Station, outbound.

2

The "arm of the law" No. 1166 who takes charge of Chapin Hall after ten o'clock at night.

3

The "teamio" who breaks down every Friday afternoon in front of Machinery Hall.

4

The Hurdy-Gurdy man who beat Spring to it by two weeks this year.

5

The engineer on that R. I. switch engine who pulls up for lunch at 11:30 opposite Tibbal's Freshman Class.

6

That colored lad that has his bunch root for the Base Ball team. Same one who stole Schommer's starting gun.

7

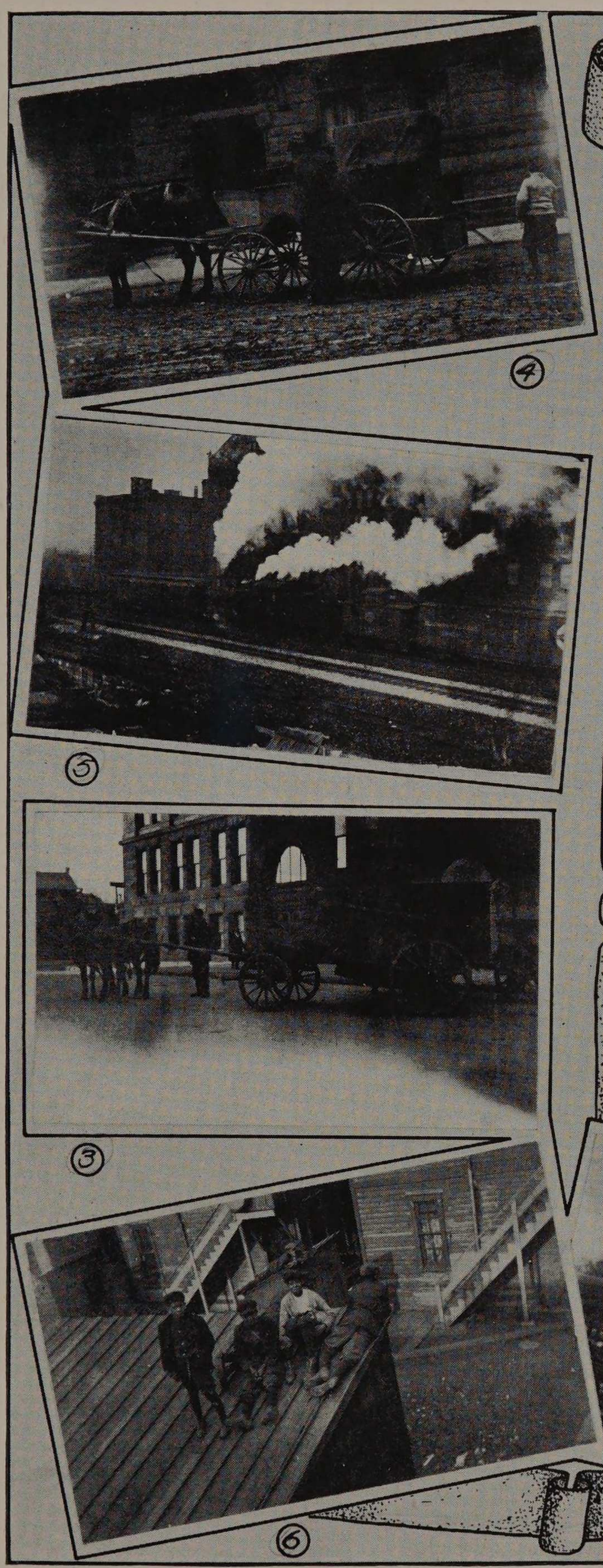
Speaking of Africans, that master accordian player qualifies in a walk.

8

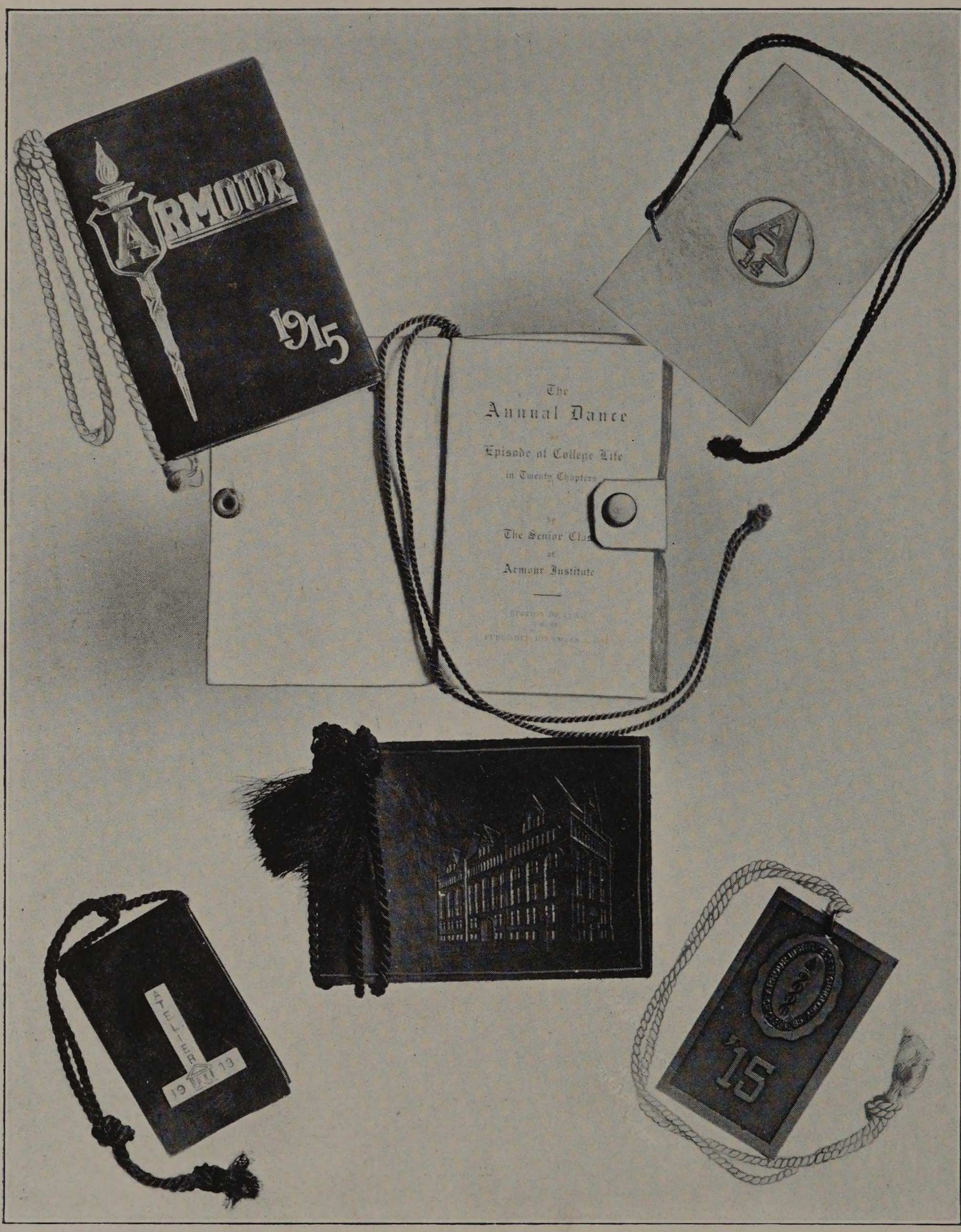
The Gas Company's trouble man who forgot to send out the gang to turn the Boulevard upside down.

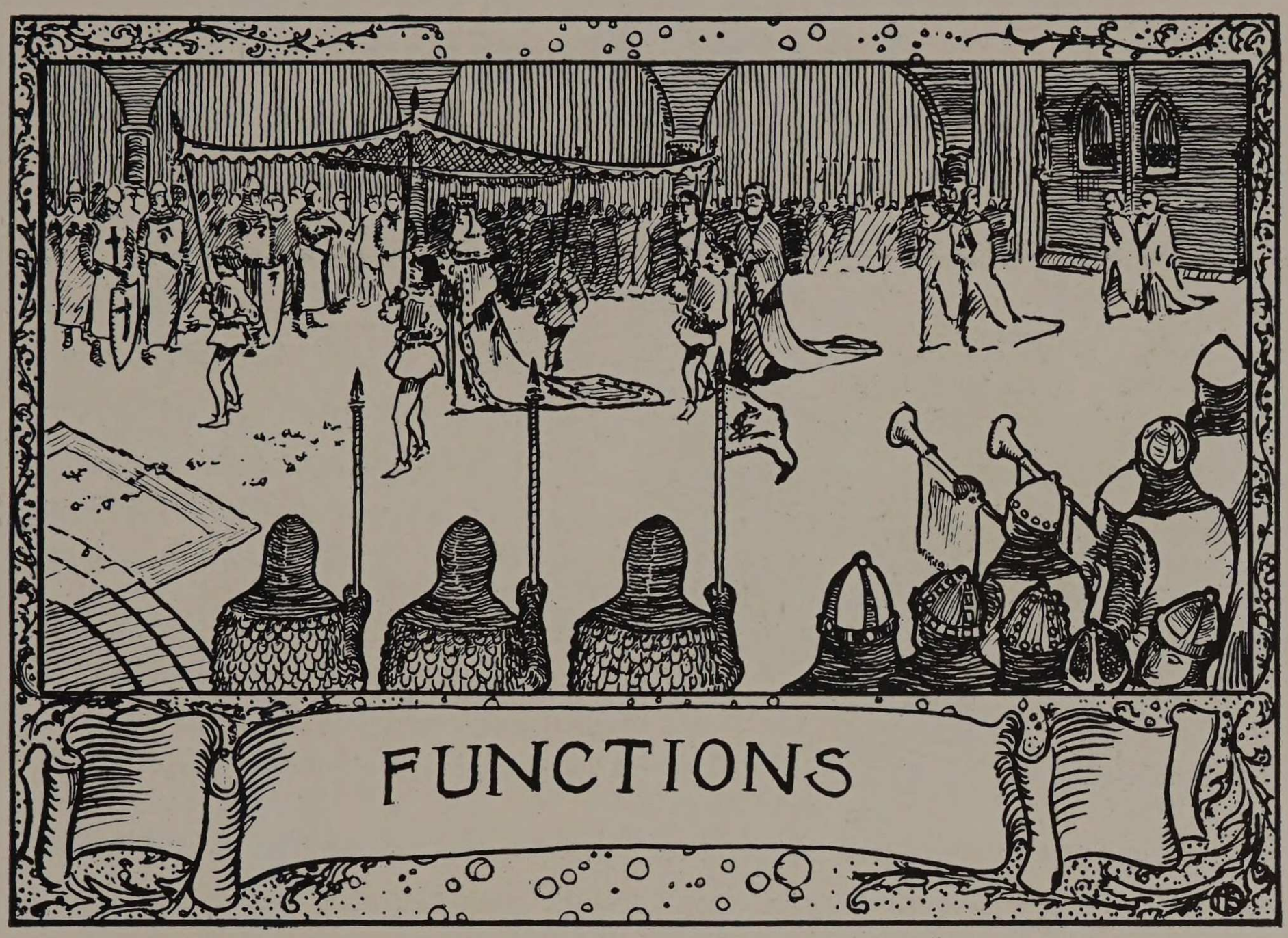
9

And last but not least, that human fog-horn, that peddles coal during the winter and ice during the summer.



AAUC


ARMOUR
1915
The
Annual Dance
an
Episode of College Life
in Twenty Chapters
by
The Senior Cla
of
Armour Institute
A
14
15



FUNCTIONS

The Freshman Handshake

The Freshman Smoker

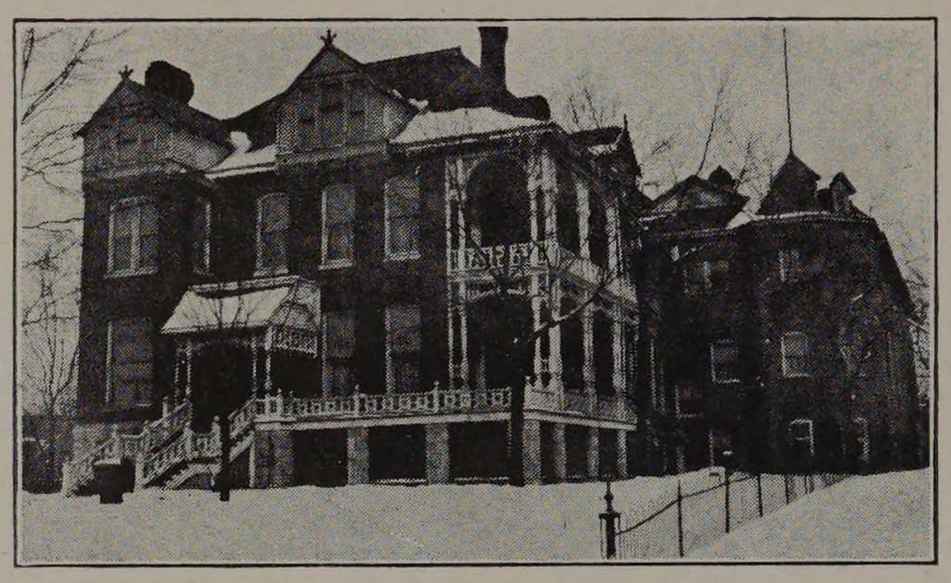
Tech Night

The Home Concert and Home Coming Night

The Junior Week of 1912

The Junior Week of 1913

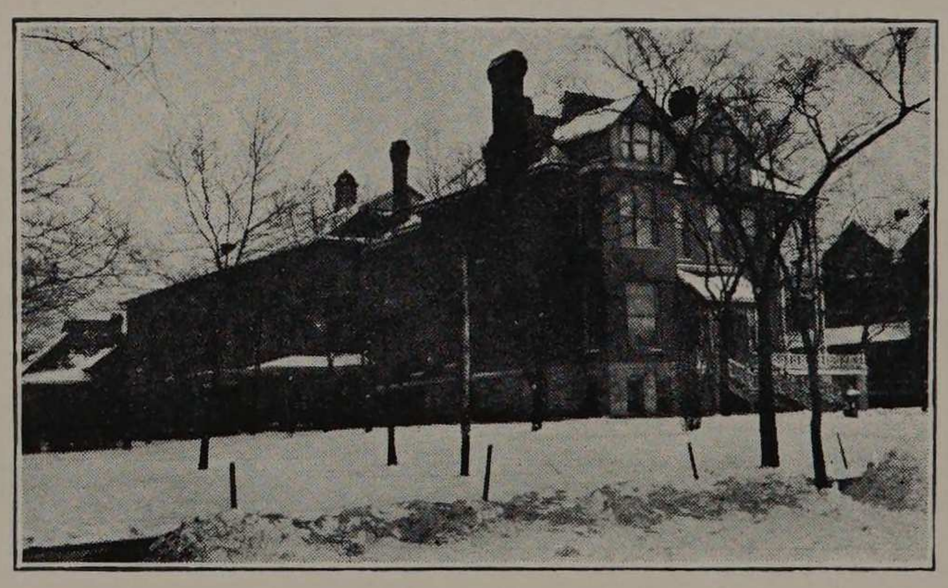
Social Review



The social life at the Institute for the season of '12-'13 deserves a word of special mention. Activity along these lines has increased wonderfully, as a glance at the "Calendar" will show. This side of a technical college man's life is very apt to be slighted; and so it is indeed gratifying to find the Armour men supporting the societies and their functions in a way they never have before.

The Fraternities have found the "Sophomore Ruling" of the Executive Board to be no detriment whatever to their growth; and they may even be said to have stronger chapters than under the old system. A new "local" has entered the fraternal field, and two of the old organizations have moved into better houses.

The Departmental Societies have been forging to the front, not only technically, but socially as well. To substantiate this we need only mention the smokers of the Civils, the success of the Mechanical dances, and the monthly banquets of the Chemicals and Electricals.



These Functions, which do not concern the entire Institute need only be mentioned in the Calendar. The others which are annual occurrences and have really become part of our traditions are deserving of further notice.

The Freshman Handshake



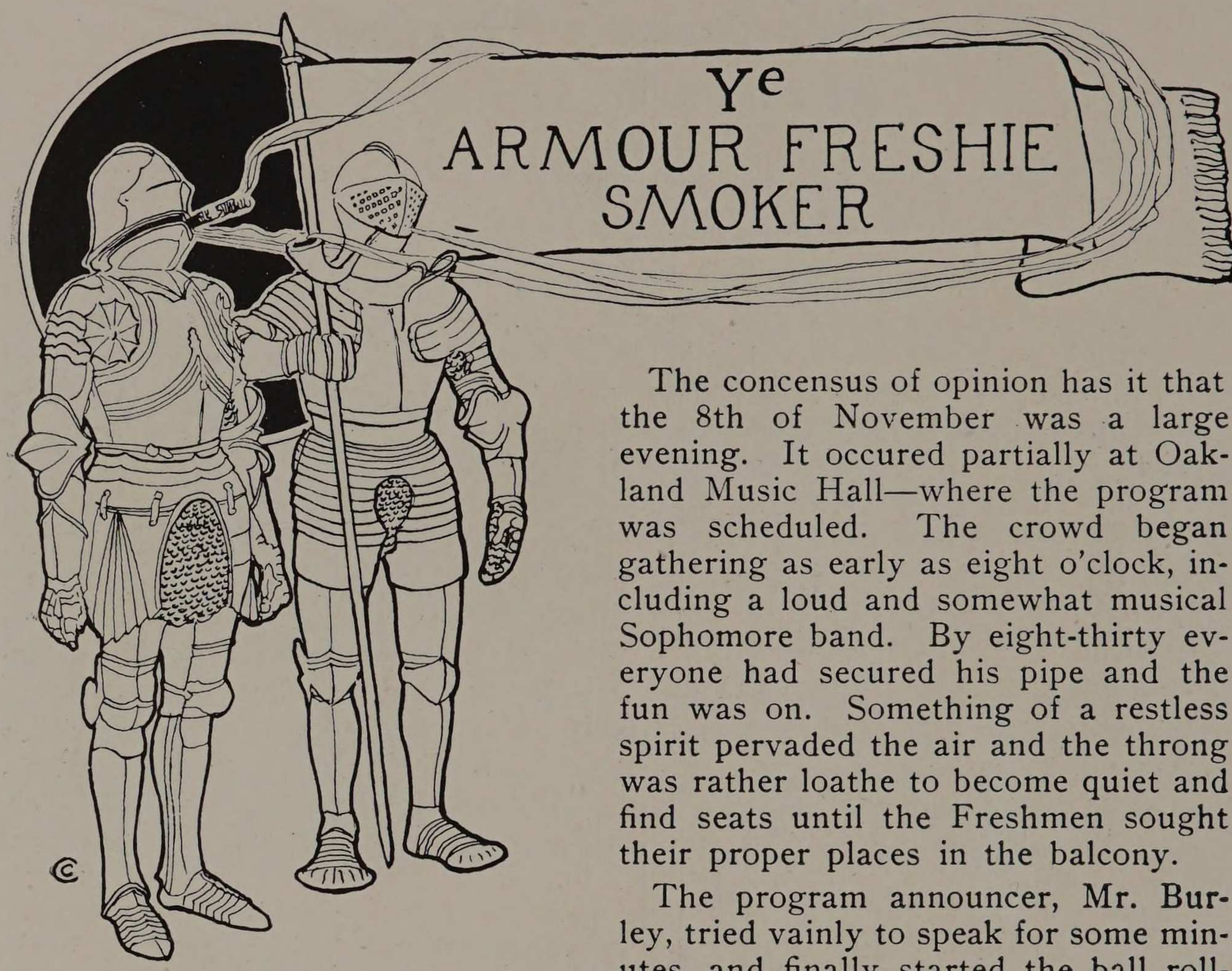
On the evening of the 27th of September, two hundred of the livest men of the Institute celebrated the entrance of the Class of 1916 into the domain of Armour good-fellowship. The celebration took place at the Institute Lunch-Room; and not only were the Freshmen decidedly in evidence, but the upper classmen set a precedent by attending in goodly numbers. The affair was engineered by a Y. M. C. A. committee as usual, and great credit is due for putting through the best Handshake in years.

Popular melodies started the festivities, and these were intermingled with much good natured bandinage between "Frosh" and "Soph." All this only paved the way for some splendid "Arch-Mechs" just before the program was announced.

Prof. Smith, of the Mechanical Dept., opened the program and drew down showers of applause by singing to his own accompaniment a number of humorous little ballads in dialect. He was called back until his supply of songs was well nigh exhausted, and he was given time to think of more while the program was continued. Prof. Wilcox, head of the Physics Dept., addressed the men on the local Y. M. C. A. He spoke briefly of the place it fills in Armour life, of the opportunity it now affords its members since the acquisition of the Chapin Hall rooms, and the lines along which the Y. M. C. A. men are at present working. He prefaced his remarks with a hearty welcome to the Class of 1916. The Seniors were well represented during the evening in the piano numbers of Mr. Munn. Following these Mr. McMullen, of the Chemical Dept., explained some of the fundamental ideas of the Tau Beta Pi scholastic fraternity, as is the usual custom at the Handshake.

The bread-line formed at 9:30, and Prof. Wilcox demanded that the yearlings be fed first. And therefore they were. Owing to the late arrival of one of the members, the Institute Quartette did not sing until after the refreshments had been served. Although unable to reproduce "Soothing Syrup" for the benefit of '16, they did respond with an appropriate song for the Freshmen.

The Fraternities entertained with smokers immediately following the Handshake.



The concensus of opinion has it that the 8th of November was a large evening. It occured partially at Oakland Music Hall—where the program was scheduled. The crowd began gathering as early as eight o'clock, including a loud and somewhat musical Sophomore band. By eight-thirty everyone had secured his pipe and the fun was on. Something of a restless spirit pervaded the air and the throng was rather loathe to become quiet and find seats until the Freshmen sought their proper places in the balcony.

The program announcer, Mr. Burley, tried vainly to speak for some minutes, and finally started the ball rolling by introducing the Institute Quartette. They sang several numbers including a new Alma Mater arranged by Prof. W. G. Smith and dedicated to the President of the Institute, F. W. Gunsaulus. Following the Quartette several very acceptable vaudeville acts were staged, although interruption was frequent by the two lower classes, whose excess spirit was decidedly manifest.

The famous Ted Snyder's Quartette was late, and an intermission of fifteen minutes was called to let everybody get acquainted. At the end of this period when the meeting had reconvened, the gathering was addressed by men prominent in each class on the return of football as an Institute sport. Enthusiasm ran wild on the subject, even to the pledging of financial support. There can be no question where the student body stands. The professional Quartette had arrived in the meantime, and held the crowd another half hour with their excellent work.

When the program was over and the hall emptied, everybody fell into a gigantic serpentine which wigwagged its way up the "Grove" with an admiring audience on every side. The ultimate destination of the serpent was finally reached and the difficulties of the evening settled without harm to anyone. Over one hundred of the stragglers found their way to the Mandarin Inn where the celebration ended.

Tech Night

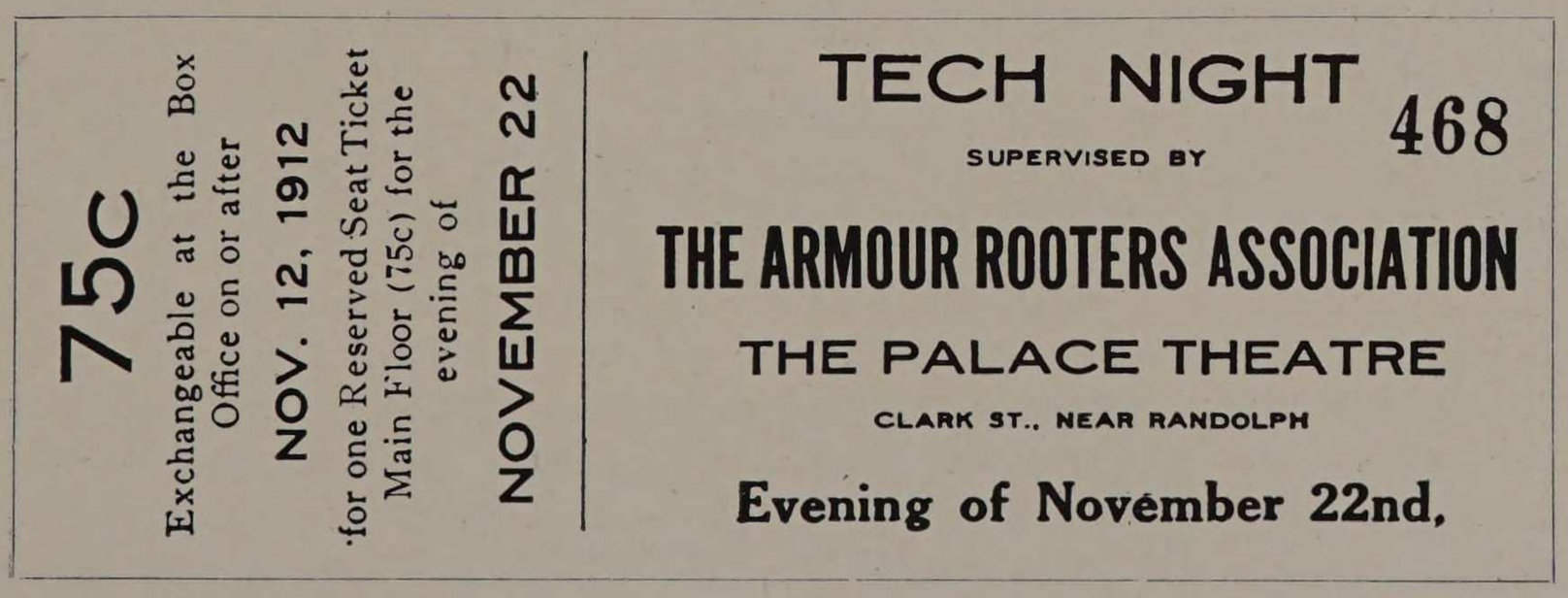
The spirit that used to manifest itself long ago on "White City" night has finally been fanned into life again. Tech Night Nov. 22, 1912, took its place on our Social Calender for the first time this Fall, and was a mighty auspicuous occasion from every point of view. Half of the total enrollment of the Institute was there, which is certainly a record as far as attendance goes. And this meant a total expenditure of $200, which is another fact quite as noteworthy as the first.

Everybody was nicely taken care of by Mr. Singer, the manager of the Palace Theatre, with the possible exception of one of the Alumni who waited until that Friday night to exchange his ticket, and found the house sold out. Mr. Singer complimented the fellows upon the absence of "rough-neck" tactics; and was considerably relieved upon finding that they were not in the habit of carrying away souvenir seats, as the technical men downstate do.

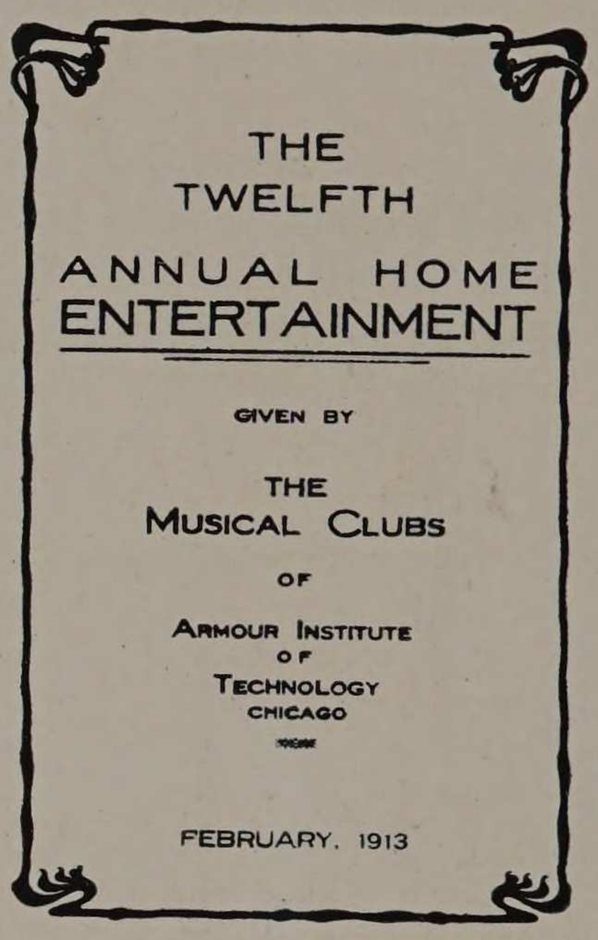
As for the program, most of it was good. The Pot-Pourri of Comedy scheduled as Number One, turned out to be a capacity act in which even the aquarium was consumed. The Boatswain's Mate was a sketch far from "nawsty," and the soldier qualified as a pretty fair wooer too. Three of the young gentlemen from the Institute almost finished Miss Arline's Act, before she was fairly started. The volunteers could not qualify however, when it came to being subjects for her hypnotism. Adler, her partner, imitated everything except Fitterman executing a Sophomore yell.

And so dancers and acrobats passed in review, until Act Seven brought on the inimitable Eva Tanquay. Of course she didn't dance or sing,—as the terms are usually used,—but she entertained and that was certainly what the crowd wanted. Eva's songs were rather personal affairs, but in her personality lies her popularity.

The Rooter's may congratulate themselves on the efficient manner in which this first Tech Night was handled. D. B. Lesser was in active charge.



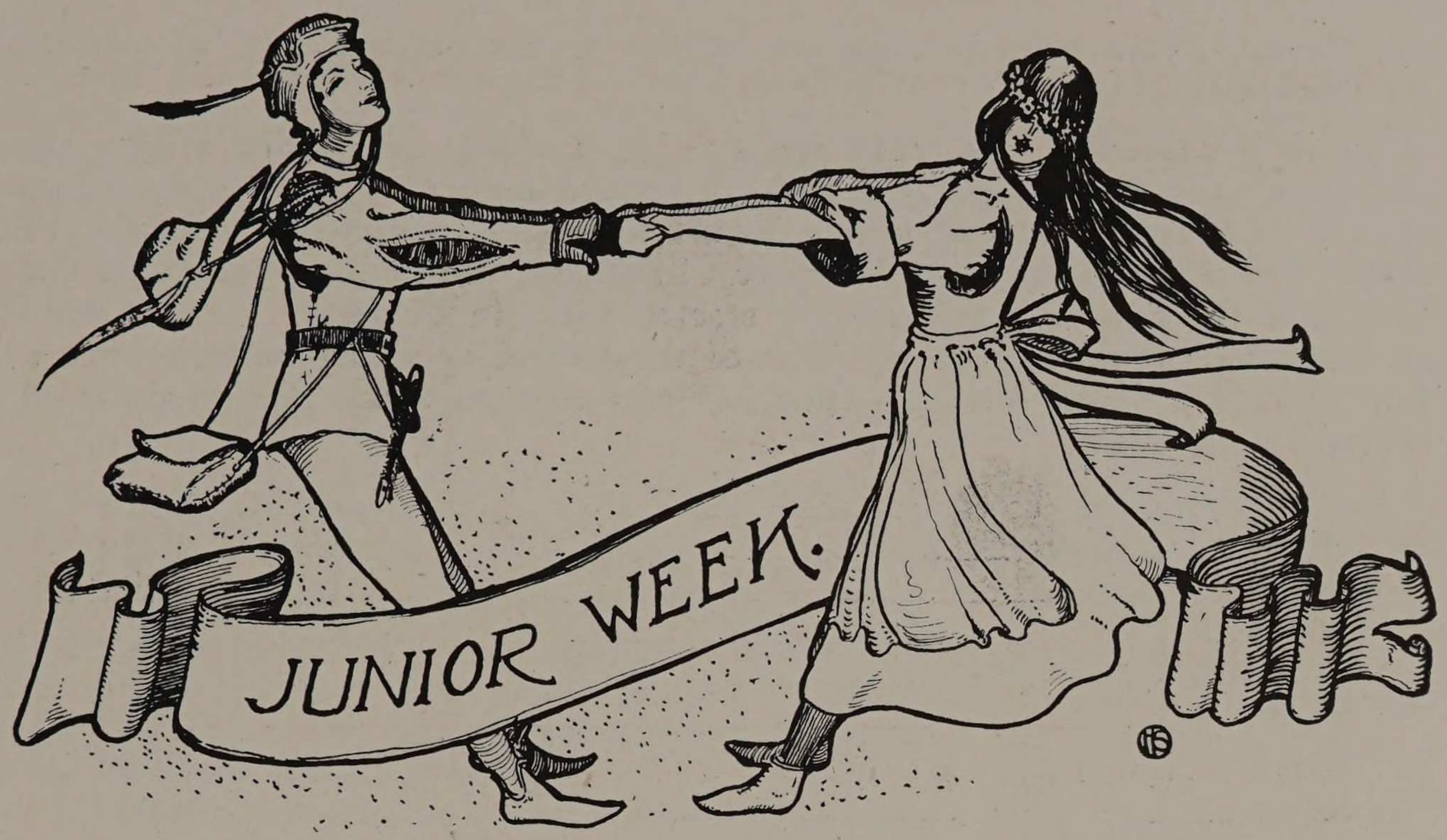
Annual Home Concert of the Musical Clubs and the First Alumni Home Coming Night



The annual home concert of the Armour Glee and Mandolin Clubs was given at the Mission on Friday evening, Feb. 28, 1913. The crowd was the best that has gathered on a similar occasion in many years, and the Home-Coming idea worked out especially well. Many of the alumni who had not been back for years were on deck, and the faculty showed their appreciation of the Clubs by attending in goodly numbers.

The program consisted not only of regular Glee music but of a number of original "stunts." The concert might well have been advertised as the pantomimes of Cooban, "Omaha and Joliet" by Hook and Sieh, or the silent exit of McKeage, etc. The Alma Mater songs succeeded in arousing a great deal of spirit as the first number of the program. The Club sang as though they were indeed proud of the latest acquisition to the Institute songs,
and the audience showed their appreciation of Prof. Smith's composition with a hearty encore.

The work of the mandolins was excellent throughout the evening and they displayed an abundance of clever encores. The Quartette rose above the general "good time" in the singing of a very pretty quartette arrangement of "What From Vengeance." Close "left with the midnight choo-choo for Alabam" much to the delight of those assembled, while Heritage as "Barney McGee" was second only to Brown in his realistic interpretation of "When We Were Sweethearts." The little man from Paris, Fitterman, in his French Cafe song won a round of applause, even though only the select knew what he was singing about. Romeo and Juliet must not be passed without a word for the five-foot tenor who loved the six foot bass. Lastly, Manager Cooban in his base ball pantomine received fully as many compliments as the Clubs and if either deserved them he did, not only because of his stunt, but for the efficient way in which he advertised the Home Coming Night, and in which he managed the evening.



Marshals of the Week

Paul K. Brown.....First Marshal
Arthur Woerner.....Second Marshal

Program

Monday, April 29th, 1912.....Junior Class Banquet at the University Club.
Other Classes banqueted during the week
Tuesday, April 30th, 1912.....Armour Rooters' Association Organized
Wednesday, May 1st, 1912.....Junior Play, "The Emergency Coed"
Thursday, May 2nd, 1912.....Senior-Faculty Base Ball Game
Friday, May 3rd, 1912.....Conference Base Ball Game, Armour vs. Monmouth
Saturday, May 4th, 1912.....Conference Base Ball Game,
Armour vs. Knox; Junior Prom at the Colonial Club

The seventh annual Junior Week, April 29 to May 4, 1912, was, from every standpoint one of the most successful Armour has ever known.

The week was started off with a rush by the Junior banquet held Monday evening at the University Club. We received the privilege of this club through our friend Prof. Coffeen, who, although no longer on our faculty, will, at any time go out of his way to do us a favor. Five members of the faculty were present, each of whom spoke on some phase of his own work. The latter part of the evening was given over to impromptu talks and stories referring to the coming Junior Play and other things.

Tuesday at 11:30 the Rooters' Association held a large mass-meeting in Science Hall at which talks were given by the two Junior Week marshals, Mr. Brown and Mr. Woerner; the president of the Association, Mr. Perlstein, gave one of his "straight from the shoulder" talks, urging the fellows to wake up, and show their spirit by coming out in full force to the Play and

the Dance. This mass-meeting we believe was a material aid, in making the week a success.

For Wednesday was scheduled the big feature, the Junior Play. On this little production, a great deal more time was spent by the Junior Class than a man ever thinks of giving to his thesis. A committee selected the play, "The Emergency Co-ed," before Christmas; the books were given out just after the holidays and try-outs started early in February. There were at first about three fellows for each of the twelve speaking parts. After a few rehearsals, however, Mr. Woerner was able to make the selection of the cast as follows:

Ned Moore, the "co-ed".....G. M. Adams
Highfield, a banker.....Walter Marx
Janet, his niece.....W. C. Buttner
Merwyn, Ricketts, Rockwell } Seniors.....E. R. Burley, Jr. / B. H. Jarvis / W. Fryburg
Monroe....., Smith..... } Juniors.....M. D. Wald / D. A. Drozeski
Mabel....., Verda..... } the "bone-head" twins.....P. F. Greifenhagen / H. Cooper
Violet, who lived there.....W. C. Mann
The President.....J. T. Lucas

(Marx, who was scheduled to take the part of Highfield, was forced to give it up on account of sickness; Alex Robertson, his understudy, took the character on very short notice, and carried it through admirably.)



The other candidates were given parts in the chorus, along with fellows who wished to help with the play, but could not spare the time that the more important parts required. In the chorus were: Fischel, Hoffman, Wood, Stansel, Curtis, Phillips, Rothwell, Arenberg, Lill, Badger, Ehrman, Cramer.

Much of the atmosphere of the play was given by this chorus, every member of which became more than expert in following the different play directions, such as: "Shouts heard in distance,"

"Cries of 'down with co-education,'" "'who said co-education?'" "Blowing of horns, beating of pans," "Cheers," "Wild cheers," "Still wilder cheers," "Pandemonium." And as far as cheering to an echo every statement made by Merwyn in each of his speeches, there simply was nothing comparable to it.

Not to be out-done by the Palace and Majestic theatres, the management arranged for six famous actresses to be present as ushers. They were:

Gaby Deslys.....Dwight Gibbs
Maxine Elliot.....Harry Arnold
Mary Garden.....J. H. Bischof
Anna Held.....Irwin Newman
Eva Tanguay.....James Hayes
Bessie McCoy.....R. D. Williams

The appearance of these young women (?) as also, that of the "actresses" on the stage, was altogether stunning and beautiful but at the first smile or spoken word, the apparition vanished. The ushers caused a great deal of amusement on the part of the audience, especially their first few attempts to sit down when the play began.

We had been promised a new curtain for our play, but on account of a misunderstanding it arrived too late to be used. The old one, however, was manipulated very handily by Kehr and Yorke. The scenery, which Wr. Woerner selected, was of the best that could be procured; he had the stage extended about eight feet and a complete set of foot-and spot-lights installed, all of which greatly helped in making a finished production. The night of the play could not have been better, even had the weather man been an Armour graduate and the audience was one of the largest and most appreciative that has ever attended a school function.



