1912

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1912



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A. D. GIBBS.

To

Howard Monroe Raymond

Dean of Engineering Studies

Administrator

Counselor

Friend

this book is gratefully dedicated

by the Class of 1912

HOWARD MONROE RAYMOND

THE DEAN OF ENGINEERING STUDIES

Birthplace, Grass Lake, Michigan. B. S. (E. E.), University of Michigan, 1893. Rockford Electrical Manufacturing Company, 1893-1894. Post-graduate work in Physics and Electrical Engineering, University of Michigan, 1894 and 1895. Appointed Director of Manual Training School, Ishpeming, Michigan, 1895. Resigned to accept position as Instructor in Physics at Armour Institute of Technology, 1895. Associate Professor of Physics, Armour Institute of Technology, 1898-1903. Principal of Armour Scientific Academy, 1900-1903. Professor of Experimental Physics, 1903. Dean of Engineering studies, 1903 to date. Member of Phi Delta Theta and Tau Beta Pi Fraternities. Associate Member of American Institute of Electrical Engineers. Member of Society for the Promotion of Engineering Education, American Association for the Advancement of Science, and Western Society of Engineers. Residence, 6522 Monroe Avenue, Chicago.





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Birthplace, Chesterfield, Ohio. A.M., Ohio Wesleyan University, 1875. D.D., Beloit College, 1895. LL.D., Ohio Wesleyan University, 1906. Beta Theta Pi. Member of American Social Science Society, Academy of Arts and Sciences, etc. Author of "Phidias and Other Poems," "Songs of Night and Day," "Transfiguration of Christ," "Monk and Knight," "Life of William Ewart Gladstone," "Metamorphosis of a Creed," "November at Eastwood," "Loose Leaves of Song," "The Man of Galilee," "Paths to Power," "Higher Ministries of Recent English Poetry" and "Paths to the City of God." Residence, 2900 Prairie Ave.

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FREDERICK URLING SMITH

Birthplace, Manchester, England. Private Schools in England. Bonn University. Identified with Armour & Co. for 26 years. Assistant Treasurer and Business Manager of Armour Institute of Technology, 1893. Comptroller, 1902. Residence, 710 E. 51st St.

THE DEAN OF THE CULTURAL STUDIES

LOUIS CELESTIN MONIN

Birthplace, Berne, Switzerland. Universities of Leipzig and Zurich, 1878-1882. University of Heidelberg, 1886-1888. Ph.D., University of Lake Forest, 1891. National Secretary and Treasurer of Zofingia (Fraternity) of Switzerland. President of the Department of Technical Education within the National Educational Association, 1907-1909. Member of National Educational Association, American Economic Association, American Sociological Association, Western Philosophical Society, American Psychological Association, Society for the Promotion of Engineering Education, and Chicago Literary Club. Author of various papers and articles on educational, economic, and philosophical topics. Residence, 3250 Prairie Avenue.

THE DEAN OF THE ENGINEERING STUDIES

HOWARD MONROE RAYMOND

Birthplace, Grass Lake, Michigan. B. S., University of Michigan, 1893. Postgraduate work in Physics and Electrical Engineering, University of Michigan, 1894. Phi Delta Theta. Tau Beta Pi. Member of the Society for the Promotion of Engineering Education, Western Society of Engineers; Associate Member, American Institute of Electrical Engineers, and American Association for the Advancement of Science. Residence, 6522 Monroe Avenue.

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The Faculty
An Appreciation

To the faculty, we, the members of the class of 1912, greatly appreciating their enthusiasm, their ability, their true sense of values, and above all their generous and sympathetic companionship, wish continued success and a long and honored life.


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ALFRED EDWARD PHILLIPS

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. Phi Delta Theta. Sigma Xi. Member of American Society of Civil Engineers. Residence, 1206 Morse Avenue, Rogers Park, Illinois.

"That's the point, well—."

GEORGE FREDERICK GEBHARDT

Professor of Mechanical Engineering

Birthplace, Salt Lake City, Utah. A. B., Knox College, 1895. M. E., Cornell University, 1896. A. M., Knox College, 1897. Phi Delta Theta. Member of American Society of Mechanical Engineers, Western Society of Engineers, and National Association of Stationary Engineers. Residence, 5329 Kimbark Avenue.

"To all intents and purposes, work it out rationally."

GEORGE LAWRENCE SCHERGER

Professor of History and Political Science

Birthplace, Lawrenceburg, Indiana. A. B., University of Indiana, 1894. Universities of Leipzig and Berlin. Ph. D., Cornell University, 1899. Member of North Central History Teachers' Association and American Historical Association. Author of "Evolution of Modern Liberty." Residence, 6727 Perry Avenue.

"Now let's have attention."

GUY MAURICE WILCOX

Professor of Physics

Birthplace, Kansas City, Kansas. A. B. Carleton College, 1891. A. M., University of Wisconsin, 1902. Fellow of the American Association for the Advancement of Science and American Physical Society. Research work on Optical Properties of Solutions. Residence, 5225 Ingleside Avenue.

"That bell is the signal for the instructor and not the student."



DONALD FRANCIS CAMPBELL

Professor of Mathematics

Birthplace, Nova Scotia. B. A., Dalhousie College, Halifax, Nova Scotia, 1890. A. B., Harvard University, 1893; A. M., 1895; Ph. D., 1898. Member of the American Mathematical Society. Author of "The Elements of Differential and Integral Calculus," "A Short Course in Differential Equations," and other textbooks and mathematical papers. Residence, 1134 Oak Avenue, Evanston, Illinois.

"Now, the book sa-ays—"

FITZHUGH TAYLOR

Professor of Fire Protection Engineering

Birthplace, Elmhurst, Illinois. B. S., Armour Institute of Technology, 1900. Member of National Fire Protection Association and Chicago Literary Club. Residence, 4402 Greenwood Avenue.

HENRY BASCOM THOMAS

Medical Adviser and Director of Physical Culture

Birthplace, Elk Garden, Vermont. B. S., University of Chicago, 1899. M. D., Northwestern Medical School, 1903. Student K. K., Allgemeines Krankenhaus, Vienna, Austria. Member of Attending Staff of Cook County and Wesley Hospitals and Home for Destitute Crippled Children. Orthopedic Surgeon, Provident Hospital. Instructor of Orthopedic Surgery, N. W. U. Medical School. Kappa Sigma, Phi Rho Sigma. Member of Medical Association, and Illinois State and Chicago Medical Societies. Medical School Supervisor, City of Chicago. Residence, 6530 Lexington Avenue.

"Come down to my office."

WALTER FRANCIS SHATTUCK

Professor of Architecture

Birthplace, Champaign, Illinois. B. S., University of Illinois, 1891. Member of Chicago Architectural Club. Residence, 4743 Kenwood Avenue.

"Getting right down to brass tacks, etc."



HARRY M'CORMACK

Professor of Chemical Engineering

Birthplace, Spencer, Iowa. B. S., Drake University, 1896. M. S., University of Illinois, 1899. Member of American Chemical Society, American Society for Testing Materials, and American Electro-Chemical Society. Author of "Bulletin U. S. Department of Agriculture on Losses in Cooking Meat," "Chemical Study of Water Supply of Des Moines," "Chemistry of Iowa Building Stone," "Chemical Study of Melting Iron in the Foundry Cupola," "Radiation Losses from a Foundry Cupola," "A Laboratory Course in Industrial Chemistry," and "Extracting Sugar from Dried Beet Cossettes." Residence, 5229 Ingleside Avenue.

"Just wait a minute, we'll come to that later on."

ERNEST HARRISON FREEMAN

Professor of Electrical Engineering

Birthplace, Topeka, Kans. B. S., Kansas State Agricultural College, 1895. Kansas State Normal School, 1897. B. S., Armour Institute of Technology, 1902; E. E., 1905. Secretary of Armour Branch of American Institute of Electrical Engineers. Residence, 7026 So. Park Avenue.

"That'll be sufficient on that."

JOHN EDWIN SNOW

Associate Professor of Electrical Engineering

Birthplace, Athens, Ohio. B. S., Ohio University, 1892; M. S., 1896; E. E., Armour Institute of Technology, 1901; A. M., Ohio University, 1904. Member of American Institute of Electrical Engineers. Author of "Senior Dynamo Laboratory Manual." Residence, 501 East 60th Street.

"Has anyone had any experience with this?"

MELLVILLE BAKER WELLS

Associate Professor of Bridge and Structural Engineering

Birthplace, Comiskey, Indiana. B. S., Purdue University, 1894; C. E., 1895. Phi Delta Theta. Tau Beta Pi. Member of Western Society of Engineers. Residence, 11310 Geneva Avenue, Morgan Park, Illinois.

"Well-l-l, that'll do."



ROBERT VALLETTE PERRY

Associate Professor of Machine Design

Birthplace, Hartford, Connecticut. B. S., Armour Institute of Technology, 1897. M. E., 1901. Tau Beta Pi. Omega Lambda. Residence, 436 W. 66th Street.

"If you please."

THOMAS EATON DOUBT

Associate Professor of Physics

Birthplace, Louisville, Kentucky. B. S., Nebraska Wesleyan University, 1892. A. M., University of Nebraska, 1896. Ph. D., University of Chicago, 1904. Fellow in Physics, University of Nebraska, 1894-1897. Fellow in Physics, University of Chicago. Sigma Xi. Fellow of the American Association for the Advancement of Science. Member of American Physical Society. Research work on "Effect of Intensity upon Velocity of Light and on the Determination of the Absolute Color Equation of White Light." Residence, 5402 Drexel Avenue.

"These results are decidedly poor, you had better work the experiment over again."

CHARLES WILBUR LEIGH

Associate Professor of Mathematics

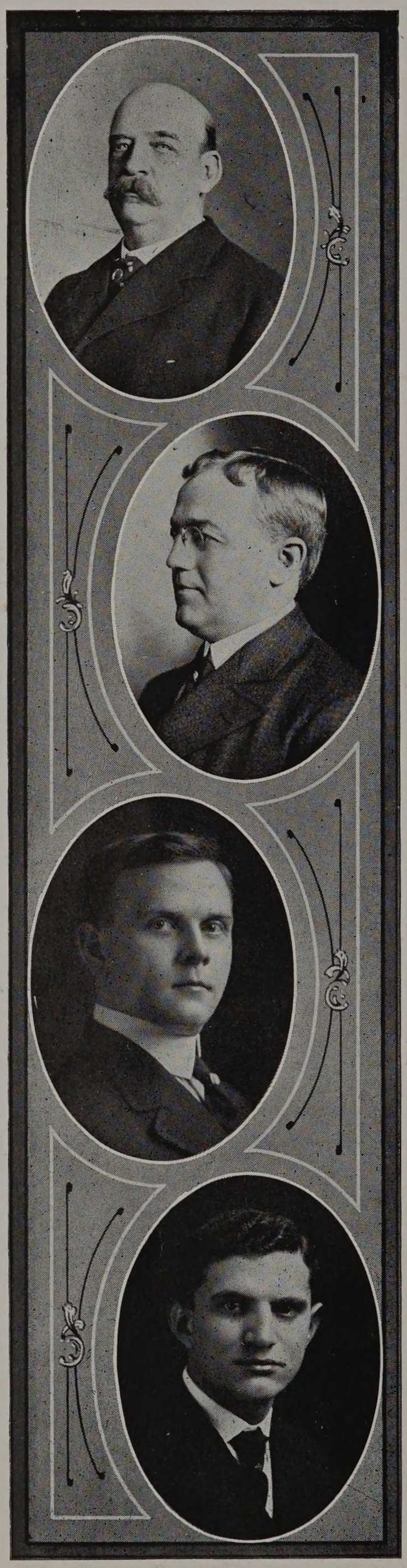
Birthplace, Peoria, Illinois. B. S., University of Illinois, 1897. University of Chicago. Phi Gamma Delta. Tau Beta Pi. Author of Textbooks on Solid Geometry and Trigonometry. Residence, 7320 Lafayette Avenue.

"I think the boys did very well considering their lack of practice."

JOSEPH BERNARD FINNEGAN

Associate Professor of Fire Protection Engineering

Birthplace, Stoneham, Massachusetts. S. B., Massachusetts Institute of Technology, 1904. Member of National Fire Protection Association. Residence, 114 East 50th Street.



ARTHUR J. FRITH

Associate Professor of Mechanical Engineering

Birthplace, Philadelphia, Pennsylvania. C. E., Rensselaer Polytechnic Institute. Member of American Society of Mechanical Engineers. Assistant Professor of Mechanical Engineering at Lehigh University. Assistant Chief Engineer, Diesel Engine Company. Residence, 56 East 36th Place.

"Uhm-m-m-m-m."

CHARLES EDWARD PAUL

Associate Professor of Mechanics

Birthplace, Belfast, Maine. S. B., Massachusetts Institute of Technology. Theta Xi. Member of American Society of Mechanical Engineers, American Society for Testing Materials, and Society for the Promotion of Engineering Education. Original Research on "Chimney Drafts" and "Strength of Materials." Residence, 6355 Ingleside Avenue.

"Gentlemen, your hour is up."

DAVID PENN MORETON

Associate Professor of Electrical Engineering

Birthplace, Moscow, Ohio. Ohio State University, '01-'02 and '02-'03. B. S., Armour Institute of Technology, 1906; E. E., 1910. Member of Society for the Promotion of Engineering Education. Member American Institute of Elictrical Engineers. Tau Beta Pi. Author of "Practical Applied Electricity." Residence, 56 West 34th Street.

"We'll have a quiz today."

BENJAMIN BALL FREUD

Associate Professor of Analytical and Organic Chemistry

Birthplace, Chicago, Illinois. B. S., University of Chicago, 1904. Graduate student of Chicago University. Phi Beta Kappa. Sigma Xi. Member of American Chemical Society. Research work in Organic Chemistry. Physio-organic research on the "Salt effect" in Catalysis. Residence, 2519 North Spaulding Avenue.

"Well, be that as it may."



WALTER KAY SMART
Professor of English

Birthplace, Payson, Illinois. Shurtleff College and Northwestern University. Ph. B., University of Chicago, 1902. Ph. D., University of Chicago, 1911. Residence, 1122 East 54th Place.

"Never use the word 'thing' when talking about anything."

HARRIE BRIDGMAN PULSIFER
Instructor in Metallurgy

Birthplace, Lebanon, New Hampshire. B. S., Massachusetts Institute of Technology. Member, American Chemical Society, American Institute of Mining Engineers, American Association for the Advancement of Science. Contributor to Salt Lake Mining Review. Author of "Important Factors in Blast Roasting." Mining Expert for Consular Reports on Zinc Deposits in Mexico. Residence, 511 East 33rd Street.

"If the copper is 50% of the matte, then the matte is twice as much as the copper."

AUGUST RAYMOND ZORN
Assistant Professor of Modern Languages

Birthplace, Brooklyn, New York. A. B., Dennison University, 1899. Postgraduate student of University of Chicago, 1899-1900. University of Marburg, Germany, 1901. Residence, 4007 Grand Boulevard.

"German as she is rot."

HENRY LEOPOLD NACHMAN
Assistant Professor of Kinematics and Machine Design

Birthplace, Sommerfeld, Germany. B. S., Armour Institute of Technology, 1902; M. E., 1906. Tau Beta Pi. Residence, 115 East 58th Street.

(Reaching for his hat at 4:48) *"It's not 10 minutes to five yet."*



OLIVER CHARLES CLIFFORD

Assistant Professor of Electrical Engineering

Birthplace, Wadsworth, Ohio. A. B., Oberlin College, 1893. Cornell University. University of Pennsylvania. Ph. D., University of Chicago, 1907. Sigma Chi. Member of American Society of Mechanical Engineers. Residence, 6020 Monroe Avenue.

"When I was in China."

HERBERT JULIUS ARMSTRONG

Assistant Professor of Railway Engineering

Birthplace, Sunderland, Massachusetts. B. S., Massachusetts Agricultural College, 1897. Phi Sigma Kappa. Member of American Railway Engineering and Maintenance of Way Association. Residence, 11337 Crescent Avenue, Morgan Park, Illinois.

"And now the ide-e-er is."

ALEXANDER PELL

Associate Professor of Mathematics

Birthplace, Moscow, Russia. Ph. D., Johns Hopkins University. Phi Beta Kappa. Author of "Memoirs on Differential Geometry" in American Journal of Mathematics and in Transactions of American Mathematical Society. Residence, 3427 South Park Avenue.

"Isst not so?"

WILLIAM EDWARD BARROWS, Jr.

Assistant Professor of Electrical Engineering

Birthplace, Ludlow, Vermont. B. S., University of Maine, 1902; E. E., 1908. Member of American Institute of Electrical Engineers, Illuminating Engineering Society, and Society for the Promotion of Engineering Education. Author of "Electrical Illuminating Engineering." Beta Theta Pi. Residence, 6137 Evans Avenue.



CHARLES AUSTIN TIBBALS, Jr.

Assistant Professor of Chemistry

Birthplace, New York. Columbia University. A. B., University of Wisconsin, 1904; A. M., 1906; Ph. D., 1908. Phi Gamma Delta. Phi Lambda Upsilon. Sigma Xi. Member of American Chemical Society and American Association for the Advancement of Science. Original research, "A Study of Tellurides." Residence, 1547 East 66th Street.

"What seems to be your trouble?"

CLAUDE IRWIN PALMER

Assistant Professor of Mathematics

A. B., University of Michigan, 1903. University of Chicago. Member of the American Association for the Advancement of Science and the National Society for the Promotion of Industrial Education. Residence, 4346 Champlain Avenue.

ARTHUR HENRY ANDERSON

Assistant Professor of Experimental Engineering

Birthplace, Chicago, Illinois. B. S., Armour Institute of Technology, 1902; M. E., 1907. Residence, 6826 Wayne Avenue, Rogers Park, Illinois.

ANDREW NICHOLAS REBORI

Associate Professor of Architecture

Birthplace, New York. S. B., Massachusetts Institute of Technology, 1907. Holder of 1907 Travelling Scholarship in Architecture, Massachusetts Institute of Technology. Member of Alumni Association of American Academy in Rome. Representative for Chicago of the Beaux-Arts Society of New York. Beaux-Arts. Residence, 5636 Washington Avenue.