The next day, Thursday, the annual Senior-Faculty baseball game was played. It was a fine bright day, classes were excused at two o'clock and everybody went over to the field. There is always a full attendance at this game,for no matter how many of them you have seen, it is always a great sight to watch those "theoretical profs." go out on the field and show the Seniors how to play the National Game. This time it was a walk-away for

the Faculty, which team showed the more constant gains and a whirlwind finish.

Friday, one of the "Little Five" league games (Armour vs. Monmouth at Armour) was played, in which our boys, with Carver and Kahn as the battery, nailed the opponents by a four to one score. This result, of course, brought great joy to the Tech., as did also the game with Knox on the following day. This time with Hamilton pitching, the visitors were beaten eleven to one.

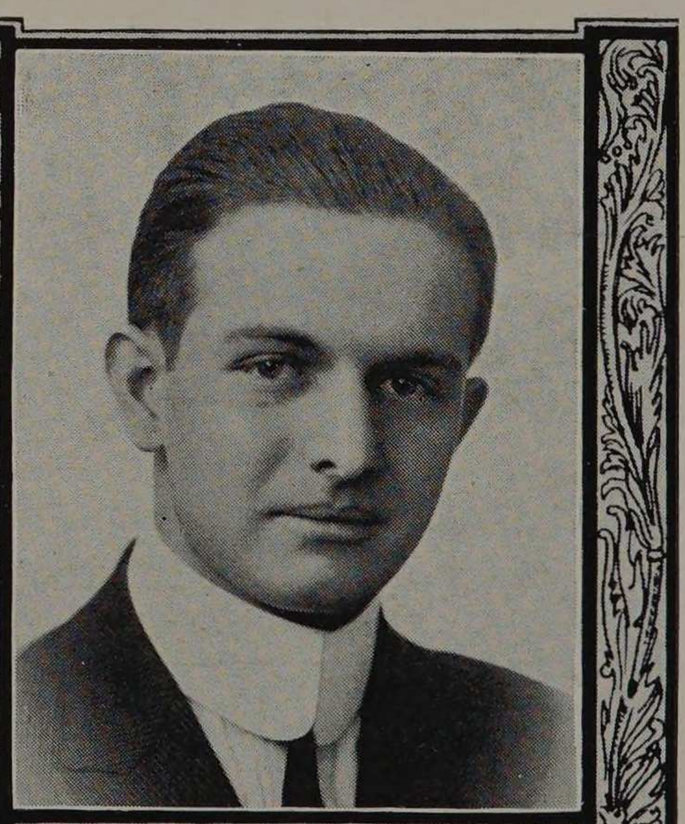


The week would have been a success if it had stopped right there, but wonders were not to cease; for the Junior Prom had been arranged for that evening by P. K. Brown. As most of you know P. K. is "some arranger" and he surely did himself credit on this occasion for the Colonial Club, the sweetest of music and the classiest of programs gave this affair an enviable reputation.

The FULCRUM spoke highly of the Week in an editorial giving much credit to the Marshals.



1ST. MARSHAL



2ND. MARSHAL.


VIEWS FROM
JUNIOR
PLAY
1912

Junior Week—1913

Marshals of the Week

Fred D. Farrar.....Head Marshal
Clark C. Heritage.....Second Marshal, in charge of the Junior Play
Roscoe Zook.....Third Marshal, in charge of Junior Prom

PROGRAM FOR THE WEEK

Monday, May 5—Baseball, Alumni vs. Tech.

Tuesday, May 6—The Junior Play, "Looking for Mary Jane."

Wednesday, May 7—Dual Track Meet with Lake Forest.

Thursday, May 8—The 1914 CYCLE out; The Rooter's Association Circus in the afternoon; also the Senior-Faculty Base Ball Game.

Friday, May 9—Finals of the Tennis Tournament; the Banquets of the Classes in the evening.

Saturday, May 10—The Junior Prom at the Colonial Club.

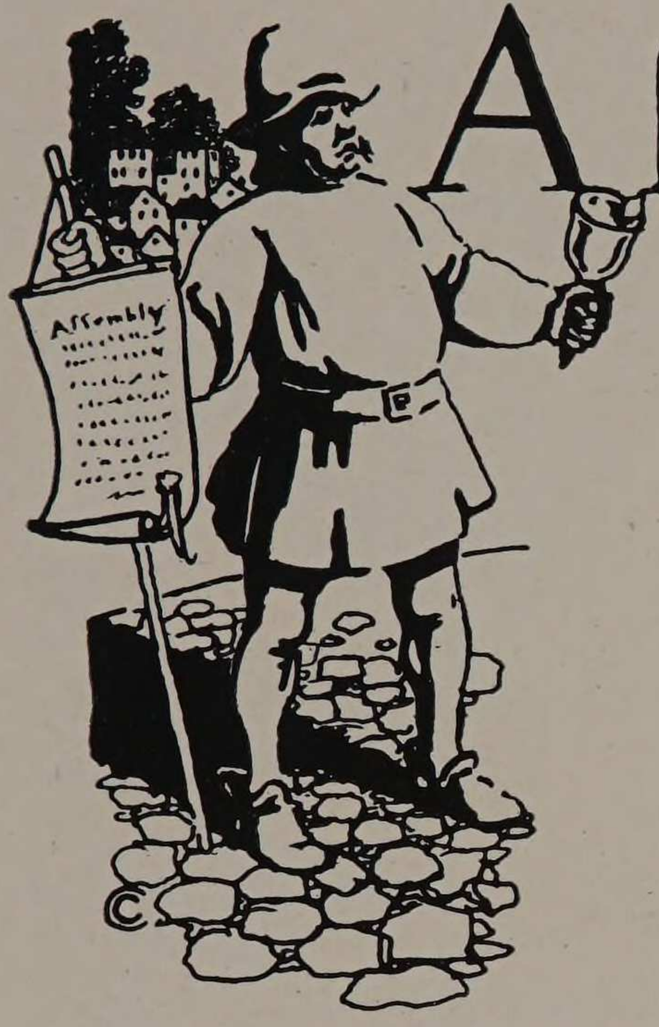
Radic Doings

Radical X was founded by thirteen Freshmen in the Spring of 1900 with the purpose of promoting real college life at the Institute, and more particularly to quicken class rivalry and to promote class and Institute undertakings. The chipping of an '04 on the nickel ore block in front of the Mission first served to introduce the Society to the student body—and to some other people.

The organization has flourished greatly down through these thirteen years, and during its life has engineered two comic operas, a number of "minstrels", and banquets and dances galore. In the days of the Rush the Radics were also prime movers in this inter-class combat.

The organization is now tending toward purely social lines and the big event of the year for Radics is the Alumni Banquet held sometime during the early Spring. The old Union used to be the favored banquet hall, but the Great Northern has lately grown in popularity for this annual gorging of roast pig and rye bread.

Last year's banquet was held there on Friday evening, May 6th, and the Alumni were much in evidence during the evening's hilarity. Thirteen courses made up the repast, and between the courses the men indulged freely in Institute and Radic songs and yells. The toast list included the following: Eustace Vynne, Sam Todd, Bill Dunn, Bronk Adams, R. S. Claar, John Aeberly and Roy Spindler. Spec Kiley presided at the board and in a little talk outlined the history and growth of Radical X. The two officers for the ensuing year were chosen.



Assemblies

Sept. 13, 1912—Hon. Dr. Lincoln Loyal Wirt—"Alaska."

Oct. 18, 1912—Judge Marcus Kavanaugh—"Delays of the Law."

Oct. 31, 1912—Dr. F. W. Gunsaulus—"Antiques."

Nov. 6, 1912—Dr. F. W. Gunsaulus—"Lessons from the Election."

Nov. 20, 1912—Mr. V. Falkenau—"General Problems of Building Construction."

Nov. 27, 1912—Mr. V. Falkenau—"Caissons."

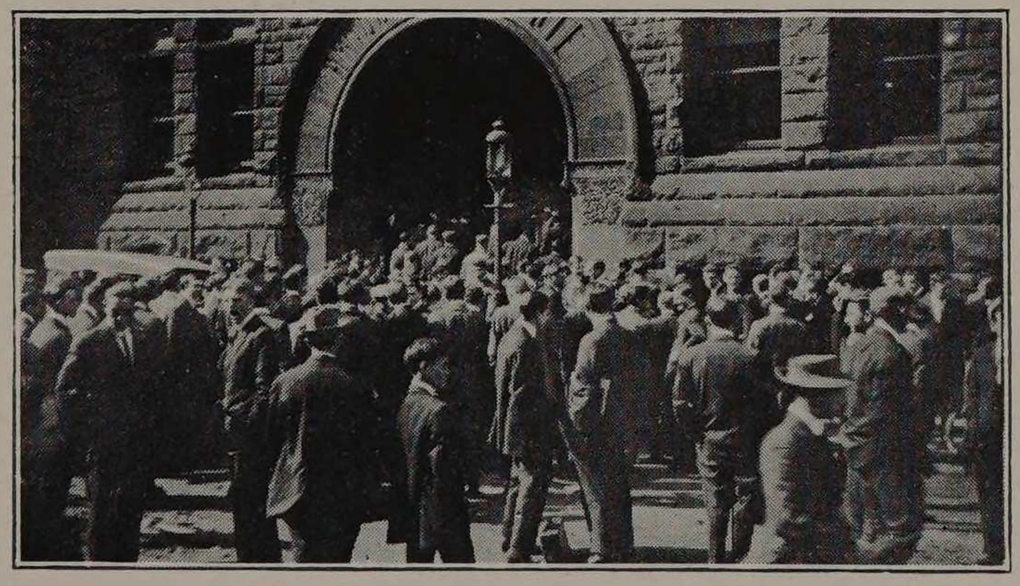
Dec. 9, 1912—Mr. Evan Williams—Song Recital.

Mr. Adrian Newens—"The Man from Mars."

Feb. 14, 1913—Dr. F. W. Gunsaulus—"Abraham Lincoln and George Washington."

Feb. 27, 1913—Rev. G. S. Kellogg—"The Roman Forum."

March 18, 1913—Mr. Frank A. Spaight—"Pickwick Papers."



Social Calendar

March	23, 1912	Eta Kappa Nu—Banquet	Boston Oyster House
April	27, 1912	Radical X—Alumni Banquet	North American
	27, 1912	Tau Beta Pi—Initiation Banquet	Stratford Hotel
	29, 1912	Classes—Junior Week Banquets	University Club
May	1, 1912	1913—"The Emergency Co-ed"	Armour Mission
	4, 1912	1913—Junior Prom	Colonial Club
	11, 1912	Atelier—Banquet	Great Northern
	16, 1912	Tau Beta Pi—Theatre Party	Garrick
	18, 1912	Delta Tau Delta—Informal	House
September	20, 1912	Phi Kappa Sigma—Smoker	House
	25, 1912	A. I. E. E.—Smoker	Chapin Hall
	27, 1912	Y. M. C. A.—Handshake at Beanery followed by Smokers at all Fraternity Houses	
October	4, 1912	Phi Kappa Sigma—Informal	House
	11, 1912	Delta Tau Delta—Informal	House
	15, 1912	Eta Kappa Nu—Reunion and Smoker	Chapin Hall
	16, 1912	A. Ch. E. S.—Banquet	Kuntz-Remmlers
	25, 1912	Radical X—Informal	Rosalie Hall
	26, 1912	A. S. M. E.—Informal	Armour Square
	26, 1912	Omega Lambda—Theatre Party	Grand
	30, 1912	Atelier—Hallowe'en Party	Art Institute
November	5, 1912	Eta Kappa Nu—Smoker	Chapin Hall
	7, 1912	Sigma Kappa Delta—Smoker	New House
	8, 1912	Classes—Freshman Smoker	Oakland Music Hall
	9, 1912	Tau Beta Pi—Initiation	Chapter Rooms
	12, 1912	Tau Beta Pi—Banquet	Stratford Hotel
	15, 1912	Phi Kappa Sigma—Informal	House
	20, 1912	A. Ch. E. S.—Banquet	City Club
	22, 1912	A. R. A.—Tech Night	Palace Theatre
	23, 1912	Phi Kappa Sigma—Alumni Smoker	House
	23, 1912	Delta Tau Delta—Informal	House
December	6, 1912	1913—Senior Prom	Colonial Club
	6, 1912	Omega Lambda—Alumni Smoker	House
	13, 1912	Radical X—Annual Initiation	Phi Kappa Sigma House
	14, 1912	Eta Kappa Nu—Banquet	Boston Oyster House
	14, 1912	Omega Lambda—Banquet	Kuntz-Remmlers
	14, 1912	Sigma Kappa Delta—Smoker	House
	16, 1912	Delta Tau Delta—Christmas Party	House
	18, 1912	A. I. E. E.—Banquet	Boston Oyster House
	20, 1912	Phi Kappa Sigma—Formal Prom	LaSalle Hotel
	24, 1912	Omega Lambda—Christmas Party	House
	30, 1912	Phi Kappa Sigma—Holiday Dance	House
January	10, 1913	Delta Tau Delta—Formal Prom	Blackstone Hotel
	15, 1913	A. Ch. E. S.—Alumni Banquet	Hotel Sherman
	17, 1913	Atelier—Informal	Hotel LaSalle
	18, 1913	A. S. M. E.—Banquet	Boston Oyster House
	21, 1913	Tau Beta Pi—Theatre Party	Illinois
	24, 1913	Phi Kappa Sigma—Informal	House
	24, 1913	Tau Beta Pi—Alumni Formal	Congress Hotel
	25, 1913	Phi Kappa Sigma—Theatre Party	Powers
	25, 1913	Sigma Kappa Delta—Theatre Party	Cohen's Grand
	31, 1913	Radical X—Informal	Greenwood
February	4, 1913	A. C. E. S.—Semi-Annual Smoker	Chapin Hall
	7, 1913	1914—Junior Hop	Colonial Club
	21, 1913	Sigma Kappa Delta—Smoker	House
	21, 1913	Delta Tau Delta—Faculty Smoker	House
	22, 1913	Sigma Kappa Delta—Theatre Party	Whitney
	24, 1913	Eta Kappa Nu—Smoker	Chapter Rooms
	28, 1913	Musical Clubs—Annual Home Concert	Armour Mission
March	4, 1913	A. Ch. E. S.—Banquet	City Club
	7, 1913	1915—Sophomore Dance	Hyde Park Masonic Temple
	8, 1913	Sigma Kappa Delta—Banquet	Great Northern
	14, 1913	Omega Lambda—Smoker	House
	29, 1913	Eta Kappa Nu—Banquet	Boston Oyster House
	29, 1913	Radical X—Banquet	Great Northern
April	12, 1913	1916—Freshman Dance	Sherman House
	25, 1913	Omega Lambda—Annual Dance	
	25, 1913	Sigma Kappa Delta—Informal	Hamilton Field Club
	25, 1913	Delta Tau Delta—Informal	House



SENIOR PROM



On the evening of December 6th, the Senior Prom was danced in all its glory, and the class of '13 acted as hosts on such an occasion for the last time. It was an excellent affair and the Class may rest assured that the standard they have maintained throughout their college career, was certainly upheld. Everybody was there.
At least it seemed that way from the balcony and certainly was that way on the floor.

The programs themselves were exceptionally unique, and the Committee deserves a word for the original idea embodied in them. They were entitled, "The Annual Prom, an Episode of College Life in Twenty Chapters," the author being the Senior Class of Armour Institute, and the Edition, a De Luxe (limited) going to press Dec. 6, 1912. Then followed the twenty dances, which were entitled "Chapters;" and each Chapter was headed with the musical number played for that particular dance. As there was but one chapter to a page, space was left for names and notes by which the memories of the evening might be recalled when college days have long since ceased to be.

The patronesses for the evening included Mesdames Raymond, Monin, Smith, Phillips, Freud and Leigh.

The Committee in charge consisted of P. K. Brown, Chairman, with W. C. Buttner, H. Walin and A. Woerner, as Committeemen.

JUNIOR HOP

On Friday, Feb. 7, 1913, the second big class dance, that of the Juniors, was held at the Colonial Club, 4345 Grand Blvd. The fellows had not yet settled down to strenuous work in the new semester, and although the crowd was not equal to that of the Senior's the floor was just comfortably filled.

The programs brought out a new feature in the thin mother-of-pearl covers, which set off to good advantage the design of a block A, with the '14 numerals, which were embossed in gold on the front leaf. The Club was prettily decorated with ferns and palms.



The Committee in charge consisted of Roscoe Zook, Chairman, together with F. L. Brewer, J. M. Emslie, H. D. Roller and H. O. Sexsmith.

C. S. A. RECEPTION AND DANCE

The most elaborate social event that has been attempted in many a day which concerned directly our entire Institute, was the reception and dance of the Chicago School of Architecture, under the immediate auspices of the Atelier, on Friday evening, January 17th. The only thing connected with the function which is to be lamented was the conflict occuring between it and the semester finals. One of the most important Junior subjects was scheduled for eight the next morning, and many Juniors were literally forced to stay away. The Atelier Chairman estimated that those conflicts caused the absence of about forty couples.

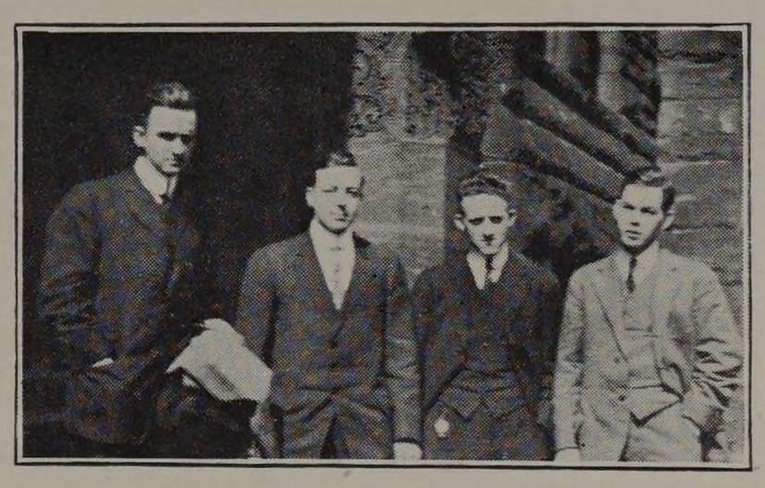
The dance was a formal affair, and held in the Blue Room of the Hotel La Salle. Approximately one hundred couples waltzed and "tango'd" to Anderson's excellent music. The following Patronesses accepted the invitation to act in that capacity, though not all could actually be present: Mesdames Ayer, Bartlett, Dunne, French, Hamill, Hutchinson, Logan, McCormick, Monin, Raymond, Ryerson, Shattuck, Shaw, and Tuttle. The above list includes the wives of men prominent in many walks of life, especially in architecture and engineering.

Special features were arranged by the committee, of which one was a Cabaret song or two by Miss Mary Garden, and another the appearance of some of the Irish players, who have recently been showing at the Fine Arts Theater. Of the former feature much has been erroneously printed in the local papers. The fact of the matter is, Miss Garden was so nearly exhausted after her evening's operatic work in "Tosca" that she could not possibly appear at the Reception, as she had promised. The Irish Players were there, however, and delighted the audience with their dancing.

The programs were bound in black leather covers, which had small, sterling silver "T" squares riveted fast to the leather. The Atelier was spelled out along the shank of the square, while the head bore the year 1913. At the junction of the shank and head was the design of the Atelier pin, raised on the metal.

The following men served as the committee: A. A. Woerner, Chairman, assisted by A. D. Gibbs, H. O. Sexsmith, E. F. Schiffers, H. C. Holt, J. C. Bischof, and H. C. Stanley.

SOPHOMORE DANCE



Contrary to the expectation of many, the Sophomore Dance was a real success. The crowd was just right, not too large nor too small; and the new order of things at the Hyde Park Masonic Temple seemed to displace all longing for the old haunts of the Colonial Club.

The decorations, programs, and favors most assuredly did credit to our "Progressives," the Class of '15. It is certain that they did some extremely good advertising in presenting each lady with an "Armour '15" pennant.

The programs were bound in dark green unfinished leather with gilt title, and were the best looking ones of the whole season. The inserts may be removed, and the cover then forms a mighty useful card folder. The Patronesses included the wives of five prominent members of the Institute factulty.

The Committee in charge were H. P. Sherwood, Chairman, H. E. Anning, G. R. Bartling, L. S. Downey, and E. W. Kratz.

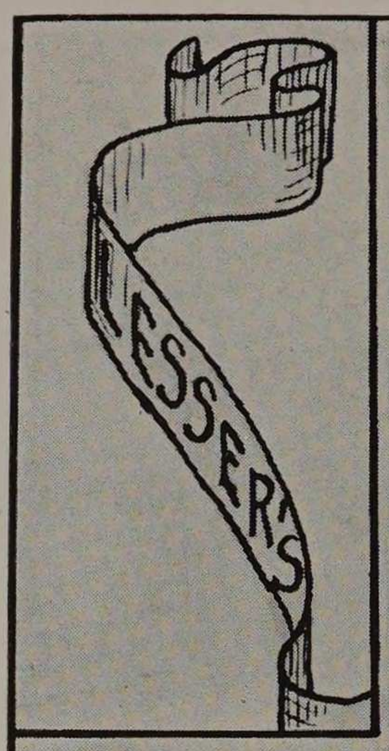
FRESHMAN DANCE



On Friday evening, April 11, 1913, the Freshman Dance was held in the Louis Sixteenth and Grey Rooms of the Hotel Sherman. The facilities of the Hotel for functions of this sort are of course beyond question; and the crowd was very well taken care of. The Freshman Committee had made arrangements to have the Crystal Ball Room thrown open as an "overflow" but this proved unnecessary.

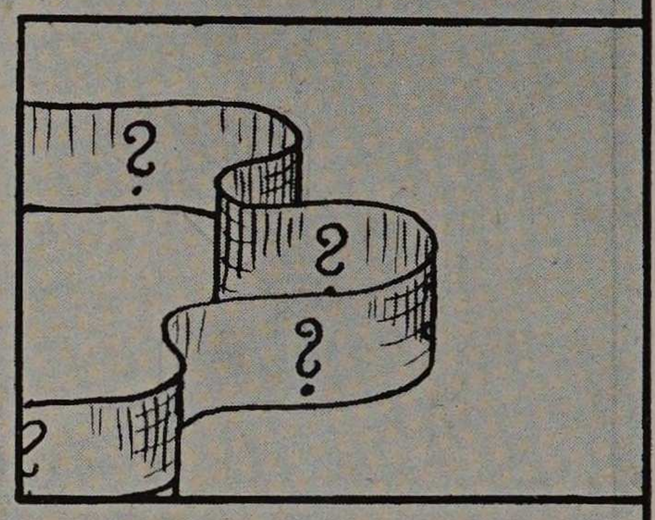
The Freshmen took a very commendable step in accepting a ball-room so centrally located, and the many Institute men and alumni living on the north and west sides appreciated the change.

The personnel of the Committee was: Chairman, R. S. Miesse, E. R. Eames, G. B. Perlstein, B. L. Roos, and J. A. Sullivan.

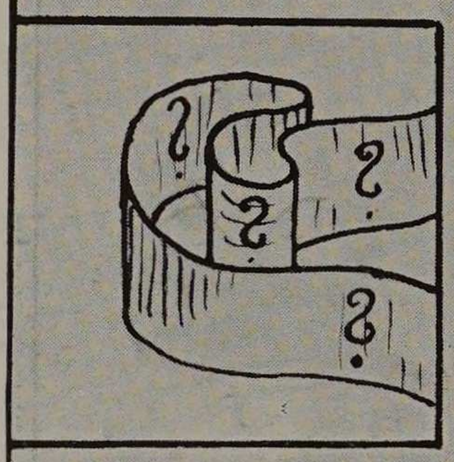

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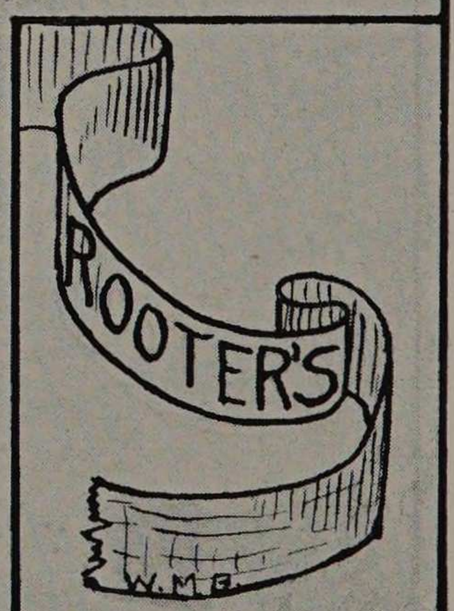


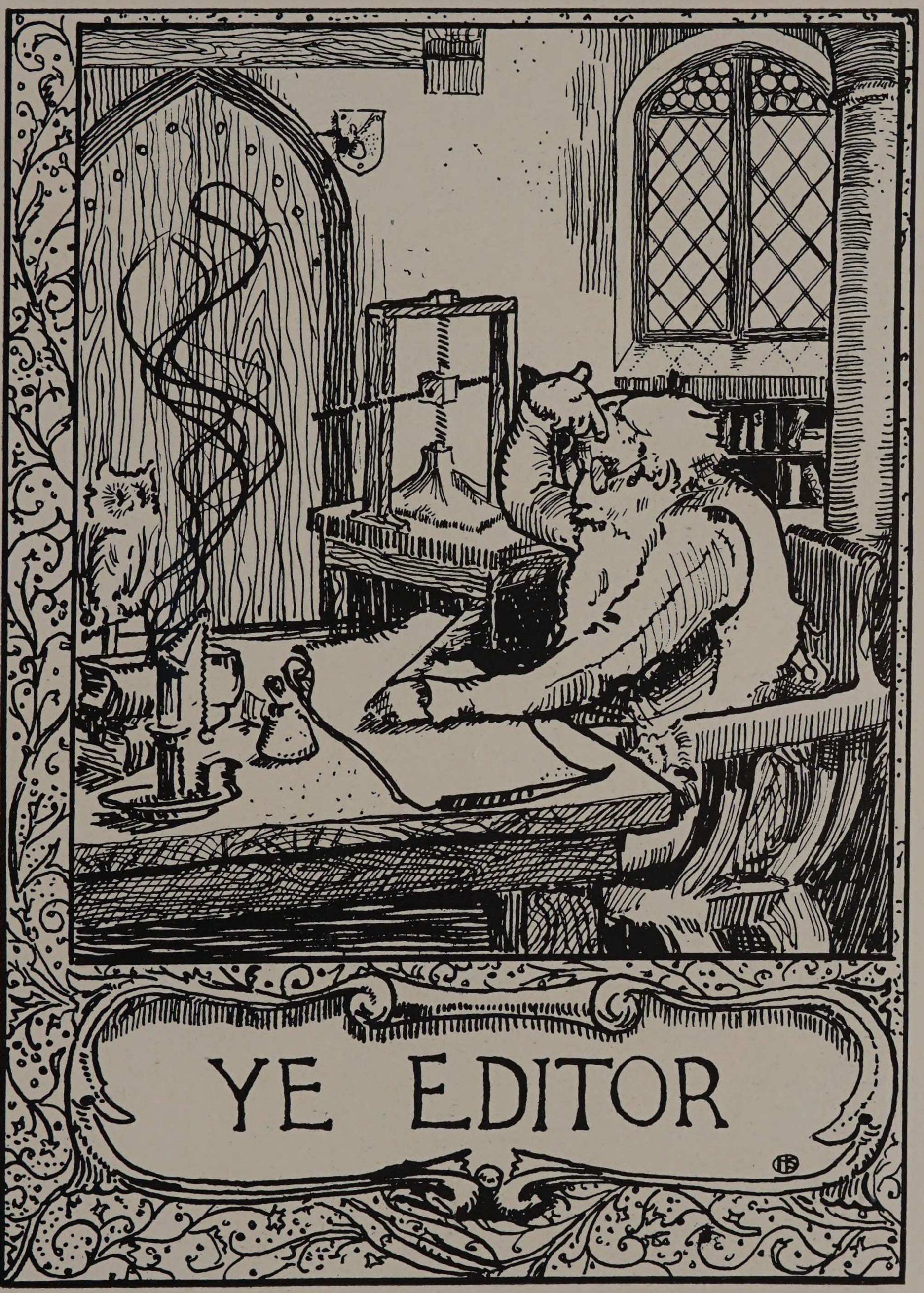

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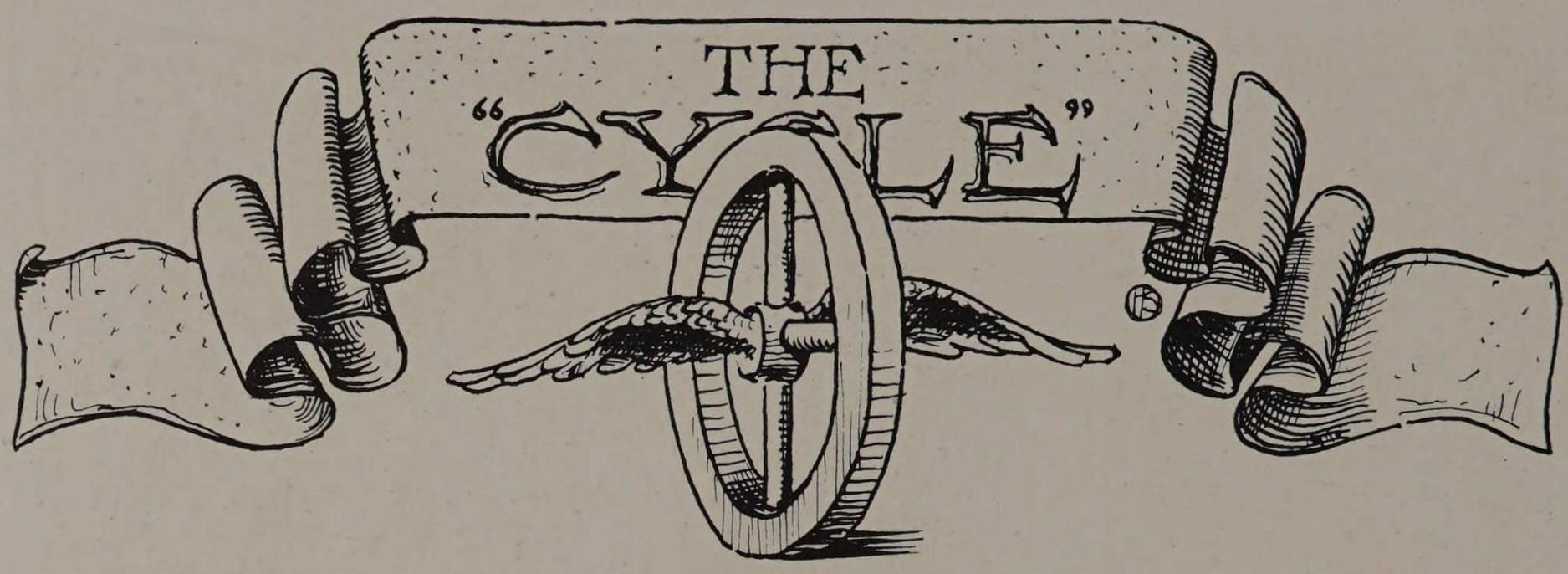

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ROOTER'S
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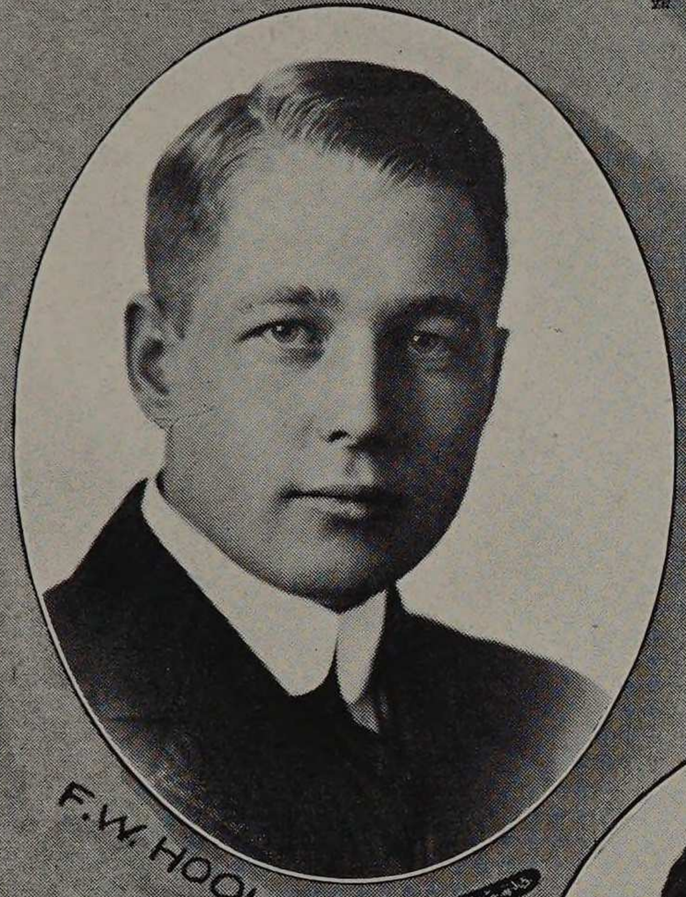
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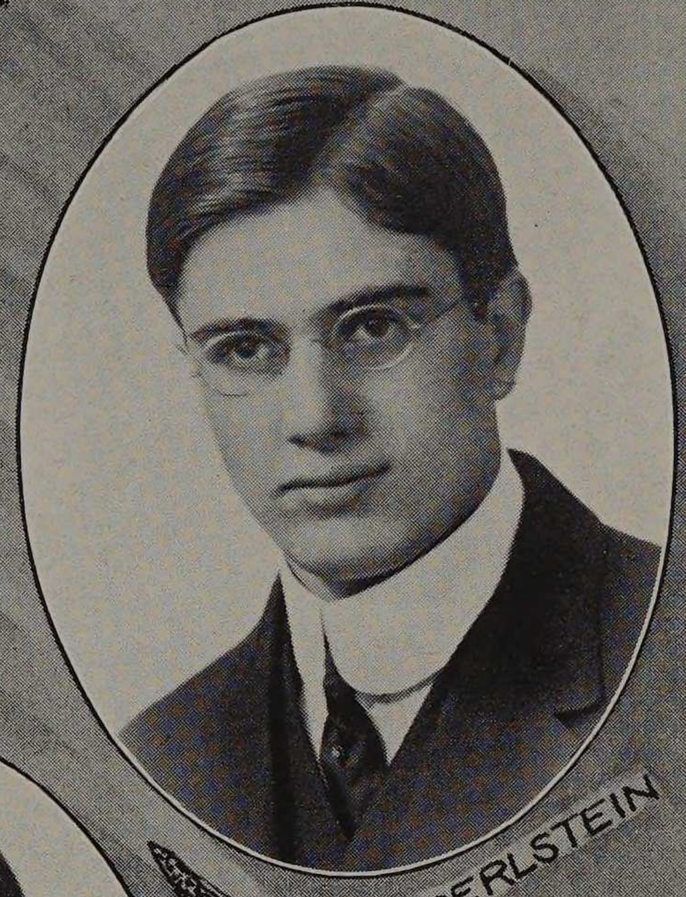
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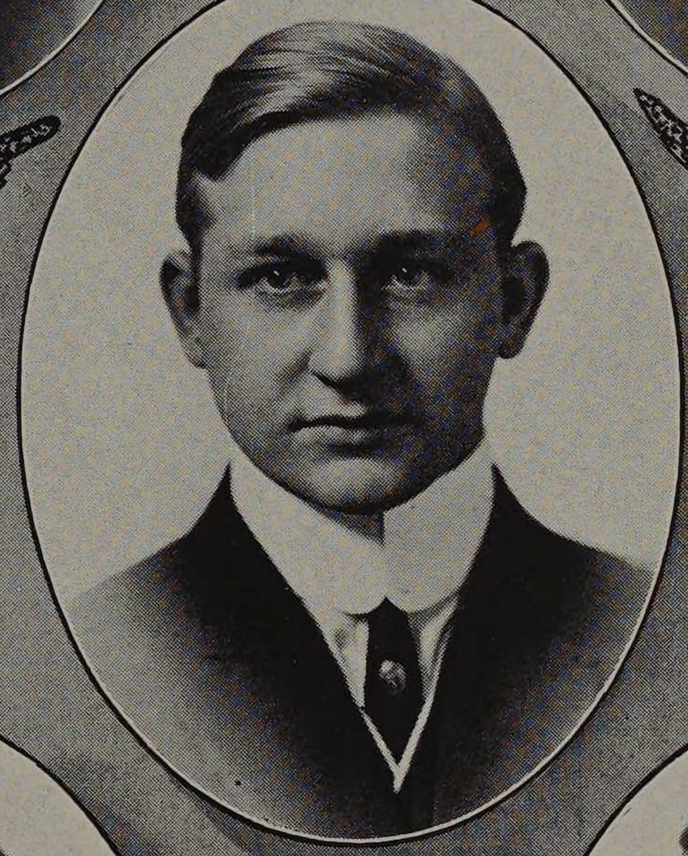
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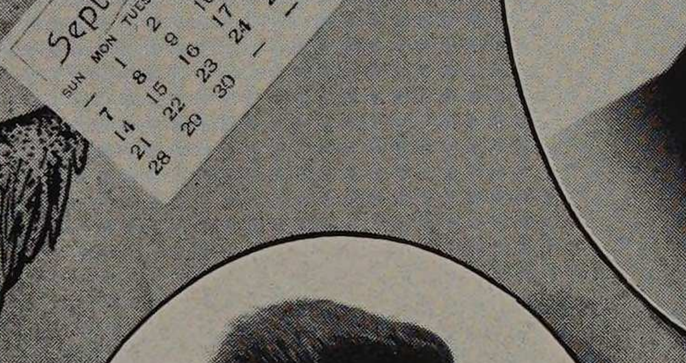
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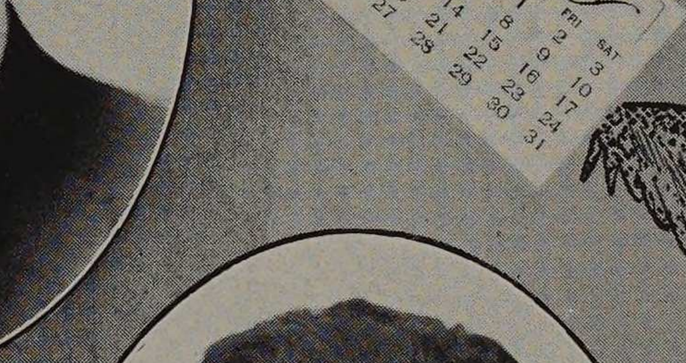
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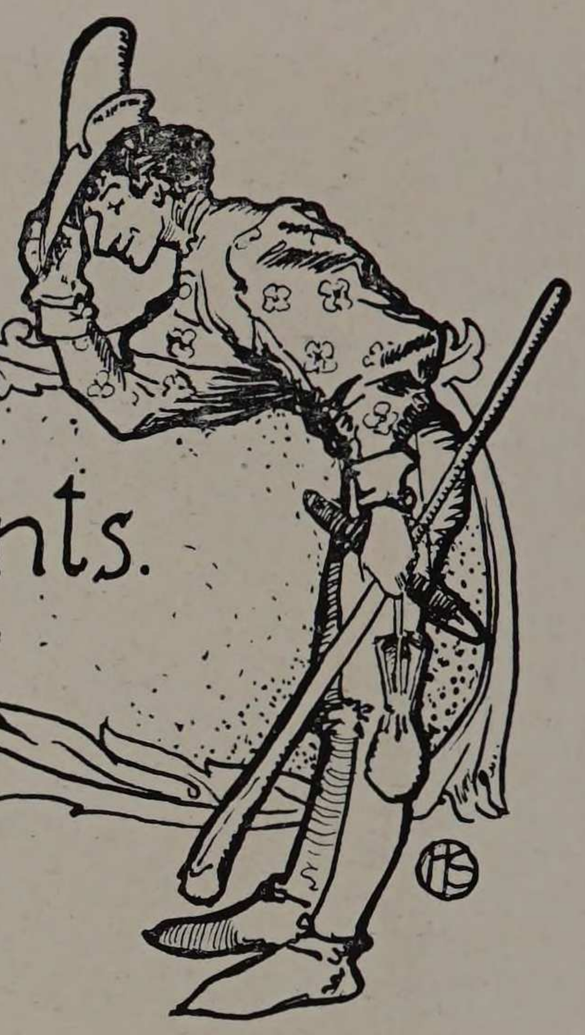


A.C. CRAMER



B.H. JARVIS

1913



Acknowledgments.