"It isn't architecture; it's rotten and never done; but that's all right, just go ahead."



CLYDE BARNES COOPER

Assistant Professor of English

Birthplace, Prairie City, Illinois. A. M. Residence, 6149 Ellis Avenue.

"As you all know, gentlemen."

MRS. JULIA A. BEVERIDGE

Librarian and Instructor in Bibliography

Birthplace, Beloit, Wisconsin. Residence, 3901 Lake Avenue.

"Be sure and have that book in before nine o'clock."

EDWARD DIEHL AGLE

Superintendent of Shops and Instructor in Machine Tool Work

Birthplace, Greencastle, Pennsylvania. Residence, 635 East 41st Street.

"And now—uhm—gentlemen—uhm—we'll take this—uhm—piece of metal."

WILLIAM WAY MANNING

Instructor in English

Birthplace, St. Louis, Missouri. Residence, 39 West 33rd Street.

"Fore."

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, 7223 Union Avenue.

"See-what-I-mean?"

WILLIAM GRISWOLD SMITH

Assistant Professor of Descriptive Geometry and Kinematics

Birthplace, Toledo, Ohio. M. E., Cornell University, 1892. Delta Kappa Epsilon. Residence, 6758 Perry Avenue.

"Versy vicy, as the old woman says."

DANIEL ROESCH

Instructor in Experimental Engineering

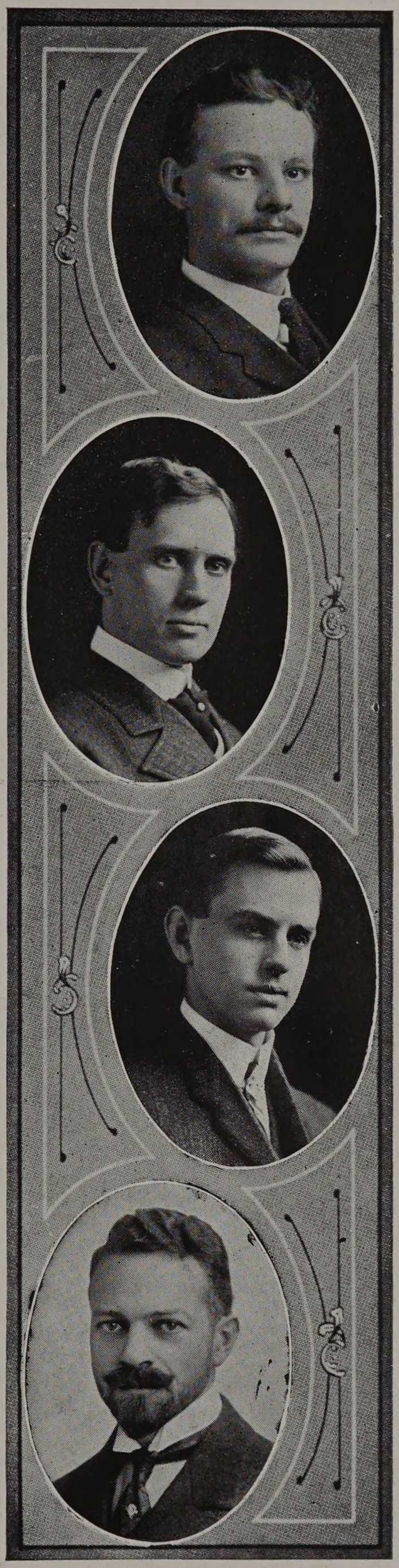
Birthplace, Aurora, Illinois. B. S., Armour Institute of Technology, 1904. M. E., 1908. Westinghouse Machine Co. Member American Gas Institute and Natural Gas Association of America.

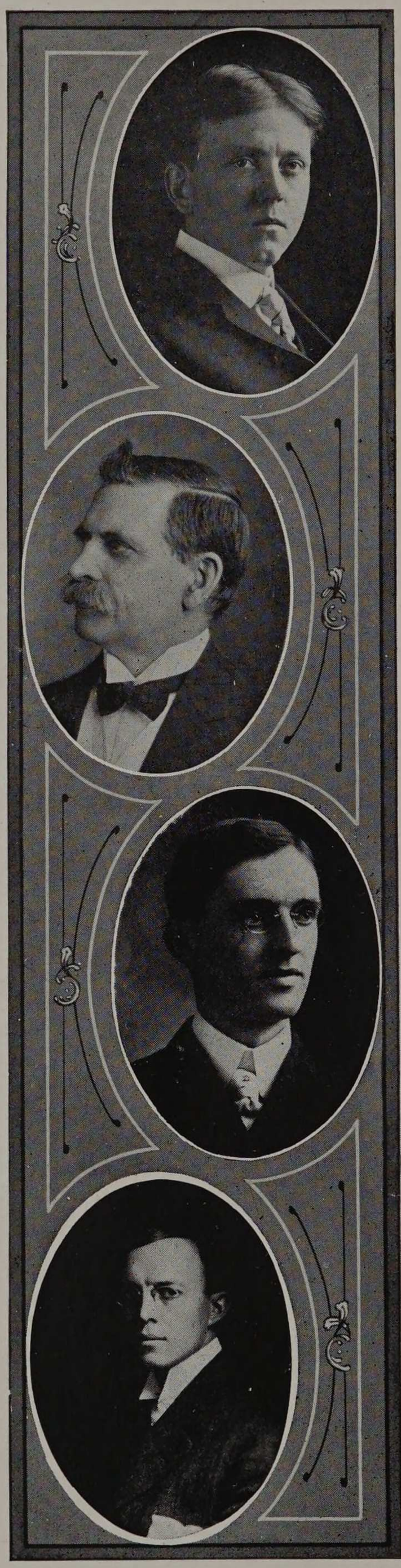
JOHN RINKER KIBBEY

Instructor in Architectural Drawing

Birthplace, Wollaston, Massachusetts. B. S., M. S., Massachusetts Institute of Technology. Theta Xi.

"Can't you read, use your head."





CHARLES FREDERICK HAGENOW

Instructor in Physics

Birthplace, Altona, Germany. B. S., University of Nebraska, 1900; A. M., 1906. Sigma Chi. Residence, 1120 East 54th Place.

JOHN SIMPSON REID

Assistant Professor of Mechanical Drawing and Elementary Machine Drawing

Birthplace, Kilmanock, Ayrshire, Scotland. Irvine College, British Government Science and Art Schools, Glasgow, Scotland. Member of American Society of Mechanical Engineers. Author of "A Course in Mechanical Drawing" and "Machine Drawing and Elementary Machine Design." Residence, 43 West 33rd Street.

"That line is 1-32 of an inch off; do the plate over."

CHARLES ROSCOE SWINEFORD

Instructor in Machine Design

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

THOMAS E. TALLMADGE

Lecturer on History of Architecture

Birthplace, Washington, D. C. S. B., Massachusetts Institute of Technology, 1898. Winner of Chicago Architectural Travelling Scholarship, 1904. Phi Beta Epsilon. Member of the Chicago Architectural Club and University Club.

"That's a perfect little gem."

GEORGE EVERETT MARSH

Instructor in Electrical Engineering

Birthplace, Georgetown, Colorado. B. S., Massachusetts Institute of Technology, 1902. Member of the American Institute of Electrical Engineers, American Electro-Chemical Society, Illuminating Engineering Society, American Fern Society, and Microscopical Society. Papers on "Algebraic Equations of Lissajou's Curves of All Orders," "New Theorems in Combinations," "High Potential Interrupters," "Machines for Describing Curves," etc. Residence, 446 East 34th Street.

"Is it not so?"

JAMES CLINTON PEEBLES

Instructor in Experimental Engineering

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

"A Strike."

STANLEY DEAN

Instructor in Civil Engineering

Birthplace, Manchester, England. Washington University, 1901-1903. B. S., Armour Institute of Technology, 1905; C. E., Beta Theta Pi. Associate Member American Society of Civil Engineers. Residence, 7217 Perry Avenue.

"And, now you see."

CHARLES EDWARD BOUTWOOD

Instructor in Freehand Drawing

Birthplace, London, England. Studied in South Kensington Museum. Scholarship, Royal Academy School, London. Studied in Paris under Bouguereau and Fleury. Member of Chicago Society of Artists. Residence, Hinsdale, Illinois.

"Get a little warmth into it."





EUGENE EDWARD GILL

Instructor in Analytical Chemistry

Birthplace, Boring, Maryland. Ph. B., Dickinson College, 1897; A. M., 1898. Ph. D., Johns Hopkins University, 1909. Phi Beta Kappa. Research on "Determination of Osmotic Pressure of Cane Sugar Solutions at Five Degrees Centigrade." Member of American Chemical Society. Residence, 6125 Vincennes Avenue.

"Well-l-l."

EARL WATSON McMULLEN

Instructor in Metallurgy and Industrial Chemistry

Birthplace, Picton, Ontario, Canada. B. S., Armour Institute of Technology, 1909. Tau Beta Pi. Omega Lambda. Member of American Chemical Society and Sphinx. Research on "Manufacture of Sugar." Residence, 6216 Greenwood Avenue.

"Ver-ry smooth and silky."

HAROLD WILLIAM NICHOLS

Instructor in Electrical Engineering

Birthplace, Sheffild, Iowa. B. S., Armour Institute of Technology, 1908. M. S., University of Chicago, 1909. E. E., Armour Institute of Technology, 1911. Residence, 5465 Greenwood Avenue.

"We'll take this up at a later date."

ROBERT CHARLES OSTERGREN

Assistant Professor of Architecture

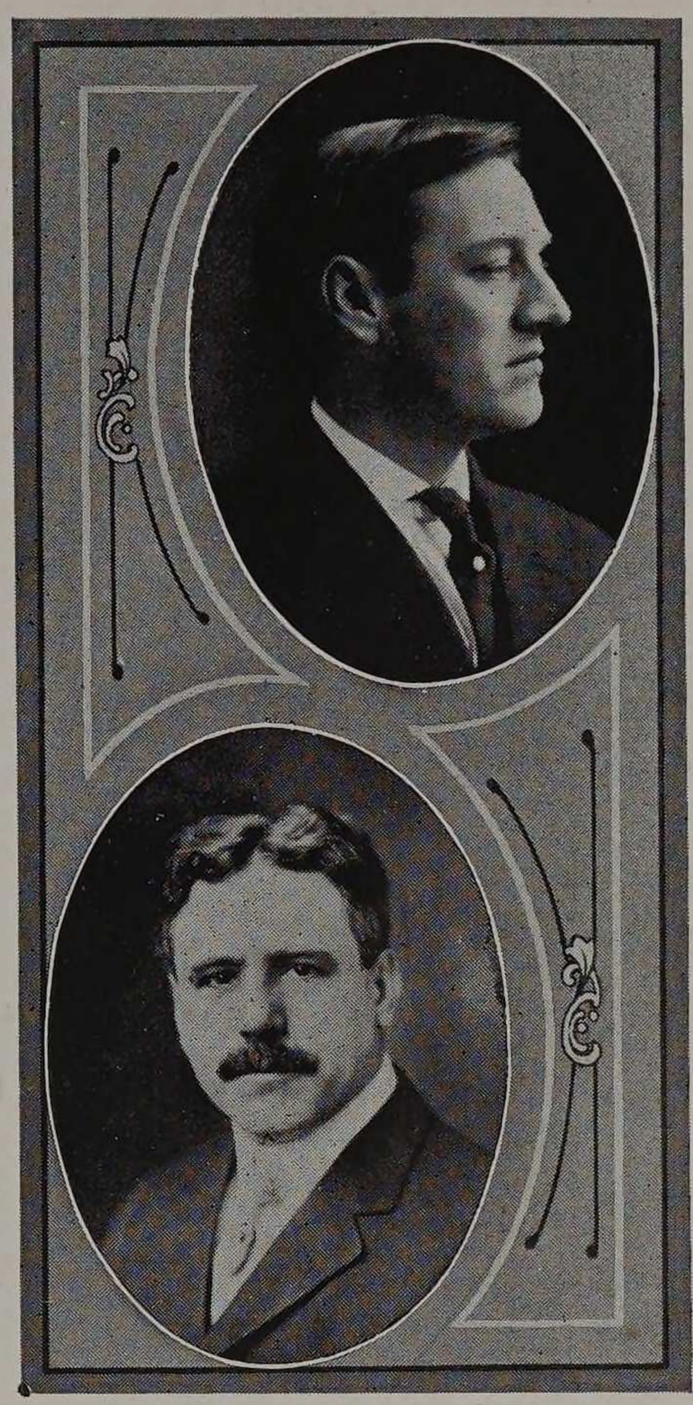
Birthplace, Stockholm, Sweden. B. S., Armour Institute of Technology, 1908. Tau Beta Pi. Residence, 2939 Vernon Avenue.

(*In Soph. statics*) *"We'll illuminate X, and then restore to the last equation."*

JOHN CORNELIUS PENN

Instructor in Civil Engineering

Birthplace, Wetering, Netherlands. B. S., Armour Institute of Technology, 1905; C. E., 1909. Tau Beta Pi. Omega Lambda. Associate Member Western Society of Engineers. Residence, 355 West 109th Street.

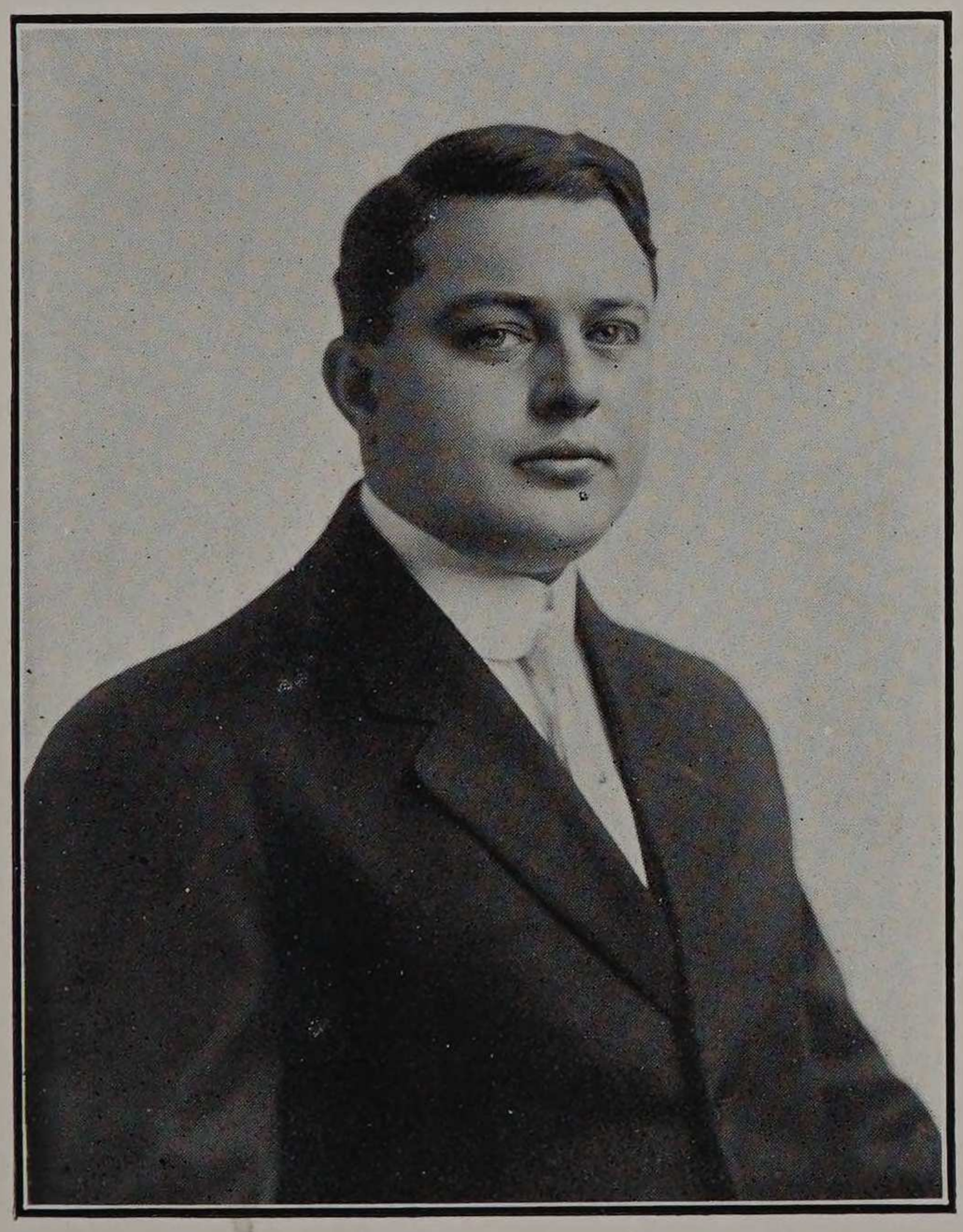


CHARLES ALLING, Jr.

Lecturer on Business Law

A. B. and A. M., Hanover College, 1885. LL. B., University of Michigan, 1888. Member of University Club, Illinois State and Chicago Bar Associations, Legal Aid Society, Indiana Society, and Union League Club. Sigma Chi. Residence, 319 East 22nd Street.

"And then if you're a friend of the judge."



One of the boys

GEORGE SINCLAIR ALLISON

Acting Registrar

To the '12 Man
Salutation

O may thy sun never pass its noon, and thy feet walk ever in goodly paths, by the grace of Allah, the compassionate and merciful.