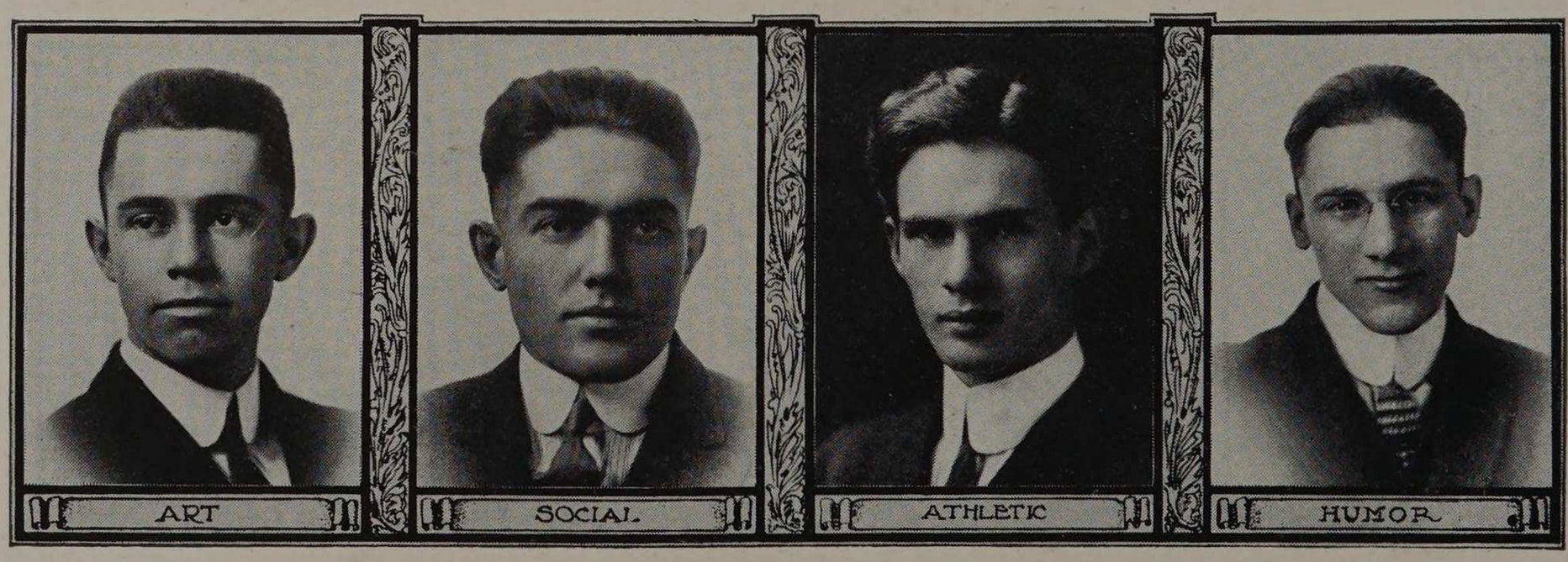
The Cycle Staff desires to acknowledge their indebtedness to the following students, members of the faculty and others who have so cheerfully volunteered their services to make the book what it is:—

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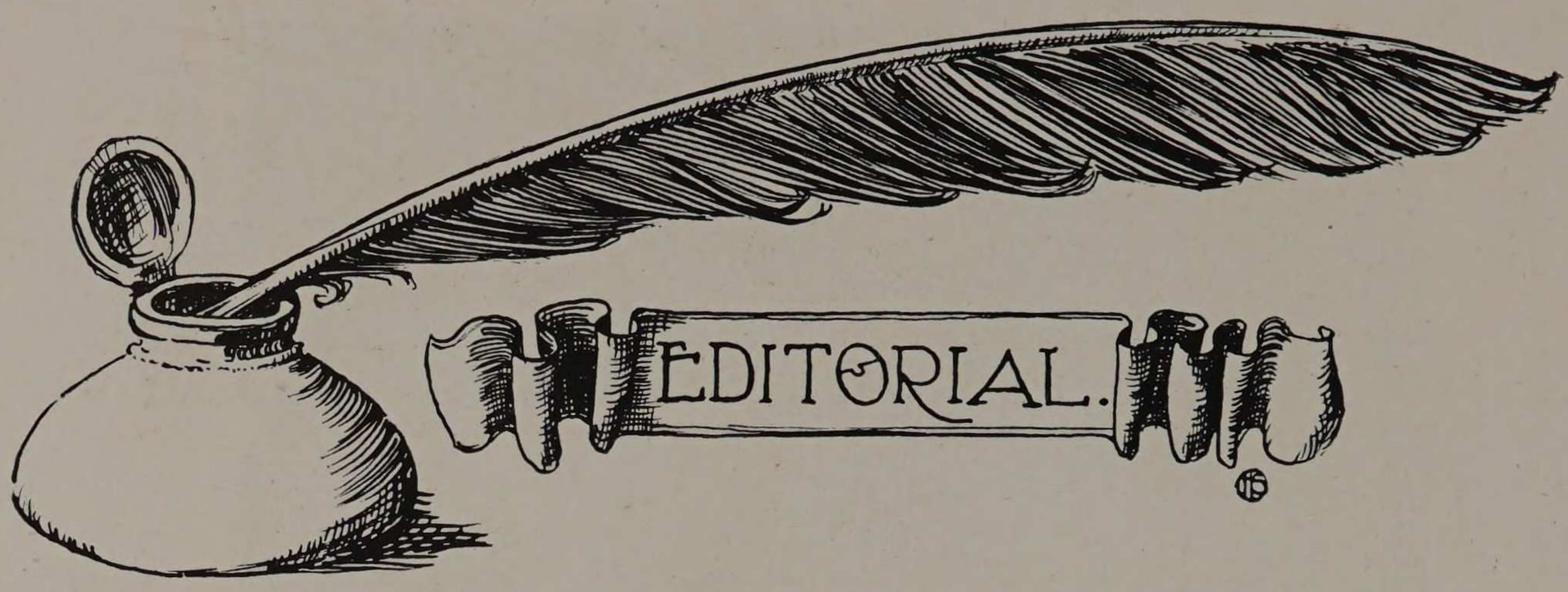


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CLASS of 1914.



EDITORIAL.

The Cycle has been dedicated to our Librarian, Mrs. Julia Beveridge. Our good wishes for her welfare accompany this token of our respect. For twenty years, from the opening day to the present, Mrs. Beveridge has given her strength, her untiring industy and her valuable services to the cause of the students of Armour Institute of Technology.

The entire student body joins the editors in expressing to the Librarian their greatest appreciation of her faithful life.

The Editors of the Cycle herewith send the products of their endeavor into the world and ask their fellow-students to accept the book in a kind spirit and with sympathetic indulgence. The general plan of previous class books of A. I. T. has been followed, in the belief that this distinctive style we may call our own, has met with favor. If in any way this edition of the Cycle is appreciated, as representative of our college activities and of the spirit of our Alma Mater, the editors and all who were interested in its production feel well repaid. With these few words we bid the book "farewell," and wish for it a hospitable welcome by all subscribers.

The Cycle has been notified since the first of April, the limit of its events, that the following members, being Seniors, are to graduate:

Peter G. Pirrie.....Chemical Engineering
J. H. Hibler.....Industrial Arts
C. R. Schuler.....Electrical Engineering
L. R. White .....Electrical Engineering
D. Connell.....Architecture

THE FULCRUM

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METHOD OF ELECTING *FULCRUM* STAFF CHANGED

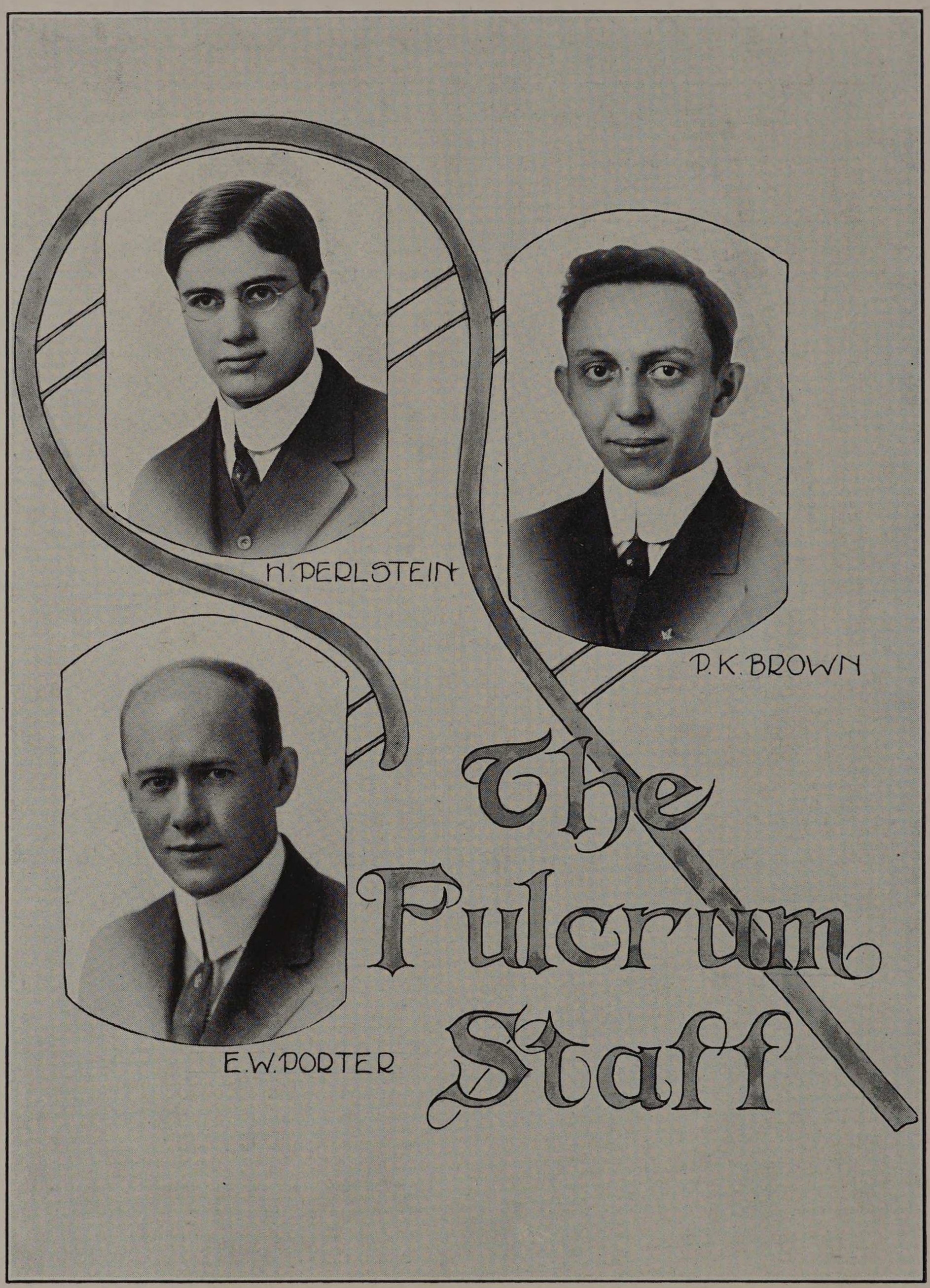
Paper Has Successful Year Under New System

ANNOUNCEMENT was made in May 1912, that the old system of choosing the managing staff of the Fulcrum, which amounted to little more than each staff pick ng men to run the paper for the following year, was to be discarded. Under the new plan each class, excluding seniors, placed in nomination one man for Editor-in-Chief and one for Business Manager, and, from the six men thus chosen, the Executive Council made a final choice of Editor-in-Chief, Business Manager and Managing Editor. This scheme will probably be made permanent.

During the 1912-'13 season the circulation of the Fulcrum has been brought to somewhat above the normal per cent of registration in the college. In order to restore confidence, which had been shaken by the appearance of only five numbers during 11-12, the September 1912 issue was rushed to press as fast as the staff could be organized.

The determination on the part of the management to give the subscribers their money's worth seems to have been appreciated by the student body. An added feature to the paper in the form of an "Engineer's Column," met with immediate approval.

The Fulcrum contains an accurate account of all happenings in the college and prints college literature, wit, art, opinion and information of general college interest.


H. PERLSTEIN
P. K. BROWN
E. W. PORTER
The Fulcrum Staff



COPENHAVER HERITAGE BURLEY LUCAS LINDQUIST HANSON

JARVIS PORTER BROWN PERLSTEIN LESSER

CLOSE DECELLE STRAIN AGAZIM McHUGH

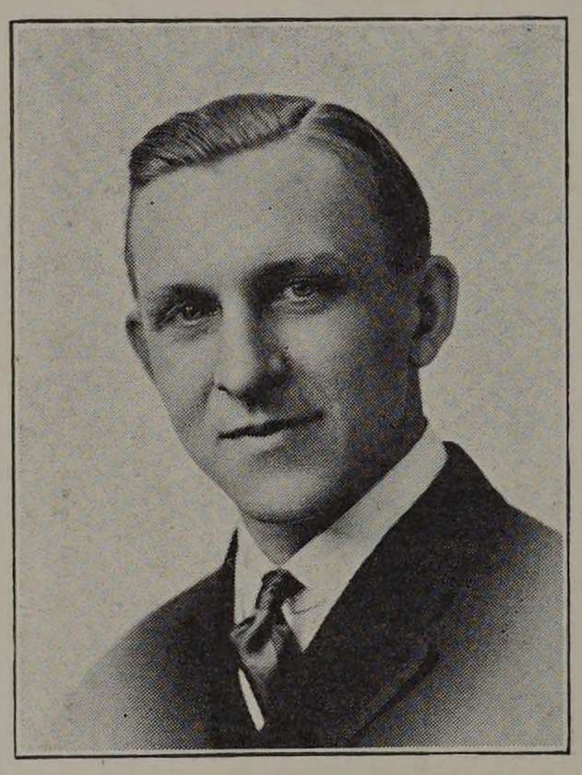
THE ARMOUR ENGINEER.

Editor-in-Chief

F. T. Bangs

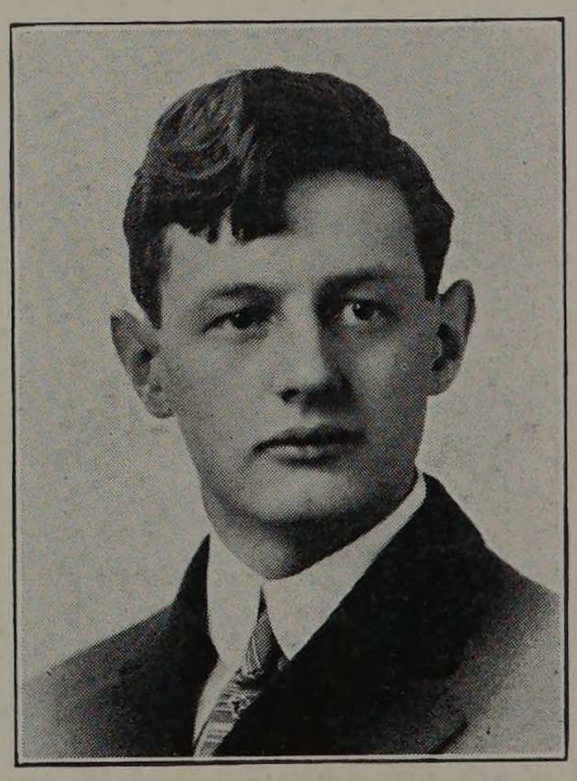
Business Manager

J. D. Bradford

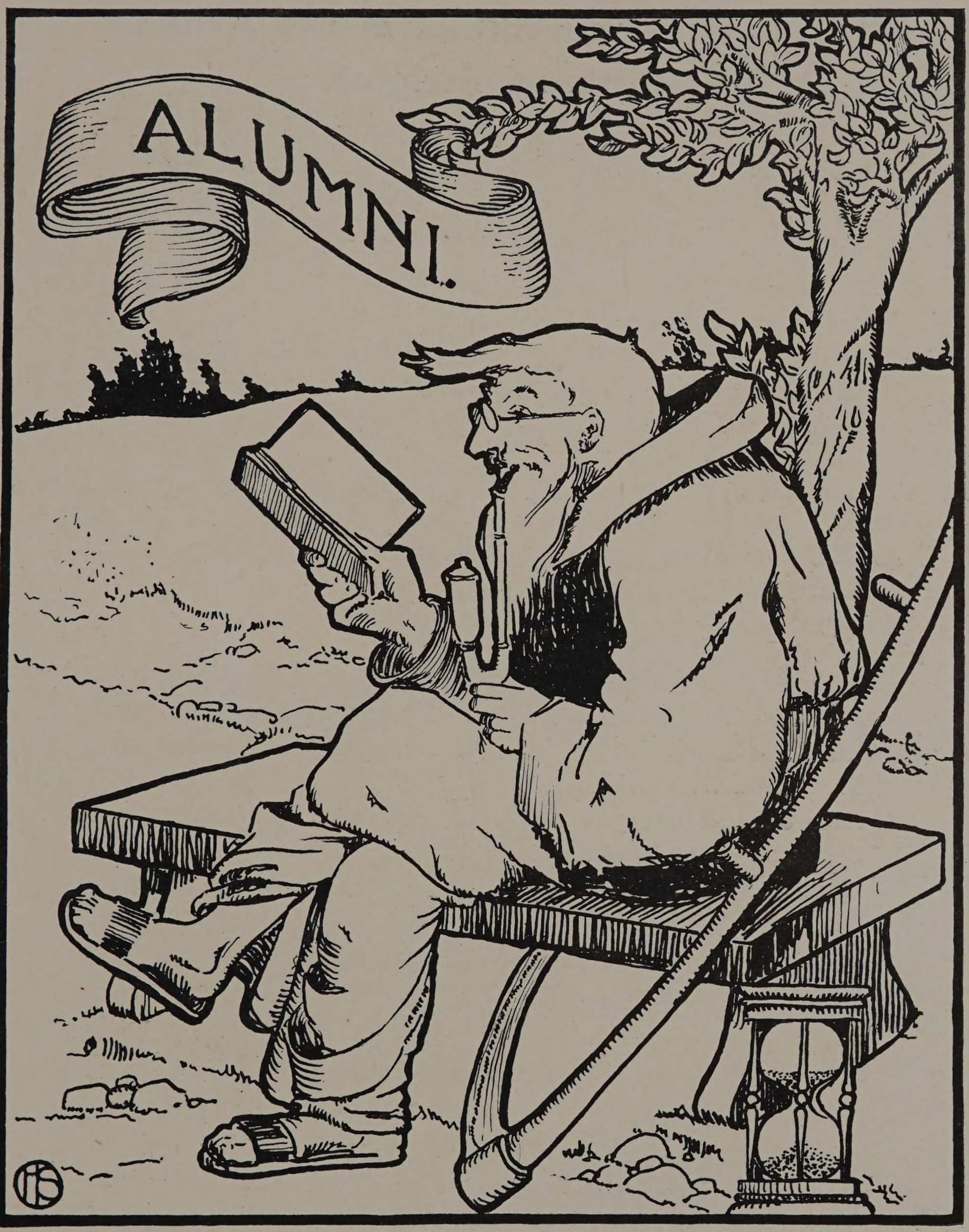


F. T. BANGS

The chrysallis of the Armour Engineer was formulated in the minds of the professors and seniors who saw the need of such a publication in September of 1908. In January, 1909, under the management of Tracy W. Simpson as Editor-in-Chief and E. V. McKarahan as Business Manager the first volume was published. Since then two issues have been printed each year, one in January and one in May. As stated by its originators, "The Engineer is intended to be a record of the progress attained at Armour, and of the things her graduates are doing." A fact which proves the increase of popularity and its worth to outsiders is shown by the number of times the Engineer is quoted in other Technical magazines. The Engineer presents treatises written by the professors and alumni of the Tech as well as those written by the undergraduates. The Staff consists of a senior Editor-in-Chief and a senior Business Manager; each one receiving his tuition for the work done on the book. This is in itself an indication of the value of the magazine to the Institute.



J. D. BRADFORD


ALUMNI.

The Alumni Association of the Armour Institute of Technology

Born 1897 **Still Growing**

Honorary Members:

Dr. F. W. Gunsaulus, President A. I. T.
L. C. Monin, Dean of the Cultural Studies, A. I. T.
H. M. Raymond, Dean of the Engineering Studies, A. I. T.
V. C. Alderson, President Colorado School of Mines, Golden, Colo.
J. E. Snow, Associate Professor of Electrical Engineering, A. I. T.
F. U. Smith, Comptroller, A. I. T.
W. T. McClement, Professor of Botany, Queen's University, Kingston, Canada.
B. J. Arnold, Consulting Engineer, Chicago.
H. F. McCormack, Chicago.

Officers, 1912-1913

President.....E. O. Greifenhagen, '06
Vice-President.....Arthur Wagner, '03
Treasurer.....F. G. Heuchling, '07
Recording Secretary.....F. A. Putt, '05
Corresponding Secretary.....Daniel Roesch, '04
Master of Ceremonies.....C. E. Freeman, '97

Board of Managers

Retiring, May, 1913:—

R. H. Rice, '97 J. C. Peebles, '04
E. H. Naglestock, '98

Retiring, May, 1914:—

A. L. Alschuler, '99 W. G. Wuehrman, '08
E. F. Gillette, '06

Retiring, May, 1915:—

F. M. DeBeers, '05 E. F. Hiller, '06
R. V. Perry, '97

THE ALUMNI ASSOCIATION.

The object in creating this organization is best expressed by its constitution, viz: "—promotion of fellowship and good will among the members; and to keep alive their interest in affairs at Armour Institute of Technology." The organization began soon after the graduation of the class of 1897 and anyone who has watched the growth during all or a period of this time by attendance at the meetings or otherwise will admit the sturdiness of this pioneer Armour organization. The sturdiness is shown at every angle: loyalty; numbers; fellowship and goodwill; interest in Alma Mater, and influence.

The membership in the association is of three classes: honorary, active and associate. Honorary members are nominated and elected by vote of the Association. Active members must be graduates of Armour Institute of Technology and the associate members must have completed at least two years in the College of Engineering of A. I. T. The active members at present on the roll number 730 and the associate 55. The honorary members number nine and have by word or deed shown in the past their interest, friendship and loyalty to the Association.

BOARD OF MANAGERS



WUEHRMAN HILLER NAGELSTOCK PERRY RICE

PUTT GREIFENHAGEN HEUCHLING

THE CYCLE.

Owing to the increasing numbers in the organization the actual business is carried on as far as possible by the Board of Managers, which consists of the officers of the association and nine members. The nine members are elected for three year terms, three being elected each year. This creates a perpetual organization of the business end of the association.

Two meetings are held during the year, a reunion during the week preceding Christmas, and the other meeting just before graduation exercises. At the latter the members of the graduating class are welcomed into the organization and the ticket of officers for the next year prepared by the nominating committee is voted upon.

A comparatively new but important phase of the association's work is furnished by the Scholarship Loan Fund. The fund is formed from the life membership dues to the association at $20.00 per member, or by voluntary contributions, and the money thus received is loaned to students requiring financial assistance while studying. The obligation carries with it a nominal interest rate, which goes to the general fund of the association. Over twenty of the Alumni have taken out life memberships in the association, and judging from the number of inquiries received, this number will be doubled within the next year.

The association co-operates with The Armour Engineer in sending notices, in keeping track of Alumni addresses which have been lost and in furnishing Alumni notes to a new department of the Armour Engineer, an arrangement which is proving mutually beneficial, and which promises even greater benefits.

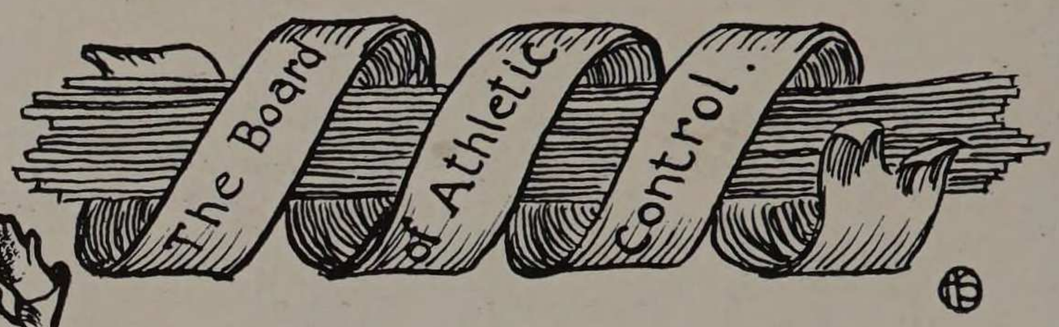
The value of the Alumni Association is considerable, as it offers a direct means of communication between the public and the Institute. It also is of no small value to the graduate, and the Association extends a most cordial invitation to the new members and endeavors to show its interest in a practical and substantial way.





Athletics.





PRESIDENT

Prof. W. K. Smart

SECRETARY

C. H. Spencer, '13

TREASURER

Compt'r F. U. Smith

GENERAL MANAGER OF ATHLETICS

Dr. H. B. Thomas

FACULTY MEMBERS

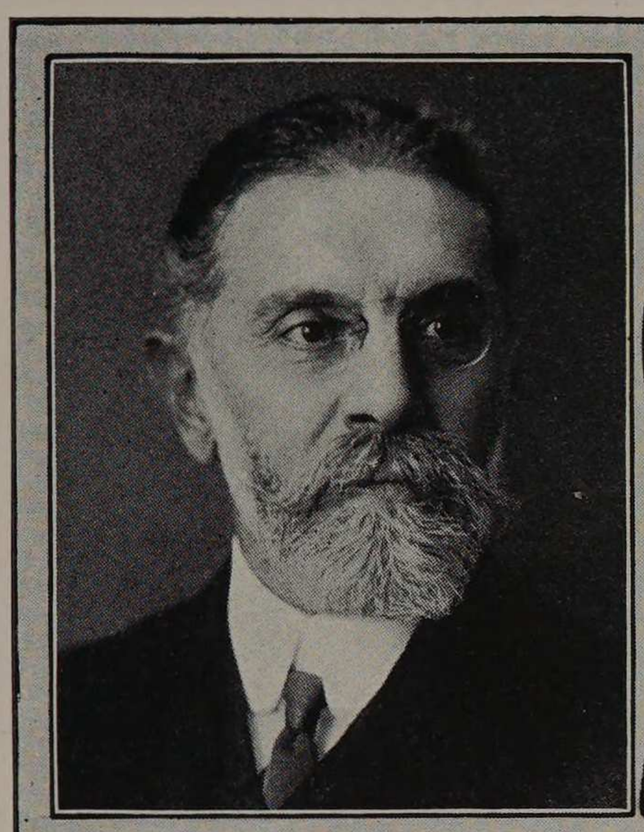
Dean L. C. Monin Dean H. M. Raymond

Prof. C. W. Leigh

STUDENT MEMBERS

C. H. Spencer, '13 F. D. Farrar, '14

T. A. Sullivan, '15



L. C. MONIN

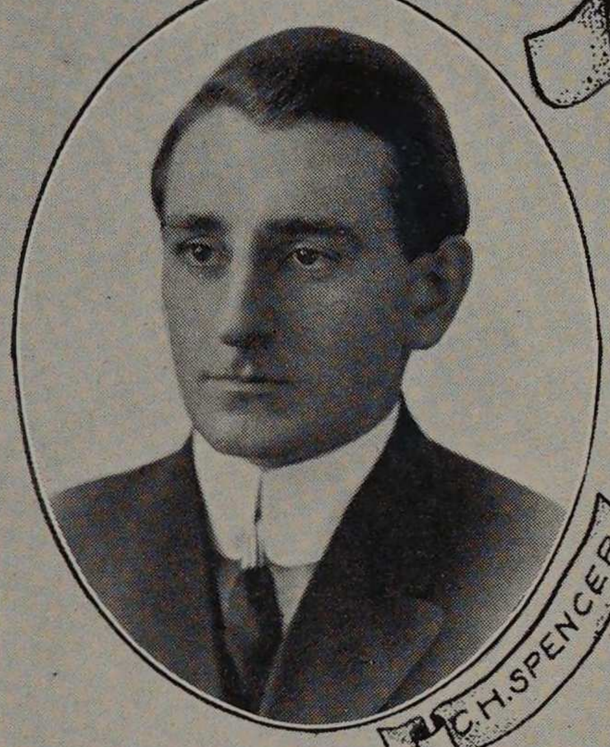


H. B. THOMAS

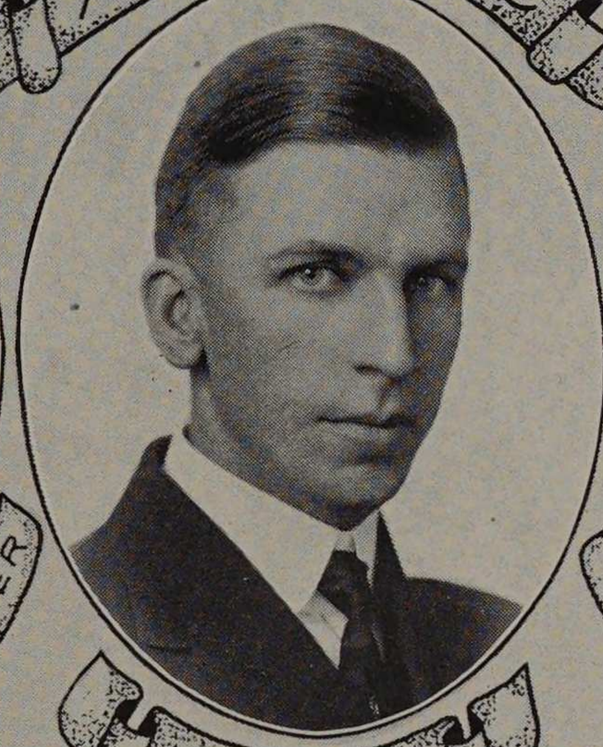


H. M. RAYMOND

BOARD OF ATHLETIC CONTROL



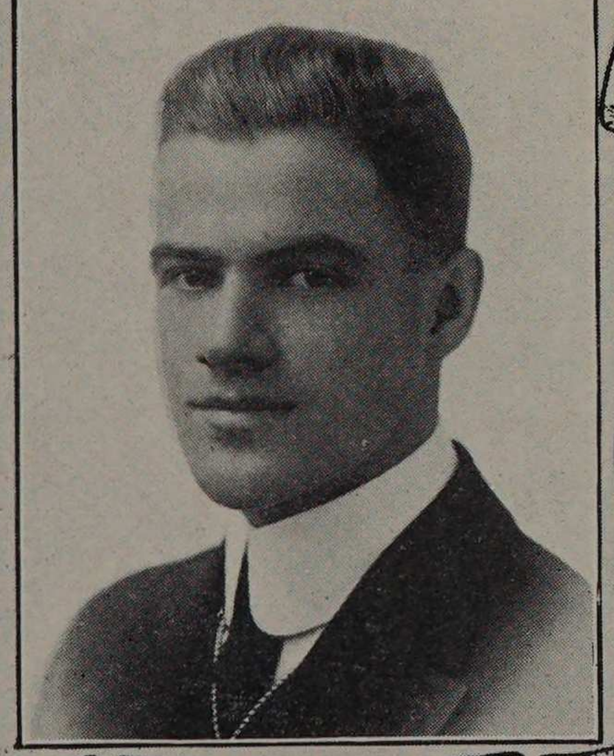
C. H. SPENCER



W. K. SMART



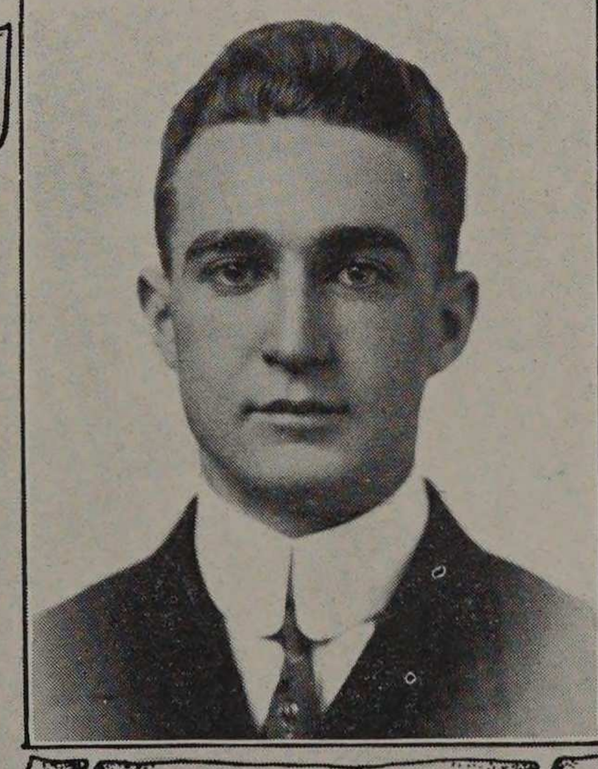
F. U. SMITH



F. D. FARRAR



C. W. LEIGH



T. A. SULLIVAN

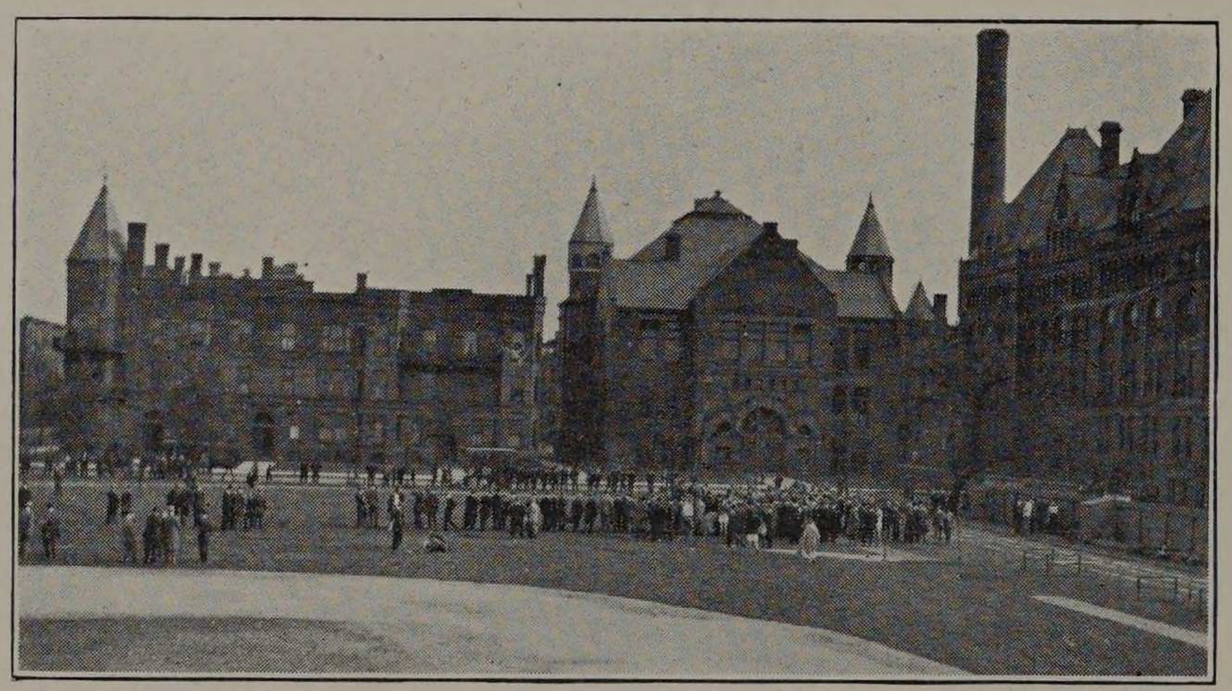
COACH JOHN JOSEPH SCHOMMER

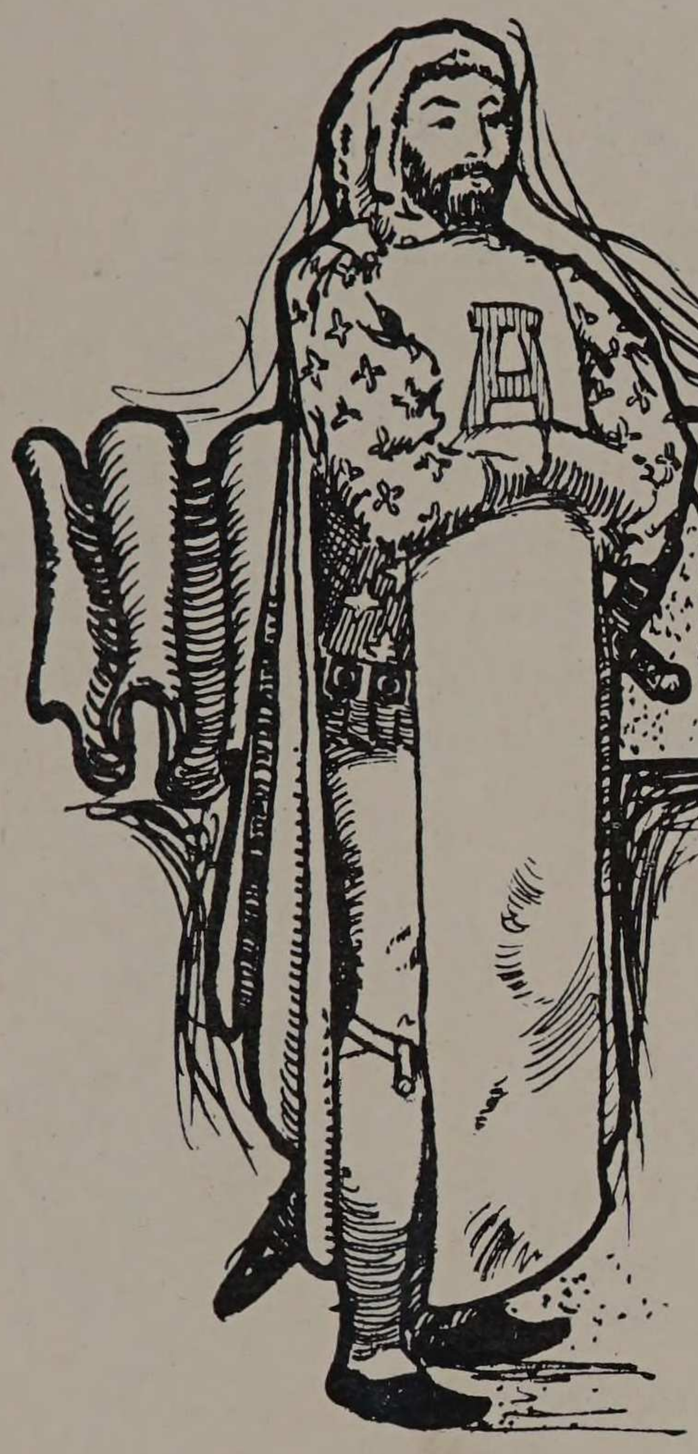


The biggest event to be recorded in Armour athletics is the naming of J. J. Schommer as coach. Schommer was placed in charge of track last spring, his presence in the Institute probably being a large determining factor in the return of this branch of athletics to A. I. T. Last fall he was signed to take charge of basketball, track and baseball.