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·1912·

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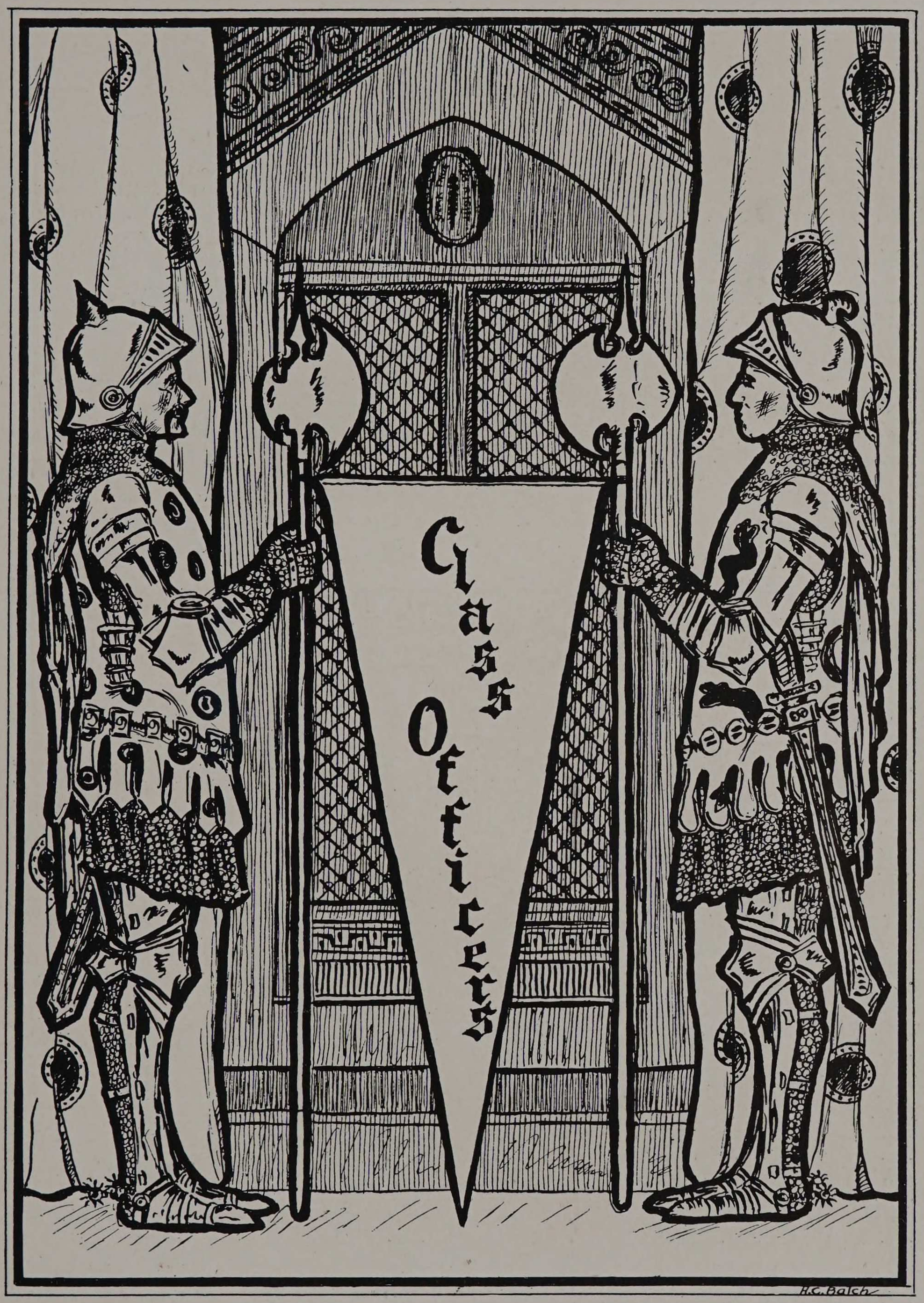
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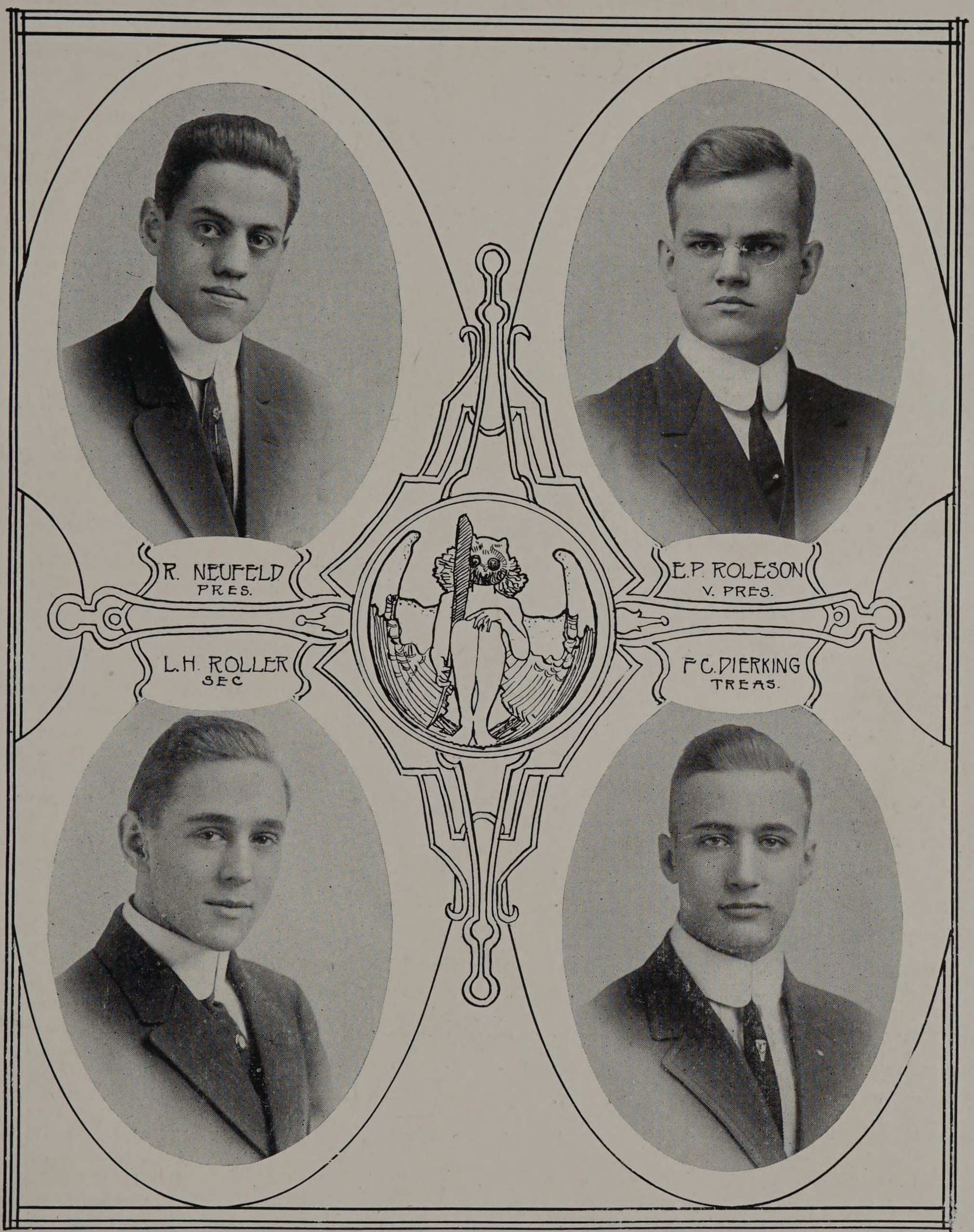
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A. M. Niemz . . . . . *Baseball Manager*
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R. S. Claar . . . . . *Baseball Manager*
S. Anderson . . . . . *Basketball Manager*
W. S. Oehne, N. W. Strale, J. C. Michael . . . . . *Freshman Smoker Committee*
P. W. Evans, J. C. Michael, C. W. Collins . . . . . *Preliminary Committee on Issuing of Senior Class Book*
R. J. Geisler, R. S. Claar . . . . . *Class Pin Committee*
J. C. Michael . . . . . *Cap and Gown Committee*
P. W. Evans, J. C. Michael, H. C. Dormitzer, J. G. J. Chandler, E. M. Sincere, W. G. Martin . . . . . *Editorial Committee—Senior Class Book*
E. P. Roleson, C. W. Collins, M. F. Lawrence, N. F. Kimball . . . . . *Managing Committee—Senior Class Book*
A. J. Beerbaum, H. Bohlander, P. A. Strong . . . . . *Auditing Committee*
E. P. Roleson, E. W. Turley, W. G. Martin . . . . . *Class Picture Committee*
L. H. Roller . . . . . *Permanent Secretary*
C. W. Garrison . . . . . *Commencement Program Committee*
W. S. Oehne . . . . . *Banquet Committee*



SENIOR OFFICERS

The Armour Civil Engineering Society

THE OFFICERS FOR THE YEAR 1911-1912

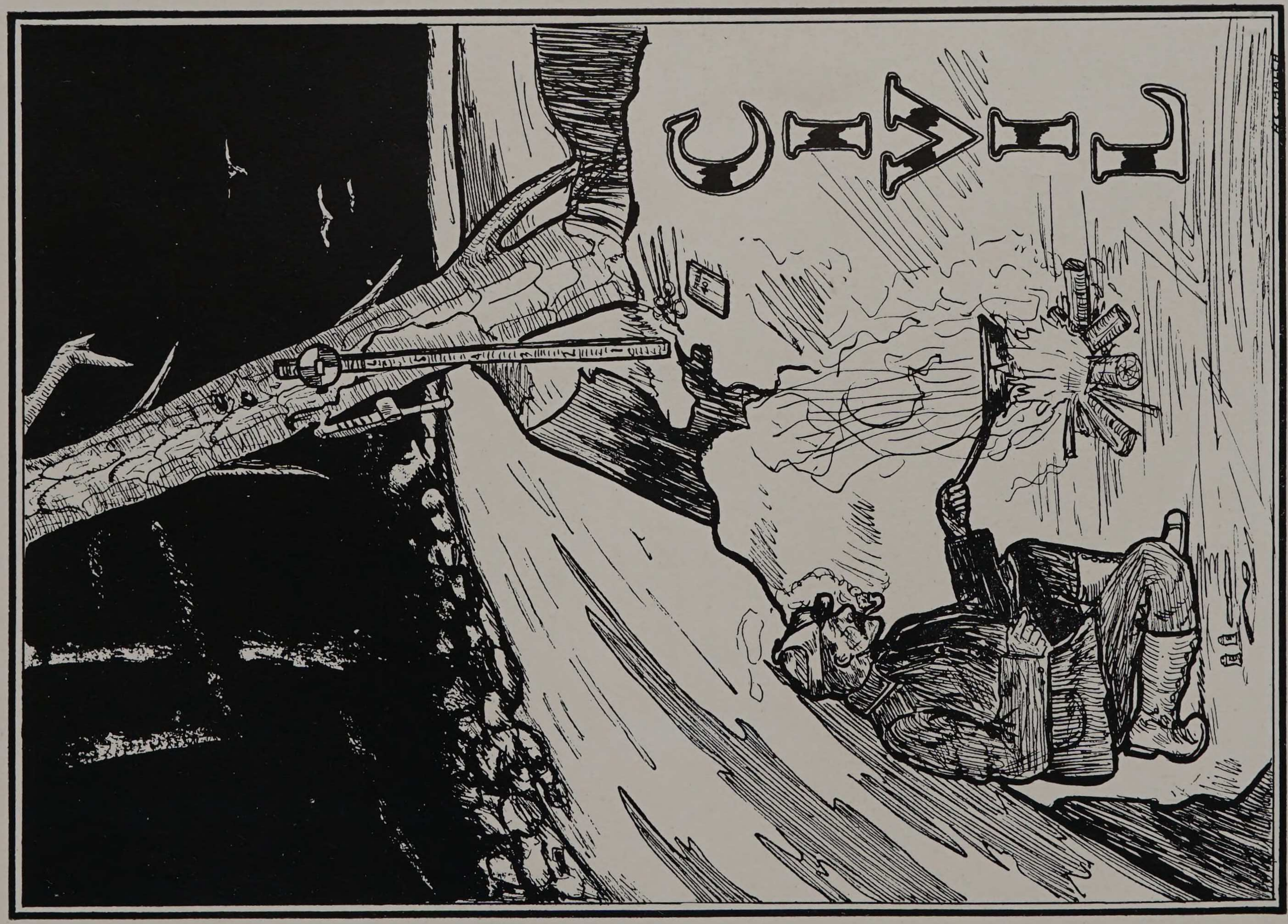
R. Neufeld . . . . . *President*
J. G. J. Chandler . . . . . *Vice-President*
W. S. Oehne . . . . . *Treasurer*
C. W. Collins . . . . . *Recording Secretary*
S. C. Anderson . . . . . *Corresponding Secretary*
R. S. Claar . . . *Student Representative Board of Direction*
Professor Wells . . *Faculty Representative Board of Direction*

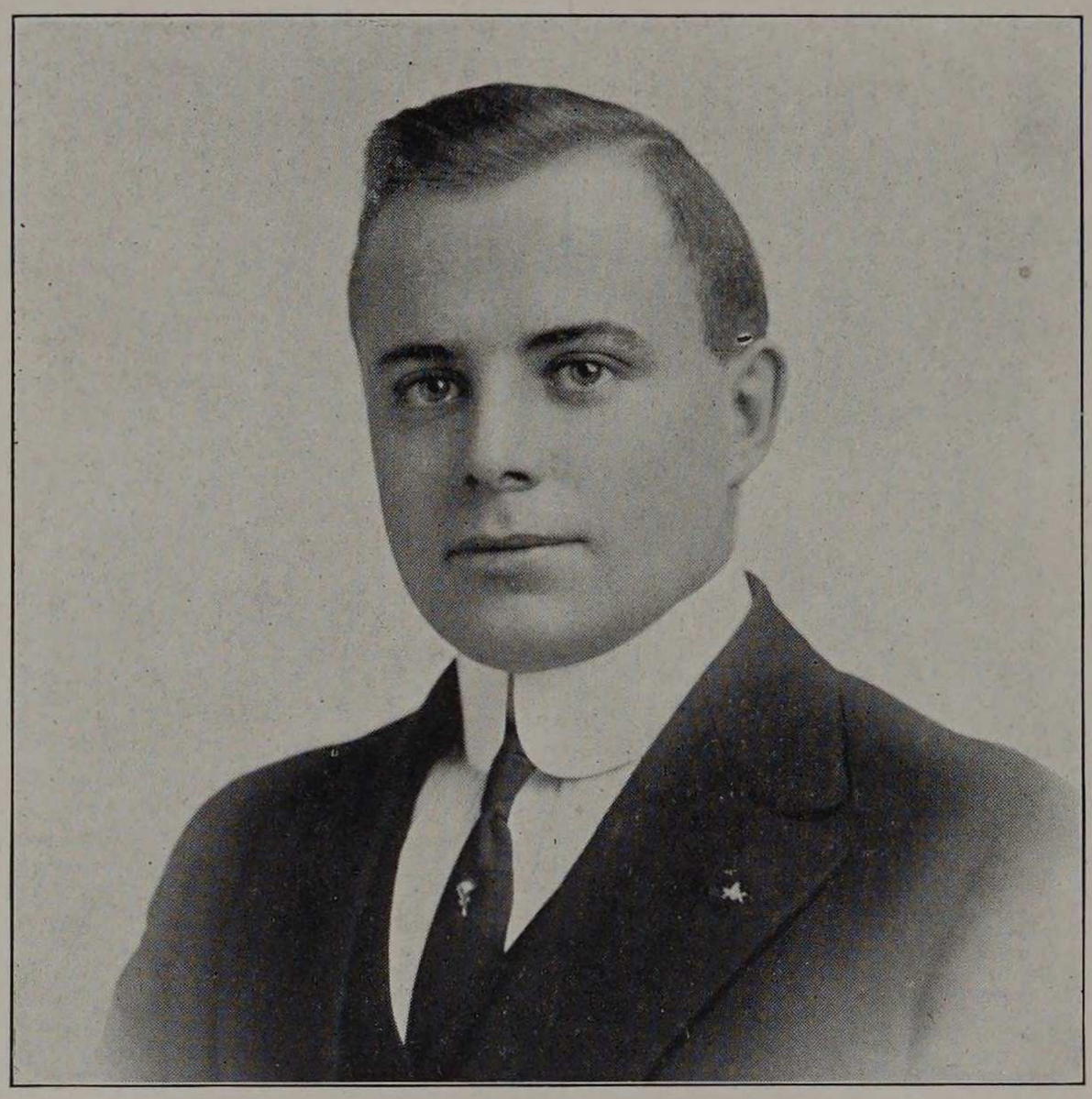
The Civil Engineering Society has just completed the most prosperous year of its career and, with the newly elected Junior officers, it is expected that next year will even be an improvement over this. It was the original intention of the founders of the Society to have bi-monthly talks by student members, but, owing to our favorable location for obtaining men skilled in the engineering profession, the plan has been changed. Experienced engineers are now obtained to deliver practical talks on the line of work in which they are most interested. Through these talks the students are brought in touch with practice while studying the theory connected with the same.

The Society has been addressed by the following men on the following subjects during the year:

October 3 . Dean Raymond . . . . *Useful Hints for Young Engineers*
October 17 . W. Artingstall . . . . *The Chicago River Tunnels*
November 7 F. N. Foster . . . . . *The Romance of the Telephone*
November 21 Professor Wilcox . . *Practical Applications of the Gyroscope*
December 5 Stanley Dean, *Hydro-Electric Plant on the Hoosick River, New York*
December 19 R. I. Randolph, *Investigations of the Rivers and Lakes Commission of the State of Illinois.*
January 16 . N. W. Cloud . . *Relation of Signalling to the Civil Engineer*
February 6 . Colonel Holp . . . . . *California*
March 5 . S. Klein . . . *Commercial Design of Reinforced Concrete*
March 19 . W. Leinenger . . . . . *Street Repairing in Chicago*

Outside of the regular meetings, the Society, in order to promote good fellowship (one of the requisites of a successful engineer) among the members, has held two Smokers. One the first semester and the other the second semester. On April 12th the Society will hold its Annual Banquet at the Great Northern Hotel. A pin patterned after a level rod target was adopted by the Society this year.