Schommer is an Armour alumnus—'12, and a graduate of the University of Chicago, '09. He won national fame in athletics while at the U. of C. making the varsity in baseball, basketball, football and track, establishing four individual records in track. He made All-Western center in basketball three consecutive years, and All-Western end in football during his senior college year. He was also captain of the basketball team which won the World's Olympic Y. M. C. A. Championship at St. Louis in 1905, and has been on the coaching staff at the U. of C.

The lively interest now being evinced in athletics at the Tech, and the marked improvement which is showing in team and individual work can be laid at Schommer's door. Those in control certainly made a helpful move in securing John's services.





Wearers of the A

Season 1912–1913

BASE BALL

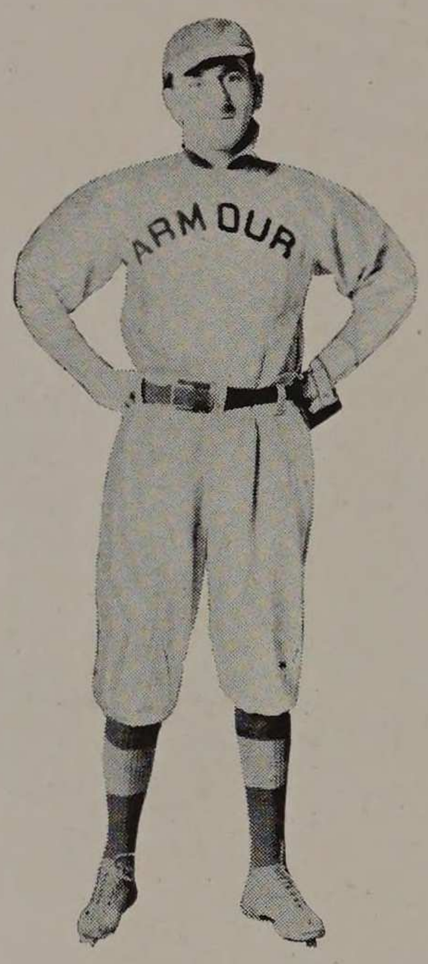
J. Lindquist, Captain
C. Spencer, Captain Elect
D. Hamilton
W. Kann
A. Carver
H. Israel
L. Hook
T. Sullivan
F. Cooban
H. Maddox
J. Chamberlin

BASKET BALL

Heritage, C.
Carver, A.
Copenhaver, P.
Sullivan, J.
Katzinger, A.
MacDonnell, A.

TRACK

A. Holden, Captain
N. Vanderkieft
C. Kopald
A. Barr

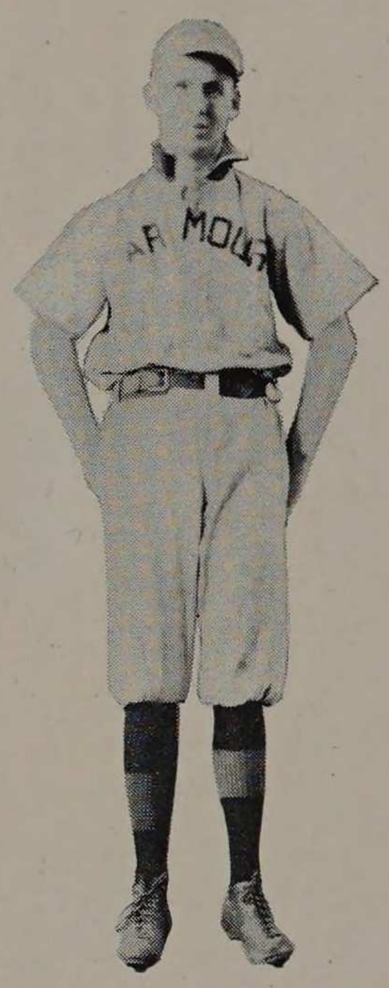


1913 A Men

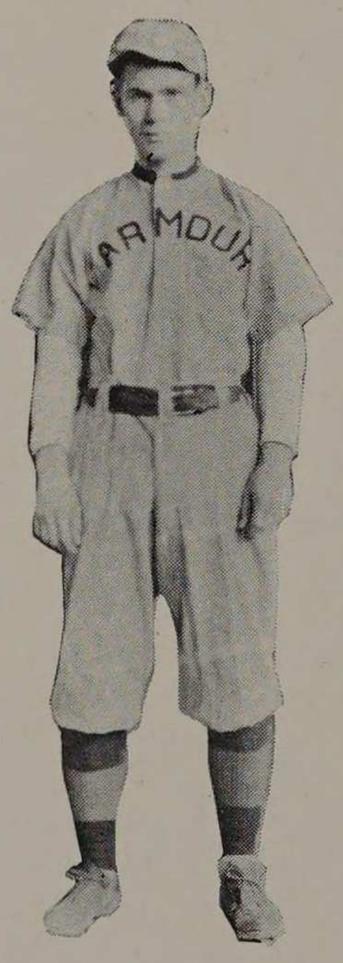
CAPTAIN-ELECT CHAS. SPENCER

At the close of the season last spring the baseball team elected the star third baseman as captain for the coming year. The members of the squad thus showed that they appreciated his good base running and timely hits. Great things can be expected of him with all of last year's squad back of him and the valuable assistance of Schommer's coaching.

DON HAMILTON



Don Hamilton, the mainstay of the college baseball team is one of the many seniors who made the athletics at Armour what it is. He is the star pitcher of the team and has held this capacity undisputed for the last three years, besides being a member of the basket ball team. To him no one can give more credit than he has earned. His loss next year will be felt immensely.



H. F. ISRAEL

Israel is one of the few Academy athletes who is still in the game, and playing better ball every year. The second sack is "Issy's" favorite spot on the diamond, but he certainly loves to whale the ball as well as tag a base-runner out on a steal. He plays a heady, steady game, and certainly merits the honor of the Institute emblems he has won.



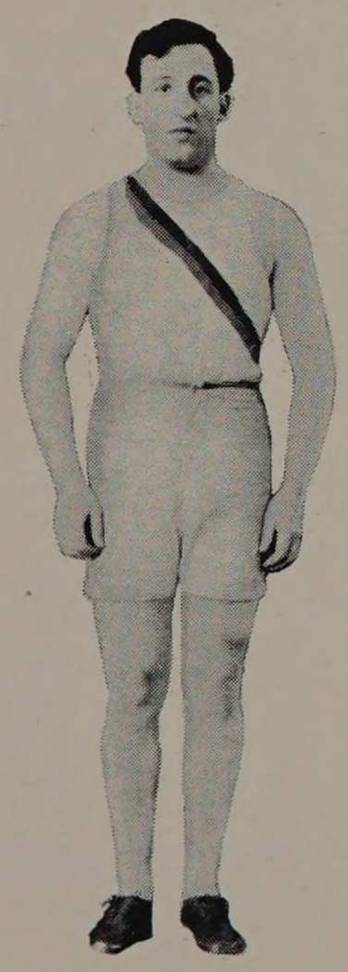
P. A. COPENHAVER

Four years in the game with two seasons on the squad and two "A's" won, is Phil Copenhaver's record. With his graduation the Basket Ball team loses a center who never shirked his position, and that's saying a good deal for that place. In whatever other phases of the game "Cope" may deserve praise, he was one of the best fighters the Tech ever had. He could be relied on to scrap his man as long as he had any strength left, and it mattered not how big the man was. It was through his determination and absolute reliability that "Cope" made good.

N. VANDERKIEFT

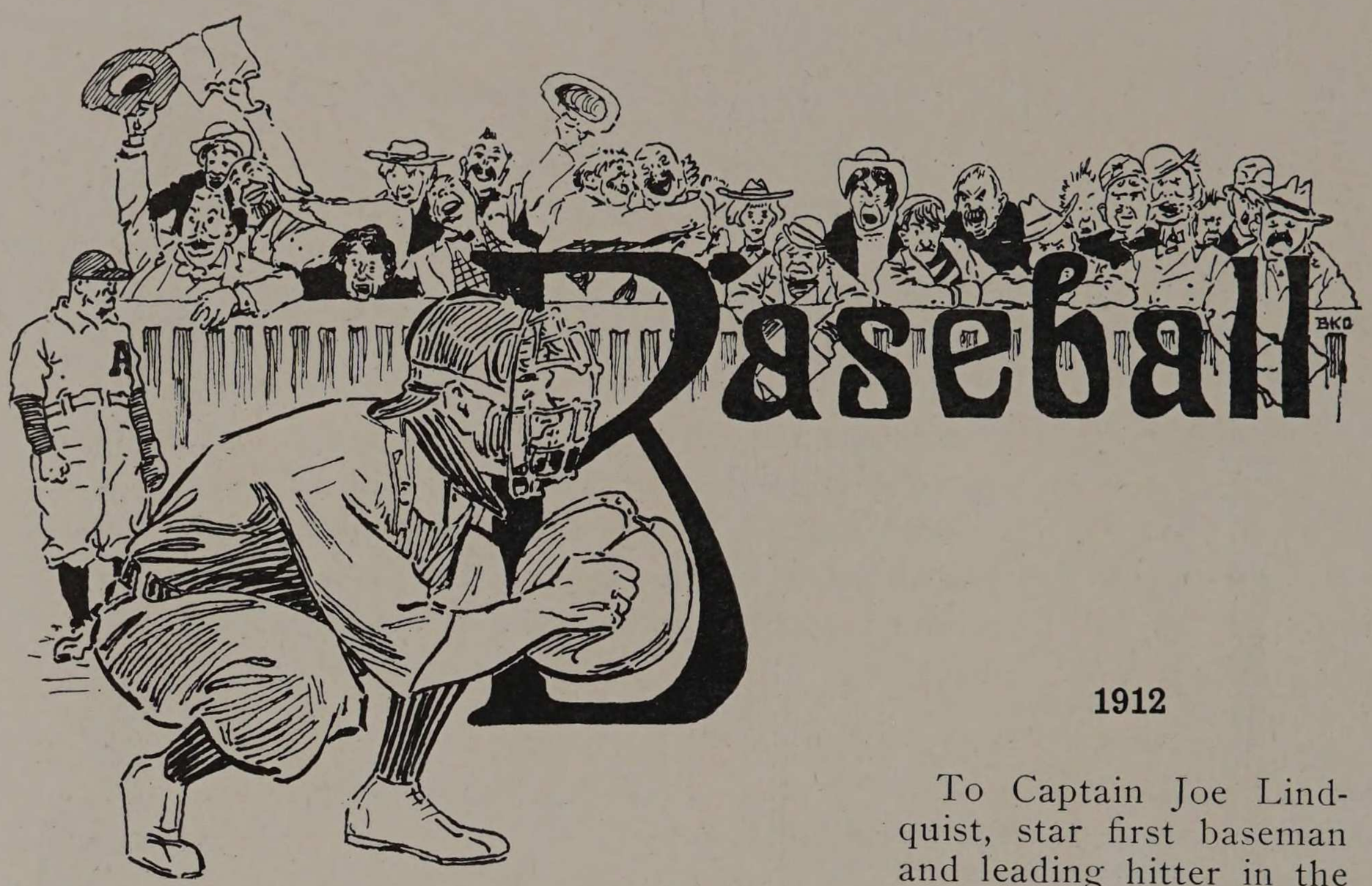
Vanderkieft is one of the many Seniors who succeeded in landing a first on the college track team and thus win his "A." He put the shot further than any other man in the Lake Forest meet and showed that he was worthy of wearing the emblem awarded by the college to the winners. His win in this meet helped us to acquire our large score.





CHAS. KOPALD

Kopald was one of the main weight men on the Tech track squad last spring. His work was very good when we consider the fact that he has had very little experience and that track was only taken up again last spring with no work of its kind the season before. His loss to the team by graduation will be felt and it will be hard to get a man who will be able to do his work as well as he did it.



1912

To Captain Joe Lindquist, star first baseman and leading hitter in the Little Five College Conference, great credit is due. His thorough knowledge of the game combined with his hitting and good pitching of the slab artists were the principal factors in the winning of the games.



Outdoor training for the season was delayed on account of the wet weather but real practice was eventually commenced on Monday, April 8th. Nearly all of the 1911 squad were again among the candidates for positions on the team. The bulk of the pitching was thrown upon the shoulders of Don Hamilton and "Bugs" Carver with H. Maddox assisting whenever called upon.

On Saturday, April 13, with very little practice the team went to Naperville to play North Western College. They met with defeat after putting up a brand of ball which can not be reconciled with the games they played later on in the season.

The next game played was with Hahneman College on Ogden Field. The Tech took this game at a score of 12-10 after quite a slugging match. H. Houle and H. Israel were among the new men on the squad. Errors by the infielders were mainly responsible for the number of runs the Hahneman squad received.

Probably the best fought game of the year was the one between Beloit and Armour at Beloit. Don Hamilton, pitching for Armour, struck out nine men, and Fucik, his opponent, succeeded in fanning the same number.

Here it was that Joe Lindquist's timely hits proved valuable. Twice he started the inning with a two-bagger; the first time he was driven home by a hit off D. Hamilton's bat, and the second time Israel succeeded in bringing him home.

Armour won the next two games, which were played with Monmouth and Knox Colleges respectively. Carver struck out eleven Monmouth players and Don Hamilton struck out sixteen Knox men.

On the three-day trip down-state Armour lost the first game to Illinois Wesleyan because of the absence of a pitcher. Carver had missed the train and came only after the game was half over. The second game of the trip, which was with Monmouth, went twelve innings and was finally won by Monmouth by the score of 1-0. The next game was won by Armour in seven innings by a score of 2-0.

The Tech team next went to Kalamazoo, Michigan, where they played one game with Kalamazoo Normal and one with Western State Normal. The first game was won by the great pitching of "Bugs" Carver. The second game went to the Western State Normal to the tune of 6-0.

On May 21 Lake Forest trimmed Armour for the first time and repeated it on May 28. It was the defeats handed out by Lake Forest that shoved Armour from first place into second place. Over-confidence was one of the main reasons why the team lost the two games to the tail-enders.

This year under the leadership of the new coach, John Schommer, the team expects to fight to the last ditch for the coveted first place. Since all of last year's squad are back and some new men in the freshmen class will be out, the chances for the banner seem fair.





LYDEN KANN MADDOX HALLSTEIN HAMILTON ISRAEL SMART—Coach
SPENCER CARVER LINDQUIST, Capt. CHAMBERLIN COOBAN HOOK
SULLIVAN

Base Ball Team — Spring 1912

MANAGEMENT

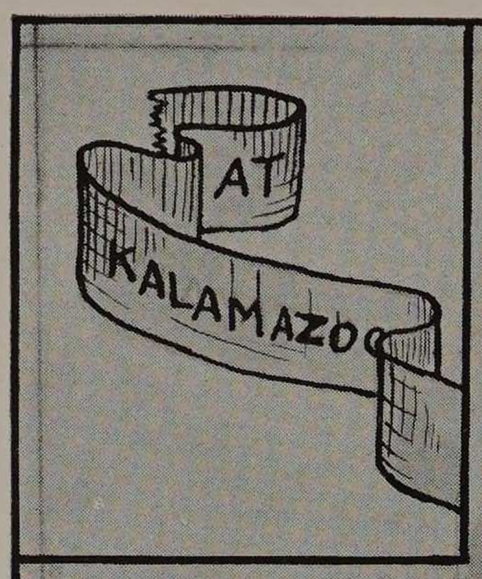
Coach	H. E. Hurlbut
Manager	W. H. Hallstein
Captain	J. B. Lindquist

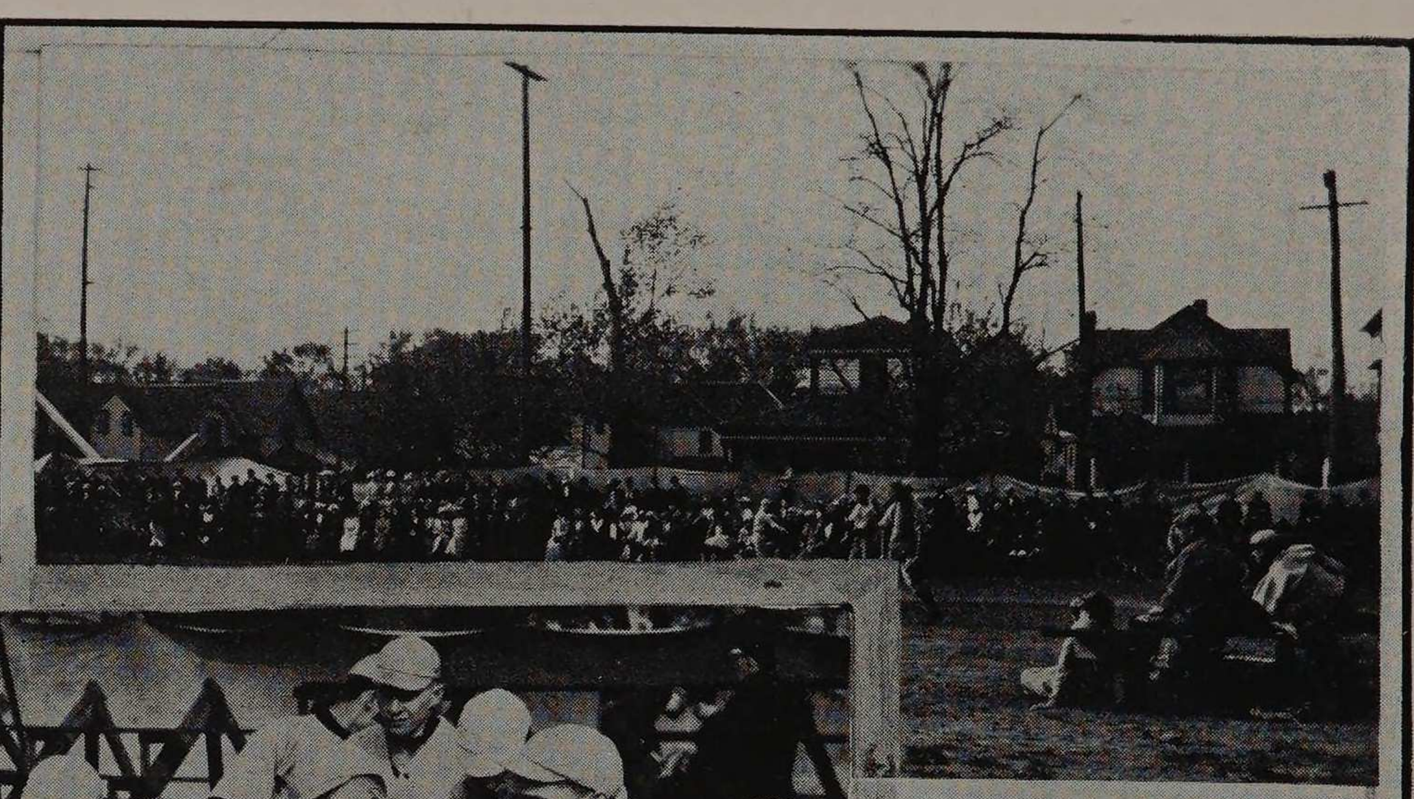
PLAYERS

Name	Position
D. Hamilton	Pitcher
A. Carver	Pitcher
W. Kann	Catcher
F. Cooban	Catcher and Outfielder
J. Lindquist, Captain	First Base
H. Israel	Second Base
T. Sullivan	Short Stop
C. Spencer, Captain Elect	Third Base
L. Hook	Center Field
H. Maddox	Pitcher and Outfielder
J. Chamberlain	Infielder
H. Houle	Infielder
H. Strain	Outfielder

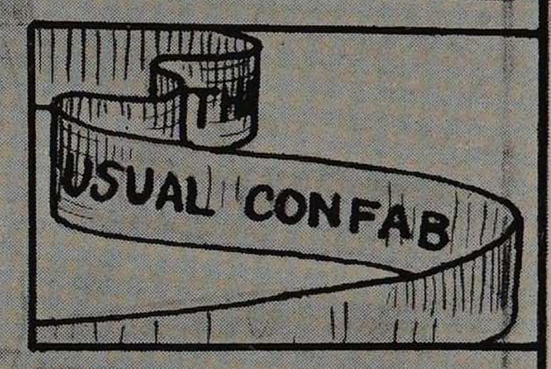
SCHEDULE

Date	College	Score
April 13	Armour vs Northwestern at Naperville	2-10
April 20	Armour vs Hahneman College	12-10
April 27	Armour vs Beloit at Beloit	2-0
May 3	Armour vs Monmouth College	4-1
May 4	Armour vs Knox College	11-1
May 9	Armour vs Ill. Wesleyan at Bloomington	5-8
May 10	Armour vs Monmouth at Monmouth (12 innings)	0-1
May 11	Armour vs Knox at Galesburg (7 innings)	2-0
May 17	Armour vs Kalamazoo Normal at Kala	5-1
May 18	Armour vs Western State Normal at Kala	0-6
May 21	Armour vs Lake Forest at Lake Forest	4-11
May 23	Armour vs Kalamazoo Normal	9-7
May 25	Armour vs Illinois Wesleyan	8-7
May 28	Armour vs Lake Forest	2-6
May 31	Armour vs Beloit	11-2

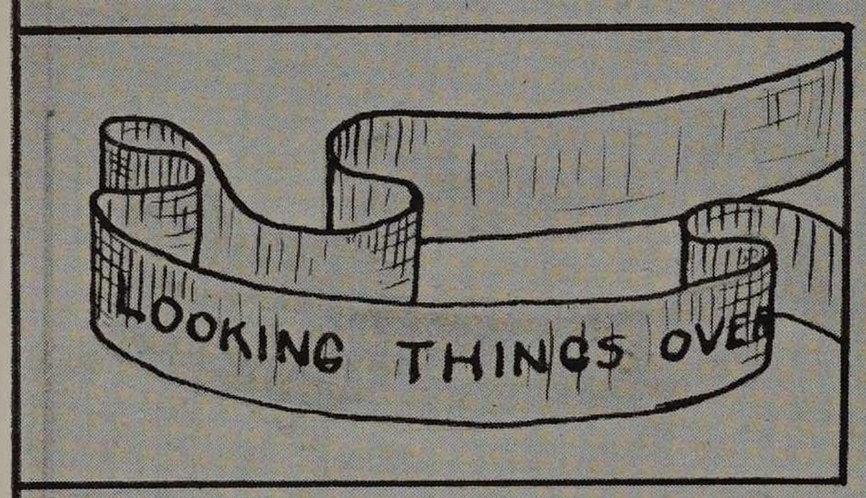

AT
KALAMAZOO






USUAL CONFAB




LOOKING THINGS OVER




WAITING
FOR A
HIT
W.M.B.

SENIOR-FACULTY GAME

The annual Senior-Faculty game took place May 2nd, 1912, on Ogden field. As can be seen from the score the eighth inning was a disastrous one for the Seniors. The "Profs" simply walked around the bases and knocked "Dutch" Oehne's pitching all over the lot. "Mac," pitching for the Faculty, threw a good game allowing only seven hits and striking out seven Seniors. McCormack and John Schommer were the star hitters for each side. Prof. Wilcox livened things up a bit by a rather unique demonstration that it was possible to progress from first to second by rolling.

Faculty	Position	Seniors
H. Hurlbut	Short Stop	R. Claar
C. Leigh	Catcher	R. Neufeld
W. Smart	Center Field	J. Schommer
E. McMullen	Pitcher	W. Oehne
H. McCormack	Left Field	E. Holden
G. Wilcox	Right Field	R. Geisler, H. Dormitzer
E. Libby	Second Base	W. Martin
C. Larson, J. Peebles	First Base	E. Roleson
H. Pulsifer	Third Base	S. Kahn

Faculty	0	0	0	3	2	0	1	8	0	—	14
Seniors	0	0	0	0	1	0	3	1	0	—	5



INTER-CLASS SERIES

By looking at the results of the inter-class series, one can see that the Juniors are in line for congratulations. Not being content with carrying off the baseball championship for the third consecutive year, they kept right at their good work and succeeded in "salting down" the track and basketball series.

The title of "Champs" in baseball was acquired through the defeat of the Freshmen in a rather interesting game which resulted in a 9-4 score.

In track the Juniors were forced to the limit to win. The work of the Freshmen was very commendable, and the fact that they carried off more first places than the victors proves that we have some strong point winners to work with this spring. The work of Landis, Katzinger and Sullivan deserves especial mention.

The basketball series brought the same two classes together again as contenders for the top "rung of the ladder." The Juniors met defeat in their first game with the Freshmen, but that only "started" them and from this game on they were unbeatable. However, in giving "credit where credit is due" we must say that all the games were hard fought and resulted in close scores.

RESULTS OF CLASS BASEBALL SERIES

Class	Won	Lost	Percentage
Junior	2	0	1000
Freshmen	1	1	500
Senior	0	1	000
Sophomore	0	1	000

RESULTS OF CLASS TRACK SERIES

Class	Score	1sts	2nds	3rds
Junior	35	4	3	6
Freshmen	32	5	1	4
Senior	30	2	6	2
Sophomore	29	3	4	2

RESULTS OF CLASS BASKETBALL SERIES

Class	Won	Lost	Percentage
Junior	4	1	800
Freshmen	3	2	600
Senior	1	3	250
Sophomore	1	3	250



TRACK

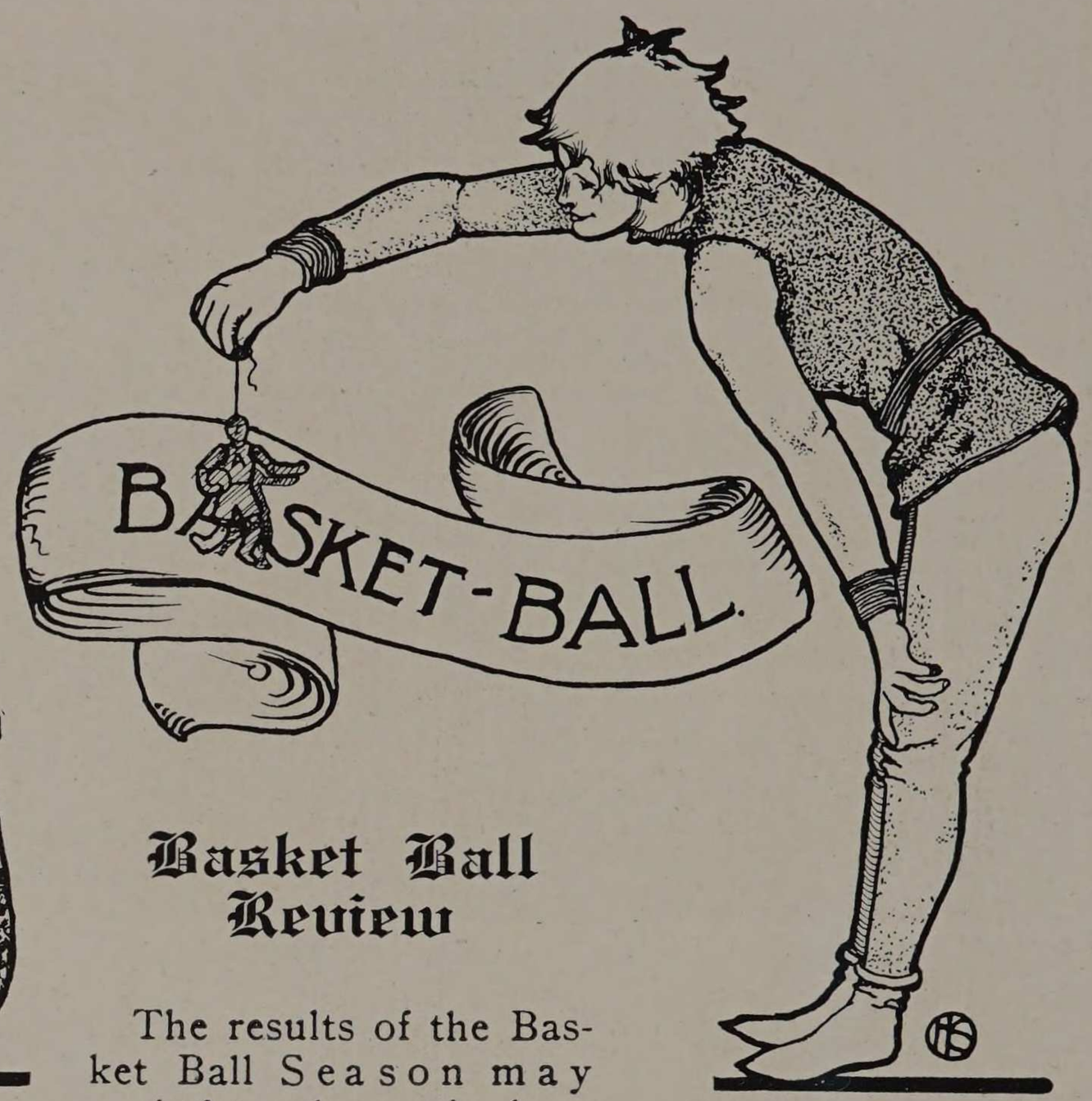
INTERCLASS CHAMPS 1912-1913

W.M.B

BASEBALL

BASKET BALL









Basket Ball Review

The results of the Basket Ball Season may neither be praised as wholly successful, nor lamented as being in any sense a failure. It is true, however, that in the latter part of the season, the team pulled together wonderfully and scored their most decisive victories. The season was finished on February 27 on the home floor when the "wearers of the crimson," from Monmouth, went down before the Tech by a big score. The team won the middle position in the Little Five Conference for the season, Lake Forest placing first on a higher percentage than Beloit, who lined up in second place. Monmouth and Knox followed the Tech in the order named.

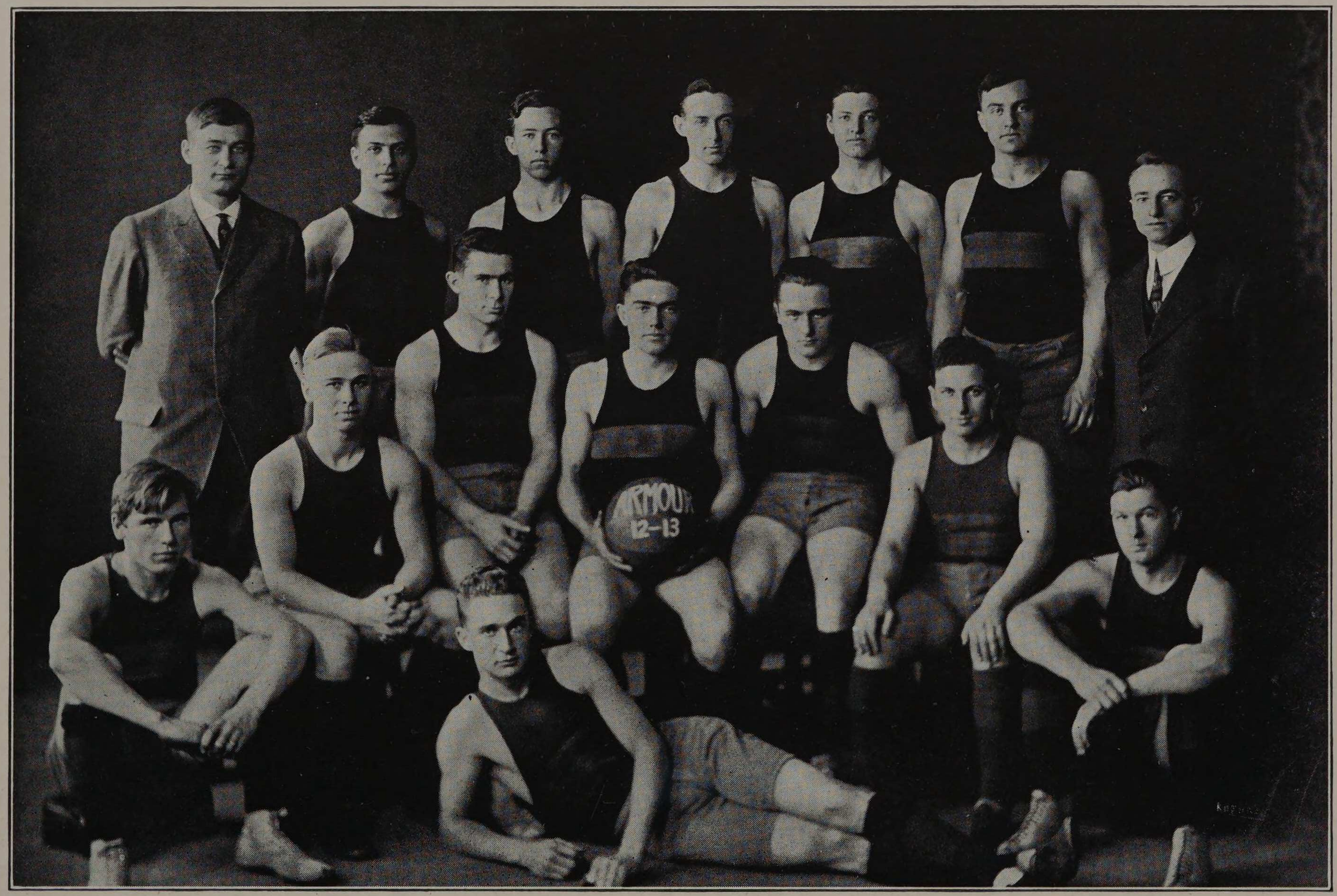
Prospects were indeed bright at the season's beginning, with Schommer newly appointed as coach; and with Heritage, Copenhaver, Carver, Emslie, Hamilton and Hallstein,—all Basket Ball "A" men,—back in college. Hamilton, however, was forced to choose between Base Ball and Basket Ball because of a heavy Senior year, and he chose the former. Emslie was found to be conditioned from the Second Semester of his Sophomore year, while Hallstein in an early inter-class game, wrenched his knee so badly that he was out for the rest of the season.

On the other hand, the same inter-class series produced a number of Freshmen stars, three of whom afterwards made good:—McDonnell, a Lane

Tech man, Sullivan, from St. Ignatius, and Katzinger, of Shattuck School. Of these "Sully" played the entire season at forward and proved one of the best scrappers in the game, with an unlimited supply of "pep" and aggressiveness at all times. Capt. Heritage and McDonnell were holding down the defensive side of the floor until the latter sustained a fracture of his right ankle while playing the return game at Northwestern College. "Mac" would probably have played the guard position all year, and so was awarded his emblem with the other five regulars. Katzinger now filled the vacancy, and worked in the offense combinations especially well. His baskets were practically all the long range, heart-breaking variety, and he should prove an exceptional man next season. Carver was the smallest man on the team, but with his wonderful speed, "Bugs" fully made up for any deficiency there. The dope-sheet of the score book shows Carver as the highest point maker throughout the eight Conference games, and also lowest man on "personal" fouls. Copenhaver, center, has played his last game as an "A" man, and is spoken of elsewhere in the CYCLE. Heritage captained the team from right guard and was one of the best in the Conference. His offensive work was responible for a great percentage of Armour's scores and with this man playing next year, the chances for a championship are greatly increased.

The team seemed to have a peculiar faculty of playing great ball for one half, and then of letting down in the second. Coach Schommer finally succeeded in remedying the matter during the latter half of the season. The first Conference game had to be played at Armour Square, and the advantage of their own gym,—generally conceded to be at least worth ten points,—was denied the men. The first half was fought 11-10 in Beloit's favor, and the second half proved the above defect for the first time, the contest going to Beloit by a margin of twelve points. Lake Forest, here, the first real home game, went to the visitors by a fourteen point margin, the Tech again weakening in the second half. The score at Beloit must be in all justice accredited to the sixth man on the Beloit team,—the referee. He was the worst proposition the team found anywhere in the Conference, and the incident only goes to show what need there is of the systematizing and censoring of Little Five Officials, as in the Big Nine.

Knox was next defeated on the home floor by four points after three men had gone out on personals. Carver starred with nine baskets, while Capt. Heritage secured five before being ruled out. In the Lake Forest game, there, Coach Kennedy's men were badly scared when the first half ended 15-14 in their favor. A defeat would have meant the losing of the championship which they had won by this time. But Carver's absence proved too great a handicap and the contest went to Lake Forest. The "southern trip" netted a decisive victory over Monmouth by 29 points, and the most heart-breaking loss of the whole season—at Knox. The Tech team had just come from Monmouth, and were not up on their toes as they were the night previous. The first half was the Tech's, ending 10-8. About five minutes after play was resumed, Heritage and his forward went out on personals, with the Tech five points to the good. Hockenberger went in as guard and played well. Knox now pulled up steadily, and amid the greatest tumult, won by three points in the last minute of play. The last game with Monmouth was won easily by a 44-19 score.