SEYMOUR CLARENCE ANDERSON

Thesis: *Renewal of the Milwaukee Avenue Viaduct.*

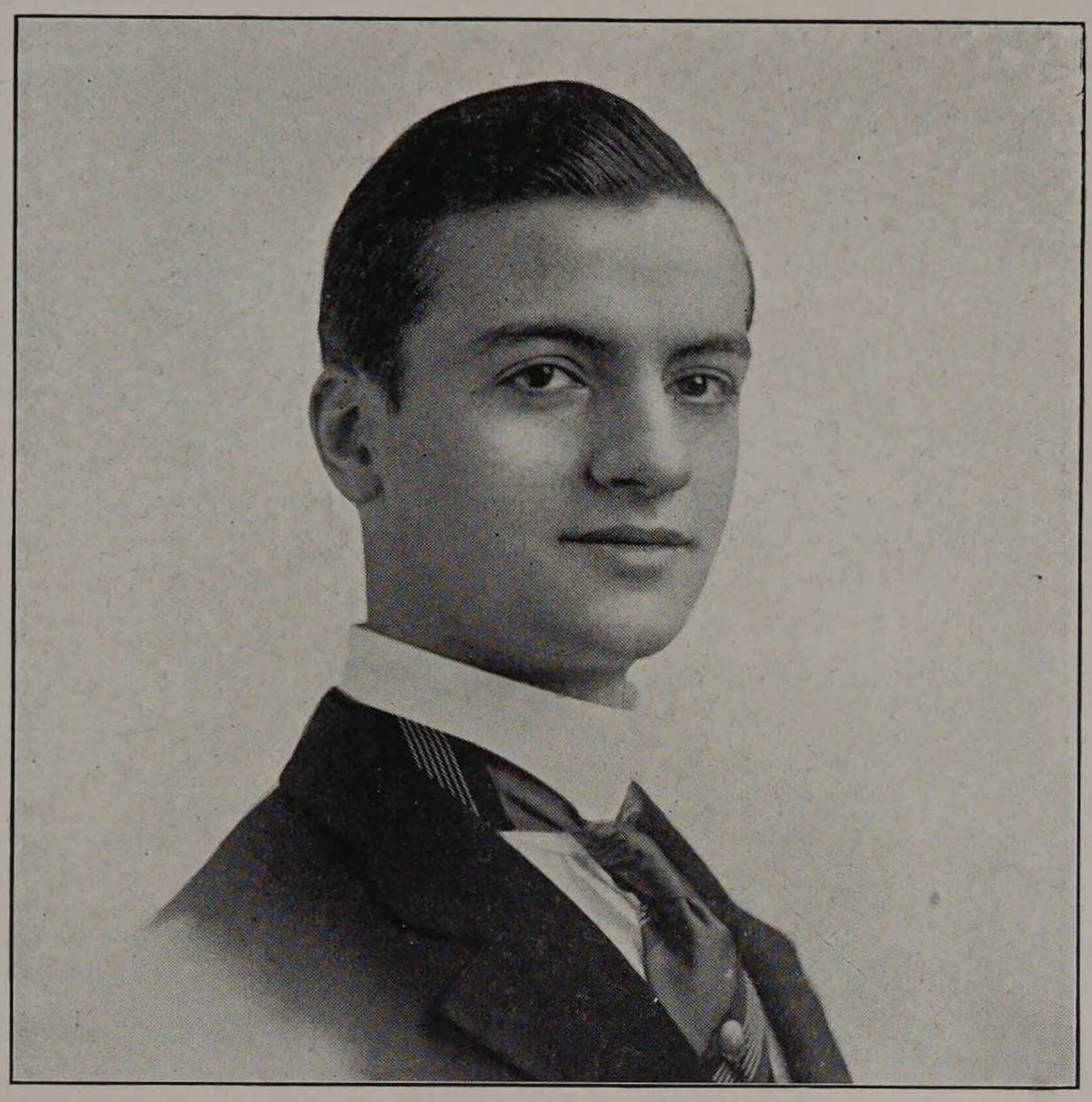
Armour C. E. Society, Corr. Sec'y. (4) Class Baseball (1), (2), (3), (4)
Class Basketball (1), (2), (3), (4) Manager (4) Junior Play

"Sadie" Anderson was born in Chicago, June 11, 1889. He worried along through his grammar school days with the usual fat boy's cheerfulness and entered the Crane Technical High School in 1903, receiving his O. K. from that institution in 1907. For the next eighteen months, the Waltham Watch Co. enjoyed an unprecedented term of prosperity with Sadie as boss of their job department.

In 1908, Si showed up at Armour and he has since been traveling through this vale of tears with the '12 bunch. On gazing at the generous physical proportions with which nature has endowed Seymour, (a romantic name that) we feel that Sweden has suffered a distinct loss in this our friend, who has lately blossomed forth as "Supe No. 6" with the Chicago Grand Opera Co. He is a star actor, all right, as you would agree if you had seen his impersonation of a colored lady in the Junior Play this past year. Last year he came into special prominence at a basketball game. When he appeared on the floor, the applause was so deafening that Si's man almost dropped from heart failure. Poor fellow, when he looked at Si, he could not tell whether he was coming or going.

During the 1910 summer camp session, Si was one of those roughnecks known as the "Dew Drop Inn" crowd. He also spent a summer working the Chicago Telephone Co. He has played on the class basketball and baseball teams each year since he entered the school, managing the basketball team this last year.

He and his side kicker, Beach, have, for some time, been earnestly working on a thesis "The Renewal of the Milwaukee Ave. Viaduct" and there is no doubt that men who can prove that instructors and books are in error, have had no trouble in solving a problem of this sort.



WILLIAM ERNEST BEACH

Thesis: *Renewal of the Milwaukee Avenue Viaduct.*

Armour C. E. Society
Chapin Club

Glee Club

November 2, 1889 marks the birth of our classmate, Beach. From the first, much was heard of him in his own family circle, but it was not until about the time he entered the North Division High School in 1904 that he became known to the world. By some hook or crook in February, 1908, we see him entering boldly into the world with a high school sheep skin under his arm.

In order to pass the time away after graduation he worked for the Rand McNally Company until the fall of 1908, when he entered Armour with the desire of becoming a noted civil engineer. Whether or not this desire materializes remains to be seen. We find William at Cutler's on Saturday selling new soles to innocent purchasers. He has a reputation for selling a pair of shoes to a customer which are just opposite the kind which the buyer wanted. But as someone said, that is neither here nor there. In the spring of 1910, our hero, like many other of his classmates aided Uncle Sam in taking the 13th census. This he found a very profitable occupation and only wished it had to be done oftener.

In the summer of 1910 Beach was one of the roughnecks at the civil camp. It was on the homeward trip at Manitowoc, on account of a member of the fair sex that he established the world's record running broad jump. Very few fellows can jump on a moving boat, already ten feet from shore, much less perform this same feat encumbered with two suitcases, but this is just what Billy did in a pinch.

Chapin Club is Billy's hangout and if you ever want to play a good game of billiards call on him. He has faithfully attended all the Armour dances and is usually on hand for other school functions. He is a great talker and has a streak of laziness in him, but when he gets down to business he rips things up in great style. He and Si have been working hard on their plans for the renewal of the Milwaukee Ave. viaduct, and hope to have them in in time to get their sheepskin on May 29, 1912.