Coach Schommer, Bready, Katzinger, Hockenberger, Wilcox, McDonnell, Walsh, Heritage, Capt., Tom Sullivan, Copenhaver, J. E. Sullivan, McKeage, Greenspahn, Asst. Coach Leyden, Carver

BASKET BALL TEAM—SEASON 1912-1913

Coach . . . . . John J. Schommer
Captain . . . . . Clark C. Heritage

MEMBERS

Heritage, Captain.....Guard
Copenhaver .....Center
Walsh .....Center
Carver .....Forward
Sullivan, J.....Forward
Sullivan, T.....Substitute, Forward
Katzinger .....Guard
MacDonnell .....Guard
Bready .....Substitute, Forward
Hockenburger .....Substitute, Forward
Wilcox .....Substitute, Forward
Greenspahn .....Substitute, Guard

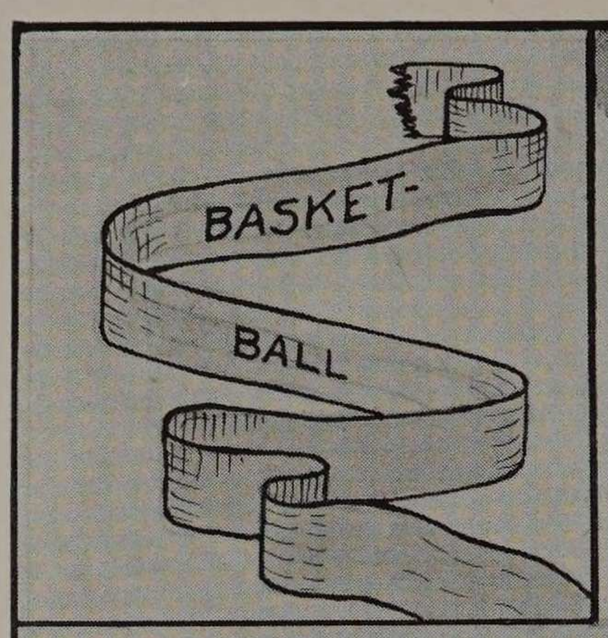
SCHEDULE

Date		College	Score
January	10	Armour vs Northwestern at Naperville	7-22
January	17	Armour vs Beloit	18-30
January	20	Armour vs Lake Forest	11-25
February	8	Armour vs Beloit at Beloit	6-45
February	14	Armour vs Knox	33-29
February	18	Armour vs Lake Forest at Lake Forest	18-45
February	21	Armour vs Monmouth at Monmouth	42-13
February	22	Armour vs Knox at Galesburg	20-23
February	27	Armour vs Monmouth	44-19

The score book for the eight games shows 194 points scored by the team, against 229 by opponents. Of these 194, there were 81 baskets and 32 free-throws thrown; of the 229, 99 baskets and 31 free-throws. Total points were scored individually as follows, including personals:

Players	Total Points.	Baskets.	Free Throws.	Personals.
Carver	55	21	13	4
Heritage	46	23	.....	14
Katzinger	43	12	19	13
Sullivan	30	15	.....	6
Copenhaver	10	5	.....	20
Substitutes	10	5	.....	11
	194	81	32	68

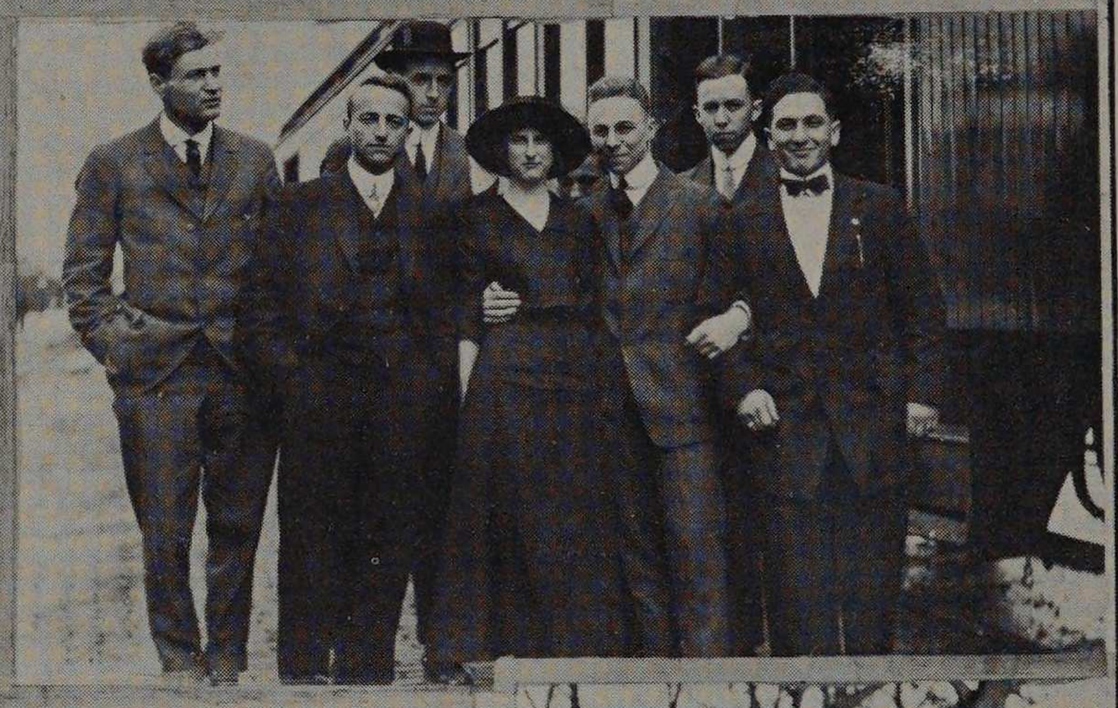
The fact that the free-throwing throughout the whole Conference was woefully weak stands out plainly from the above, remembering that but 31 free-throws were registered by opponents. The total Tech chances were 66. The following five men received jerseys as a "reserve emblem" for substitute work:—Bready, Greenspahn, Hockenberger, Walsh and Wilcox.





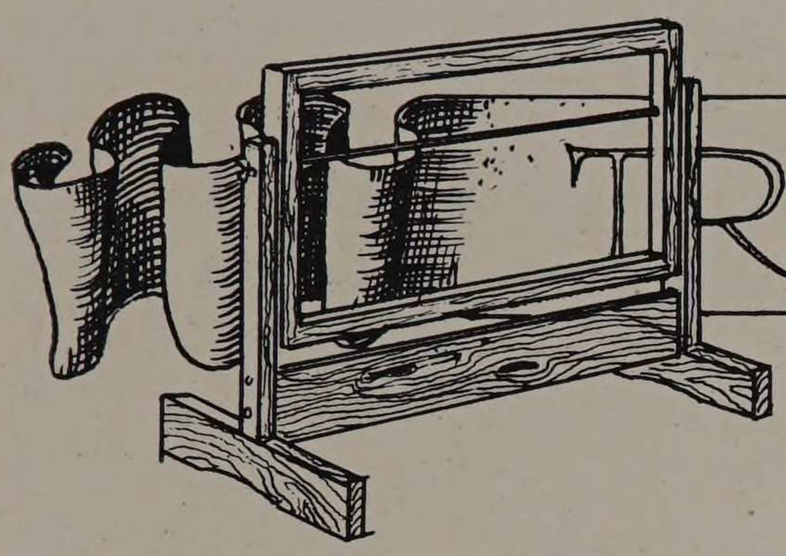




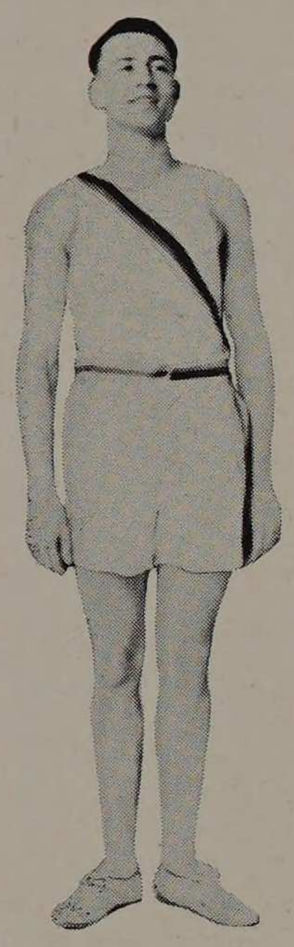




TRIPS 1912
1913
W.M.B.



TRACK.



CAPT. HOLDEN

Holden, Captain of the Tech track team, 1912, is the veteran of track at A. I. T., and one of the ablest and most experienced men on the squad. To him can be accredited much of the team's success.

TRACK REVIEW

The Board of Athletic Control decided last spring that track should be re-instated at Armour. Accordingly the field was put into condition, G. L. Opper was appointed track manager and Holden was elected Captain; then meets were arranged for. John J. Schommer took hold of athletics at A. I. T. for the first time, and succeeded in bringing out every available bit of track material.

During the preliminary workouts the track was well populated. By the weeding out process a tentative team was obtained. The first real trial of strength was in a dual meet at Lake Forest, resulting in a close defeat for A. I. T.'s somewhat green men. At the return meet, staged May 17 at Ogden Field, Lake Forest pulled another narrow first, the final score being 74-62, but the Tech demonstrated that it possessed a real track team. King and Kopald started. The relay race, going to Armour, was a thriller, with King running a wonderful race. A. I. T. scored a slam in the high jump. The ten men picked to work for Armour in the Little Five meet at Beloit, on May 25, were Barr, Wood, Holden, King, Vanderkieft, Kopald, Dodge, Clark, Walsh and Farrar. Knox took the meet, with Armour landing fourth. A. I. T.'s points came by a tie between Wood, Barr and a Knox man for second and third in the high jump, and Vanderkieft's third in the shot put. Some hard luck was experienced by the Tech team. Kopald missed qualifying in the discus by two inches, while King, easily the second best man for the sprints at the meet, was set against Martin, the best man there, in both the 100 and the 220.

The relay banner came to Armour largely through King's work, Holden, Dodge, Clark and King outclassed the other teams of the Little Five, and caused much rejoicing at the Tech by their victory.

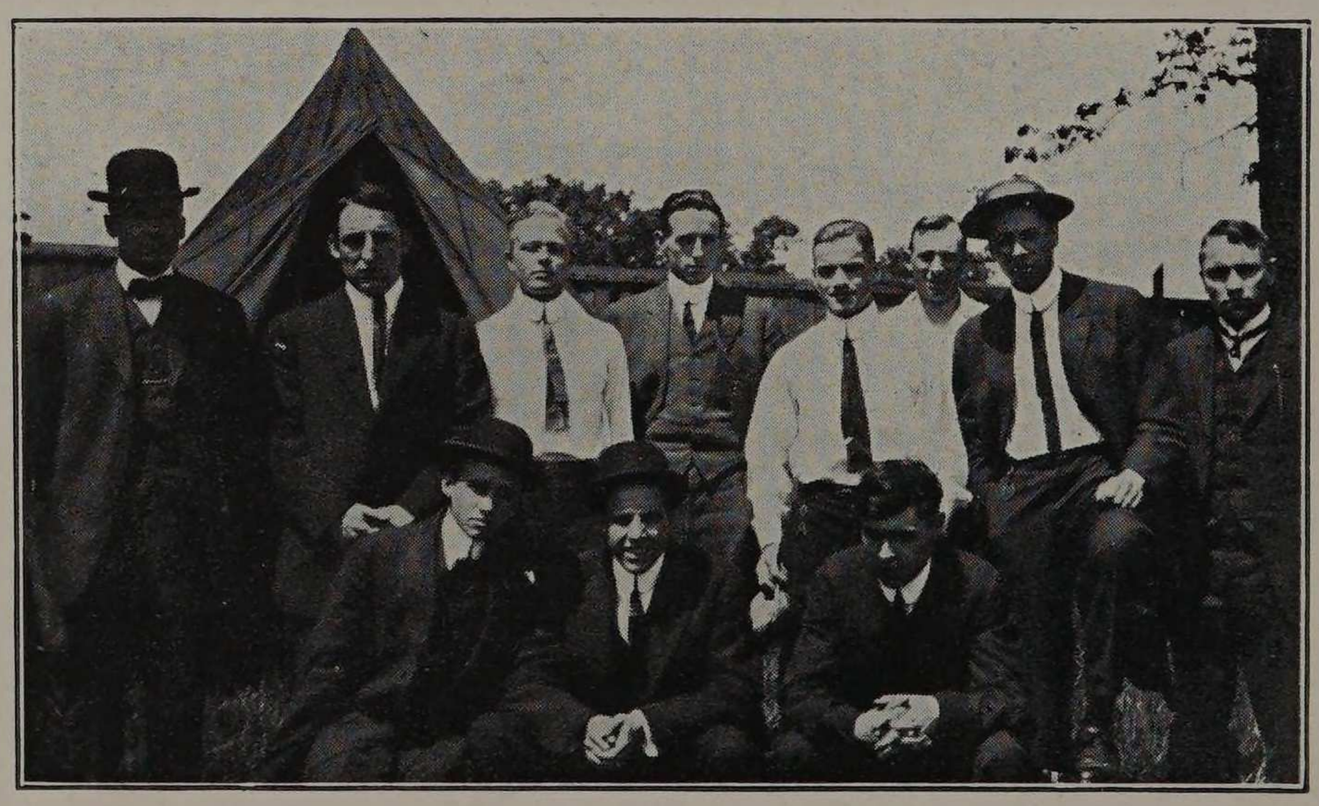
The 1912 experience was expected to prove of great aid this season, but this looked for effect has been somewhat lessened by the fact that some of last year's best point getters are not back. Schommer, however, has the jump on things this year, so the results of the seasons track are awaited with great interest.

TRACK MEET

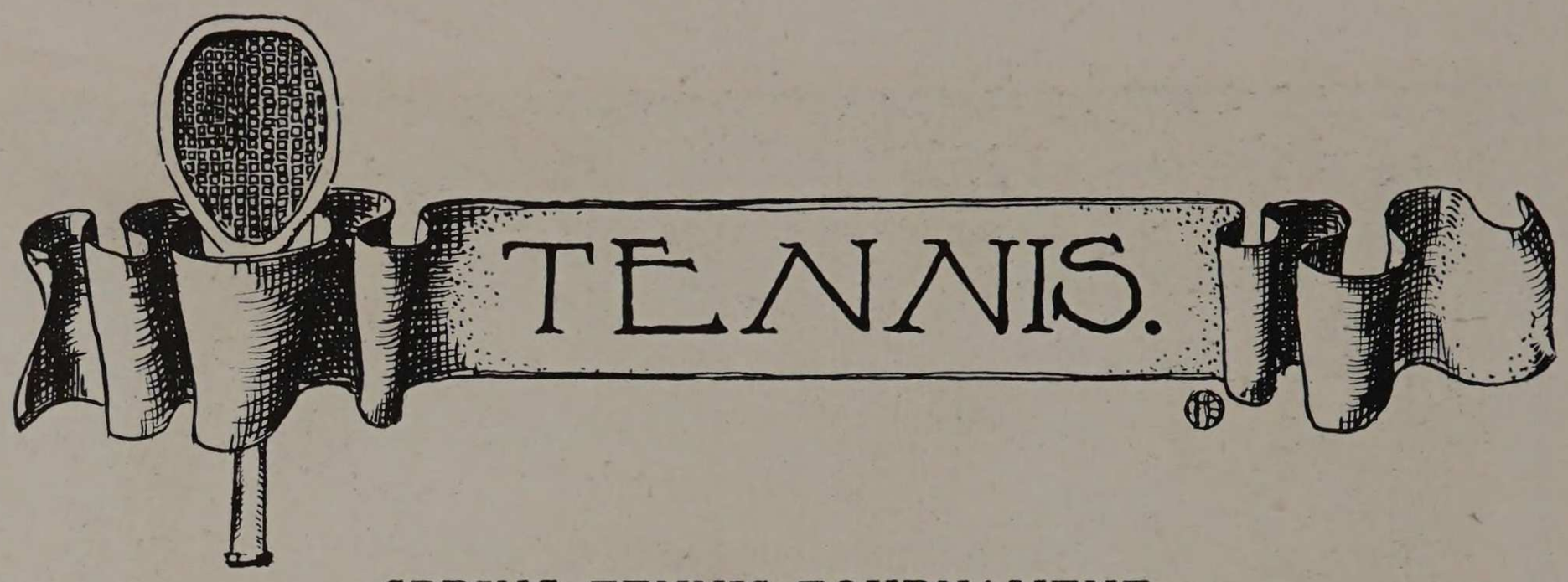
ARMOUR vs LAKE FOREST

Event	First	Second	Third	Record
100 yd. High Hurdles	Walsh, Ar.	Pate, L. F.	Dunsmore, L. F.	0:14 3-5
100 yd. dash	Crum, L. F.	King, Ar.	Helfrich, L. F.	0:10 1-5
Mile Run	Davis, L. F.	Dunsmore, L. F.	Farrar, Ar.	4:58 1-5
Quarter Mile Run	Hastings, L. F.	Osbourne, L. F.	Somers, Ar.	0:56 4-5
220 yd. Dash	King, Ar.	Crum, L. F.	Zook, Ar.	0:23 4-5
Half Mile Run	Davis, L. F.	Osbourne, L. F.	Nebel, Ar.	2:17 3-5
Pole Vault	Davis, L. F.	Pate, L. F.	Johnson, Ar.	9 ft. 6 in.
Discus Throw	Kopald, Ar.	Pate, L. F.	Pynchon, Ar.	97 ft. 5 in.
High Jump	Wood, Ar.	Barr, Ar.	Neufeld, Ar.	5 ft. 4 in.
Shot Put	Briston, L. F.	Hallstein, Ar.	Kahn, Ar.	34 ft. 5 in.
Hammer Throw	McKee, L. F.	Kopald, Ar.	Griffith, Ar.	93 ft. 10 in.
Running Broad Jump	Helfridge, L. F.	Neufeld, Ar.	Johnson, Ar.	19 ft. 6 in.
Relay Race	Armour			

Armour Relay Team.....Holden, Dodge, Somers and King.




TRACK MEET
LAKE FOREST vs ARMOUR
AT ARMOUR
1912
W.M.B.



SPRING TENNIS TOURNAMENT

The tennis tournament held last spring was ably managed by E. P. Roleson. The matches were played off on time and the result was that in the semi-finals an instructor was to play a student. McMullen was defeated by Carver in the finals by a score of 6-3, 5-7, 7-5, 6-4. Thirty-two men started out in the tournament and after the first round only one-half the number was left in, as the series was run on the elimination process.

Finals

McMullen

McMullen
6-4, 6-3

Borroughs

Carver—Champion
6-3, 5-7, 7-5, 6-4

Carver

Carver
6-2, 6-0

Swineford

GOLF TOURNAMENT

The golf tournament was run off at Jackson Park without much hitch in the proceedings. The finals were played between Prof. Leigh and Glen Clark. Glen Clark won after an interesting match.

Finals

Prof. Leigh
Glen Clark

Glen Clark—Champion

WRESTLING

A wrestling class was started in 1912 at Armour under the instruction of Mr. Springer in the Gymnasium department. This class is very important and ought to be one of the several branches of sport and physical development followed at the college. No exercise brings into play all the muscles of the body in a more thorough manner, and none is more interesting than wrestling.

An opportunity has been given to Armour Institute students to take this valuable and fascinating exercise, and the way it has gained favor among them has been highly encouraging.

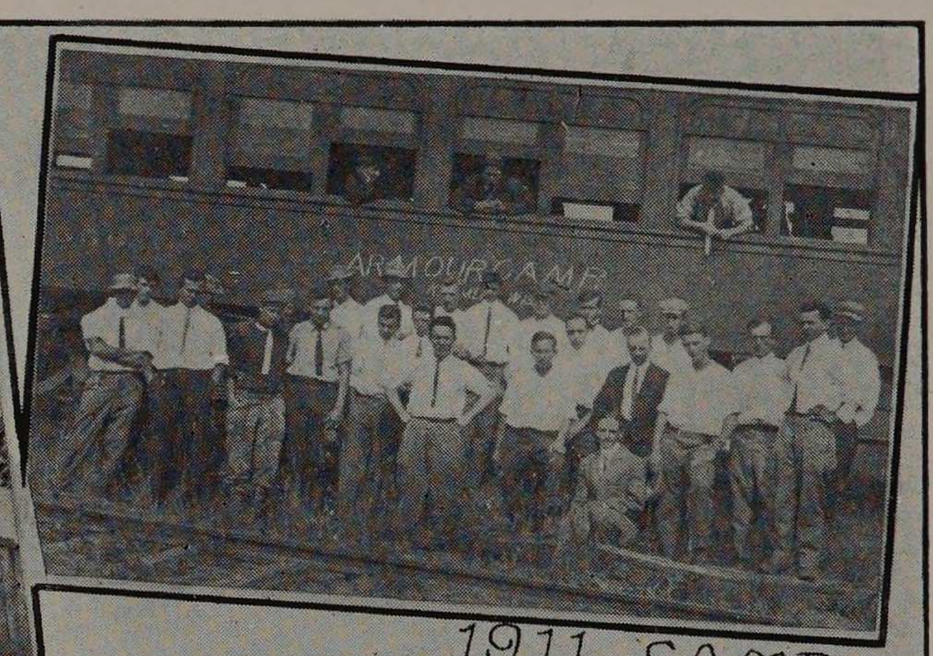
CLASS of 1914.



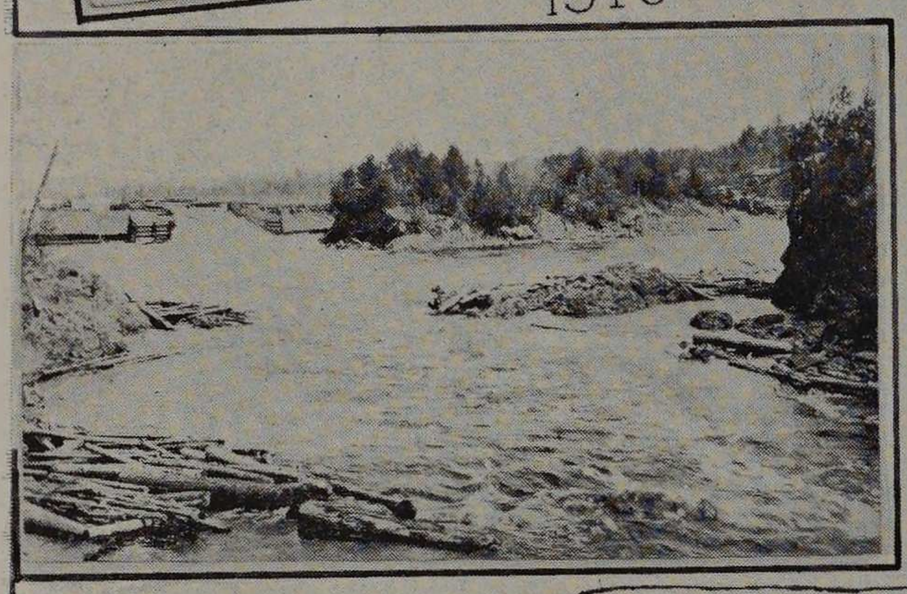
NEWMAN
McKEAGE
SIEDENSTRANG
THAL
HOCKENBURGER
TRINKAUS
PIMSTEIN
SPRINGER
SCHAFFER
O'GRADY
CHIPMAN

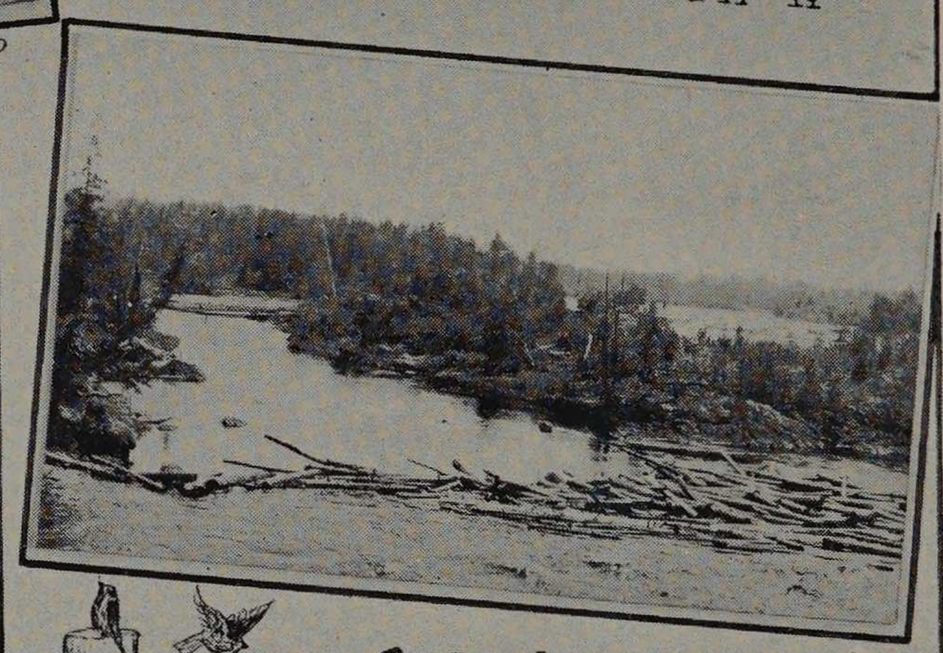


1910 CAMP

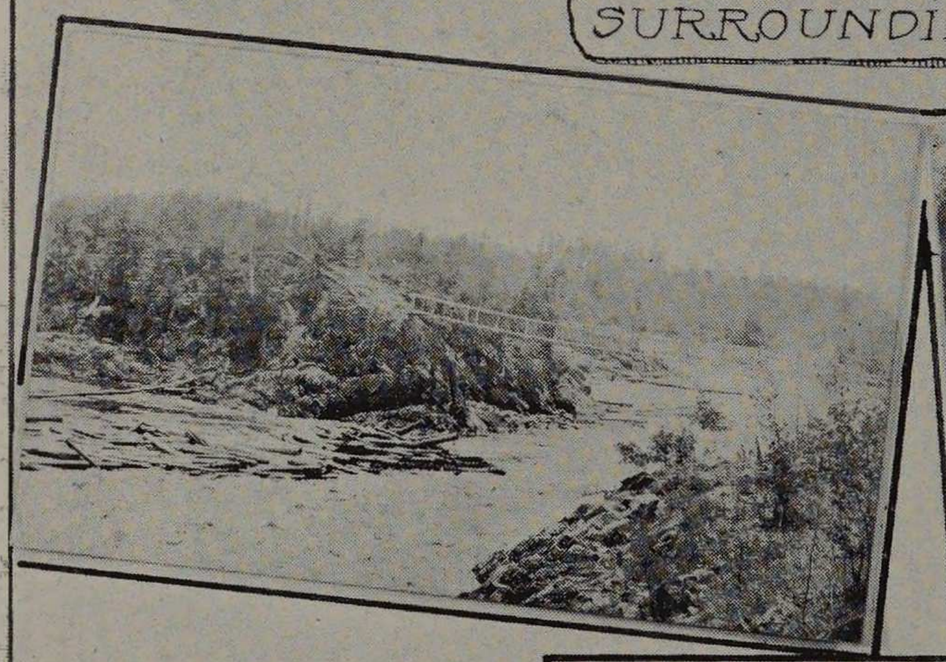


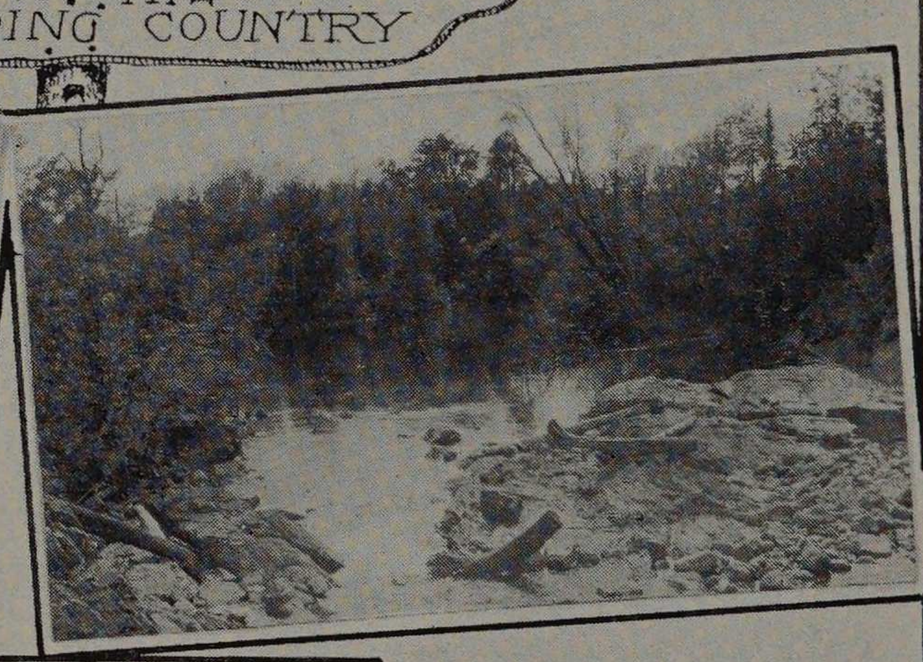
1911 CAMP





FOUR VIEWS OF THE SURROUNDING COUNTRY







A SUMMER CAMP SOLUTION OF THE HIGH COST OF GASOLINE



Jousts.

Bon Jour — Guten Tag — or in the language of our fathers —

HOW DO YOU DO!

Sez 'Less to me, "Now Spike," sez he,
"To make our work look classy,
We'll greet the reader with a verse
And fill it full of taffy.
We'll say we know as readers go
They could have done it better,
But that we hope they'll take this dope
And read it to the letter.
Then this pent up sentiment—
This Alma Mater gag—
When that we spring to the breeze we'll fling
"The Grand Old Rag."
When thus he spooched away he mooched
His eyes were wet with tears,
"You're nervous, 'Less,' and sick, I guess,
I'll order up two—glasses of—ice-water—"
For want of price, we drank the ice,
Which cooled his deep emotion.
Then I began, not caring a whoop,
To hand across my notion:
"Now, look a-here, you reader, dear,
You've come to our little party;
If you prefer to spit than purr
'Tis well and good, my hearty!
But if you hope to get our goat
By saying this isn't funny,
Should we worry in a hurry
Now we have your money?



Here's Looking at You.

CLASS of 1914.



Gros **S** man
Yamam **O** to
P arrott
Mark **H** am

C ongdon
Got **H** waite
Badg **E** r
Die **M** eike
W **I** lson
Sie **C** k
H **A** hn
Lau **L** etta
S train

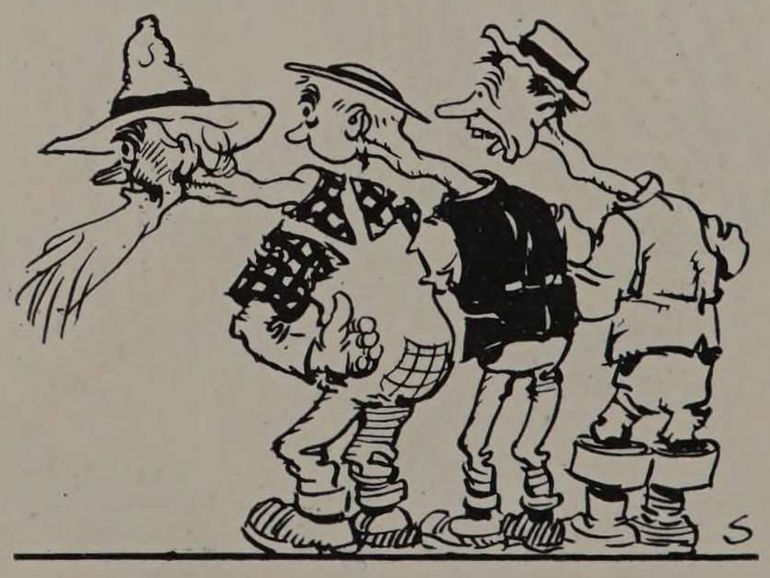


Menke: "Is poker the game that is played with cards?"
Hook: "Poker is more commonly an instrument used to aid the burning of coal, rather than money."

If you've got a thing to say,
Say it, don't take half a day,
If your tale has little in it,
Crowd it all into a minute.
Life is short, a fleeting vapor,
Don't fill the blamed paper,
With a tale which in a pinch,
Could be crowded in an inch.
If you've got a thing to say,
Say it, don't take half a day.



F. U. Smith on Registration Day.



The Folks at Home.

A CONVERSATION.

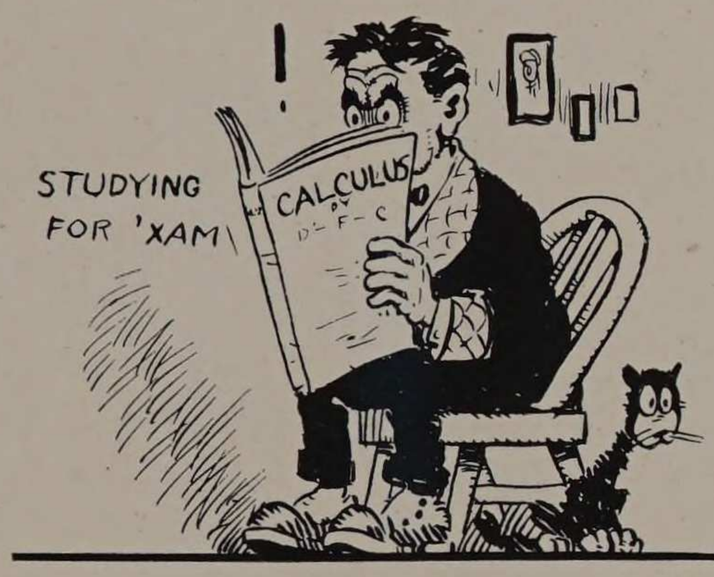
Overhead Wire: "I think you'd feel all broke up to leave these old streets where you've been so long."

Cobblestone: "I will be and when I'm all broken up, I'll make dandy macadamizing material."

Overhead Wire: "My, won't you be fine then."

Cobblestone: "Fine? I should say so, almost pulverized. And such things as you will be beneath me."

Catching the hint of future underground conduits, the wire suddenly remembered it had a load of currents to be delivered and was silent.





The hen stood on the river's brink
And gave her college yell,
Until a frog in pained surprise
Politely asked her why.
She said, "Kind sir, you see that duck
Out there upon the water,
Well, that's a winning college crew,
And I'm her Alma Mater."



"'Oh dear, Oh dear," the Junior squealed,
"I wish that it were Spring
So I could sit in Ogden Field
And hear the birdies sing."

THE AVERAGE "TECH" MAN

(With apologies to Longfellow and our readers.)

Down by the noisy railroad track,
Armour Institute stands.
The "Tech," a striving lad is he,
Who works with both his hands;
And as for the grey "dope" in his head,
He has all the brands.

His uncut hair is gnarled, and long
His face is like a bush;
And o'er his brow the furrows plow,
He earns so little "cush"
That he has to wink at probity,
For he owes the whole d—— push.

In the afternoon, from two to five,
You can hear his hammer ring
As he vainly strikes the cooling iron,
And then he starts to sing,
Like the teamster to his horses—
That music! a la Bing!

He goes on Sunday to the church,
And sits down near the door.
He hears the parson begin to preach,
And soon he starts to snore;
The poor lad wakes and tries his best,
But again he "saws" once more.

It sounds like H— —to those around
With thoughts on Paradise,
A kindly brother pokes his ribs,
And sleepily he sighs,
With reluctant hand he drives, old
Morpheus from his eyes.

Owing—knowing—snoozing,
Onward through school he goes;
Each morning sees his debt increase,
Each evening, more it grows.
But here's the point: his lesson's learned,
He's earned his night's repose.

"Thanks, thanks, to thee, my worthy friend,
For the lesson thou hast taught!"

The way through college for some of us,
With hardships sure is fraught;
But those who get through on a snap,
By the world, must yet be taught.

"Spike" Hanson, '15.

Unknown Celebrities

ANDREZEJEWSKI
VADERO
LAMPE
OSWALD
BUCK
RAINWATER

ZIBOBAUGH
BENAVIDES
BEERS
BUTTERMAN
DREIBELBIS
ARMACOST
KUCERA
ARTEAGO
CABLE



Rooters, Ahoy!

In History of Heat Engines

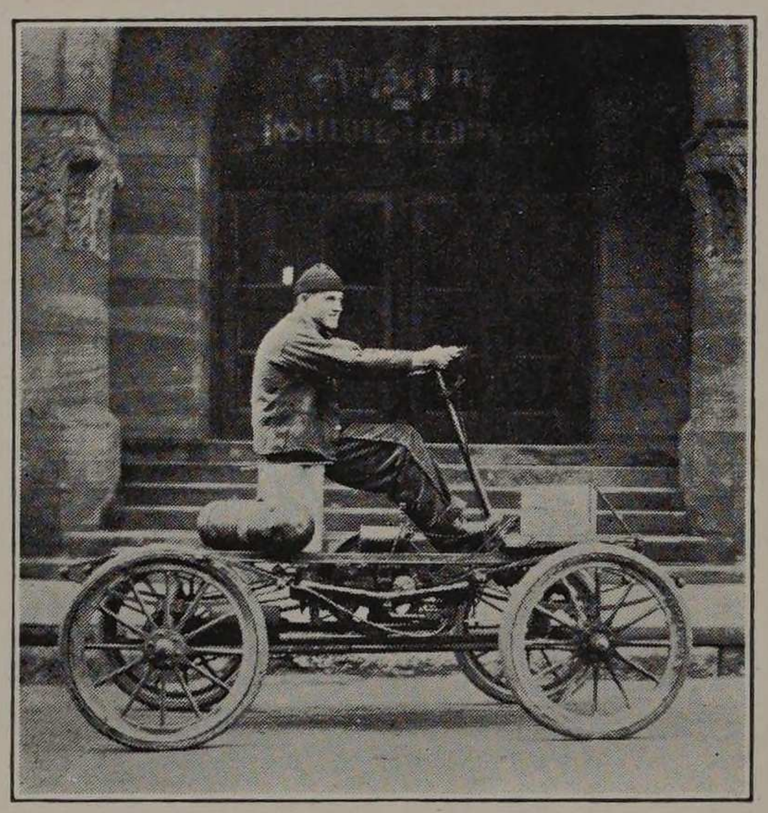
A picture of a South Carolina Locomotive having two smoke stacks.

Mr. Nachman:—"One cannot tell whether the engine is coming or going.

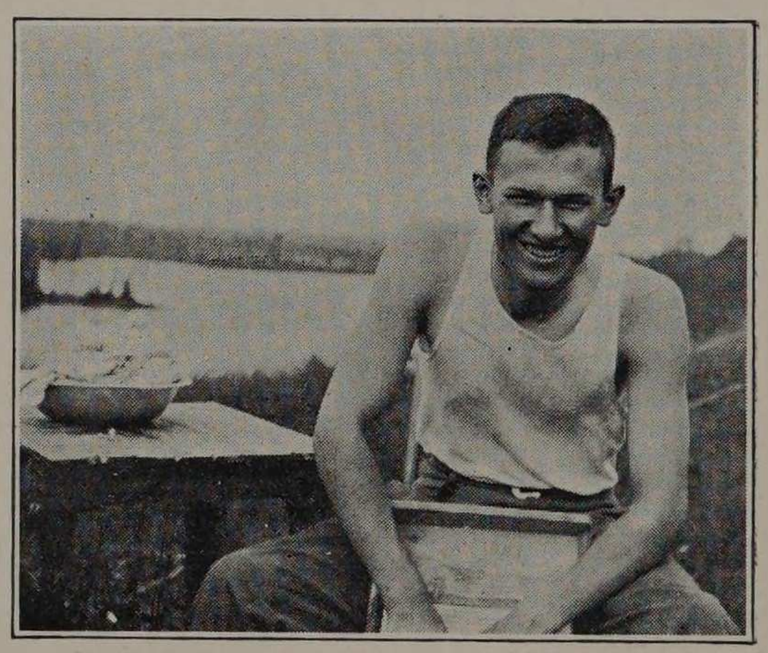
A voice from the back of the room:—"It's going."

Dr. Campbell's opinion of a Sophomore is expressed mathematically by infinity. He says nobody but a Sophomore can loaf consistently for six months at a stretch.

There once was a monk in Siberia,
Whose life grew wearier and wearier,
At last he said, "Hell,"
Ran away from his cell
And eloped with the Mother Superior.



Sir's machine ('Hand Made'). He said, "It's painted black and won't run. What's the matter with it?"



"'Tis Washing Day"
For the Camp Kids

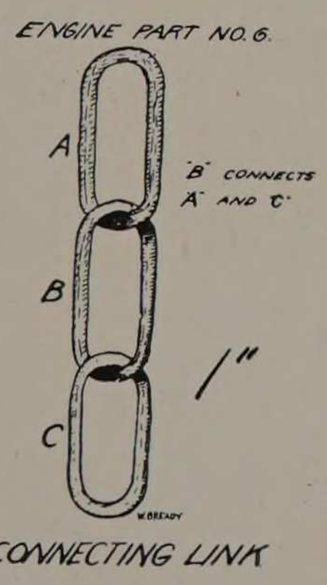
ANCIENT BASEBALL

Eve stole first, Adam stole second,
Cain made a base hit, Abraham made a sacrifice,
Noah put the dove out on a fly,
The prodigal son made a home run,
David struck out Goliath,
There were many foul flies in Pharoah's time,
Rebecca went to the well with a pitcher,
Julius was a base man,
Jehu's team is highly praised,
News of the Egyptian's short stop near the Red Sea.
Ruth and Naomi did good work in the field,
A slave fanned Pharoah.

Frailty, thy name is woman.



"Generally speaking, women are—"
"They sure are."
"Are what?"
"Generally speaking."



A CONNECTING LINK

Your belt is unhookidt
Your hat is on crookit
You may not be drunk
But bejabbers you lookit.

Money talks, but about all it says is "goodbye."

Adverisements

CLASSIFIED ADS.

WANTED: College Spirit.
A. I. T.

WANTED: More Assemblies.
By All.

WANTED: Coeds.
Fussers.

WANTED: Elevator Rights.
Freshies and Sophs.

WANTED: Interest in Athletics.
The Teams.

WANTED: A HUMOROUS humor dept. Editor for The Fulcrum.
Suffering Students.

WANTED: Tau Beta Pi.
Seniors & Juniors.

WANTED: Speed.
Track Team.

WANTED: Clemency.
Humor Department.

WANTED: Students in Math.
Math Department.

WANTED: Scraps and fights.
Editor of Fulcrum.

WANTED: A stand-in with the Faculty.
Some People.

WANTED: Course in singing and playing at the Y. M. C. A.
Oldenburger, etc.

WANTED: No more copy.
Cycle.

WANTED: Class Dues.
Class Treasurers.

WANTED: A Vacation.
By All Publications.

A Harvard student who, for obvious reasons, does not care to have his name appear, passed up this one: "A cousin in the western part of the state came to Boston for a visit and dropped off at Cambridge to call on me. He asked if he could share my room with me that night and I told him he could if he came in early enough. He started for a theater and when midnight came without any trace of him, I called in my regular room-mate who had night quarters elsewhere to make room for my cousin. I decided that my relative was going to make a night of it in town. We had hardly got to sleep, however, when he came in, packing a highly flavored breath. We said nothing and he soon climbed into the bed with us. Everything was quiet for a few moments, when suddenly he sat up, put his mouth close up to my ear and whispered, "Jim, there are six feet in this bed!" "Forget it," I said, "You're crazy." With that he climbed out, groped his way to the foot of the bed and began to paw our feet. "You're right," he said after a minute, "I've counted 'em, and there is only four."



Game not played at Armour

Prof. Pell (to Wright, who had been absent the previous day) :—"Wright, come and write your name on the absence blank.

(Evidently a pun.)

A voice from the rear:—"All right." (Going him one better.)



Oh, What a Night.

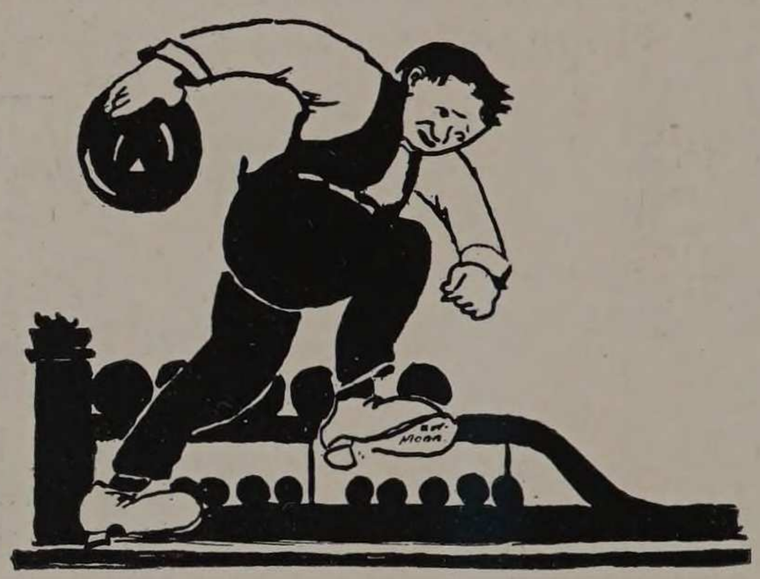




"May I kiss you?" he asked.
"Sure, Mother don't care."
"I know, I kissed her last night."

The devil fumed and fretted
Not a spark could he discern.
The Armour Fresh was on the grate
But far too green to burn.





Cycle going to press **Bowling, Bowling, Over the Silv'ry Sea**

Evolution of a Freshie

Freshie:—"What was the question, please sir?"
Soph:—"What was the question?
Junior:—"What?"
Senior:—"Huh?"

Expressman:—"I've got a box here for the Armour Institute, of some d——m stuff."

Pete (from elevator):—"That's all right, this is the place."

"The man who drinks never gets ahead," says the advertisement of a liquor joint cure. Wrong again. He generally has a good one in the morning.



CLASS of 1914.

The Great Armourican Circus

All r-r-right. Gome to odair now, and stop dalking! Exkuse me, I thought we was in de class-room. Vell, gentlemen, ve haf on hand vot ve call de Great Ar-r-mourican Circoos. Doand you fellers in the back push! There's plenty of room! If there ain't vell—I can't help it, but Doand Bush! Ve haff six rinks in our Circoos. Each department hass a rink for himself and such a conclomeration off actors hasn't been together since I had that class in Algebra width Strain, Volfsohn, Schpitz and that vot you call him—shark?—Hanson in it. Who dthrew that cabbage? Hanson, you vill go oudt pleese! I don't care if you didn't—you might haff! As I vas saying, ve haff rinks on our fingers, ah, I mean rinks in our circoos! Ve haff assembled our actors from all de melting pots and pans in the solar system. Ve haff picked all de stars and comets from such planets as Wisconsin, Illinois, Dollhousie, Leip-zick, Illinois Railroad Shops, Joliet and perhaps Englewood.

You shall see them solfing problems of to-day, yesterday and fife o'clock next week. They vill wrestle width posseteefe and negateef charges and making monkey shines width integrations width mathematics and geometric preshishun according to Hoyle and others. Volfsohn, daondt you try to be funny, 'cause it isn't in you! Admission iss by registration card only. The show will last for—until you come oudt. As I said before, take it easy or doandt take it at all. I am not a—vat you call it—barker—but you know what I mean. Al-l r-r-right! Oop width the tendt.

Ring One.

Here we are ladies, here we are gents, here we are you others in the back seats, the only and original beginners of the great Armourican Circus. Before the other bunch of engineers get a hold of you, let me show you our trained bunch; gentlemen we have positively the biggest crowd in this whole show. As they say in the Y. M. C. A. (Young Mens Circus Association), "We Are, We Are, We Are, We Are, The Great Make-a-Nickel Combine, Mechanical Engineers." Ha, here I stand, look at me, would you for a moment thing I was anything but Normal (no reflection gentlemen), but look closer, who am I? Why I am the man with the only Geb-hardt in the world that's I'm, but lets go on. Who do we see here, Ah gentlemen, a perfect treat, the stoutest of the stout, we have Frith (no not fits, ladies), the man who is the possessor of the negative lap, as we term it at the Toot. Then we see yonder over there, that marvelous musician, the World's Greatest Songbird, he is called W. G. S., he will entertain us with his own composition entitled, "He hit her in the slats as she lay in the cradle, but she did not weep, she was made of plaster of Paris." While we are on the subject of songs we will take a pike at yonder scene, the hall of fame, where all afternoon the song of the blacksmith, founder, machine shop man, and wood shop man can be heard; listen gents, don't you hear it, nope? You're not near it. Come, come, ladies, don't be distracted by the offer of that funny free department, the Elect-tickle one, come, pay your five dollars for each shop and then you can shop to your hearts content. Ha, list, I forgot to mention gents, and you too

ladies, that although we are Make-a-Nickels, we also make engines and gas, we give the title of B. S., (Button Shoe), to those staying long enough. Pass in, pass in, if you don't ride your horse young man, you will never pass.

Ring Two.

Gentlemen and those among you: look, look, we are going to feed them! What are we going to feed them? Rods, chains, pins, guns and bridge abutments; bending moments, railroad ties and freshmen. Coagulate, gentlemen and I will give the topography of our ring.

The gentlemen on the left is the affable only original sleep producer in captivity. He is the only agent Morpheus has travelling with this mammouth production. The stunt will be to construct railways to the home of the god of Sleep. In thirty seconds—think of it, gentlemen—in the short space of thirty seconds he will construct this railroad and transport you to the Garden of Dreams, where you will be the captive of "dewy-feathered sleep" until the sound of the class bell releases you.

Next in line, is the wonderful Wells, "Army's" only competitor. He will run an aerial line from here to the land that knows no rest. There will be something doing every minute of the time. I will leave it to you to choose which of these rides to take.

The great feature of this ring, gentlemen, is the great pair, Dean and Penn. They will survey the river Styx for the purpose of finding a suitable point at which to bridge the river. They will then tear down the Bridge of Sighs and will construct it across the Styx. The object of their work is this: It is a fact accepted by most people both in and out of the profession, that after an engineer has completed his work, he receives an invitation to go to hell. As we are not a skeptical class and have been trained to practice economy and to play the game safe, we have taken this means of putting one over Mr. Charon, who, because of a lack of competition has been able to demand enormous tolls from passengers bound for the land of fire and brimstone. We are just about to start, gentlemen so don't delay, Look! Look! We are going to feed them.

Ring Three.

Charges, Charges, Charges, but not a charge for you! We are going, gentlemen, going, NOW! Gentlemen, we are not a practical bunch, but with your kind attention, I will show you why there will be no charge for you in this ring. We are the only live attraction in this circus, in fact our exhibition becomes so dangerously live, as to permit the possibility of lifelessness. However, gentlemen, don't run away until you have seen our ring, then you will go home with a smile on your face. We have cornered the market on everything electrical. We have the juice of all the currents in creation and elsewhere. Our performers are kings of their kinds. Among them is Mr. Snow, who, strange to say, is a very warm-hearted man. He will exhibit a power plant designed by himself, a plant large enough to furnish all the heat and light used on this planet. It was due to Mr. Snow's philanthropic nature,

that he was led to build this plant. He feels that the sun needs a rest and he is confident that his scheme will enable Old Sol to lay off for an hour or two.

In order to get to the sun and submit Mr. Snow's proposition, Gilbert has built a jump spark coil which he will exhibit to you. His scheme is to use the sun and the flag pole out on Ogden Field as the terminals of the coil. The messenger carrying the proposition will stand on top of the flag pole. The apparatus is then set to work. As soon as the messenger sees the spark racing up the pole, he will grab it, and when it jumps from the pole to the sun, Mr. Messenger will be carried along. What's that? How will he get back? Why, he will slide down a sunbeam.

As I said before, gentlemen, there will be no charge to you in this ring. First, because we have all the Nichols we want and secondly, this man Nichols has captured all the charges in existence—both positive and negative—and after weighing them he will burn them up. Thus we will not be bothered with charges, so step right in, gentlemen—it's free.

Ring Four.

Nitric, Sulphuric, Ammonia and Slop,
Comical Engineering always on the top.
Rah! Rah! Rah! Rah!

That's the way we stand, peoples and kids, here we are the first course in comical engineering ever given, that's us. Woop-ee, ray for us. Huh buddie, why I am feeling fine, why I just flunked nine. But gents and skirts, let's get down to business. List, I will introduce to you a wonderful man, namely myself, for who else might I be. I am a wonderful actor, if you don't believe it go down to the Toot and hear the fellows on the fourth floor back a-yelling, "Say, fellows, let's find out, let's go and see Mack," Mcorm-act they mean. 'Snough for me. The gent on my right, that happy guy, sh—sh—,he was married only a few months ago, he's the greatest living organ, pardon me, I meant Organic—(no, no, not Orang-Outang), he is a marvelous baseball player, sure his initials tell you so, B. B. Freud, Base Ball Freud. No, no, little girl, don't U. B. Freud. 'Tis all right. But we must hurry on or else you'll go out, not that I wish you wouldn't. Who is the guy tickling my ribs, making me laugh, why that's our human C. A. T. Yep, sure, cat, Chawls Austin Tibbals, Asso. Comist, as is our beloved BB, no youngster, that's not what you shoot in air riflles, it's what he hands you. Say youse guys in the rear, wait until I've finished or get out before I start one o' de six. These last two laughing so chemically are the comical twins, McMullen & Gill, nothing fishy about that last name, eh, wat? They will now give you the nickel and cobalt dance, while our other two will spiel their spiel, the first a two-act comedy entitled, "A Funeral in Chemical Lab, Poor Ethyl Iodide," so they made Alcohol the hearse away, but nobody cared what the acid or what made the alkali so basely." Finishing with a too real film, I mean flim, depicting the precipitation of a fight by the addition of an acid remark to a basic principle. Last, but not least, we have with us a man with a marvelous vocabulary, gentlemen it is worth the price of admission

to hear this man from Boston Tech, Mexico, etc., talk his lingo, with his jingo he will drive tears to your eyes, tears of joy, come inside and hear him give his Silicer lecture, Aluminer, etc. Step in, gents, don't crowd, don't push, let the babies who can't walk come in first.

Ring Five.

Ladies and gentlemen, it grieves me indeed that you should be forced to listen to the other barkers as they call themselves, spieling in such a rough tone of voice. I fear me they are not so well trained. We therefore have our special building, which, as you can well see is fitted up in grandiloquent style, thank you professor, soft music. Ladies, I must inform you that we have the most intelligent summation of trained beings in our midst, notwithstanding anything said by those other rude persons to the contrary. I wish to introduce just a fine, well cultured man, if I do say it myself, pardon my blushing ladies, my powder is at home; all the architects use rice powder, don't you know, old chappies. As I was going to say before I blushed, I wish to inform you people that you will see if, as Caesar aptly put it, " you will loan me your ears and pocketbooks," someone in the crowd was so rude as to suggest Caesar did not say this, but that Mark Anthony said it. I know this to be a fabrication. For did not one of Anthony's daughters fall from Julius' house one day and almost slipped when Mark cried Caesar, Julius, Caesar, that is he mean for Jules to catch her. We also have with us a verdant gentleman who will sing and dance to the tune of, "Were select, were select, raw, raw, raw, Architect." They tell the story of Jones and Green meeting a girl and quarreling as to who should take her to the dance when a pig of Armour come up and slapping him on the back remarked, Oster, Ostergreen, which Green promptly did. Clevah, by Jove. But let's go back and view the others. I will not explain any further what we should show in yonder tent, but must ask you to deposit $75, just $75, no fees whatsoever at the Toot door and come in and see our trained performers, no spoofing whatsoever. See Rebori, two fine fellows, Reb-or-E, a fine team and see them fling the highland fling and eat cream puff without smearing it all over.

Come, gentlemen, pardon me ladies, I should have put you first, come and watch our stars perform in the ring, really a treat, old chappie, no spoofing, no really.

Ring Six.

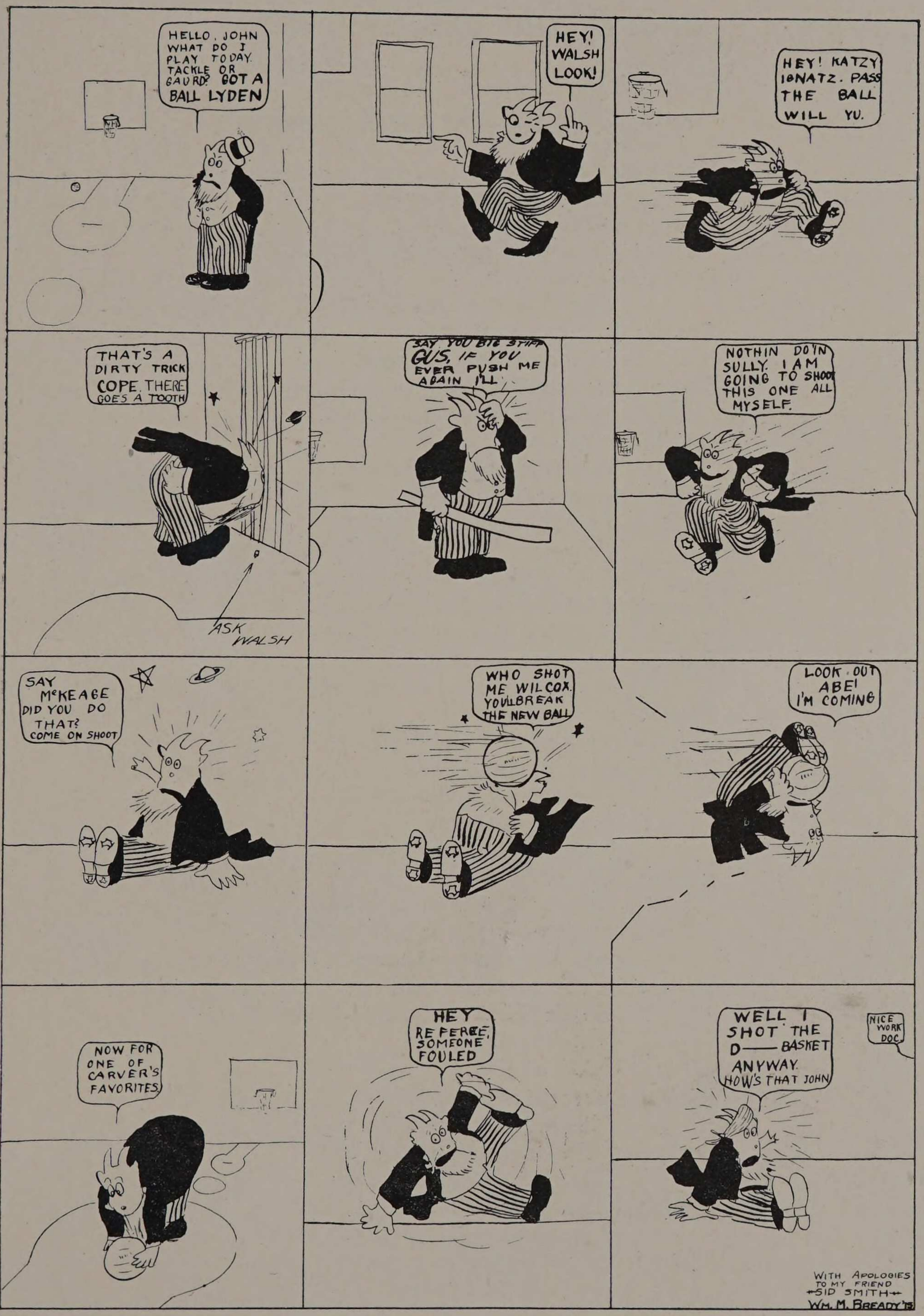
Clang, clang, bing, bang! Hurry, hurry, hurry! No, Freshie, this isn't a lunch counter, this is the fire department. We are the prima fire eaters! Mr. Finnegan and I are the only performers in this ring, but look at our names and be confident. We have grappled with the burning questions of the day—and of tomorrow. Man has made a mistake in bothering himself about trivial problems pertaining only to his temporary life, here on the surface. We have gone deeper for our theme because we believe that in our after life we must, of necessity, go down below with problems of everlasting endurance.

With this in view and looking to our comfort in our future home, we have designed an automatic sprinkler system to be installed in the palace of His Satanic Majesty. We are frank to admit, however, that we are a

bit skeptical as to the success of our plan, for granting that we could install our equipment and get it working, we fear that when the water plays on the everlasting fires, such a volume of steam will be created that the roof will be blown off of the place. The adversaries of Bob Ingersoll, realizing the possible outcome of such a catastrophe, have urged us to seek other methods. We have therefore hit upon another plan which we believe will prove more popular and successful. It is this. We have taken the human soul and after many elaborate experiments upon it, have turned out a finished product, which promises to be the sole of souls on the market. It is a composition of absolutely fire-proof materials. For the consolation of the downtrodden student and the henpecked husband, I might remark that we have so designed this soul that it cannot be worn by the relentless and overbearing college professor nor by the wife and omnipresent mother-in-law. It has the vitality and life of the old fashioned soul and in addition is indestructible. This sounds like an automobile tire advertisement, I know, but if you gentlemen will step right in, we'll show you the goods.



"All the world loves a lover."
Do you?


HELLO, JOHN WHAT DO I PLAY TODAY. TACKLE OR GAURD? GOT A BALL LYDEN
HEY! WALSH LOOK!
HEY! KATZY IGNATZ. PASS THE BALL WILL YU.
THAT'S A DIRTY TRICK COPE. THERE GOES A TOOTH
ASK WALSH
SAY YOU BIG STIFF GUS, IF YOU EVER PUSH ME AGAIN I'LL
NOTHIN DOIN SULLY. I AM GOING TO SHOOT THIS ONE ALL MYSELF.
SAY McKEAGE DID YOU DO THAT? COME ON SHOOT
WHO SHOT ME WILCOX. YOU'LL BREAK THE NEW BALL
LOOK OUT ABE! I'M COMING
NOW FOR ONE OF CARVER'S FAVORITES.
HEY REFEREE, SOMEONE FOULED
WELL I SHOT THE D—— BASKET ANYWAY. HOW'S THAT JOHN
NICE WORK DOC.
WITH APOLOGIES TO MY FRIEND SID SMITH
WM. M. BREADY '15

SINGING THE OLD HUNDRED.

(Profuse apologies to A. Tennyson.)

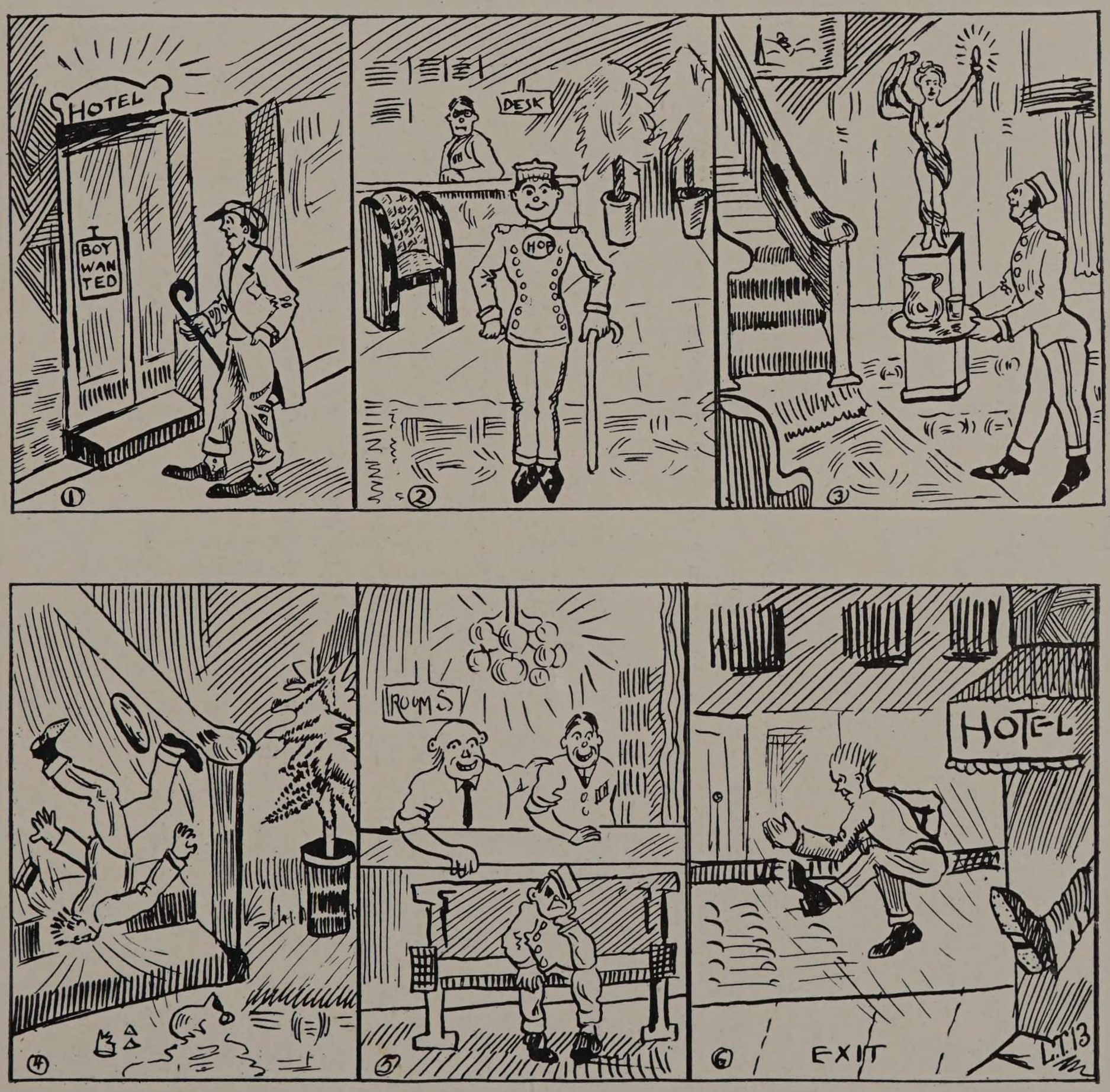
Half a bar, half a bar,
Half a bar onward!
Into an awful ditch
Choir and precentor hitch,
Into a mess of Pitch,
They led the Old Hundred.
Trebles to right of them,
Tenors to left of them,
Basses in front of them,
Bellowed and thundered.
Oh, that precentor's look,
When the Sopranos took
Their own time and hook
From the Old Hundred.

Screeched all the trebles here,
Boggled the tenors there,
Raising the parson's hair,
While his mind wandered.
Theirs not to reason why
This psalm was pitched too high,
Theirs but to gasp and cry
Out the Old Hundred.
Trebles to right of them,
Tenors to left of them,
Basses in front of them,
Bellowed and thundered.
Stormed they with shout and yell,
Not wise they sang, nor well,
Drowning the sexton's bell,
While all the church wondered.

Dire the precentor's glare,
Flashed his pitchfork in air,
Sounding the fresh keys to bear
Out the Old Hundred.
Swiftly he turned his back,
Reached he his hat from rack,
Then from the screaming pack,
Himself he sundered.

Tenors to right of him,
Trebles to left of him,
Discords behind him
Bellowed and thundered.
Oh, the wild howls they wrought,
Right to the end they fought,
Some tune they sang but not,
Not the Old Hundred.

—E. D. Gothwaite, '15.



NAME	APPEARANCE	CHIEF VIRTUE	HOBBY	AGE	WEAKNESS	AMBITION
Burley—	Rather Severe	Wisdom	Kicking about time	Short age	Asking questions	To Teach Physics
Mann '13—	Heavenly	Wavy hair	Studying	Ripening	None	Sunday School Superintendent
Farrar—	Cute	Voice	Society	Give it up	Playing ball	Same as Caesar's
"Dulse"—	Imposing	His height	Society	Boyish	Basket Ball	To run things
Jim Cohen—	Con Man	Pleasant Smile	Making a Bluff	Marriageable	Recitations	Has none
Phil Meyer—	Angelic	Romantic Nature	Girlology	Has forgotten it	Her Smile	To beat Wood matching pennies.
Fitterman—	Frenchy	None Recorded	Muscles	? ? ? ? ? ?	Talk	To be Class President
Menke—	Important	Knowledge	Getting A's	15 (he says)	Chemistry	Society
Cramer—	Wise	His eyes	None	Nearly old enough to vote	Math.	Getting A's
Heritage—	Battling Nelson	Noise	Basket Ball	Saus Age	Carrying water	To be a merchant
Shakeman—	Pretty	A soft voice	Dancing	Childish	Physics	Unknown
Hook—	Not tall	Afraid to commit	Kid Gloves	Ante-deluvian	His feet	Ward Boss
Hanson—	There's a dark man coming	Sweet disposition	Roughouseology	Don't know	Jokes	Theatre Reporter
Perlstein—	That of a Benedict	Wisdom	"The Fulcrum"	Under 90	Handshaking	To be publisher of "Diamond Dick"
Yonkman—	Pleading	Unknown	His studies?	Ought to know better	Too many to enumerate	To graduate
Anderson—	Stiff	Smile	Whiskers	Sweet 16, etc.	Y. M. C. A.	Violinist



Student: "Oh! Professor, did you see that man hit the sidewalk?"

Prof.: "My boy, that man did not hit the sidewalk. His meta-center has been shifted below his center of gravity, thereby changing his stable equilibrium to unstable equilibrium, thus striking a small film of air on the surface of the sidewalk."

By Degrees

College men are very slow,
They seem to take their ease;
For even when they graduate,
They do it by degrees.

Doc Campbell, referring to Agee's problem, "Yes, sixteen mistakes leading to the correct answer—one mistake makes it wrong, the second reverses the effect of the first."

Moral: If you want the correct answer have an even number of mistakes.

Found in a geometry note-book:

Theorem: If you love a girl, she loves you.

Given—You love a girl.

To prove—She loves you.

Proof—

1. All the world loves a lover. (Shakespeare.)
2. Your girl is all the world to you. (Evident.)
3. Your girl equals the world. (Things equal to the same thing are equal to each other.)
4. Your girl loves a lover.
5. You are a lover.
6. Therefore your girl loves you.

Q. E. D.



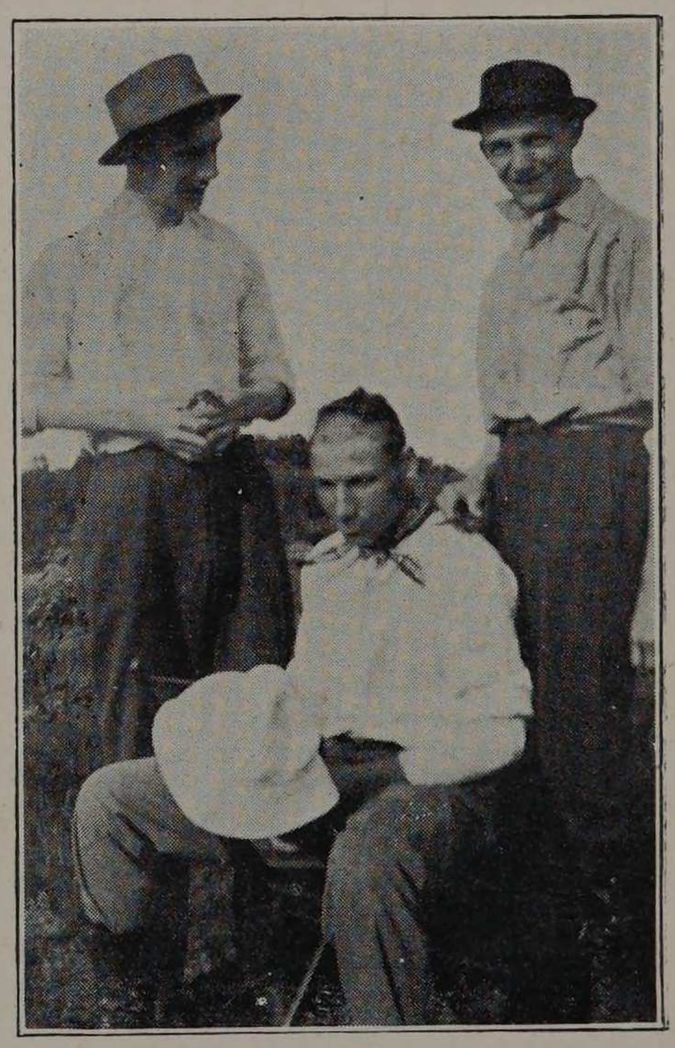
Soph dressed
In his best,
Calls on girl
By request,
Looks swell:
Rings the bell,
So far all's well.
Small boy
Grins with joy
On a purpose
To destroy,
When, Spat
Soph falls flat
Just at that
Snow ball,
That's all.
Pride goes
Before a fall.



Larsen Plays Baseball



Graduated



Chippy Zack gets a Haircut



J. Beanery:—"Say, Percy, how many flunk notices do you think I received in my studies this semester?"

Percy:—"Well—how many studies did you take?"

A dashing soprano named Anna,
Climbed a ladder in such a rash manner,
That the tenor below,
Cried, "He he and Ho ho,
I have heard, now I see your Hosanna."

Non-Actinic

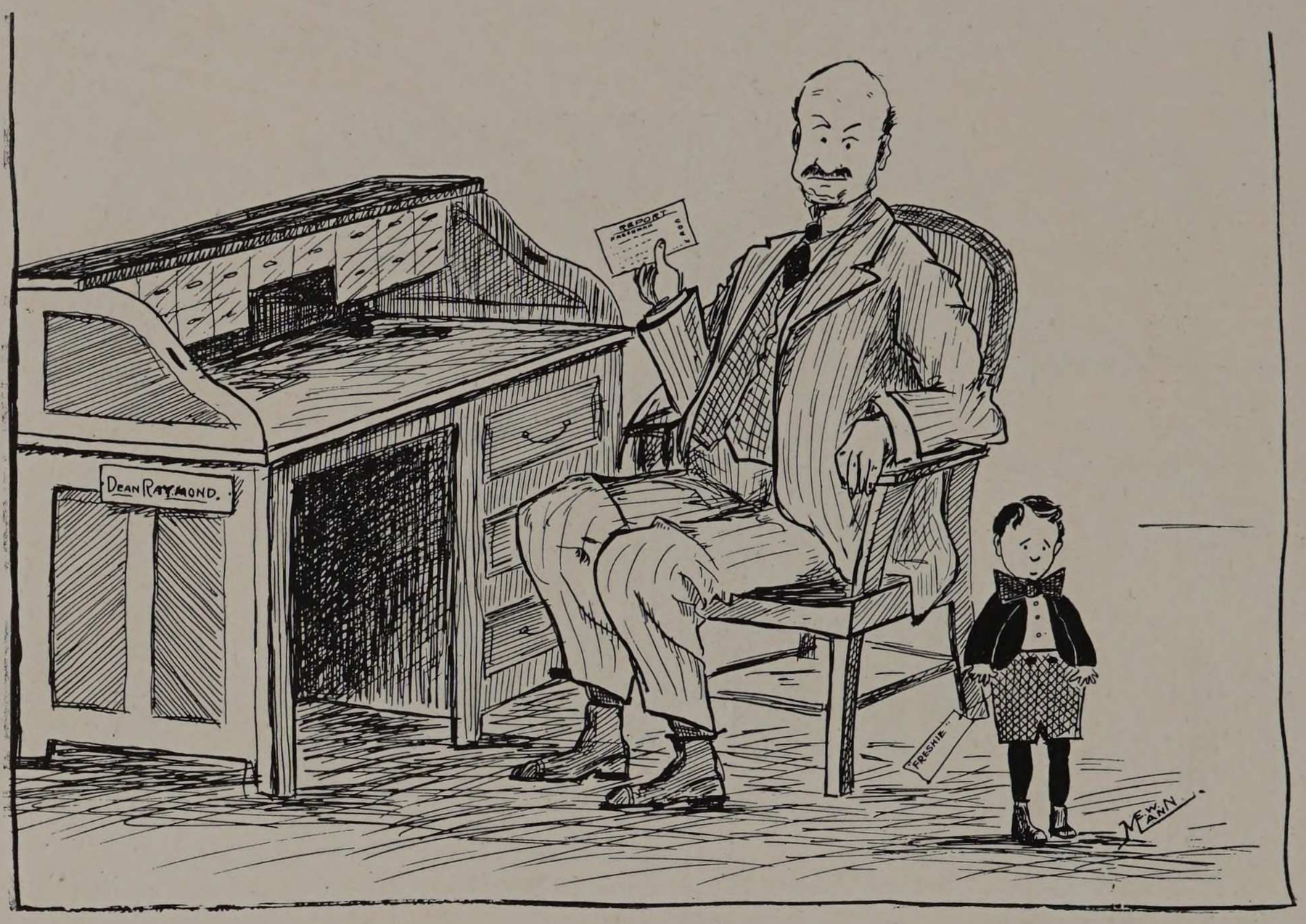
Photographer (to Freshman)—"Yes, the regular price of these photographs is $3.50, but I'll have to charge you $4.00."

Freshman—"Why is that?"

Photographer—"You see, I'll have to use an orthochromatic plate which is specially sensitive to green."

High Potential:—"You say that a labor-saving device has at last been applied to religion?"

Low Potential:—"Yes, Edison has patented a rotary Converter."



ASK RAYMOND

If you want to know the time,
Ask Raymond.
If you want to stretch a line
Ask Raymond.
If you want to change your course,
Or you'd like to ride a horse,
Or anything, of course,
Ask Raymond.

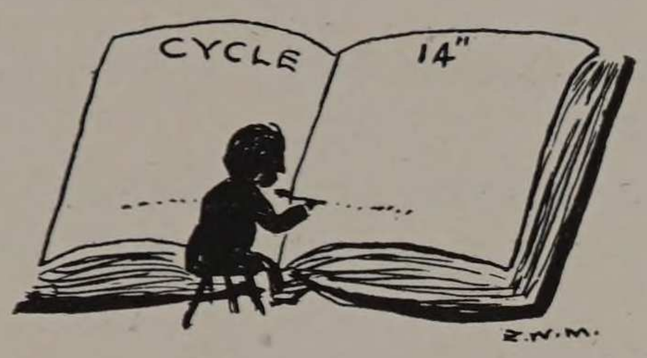
If you think you work too much,
Ask Raymond.
If you want to make a touch,
Ask Raymond.
If you don't know what to do,
How to bill or how to coo,
If you even want to skidoo,
Ask Raymond.

If your girl don't treat you right,
Ask Raymond.
If you'd like to work with all your might,
Ask Raymond.
If anything has gone wrong,
If you want to help the game along,
Dance a jig or sing a song,
Ask Raymond.

D. B. L. '14.



Business Manager Hook
"I Should Worry."



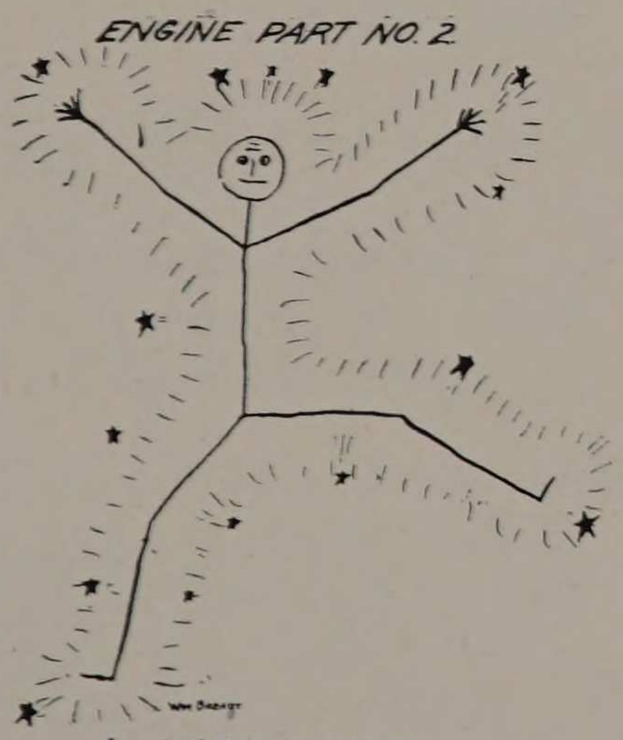
The way the task looked at the beginning of the year.

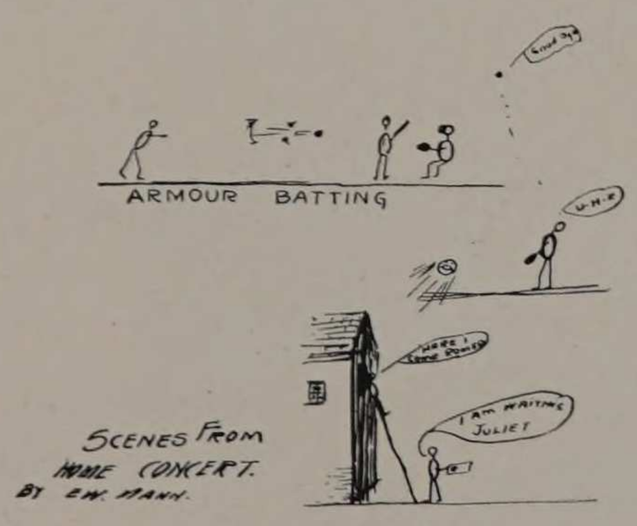
Prof. Smith: (Explaining valve mechanism in Kinematics). You see, these ports are slits for the steam to pass through. I notice Grossman is cocking up his ears, so I had better explain that I said slits and not "Schlitz."

The fraction leaned over and tapped the whole number on the shoulder: "Say," she whispered, " is my numerator on straight?"

To be sung to the chorus of the "Tale of Kangaroo."

Some die of drinking whiskey,
Some die of drinking beer,
Some die of overstudy in the course at Armour here,
But of all the dread diseases,
From the toe nail to the ear,
The last one I have mentioned
Is the worst you'll have to fear.





TECH DICTIONARY.

C — Z

Coeducation, (n.) Something that Armour has not.
Synonyms: distraction; $75 extra expense for male, etc.
"There will be no coeducation."—Executive Council.

Y. M. C. A., (n.) Place to spend time you haven't got. Singing Room.
Synonyms: Rothwell, Steininger, etc.

College Spirit, (n.) A disease manifest by war whoops, dances, etc.
Synonyms: Bon Fires, Hoarse Voices, Tin Horns.

Cram, (v.) Int. to gorge the mind after a long period of fasting.
Synonyms: Plug, Bone passed (?)
"Thou shalt not cram."—Doc Campbell.

Examination, (n.) abbr. X. An instrument of torture to find out student's knowledge.
Synonyms: Suffering, Reign of Terror.

Faculty, (n.) Generally the lesser lights in college.
Synonyms: Wilcox, Perry, etc.

Flunk, (n.) (Much used.) To evaporate, bowl over.
Synonyms: E., D.

Graduation. (n.) An event of rejoicing for all.
Synonyms: Engagement, Job.

Hazing. (vb. n.) Friendly spirit between classes. "That hazing must stop."—Dr. F. W. G.

Horse, (n.) A beast of burden much used by college men while travelling through A. I. T.
Synonyms: Pony, Pass!!

Janitor. (n.) A fellow with a bunch of keys.
Synonyms: Frank. "Ask Frank for your key."—Kelly.

Pass, (n) A stand-in with the Prof. (Rarely used.)
Synonyms: Diploma.

Prep, (n.) (Obsolete.) Meant Academy students. A pestilence.

Registrar, (n.) (From Latin Regis-Terror.) Taker of moneys, seller of material. Synonyms: Allison.

Sophomore, (n.) Wise Fool (From Latin, Sophus, wise; Moror, Fools.)

That, (n.) See It.

U. Anyone reading this section of Cycle, Wise man. U shall pay me.—Frank Hook.

X. Abbr. for Exam. See above.

Y. "Perennial question" foolish question. 2245, asked by all. "Y is that equation true."—Leigh.

Zealous. Corruption of Tau Beta Pi. If you are zealous you can't be jealous.

It. That.
Synonyms: Prexy.

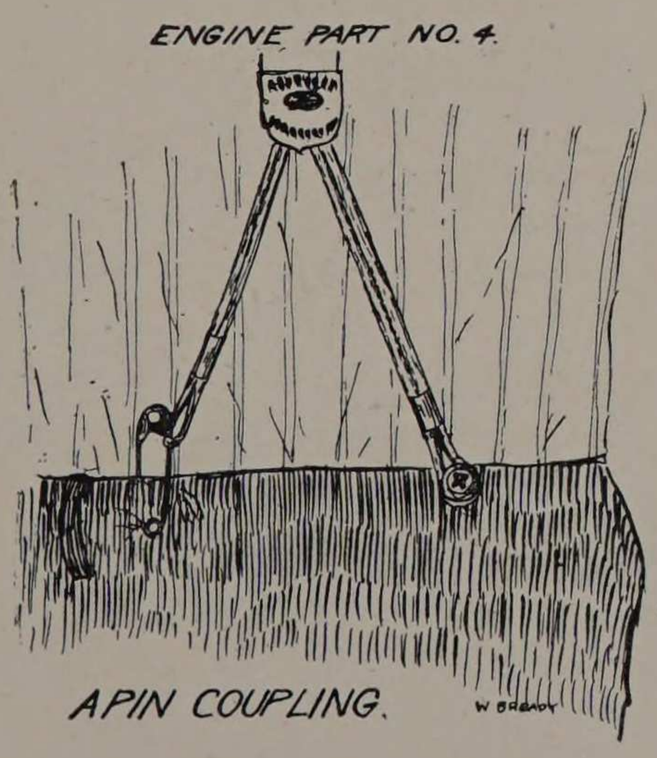


She had asked me
Would I help her
With her Latin,
'Twas so hard:
Would I help her
Conjugate that mean
Irregular, old word
"Disco"? She just kept
Forgetting the subjunctive
All the while.
Pretty lips so
Near, so tempting,
Tending strongly
To beguile—
Thought I'd teach her
By example
"Didicissem?"
"I should smile."

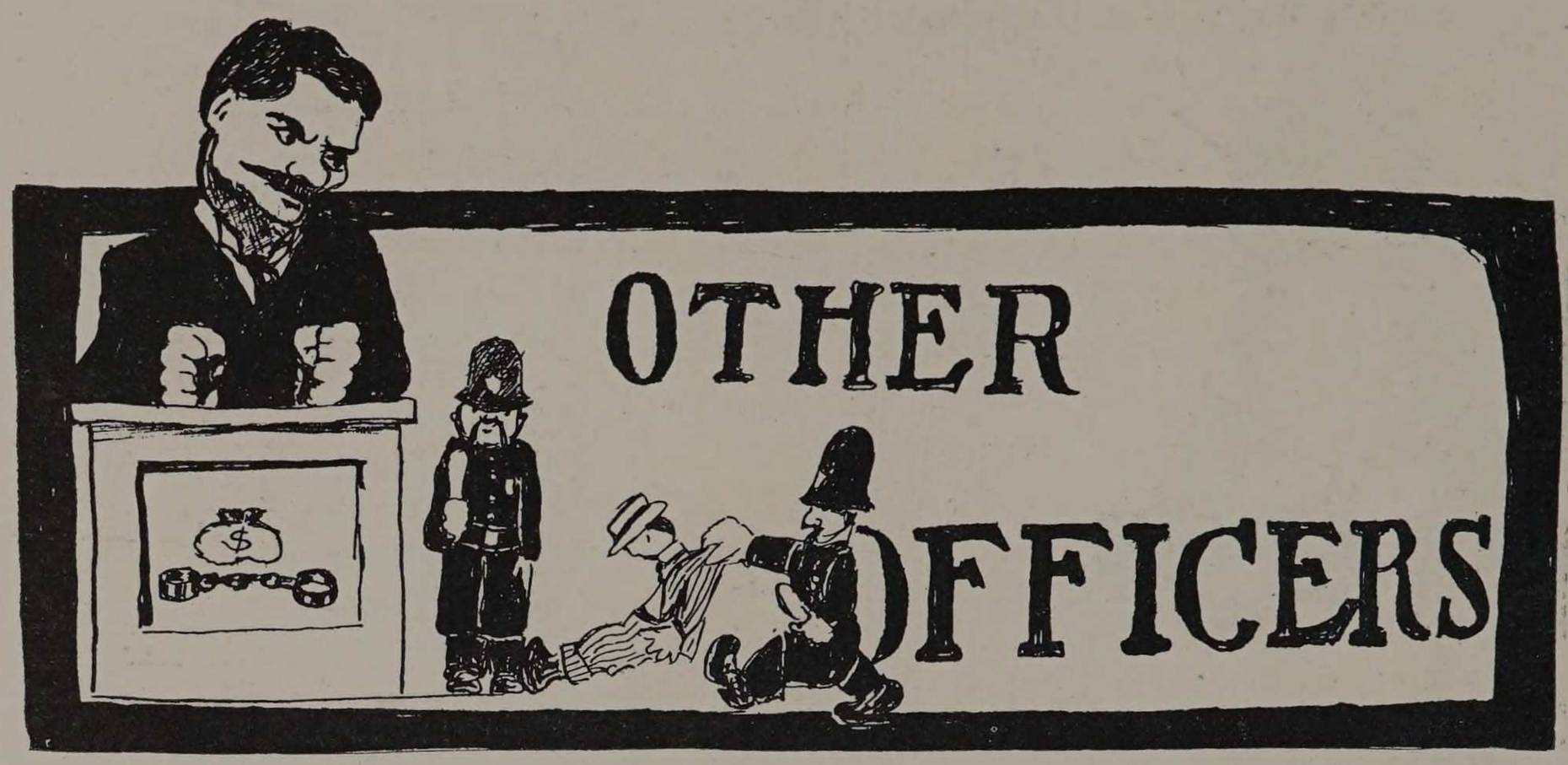
DOUGH

Dough is made out of wheat oil, literature and magazine articles. But dough made of wheat is not stickier than any other.

Dough is a prior fact to bread, motor cars, steam yachts, and collections of old books. It embitters matrimony and purveys the lovely scandal we read about. It gets girls sent off to college and fitted to be something more spectacular than mere wives and mothers. It curseth them that go in for it, but not unto the third and fourth generation. We are too good spenders for that. It is from dough that the dowdy, the dull, and the dotty derive distinction otherwise denied.







Professor for the Uplift of Juniors and Seniors?
(Big Chief Elevator Man) E. E. (Elevator Engineer).

Professor for the Department of Deans.
Asso. Professor of flunk notices, etc. etc.
Wm. D. Kelley, C. E. (Civil Enquirer).

Professor of Economics, Asso. Prof. in the Department of Selling at High Cost. (Keeper and counter of thumb tacks.)
Charley Nesbit C. E. (Cost Engineer).

Professor of Pottery and Vases, Dean of Department of Ceremonies.
Wm. Sir (et al) C. E. (Cleaning Engineers).

Professor of the Department of Lost Keys, Dean of Janitors, Frank.

Associate Professor of Lost Keys, also Asst. Dean of Sweepers.
Pete, S. E. (Sweeping Engineer).

Professor of the Useful Arts. (Cooking, etc.)
Beanery Man, E. E. (Eating Engineer).

Instructor in Chemistry, Keeper of the Punch.
Frank, C. E. (Commercial Engineer).

CONGRESSMAN CORNTASSEL'S MAIDEN SPEECH.

Note: Many of the men who will go to make up the new Congress are rural gentlemen wholly unsophisticated in national politics, who have tobogganed into Congress on the Democratic landslide. In view of this fact and in consideration of the attitude of past Democratic Congresses towards national defense, a speech similar to the following is not at all unlikely.)

Delivered in the House of Representatives, March 15, 1913, by Congressman Corntassel of Hickory Corners, Missouri.

"Mister Speaker an' feller representatives: One day last hayin' season when I wuz down to Si Mildew's groc'ry, I heerd tell uv this tew-gunboat program, an' I allowed then thet ef I ever come to represent our deestrict in Washin'ton, I'd do ever'thing in my e-e-ternal power to make Congress act sensible 'bout this question. Ever' night arter milkin' the cyows, Mirandy an' me 'ud get down our pile o' old almanacs an' the kid's hist'ry an' geogerphy an' study the hull blamed affair.

Now, I'll allow thet the' little scheme we all concocted mought sound some'at irradical to yew folks down here 'cause yer so allfired used to doin' things in a cut an' dried fashion, jest th' same's us folks plow a furrer day arter day; but when yew-all hev' set up nights studyin' like Mirandy an' me did, then maybe th' light o' intelligence 'll dawn on yew like it hez on us.

In the fust place, we disagree with them critturs in th' Senate house as to th' essentiability uv buildin' tew boats. As t' why we think thet-away, it haint necessary t' say right off—that'll come out later on. We allaw as how one will cover all th' present needs uv this glorious republic. Regardin' th' structure of this boat, we hev arrived at th' conclusion that these here kid industries hev been reapin' a big harvest uv th' common peepul's money fer tew long a time, an' thet it's time to' bring a halt to th' performance. Therefore, Mirandy an' me figgered thet instead o' lettin' Mr. Rockerfeller an' Mr. Carnegie git rich on this boat, same's they been adoin' on all th' others, we'd build this one out o' wood!

In th' second place, in regyard t' th' place where this boat is t' be placed, we were unanimous in agreein' thet th' coast states like Noo York an' San Francisco oughter share th' benefits uv a great navy with th' inland states like Missouri. Followin' out this line o' argyment we jedged thet Missouri had a claim tew th' next gunboat. Now, right back o' Josh Higgins' barn is a moughty fine little lake 'bout a quarter mile wide an' twice thet much long. It haint named on th' map, but folks down thar call it Higgins' Lake. This would be a mos' convenient place fer thet new boat, an' I larned from ol' man Higgins who fit in th' Civil War thet it wuz a stragetic position fer defendin' Hickory Corners from attack. (Applause from the Hickory Corners delegation in the gallery.)

One o' th' greatest objections tew a gunboat is th' fact thet in time o' peace an' tranquilness th' durn things air as useless as a 'tater bug, an' so Mirandy an' me hit onter a scheme fer usin' th' ol' gunboat in peace time. Here it be: In th' reg'ler ol'-fashioned boats which hev been built heretofer, there's allus

a pile o' money spent on big enjines t' make th' boat go lickety-split through th' water. Now when this new man-o'-war is set in Higgins' Lake, thar'll be no need uv sech wasteful contraptions 'cause th' lake is tew small fer t' let th' boat go galavantin' t' furrin' shores. I take thet t' be a right smart advantage over any other place. Instead o' th' speed enjines we plan t' hev a new kind o' machine in th' boat. It'll be som'at like th' thrashin' machines thet go 'round th' country in harvest season on'y it'll be a lot bigger. Then when time comes t' do th' thrashin' we'll build a big bridge out t' th' gunboat an' all th' teams kin drive over this bridge onter th' boat whar they'll hev thar grain thrashed free o' charge, an' then they kin drive back agin. We figger thet this free thrashin' 'll be a great boon tew Hick'ry Corner farmers an' indireck'ly tew th' hull nation, cause in this way th' farmers kin sell thar grain a durned sight cheaper an' help redooce th' cost o' livin'. In winter time we kin use th' boat fer a meetin' house an' fer a place t' give Saturday night hops. As fer gittin' th' gunboat t' Higgins' Lake we studied thet out tew. It'll be built in pieces jest like these here knock-down summer cottages an' kin be stuck t'gether arter she gits t' th' lake.

Gentlemen, I most sartainly hope ye'll give this plan yer full consideration, an' if thar's anything 'bout it thet ye aint quite sure uv, jest come 'round t' my room an' it'll be explained. I thank'ee."

—W. P. HANSON.

The Nobody Club

(That is Nobody But Ourselves)

MOTTO—After Me, You Come First.
FLOWER—Lily of the Valley. (Habitat—Secluded Places.)
GRIP—There isn't any. You can tell them without it.

Officers.

Chief Least Nobody.....Red Strain
A Little Less.....Phil Hockenberger
Still Smaller.....“P” “O” “E” Johnson
Absolute Zero.....Mgr. Cooban

Charter Members.

Russell Cunliffe
Warren Hamilton
Walter Marx
Warren Fryburg
O. Hutchinson
G. R. Bartling

THAT TRYING TELEPHONE

Several evenings ago, says Tit Bits, a young man repaired to a telephone office and rang up his sweetheart at her residence.

"Is that you?"

"Yes, George, dear," came the reply.

"Are you alone?"

"Yes, darling."

"I wish I was there."

"I wish so too."

"If I were there, do you know what I would do with you, my darling?"

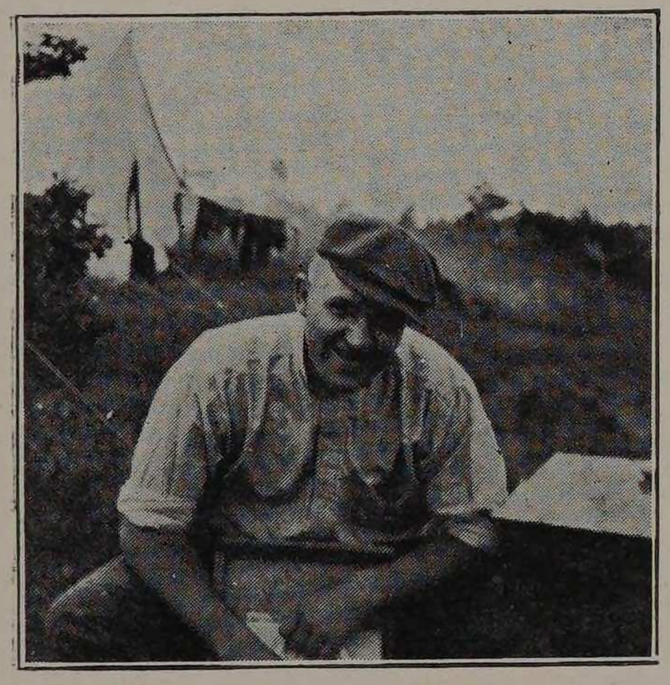
"No, George, I do not."

And then, somehow, the lines got mixed, and this is what she heard:

"Well, I'd pull her ears till she opened her mouth and then I'd put a lump of mud in it. If that didn't answer, I'd give her a sound thrashing."

And then Marion fainted.

Now they never speak as they pass, and the man who was talking to his farrier about a balky horse, says that anybody who will advise a man to put his arms around the neck of an obstreperous horse and whisper words of love in its ear ought to be hanged to the nearest lamp post.



'Tis Washing Day in Menominee Town Once Again.

"Vale"

Record poor—Feeling "Punk."
Yellow note—Fear a "Flunk."
Worried look—Rumpled hair—
Poor exam—Vacant chair.

Customer, angrily—"Waiter, this coffee is nothing but mud."

Waiter—"Yes sir, certainly sir; it was ground only this morning."

There was a fat girl of Cohoes,
Who thought she could dance on her toes;
She tried it a whirl,
Did this plethoric girl,
And you just ought to look at her nose.



Oh, What Did I Do!!

Young Men's Corpulent Association.

Motto: Eat, drink and be merry for tomorrow you may diet.

Officers

Heap Big Chief Corpulent.....Pa Frith
Possessor of the Negative Lap.....Fat Oldenburg
Delegates to Fat Convention.....E. Roger Burley, Jr.
Larson
Keeper of the Wide Breeches.....Wolfson

Amalgamated Order of the Brothers of the Beef Trust:

1. Whittington.
2. Ehrman.

Honorary members: Baby Bliss, Pa Phillips.
Pass word of order—Fat-Full.
Favorite smoke—Fat Ima.
Place of meeting—Fat-ternity Halls.

In order to become a member of this association, person must be a student or professor, in good fat, must weigh not less than 200 pounds.



The Ladies

Ah those were the days, the days
of old,
When ladies were fair and knights
were bold,
And kings and queens and cour-
tiers too,
Stooped not to speak words un-
true.

But, alas those days have flown,
No more hear we the courtly tone,
For men in search of wealth,
Deem it well to get it fairly or by
stealth,
But ladies fair have we still,
These we have and always will.

—D. B. L., '14.

RAT TRAPS

ENGINE PART NO. 1.

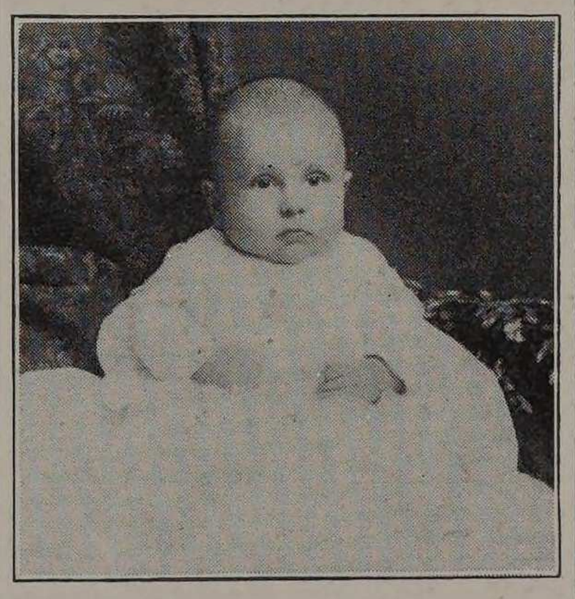


A STEEL FRAME

For brilliancy of design, quantity of ouput and uselessness of invention, American inventors lead the world. Take, for instance, rat traps. Four weeks ago, the Assistant Surgeon General of the Public Health Service, in an unguarded moment, announced that he was searching for a new kind of rat trap to be adopted as an official trap, in its war against bubonic plague. As a result he now has 75 models for rat traps, together with about 50 drawings and suggestions for traps. One of the inventions is a box trap lined with mirrors. The rat is supposed to be attracted within by his own reflection and to wander about twirling his mustache until he encounters a spring which releases a door and shuts him in. A simpler invention is the sneeze trap. This consists of a pasteboard tube lined with cotton batting. Cayenne pepper and snuff is sprinkled over the cotton and the tube placed over the rat hole. The inventor predicted that the rat would poke his head out of the hole, take a sniff and then sneeze himself to death. Another invention consisted of an iron pot with a rock placed in the middle. The pot was to be filled with water until the top of the rock looked like an island. A piece of cheese was then to be floated on the water, with the idea that the rat would jump for it, fall into the water and then climb upon the island. After this he would yell for help and all of his relatives would rush for assistance, jump overboard, and then kill one another fighting for a foothold on the rock. Still another inventor suggested the bran pail trap. In this, the surface of the pail of water was covered with bran, and board covered with bran was placed as a runway to the edge of the pail. The inventor predicted that the rat would eat his way to the edge of the water and then seeing what he thought was a sea of bran would plunge in head foremost, thus ending his romantic career. The simplest suggestion of all, and one which probably came from the keeper of a boarding house was to feed the rats on fried granulated cork after which they would lose their interest in mundane affairs, and would die of indigestion.







This space reserved for Miesse; he always will be a baby.

Freshman Class Officers

SACRED TO OUR DEAD

COEDS

Born 1892 Died 1902

ACADEMY

Born (19th Century) Died 1909

CHAPIN CLUB

Born 1908 Died 1912

CAMERA CLUB

Born 1905 Died 1912

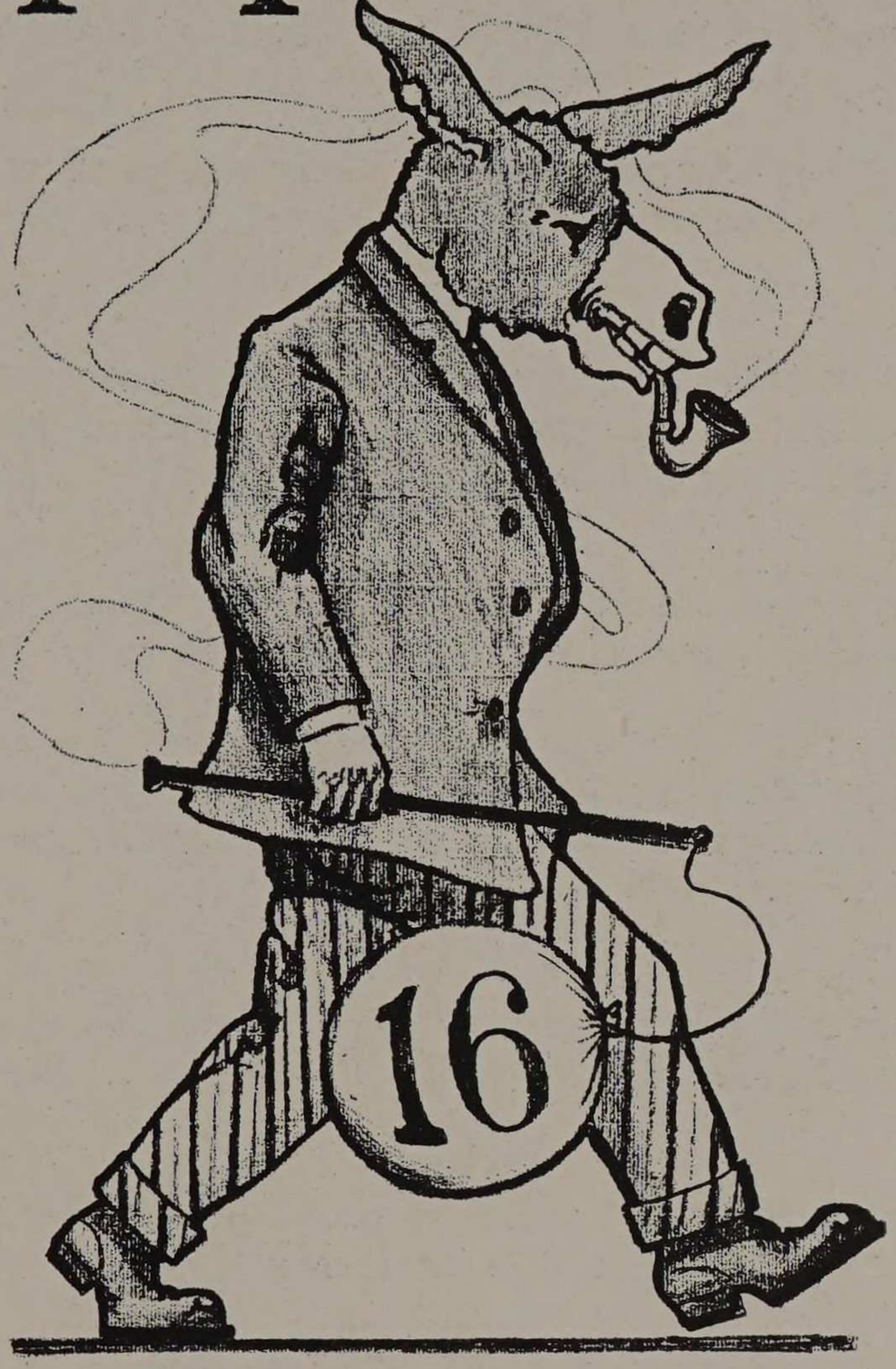
FOOTBALL

Born 1903 Died 1907

THE TECHNICAL SOCIETY

"Oh weep a tear, it died in its infancy."
"We loved them, but they have departed!"

Ye Freshie



At The Smoker

"CALC"

Here I sit in Calc, forlorn,
Trying the work with the devil born,
Integration, differentiation, and others as fine,
I'm not a shark, it's not for mine.

Campbell sits on the raised chair,
Smiling and looking with a devilish air—
As if to say, "Come boys, shell out, the game is o'er—
Calc last year, this year and maybe more."
Such is the gleam as it comes to me,
From the Professor, haughty and stiff,
I think of this, so I make the "Biff."

D. B. L., '14.

THE TEN COMMANDMENTS

And the Lord said, "Obey them and thou wilt not sin."

ONE.

Ay this is the Armour Institute of Technology, thou shalt revere it and serve it on earth, in heaven, under the earth, below the earth and even in Englewood.

TWO.

Thou shalt not take the names of the professors of Mathematics and Physics in vain, indeed thou shalt not take them at all unless it be on a yellow slip, saying, "thou art below."

THREE.

Thou shalt have but four unexcused absences from class, remember thou, if thou hast more thou goest elsewhere.

FOUR.

Honor thy superiors, the Juniors and Seniors, and remember it is a desecration of all that is right to ride on an elevator, for have I not said," Elevators are for the elevated only."

FIVE.

Thou shalt not kill thyself; eat at the beanery and thou surely wilt carry out the word of the Lord.

SIX.

Thou shalt uplift thyself as much as possible by any means, but thou must not ride a pony in the presence of a professor.

SEVEN.

Thou shalt not purloin thy fellow sufferer's valise, for he has great use therefore, even unto the time it falls to pieces.

EIGHT.

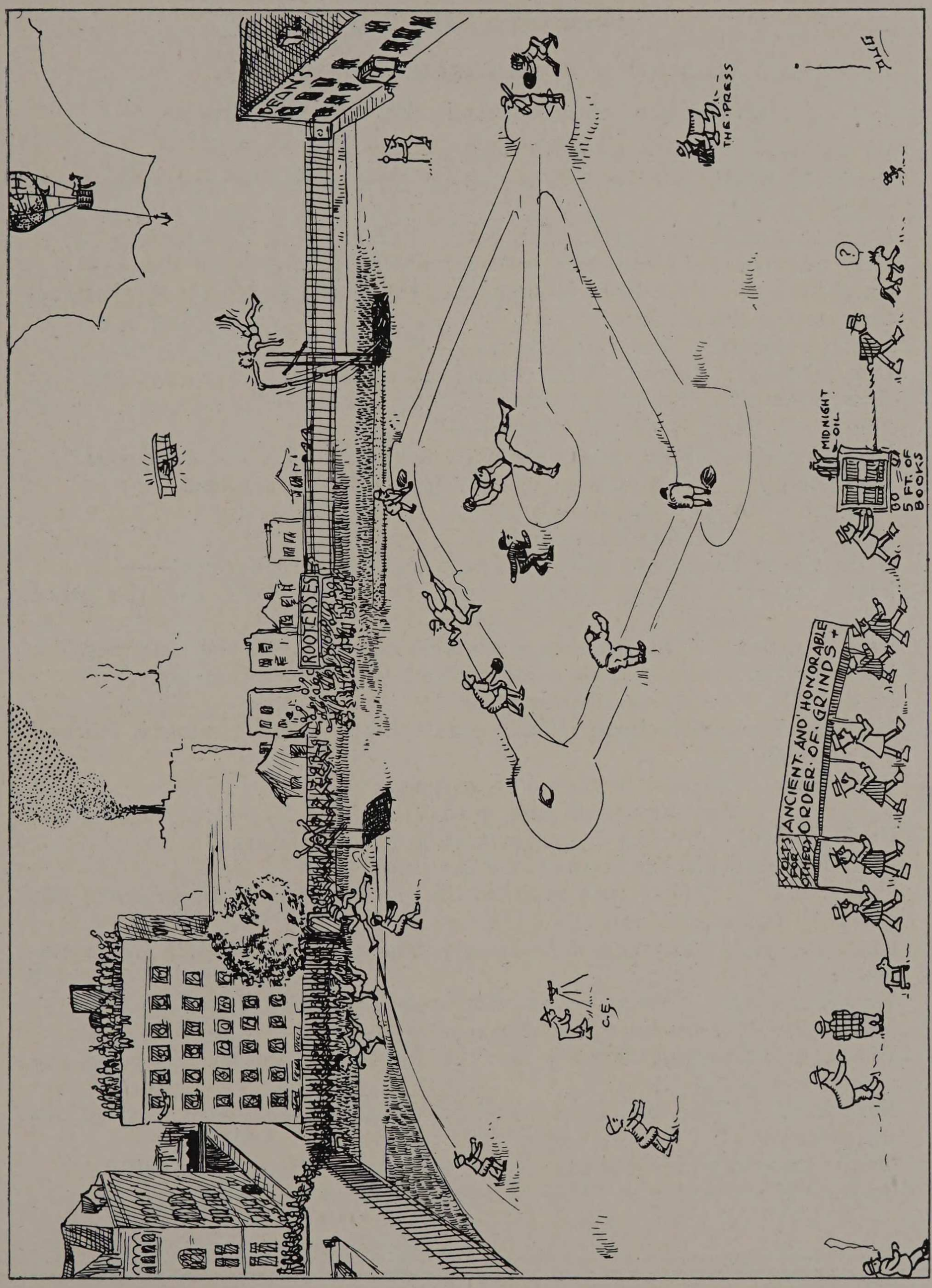
Thou shalt not answer in the affirmative with a shake of the head, and thy tongue whispering yea verily, when the professor asks shall we have a quiz.

NINE.

Thou shalt not covet thy friend's lady friend, for he may be bigger than thou art, and then even the lady may not approve of thee.

TEN.

Thou shalt not covet thy neighbor's chemistry outfit; better far is it that thou go to the store room and let them rob thee, for then the sin will be on their head, not on thine.


ROOTERS
THE PRESS
MIDNIGHT OIL
5 FT. OF BOOKS
ANCIENT AND HONORABLE ORDER OF GRINDS
C.E.

The Line

Sinea Linea Nulla Dies

"'Tis better to afford laughter than to laugh."

(Handed in by the students in the various classes.)

Pa Phillips: "That's the point, well go on."
Prof. Gebhardt: "Now fellows, to all intents and purposes, work rationally."
Dean Monin (beginning of each year): "What is it, Economics?"
Doc. Scherger: "Now, let's have attention, the topic for today—"
Chief Wilcox: "Sit down fellows, that bell is the signal for the Instructor, not for the student."
Doc. Campbell: "The book sa-ays——"
Doc. Thomas: "Sick? Well, come in to the office."
Prof. Shattuck: "Let's get down to brass tacks——"
Kinematic Perry: "If you please——"
Doc. Doubt: "These results are extremely poor. Do the work over."
Prof. Leigh: "Well, now when the Glee club—ad infinitum."
Pa Frith: "Ahuhm—uhm—uhm."
Prof. Paul: "Gentlemen, your hour is up."
B. B. Freud (not base ball): "The four ring carbon series——"
Prof. Smart: "When talking about anything, don't use the word thing."
Prof. Pulsifer: "That silicker is somewhatly off, so is you aluminer."
Chief McCormack: "Wait a minute, we will get to that later."
Prof. Pell: "Today ve vill hav queez."
Machine Design Nachman (leaving at 4:49): "Wait a minute, fellows, it's not 4:50 yet."
Prof. Zorn: "Blessed be they who will not crib.
For they shall pass with 'A'."
Prof. Clifford: "When I was in China—China—China."
Doc. Tibbals: "What seems to be the trouble?"
Prof. Rebori: "That isn't architecture, its rotten and never done, but that's all right, go ahead."
Prof. Cooper: "As you well know, gentlemen, the year 834 B. C., gentlemen——"
Mrs. Beveridge: "Now be sure that book is back by nine-thirty."
Mr. Agle: "This-a-hm-metal-ahm-is-ahm——"
W. G. S. (sometimes known as Prof. Smith): "Versey vichy, as the old woman said."
Prof. Reid: "That line is not true; it is about 1-3425 of an inch off, do the plate over."
Mac. (sometimes McMullen): "Ah, that's the beby, fine as silk."
Business Law Alling: "Well, if you are a friend of the Judge."

SAY CATS ARE FULL OF ELECTRICITY NOW FOR INCATDESCENT LIGHTS



"They put a cat in a gas tank at New London the other day to asphyxiate it, but the electricity in the cat ignited the gas and blew up the tank."

Squeeze the feline's tail, my mother,
Move her up an ohm,
Rub the kitten with a mitten,
Brighten up our home:
String the cats around the parlor,
These are cozy nights,
Hear the purring, never blurring,
Incat-descent lights.



Schommer: Who shall pitch today?

Inviolate

Bacon:—What did your boy learn at college?
Egbert:—Says he can't tell me.
Why not?
Says it's a secret.
Nonsense!
No, you know he learned the college football signals.

Frugal

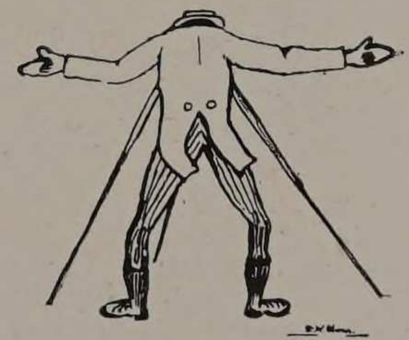
Mrs. Willis:—I'm afraid the young man who married our Emma is parsimonious.

Mrs. Willis:—How so?

Mrs. Willis:—She writes that her honeymoon is scarcely costing her his ten years' salary.

A SHOT FOR EACH DAY IN THE WEEK

Campbell shoots me Monday
And sometimes Tuesdays, too,
McCormack shoots me Wednesday,—
I don't know what to do.
Wilcox shoots me Thursday,
Friday all over the lot.
I never get shot on Saturday,
For I only go to shop.



Our Civil Engineer

REVISED SPELLING CODE OF ARCHITECTVRAL TERMS

KORNIS	EGGZAMNASHVN
ENTABLATOOR	DWYDVRS
LYNTL	ROOLN PIN
ARKITEC HOOR	HYGINZINK
DEZIN	SHADZAN SHADOZ
KONSTRVKCHN	KOLIDGALGBRE
RABOERY	SPEKSHVN WIZITS
AVLDR	KONKREET
AVSTERGRIN	RAWDOO
SHATVK	SHARATE
KALYVM	WATRKVLVRZ
ZEENYORS	FREEHANDRAWN
GVRDVRS	HEETANANWENTALASHN
RYVITT	ZTRENTHOFMTIRIVLS
ANGLION	ATLIAE
TEAR KATTA	WIGNOLY
BLOO PRYNT	WAMTH
ELEWASHN	PHEELING
TANYENT	EZTMATS
THEEZIZ	SPEZFIKASHNS
TEA SKVAR	KLONEEAL
TRY ANGVL	PORT KA SHEAR
MASSIAÉ	SANTASHVN
ENJINEARIN	LEKTRIKAL VIRN
STEAL BEEMS	SKRIPTIF JOMTRY
MEKANIKA DRAVIN	KATHEEDRAL

First Calc Student: "By the pricking of my thumbs."
Second Calc Student: "Something wicked this way comes."
Prof. Campbell heard them and gently stole down the hall.

An Armour Math Song

Math when we were Freshmen,
Math when we were Sophs,
Math when we were Juniors,
And then the damn stuff stops.
We go to Doc's classes for three long years,
And then we think we're Engineers.



The 'Grafting' Room

A FRESHMAN THERE WAS.

(With most profound apologies to Rudyard Kipling.)

A Freshie there was and he smoked his pipe
(Even as you and I.)
A "hank" o' brier and a rubber bit;
We smoked our pipe and didn't care,
But the "Freshie" he smoked because of a dare
(Even as you and I.)

Ah, the "bacca" he burned and the stomach he turned,
And the ache of the head, unforseen,
Belong to the Freshie, who did not know,
And now we know he did not know,
That "bacca" was bad for the "Green."

A Freshie there was and his money he spent
(Even as you and I.)
Nickles and dimes with a sure intent
And the hearts of his mother and dad he rent,
But a Freshie must spend his very last cent,
(Even as you and I.)

Ah, the toil he lost and the study he lost,
And the "devilish" things he planned
Never came off at "Smoker Eve,"
And now we know why they never panned,
The Freshie took sick and had to leave.

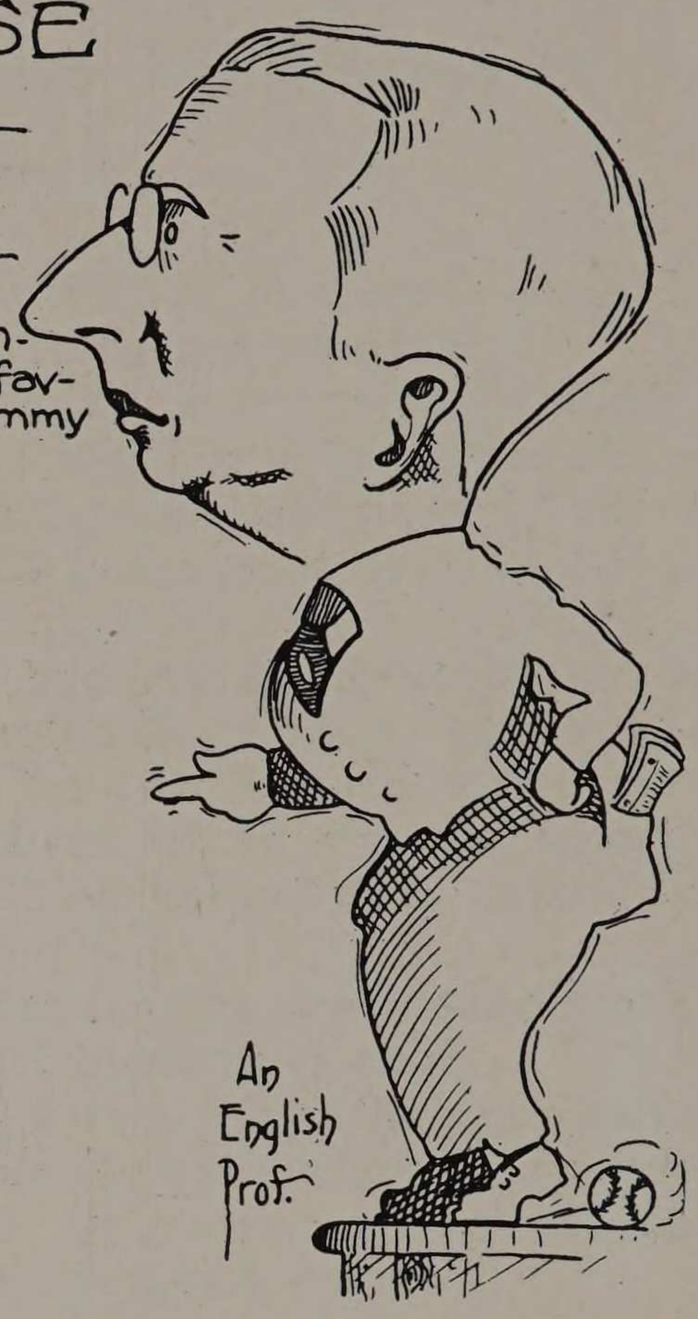
The Freshie should have been stripped to his foolish hide,
(Even as you and I.)
Which the Sophs might have done when he went outside,
And it's also on record that the Sophomores tried;
So some of him lived, but the most of him died;
(Even as you and I.)

But it isn't the ache of the heart and the head,
That hurts to beat the band,
It's coming to know that he could not smoke,
And now we know that he could not smoke,
And be able to walk or stand.

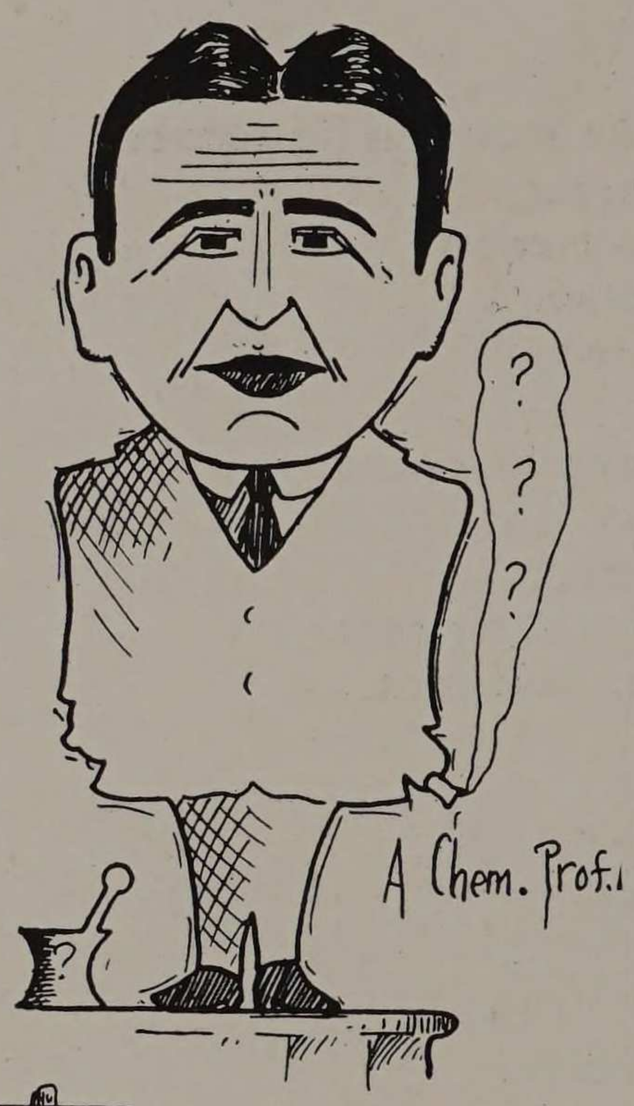
D. B. Lesser, '14.

(Reprinted from Fulcrum, November, 1912.)

AMONG THOSE PRESENT.—



No. 1. — A dealer in antiques. — Some of his wares date back to the flood. His favorite authors are Burns and B.L.T., — favorite Shakespearian actor - Jimmy Callahan, B.B. —



No. 2. — Conducts a semi-annual puzzle contest. His mysterious methods have baffled many, - but his stock of burns, cuts, fumes, noises, odors, and D's, are known to all. —



No. 3 — Should have been a lawyer, - "Quizzit" - is his motto. He is rather superstitious, being a firm believer in sines. His hobbies are mid-irons and melodies.

TO BE OR NOT TO WAS

A play, depicting the examination for Ph. D. Degree.

Dramatic Personae:

G. I. R. A. Chemist. (Humble applicant for appendage.)

Herr Doctor Professor Tetramethyldiamidophenylcarbinol. (Examiner for one of the minor subjects.)

Dr. C. P. Acid. (Examiner for another minor subject.)

Dr. Bankrupt. (Examiner for Major subject.)

Scene: Recitation Room "F."

Thesis written by a chemist is entitled "Studies on the Electric Preparation of Negative Collodial Oxygen Atoms, and the Liberation of Asymetric carbon Atoms from a Solid Solution of Crome Nickel Steel by means of a High Density, using Paper and Glass Electrodes."

Opening Curtain:

Tetra and Bankrupt discovered waiting for C. P. Acid with Candidate. Enter Some Chemist bearing thesis, (bound) size of unabridged dictionary. Candidate nervously goes to board and proceeds to write structural formula of fantastic design. C. P. Acid enters, excuses his tardiness, then examination proceeds by Tetra.

Tetra: What is the difference between a primary, secondary and tertiary alcohol?

Answer: A primary alcohol is one used in primeval times.
A secondary is one used in medieval times and a tertiary is one used in modern times. It is thought that Peruna contains some of the quaterneray as well as some quintary alcohols. (Loud applause from Acid.)

Q. What is a keytone.
A. Middle C.
(Business of G. I. R. A. Chemist trying to produce one.)

Q. What aldehyde is CHO?
A. That ain't a aldehyde, it's sea water.

Q. Give some well known examples of optical activity.
A. A radiometer is active in sunlight, Eva Tanguay is active in limelight. Rube Marquard is laevo rotatory and Mathewson is dextro rotatory.

Q. Who was the originator of Boyle's Law?
A. Job.

Q. State Archimedes' Principle.
A. He didn't have any.

Q. What happens if you add an acid remark to a basic principle?
A. Hot air may be evolved and trouble precipitated.

Q. Define a bachelor in terms of phase rule.
A. A one component system with infinite degrees of freedom.

(Business of nodding by Tetra, a married man.)

(G. I. R. A. Chemist, retreats from stage.)

Profs. debate his case.

This they do by discussing Worlds' Series, Gold, Standard Oil, etc. Then C. P. Acid flips a coin to see whether candidate gets it or gets it in the neck.

C. P. Acid: Ah, dextro rotatory, ladies up, he has passed.

A. Chemist comes in. Tetra: "Brother, we have precipitated you into the land of the Ph. D. physical demons (nix). We will now proceed to initiate you."

Business of bowing and riding goat retort and drinking hot acid on part of A. Chemist.

Curtain.

HEAR YE, HEAR YE, The sale is now on!

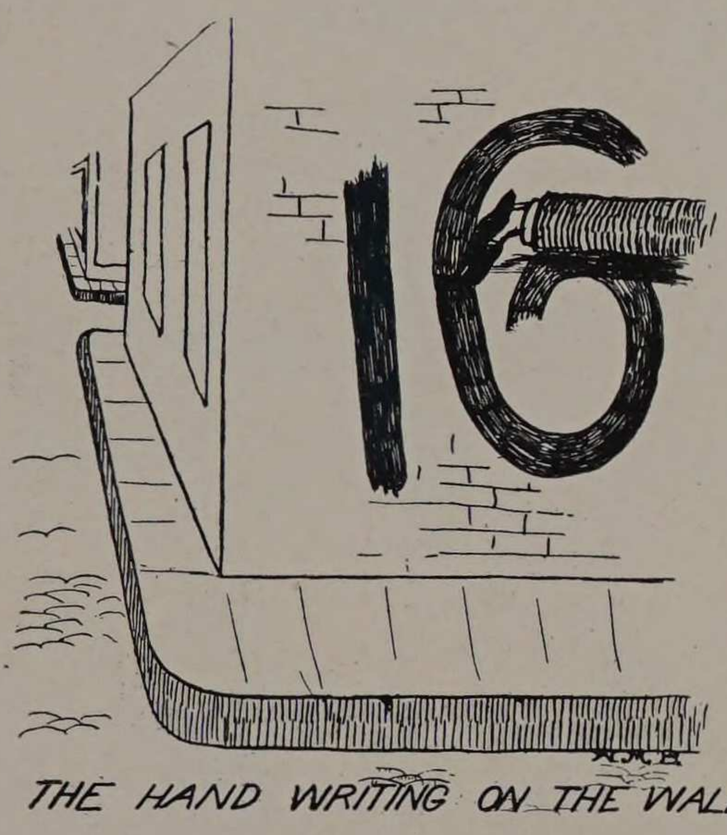
Ladies and gentlemen:—

We are here tonight to call your attention to a most excellent brain food. We come not as knockers of other brands but rather as pioneers in this land of the homeless and wealthy. We wish to introduce to you tonight a food which outrivals all others. Like all the other soups, etc., which have originated in the mind of this wonderful man this, his most excellent latest substitute for brains, meat, water, beer and so forth, will sell at a reasonable price. Ladies, and especially to you gents, we recommend this latest product originated by the marvelous doctor, Ph. D. is his title. Your boy, after taking a few doses of this wonderful food will be capable of building bridges, doing chemical analyses, etc., in fact, after a steady diet of a year, he will be a mathematic shark. I do not wish to take up your time, ladies and gents, just your money; so I will now introduce to you (no samples, given away), this brain food, we offer in condensed form, Campbell's Brain Food, the Calculus at the selling price of $1.90.

Oh, sir, thank you sir, two for $2.50, yes ma'am. Madam, please keep your hand away from that derivative, say buddie, don't touch that sign, it will integrate you. We will now pass around for inspection as free samples Campbell's Differential Equations, for your inspection. Don't hold them longer than four weeks.

Yankee Doodle came to school,
A-riding on a pony,
Though it was against the rule,
He called it "Equi Boni."
He took it into class one day,
But woe the teacher spied it,
He came and took the book away,
Though Yankee tried to hide it.
The moral of the tale, alas!
Is known to every Armour student,
To take your pony into class
Is very far from prudent.
Always keep it out of sight,
Yankee Doodle Dandy,
Pony riding isn't right,
But, "Literals" may be handy.





THE HAND WRITING ON THE WALL



Prof. Leigh's, Continued from Time to Time.

We've heard this numerous times and we have had it handed us more times. So we must print it.

"You know, fellows, if you don't study, you cannot possibly get thru, just like a carpenter. If he uses dull tools, he'll build a rough house. Eh?"

There once was a young man named Clyde,
Who by chance at a funeral was spied,
When asked who was dead,
He laughingly said:
"I don't know, I just came for the ride."



I OTA KOPPA PIE

Chapter Roll,
Alpha, Jelly Roll
Beta, Armour
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Escutcheon: A Junior rampant upon a piece of pie.
Pass word: "I kopt the pie."
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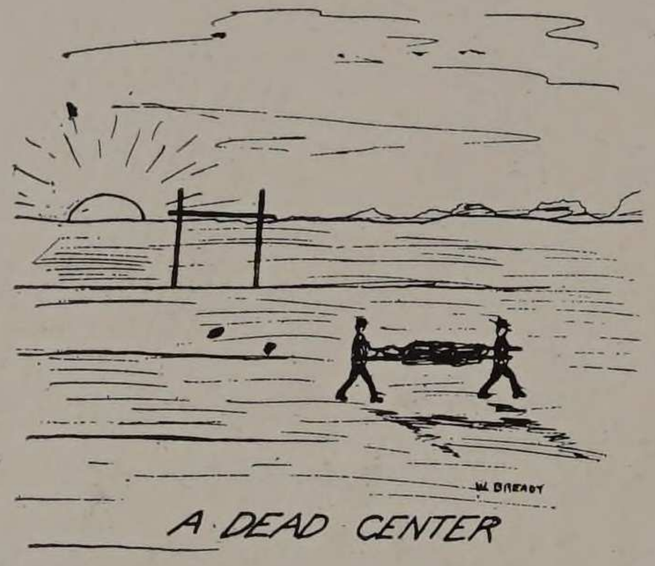


THE INVENTOR OF THE COLLEGE YELL.

Right here, good folks, in the padded cell,
Is the man who invented the college yell,
A pitiful sight, as you all can see,
And a doleful wreck of a man is he.



He tears his hair with a Sis-boom-bah
And rends the air with a Rah-rah-rah;
And mumbles and jumbles and screams and cries—
See his swelling throat and blood-shot eyes.
All day he yells, and at night he howls,
And up from his neck comes fearful growls,
As though he remembers the campus where
The din of the yelling filled the air.
He grins at you with a vacant eye,
And thinks you're a brother of Pi Phi Si.
He makes a sign that the fellows know and waits to see if it's really so;
Then he thinks it is, and his great lungs swell,
With a rush of air and an old-time yell,
And his cheeks puff out and his mouth swings wide,
And a rush of sound from the far inside
Of his mighty chest, strikes on the air,
And your heart beats fast with a dreadful fear;
But you need not run from the frightful noise,
For he's only one of the "Rah-rah Boys."



A DEAD CENTER

A FOOTBALL HERO.

He made a run around the end,
Was tackled from the rear,
The right guard sat upon his neck
The fullback upon his ear.

The center sat upon his legs,
Two ends upon his chest,
The quarter and the halfback then
Sat down on him to rest.

The left guard sat upon his head,
The tackle on his face,
The coroner was then called in
To sit upon his case.

Frosh: I think this is all right now, sir.

Pa Reid: (After squinting under the square). No, not quite: its about 1-1,000,000,000,000,000 of an inch off.

Dr. Harvey Wiley predicts that twenty years from now the world will be run by alcohol, wind and water; if he'll cut out the wind and add a little sugar we'll take some of his dope right now.

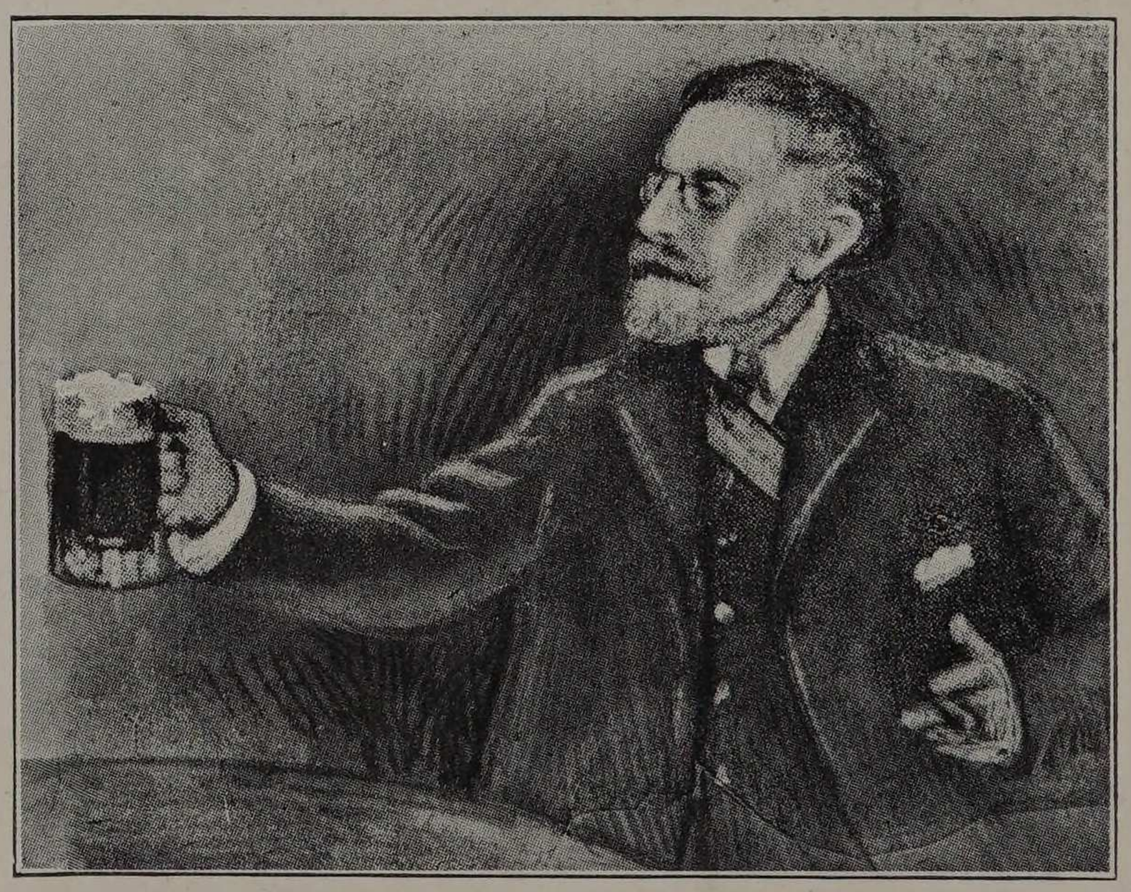
Smith: " How is your infinity?" (Affinity)

Eckert: "Oh, She's the limit."

Podunk Lawyer: "Was the sore mule killed when the fast express hit him?"

Si Dike: "No, but he didn't eat for a month."

Podunk Lawyer: "According to that you owe the railway company about $40.00 for the fodder you saved."



"AUF IHR WOHL."

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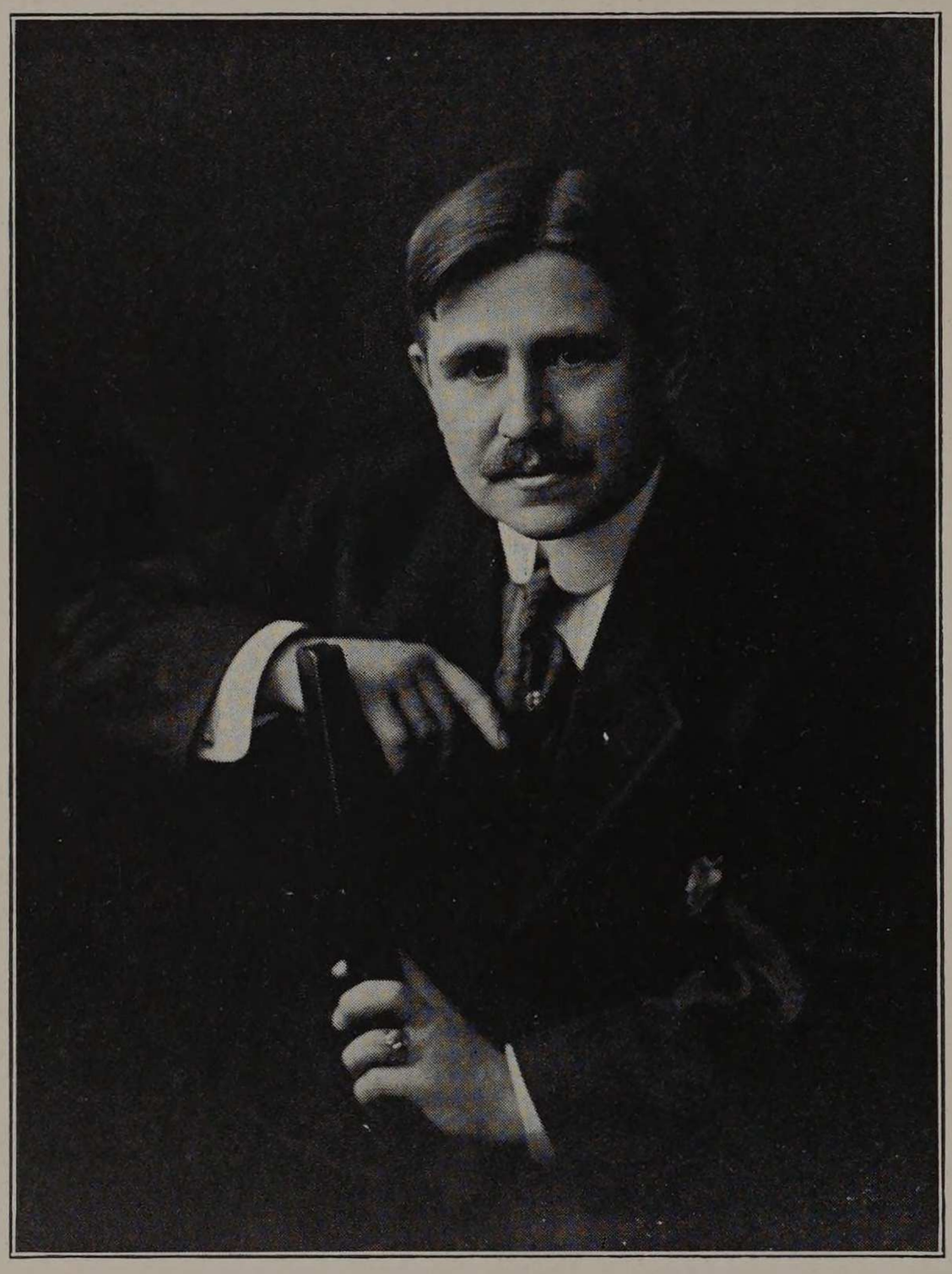
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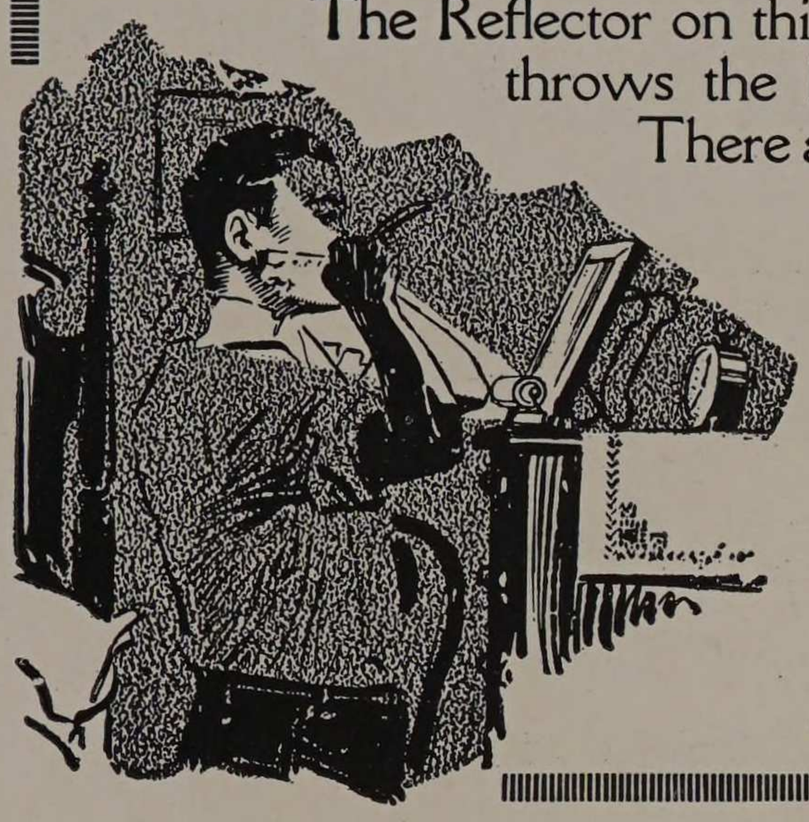
May he hope to remain in that capacity to you and your friends—after College days are over.

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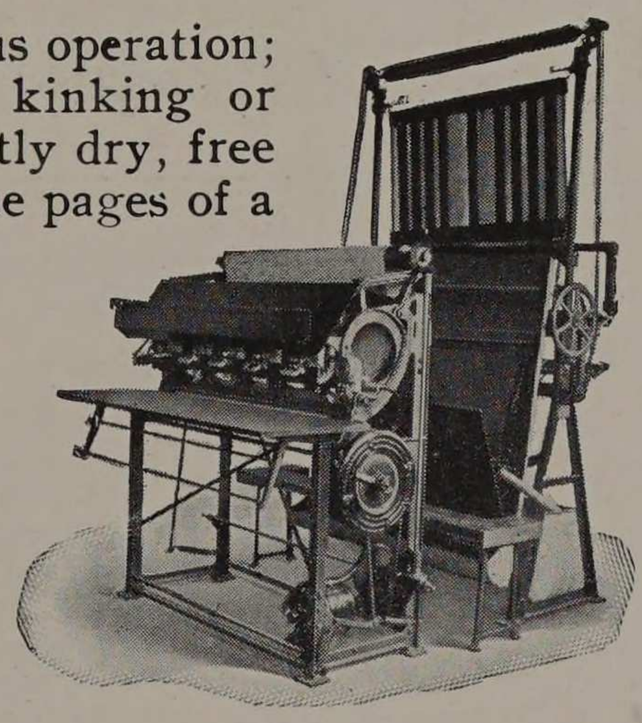
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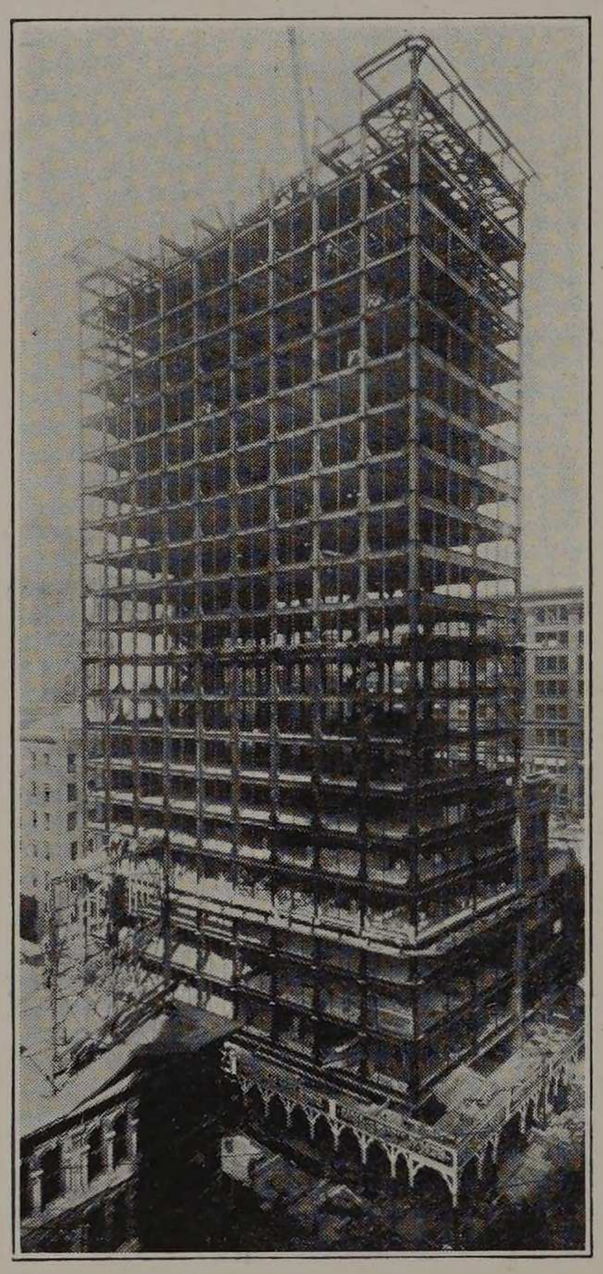
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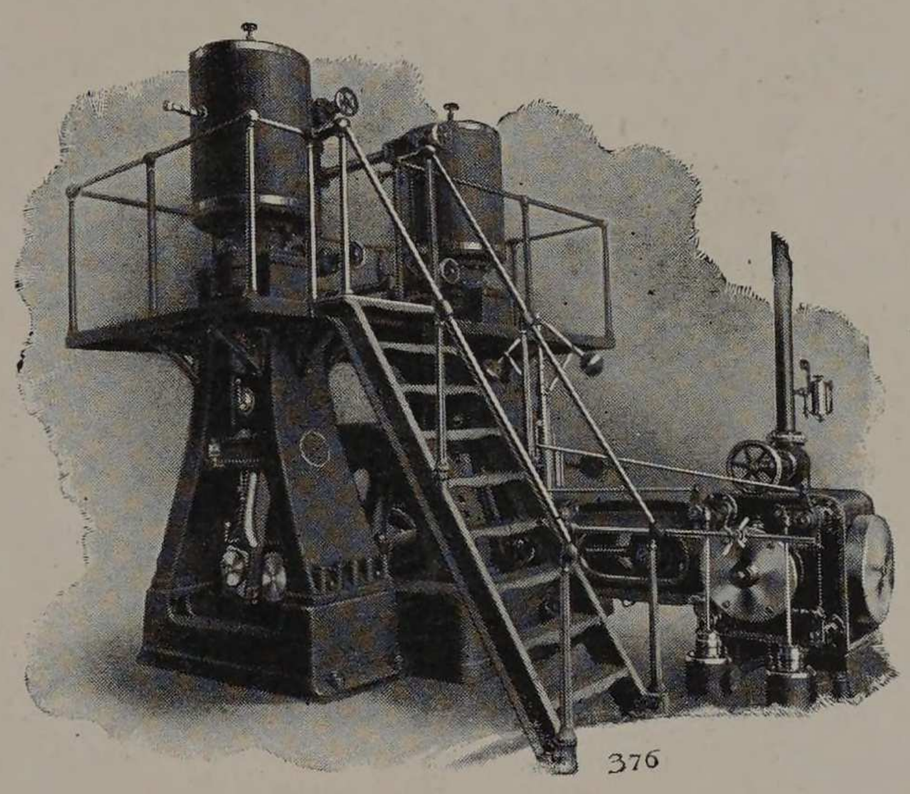
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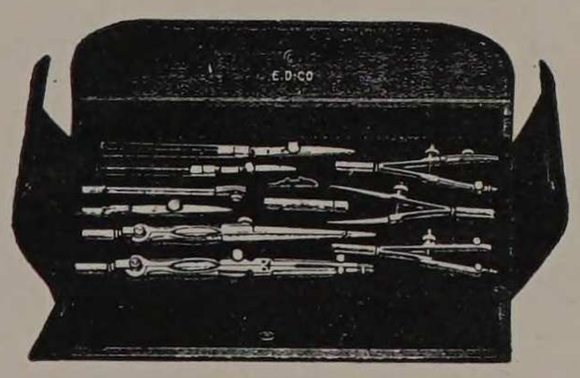


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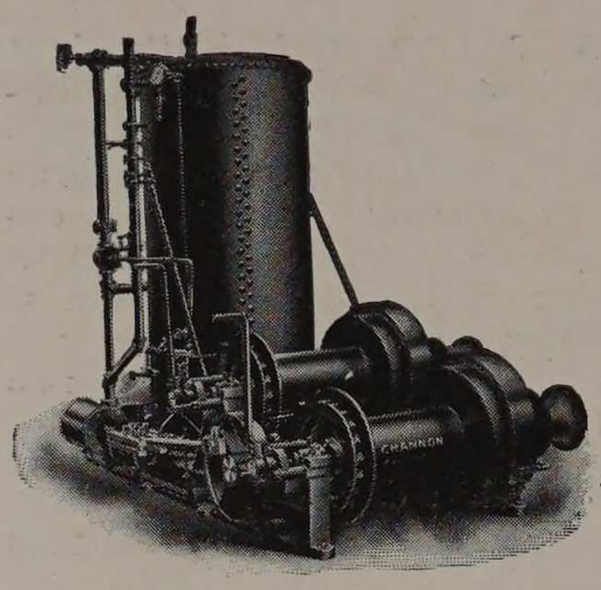
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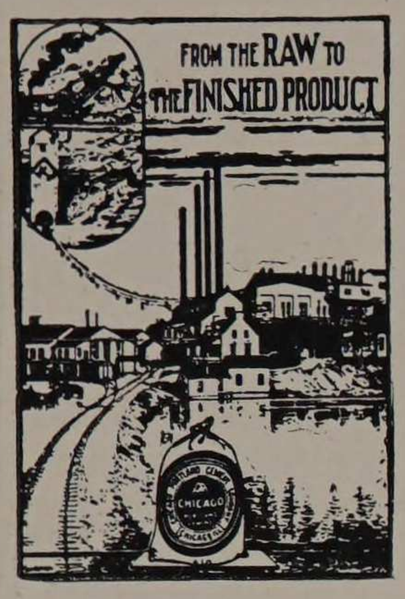
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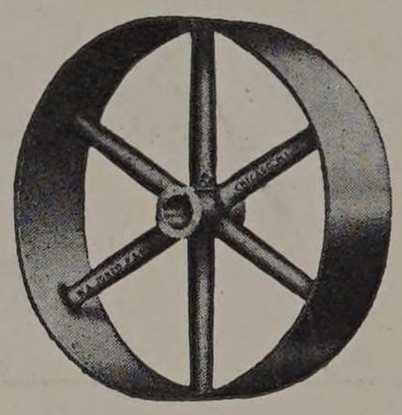
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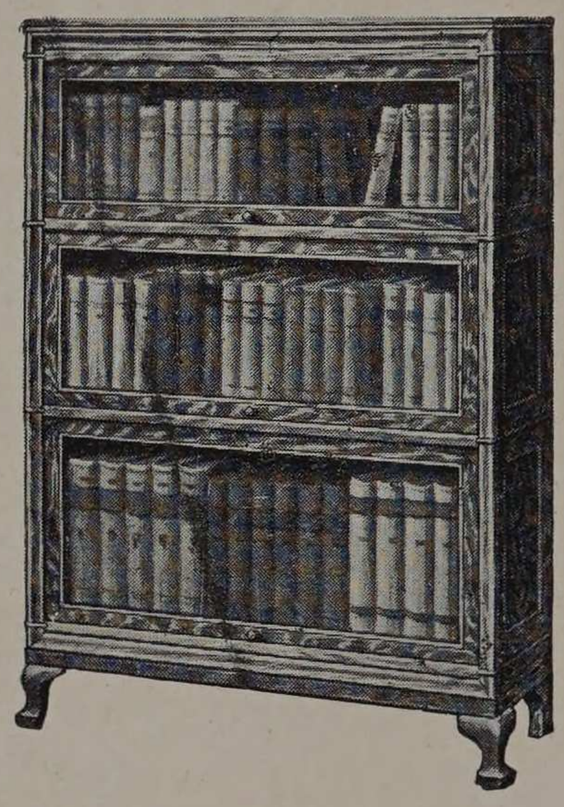
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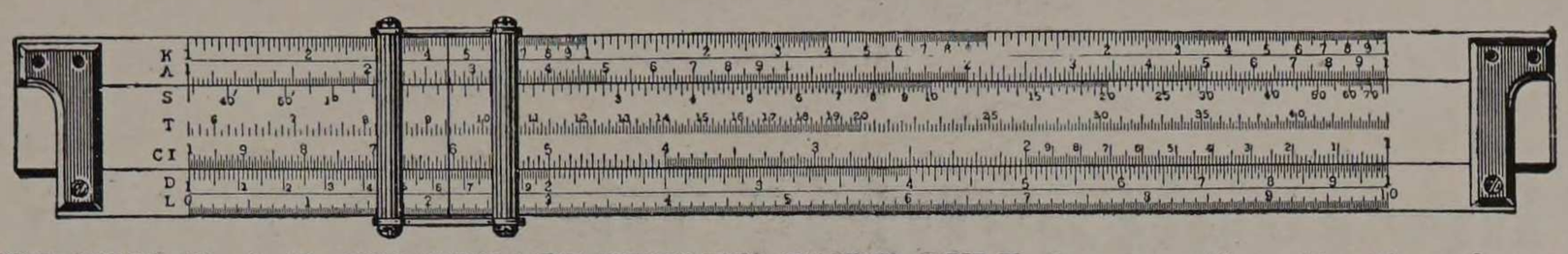
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