JOHN GUTHRIE JOSEPH CHANDLER

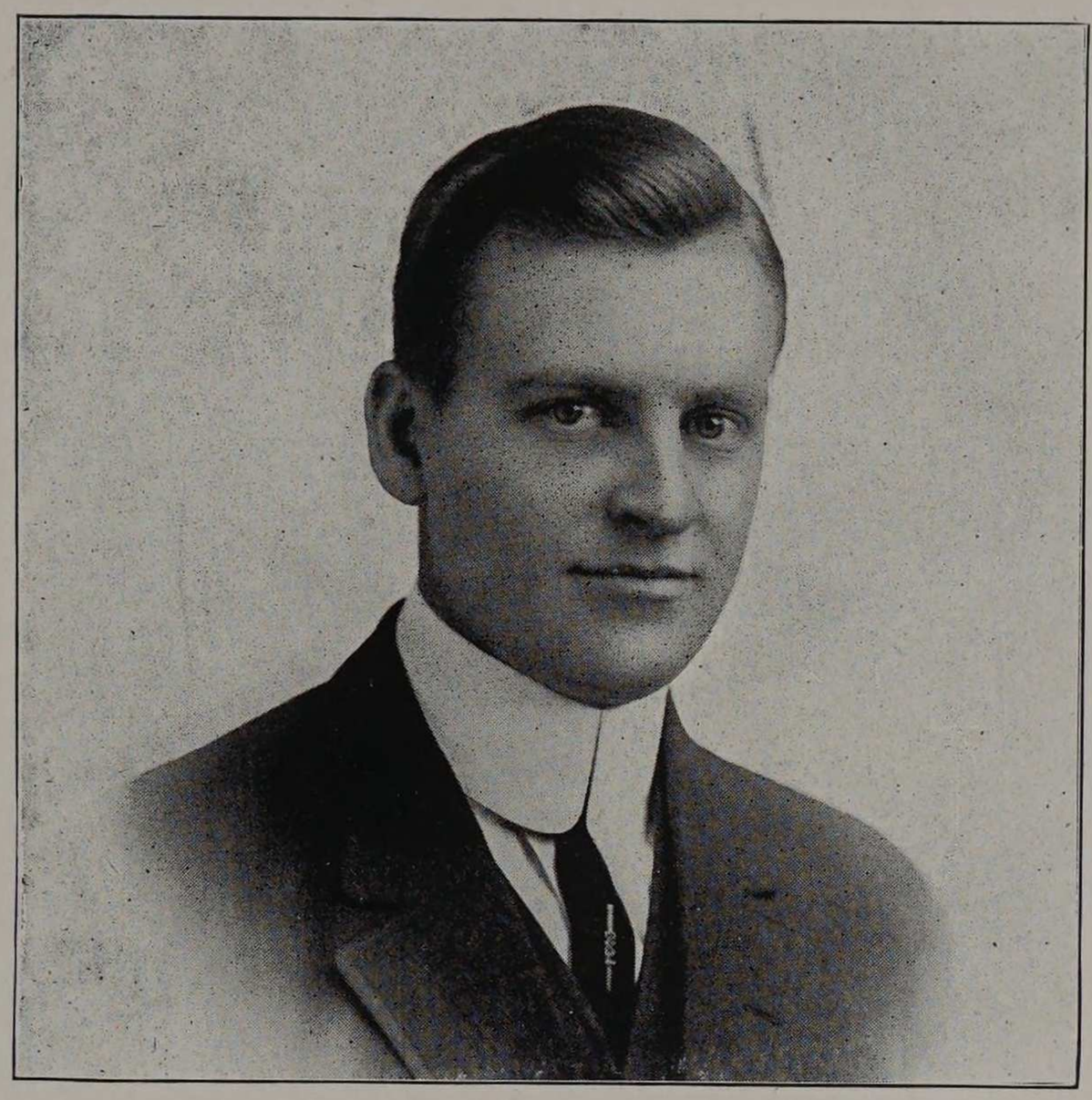
Thesis: *Design of a Combined Sewer System and Disposal Station for Arlington Heights, Illinois.*

Armour C. E. Society, V. Pres. (4)
Class Basketball (3), (4)
Senior Class Book Staff (4)
Cap and Gown Committee (4)

Far back in the eighties, there "happened" one of our best workers. The expression "all work and no play makes Jack a dull boy" hardly could be applied to the above-mentioned lusty infant. From the time of his birth up to the present Jack has been the bosom friend of labor. He does not know what it means to shirk a job but attacks everything he does with a vim that is bound to carry him to the top. Gazing at the picture of this illustrious coming engineer, who at the present time is known to his fellow students, as "Jack"—"J. G. J. C."—"Wyoming Jack" and sometimes "Damocles" how long would it take you to figure out that the J. G. J. C. when fully expanded spelled the name John Guthrie Joseph Chandler.

The John Ericson Grammar and English High and Manual Training Schools were selected by Jack to prepare him for life's work. Upon completing his high school course he decided that the commercial field was large enough to make a place for an industrious graduate. After knocking around most of the country from here to the coast, and holding down jobs for about six years, Jack made up his mind to complete his educational career and entered Armour in 1908. The work fever, however, still stuck to him, and even though he carried a heavy program during his four year course, he never passed up an opportunity to work on the side.

His loyalty to his school and class is something to which he can look back with pride, for whenever any of the teams or class functions need his support Jack is on hand. It is rumored that Jack will shortly take unto himself—a better half, shall we say, but let us hesitate as this is only a rumor and we do not like to delve too deeply into family affairs. Suffice it to say, that there will undoubtedly be in the near future a successful engineer, whose card will read John Guthrie Joseph Chandler, Civil Engineer.



RUFUS SAMUEL CLAAR

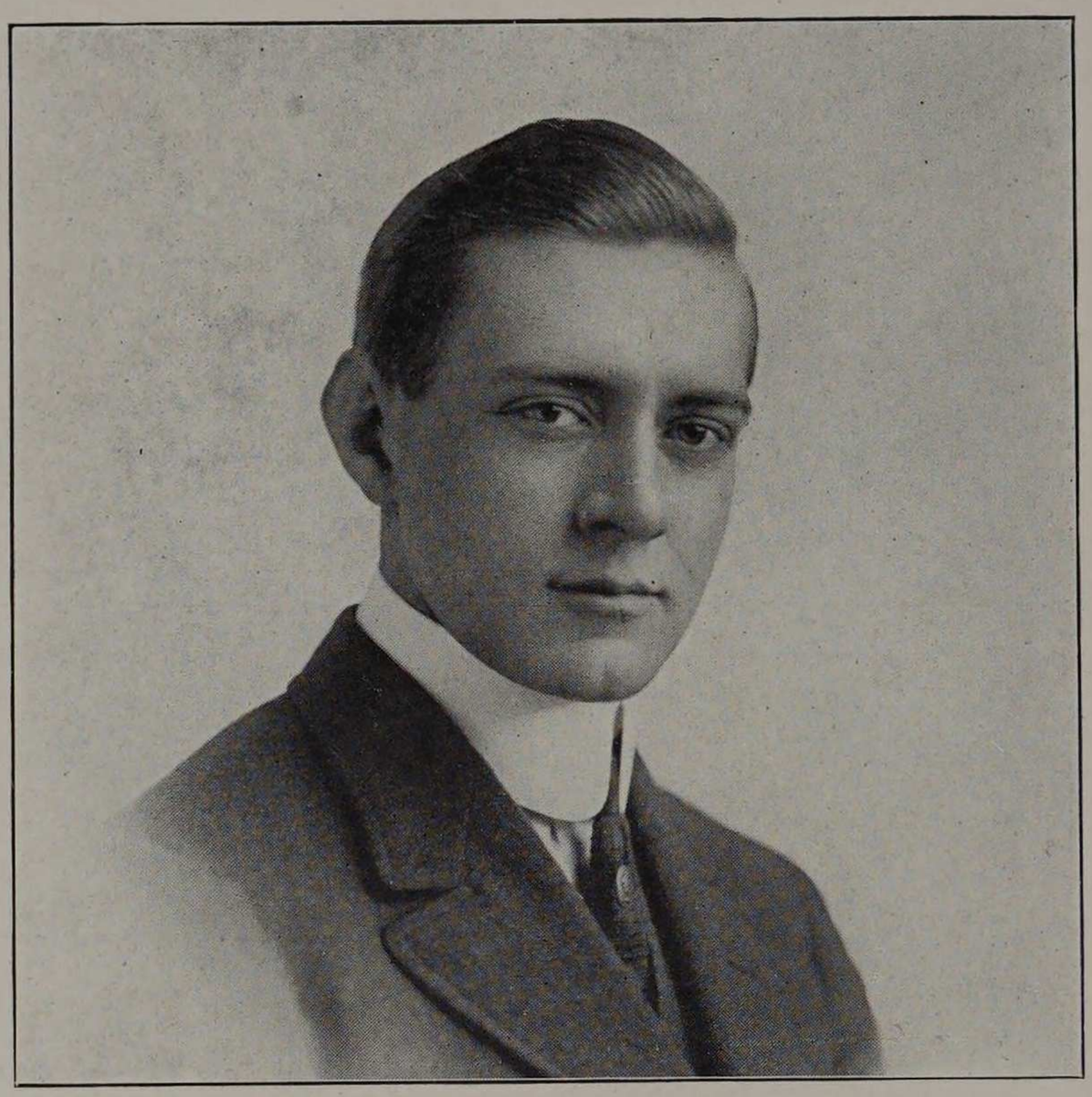
Thesis: *Design of Combined Sewer System and Disposal Station for Arlington Heights, Illinois.*

Phi Kappa Sigma	College Baseball Manager (3)
Radical X	Class Treasurer (3)
Armour C. E. Society	Social Committee (4)
Nebraska Club	Class Pin Committee (4)
Class Basketball (1), (2)	Class Baseball (1), (2), (3), (4) Manager (3), (4)
Class Bowling (1), (2)	Junior Play

Rufus S. Claar was born in the thriving town of Blair, Nebraska, in 1887, and passed the years of his preparatory course in its grammar and high schools. He finally decided that he would become a stenographer, inasmuch as he had all the desired requirements, being a natural blond. Accordingly, he entered the Commercial College where he studied, or at least tried to study, for five months. He evidently came to the conclusion at this stage that stenography was only a lady's work, and consequently he set out to fill a man's job, entering the service of the Northwestern Railroad for a year and a half. After this period was up he decided to take one more whirl at railroading and signed up with the Union Pacific, but after a little over a year's labor he finally came to the conclusion to come East, attend Armour Institute and delve into the science of Civil Engineering.

It was not long before the Phi Kappa Sigmas spotted this social lion from Blair and pledged him to their society. Fame was not slow in following "Rufe's" foot-steps. He was also snatched into the folds of the Radical X Society and Nebraska Club. With such a start Rufus found social success easy going. He was not only sought after for many class offices but his merits were noted by the school at large and he was awarded the position of Baseball Manager for the Tech team in 1911. Rufe is somewhat of a star along athletic lines himself as can be seen by the various positions he has filled during his career at Armour. As an actor in the Junior Play he was certainly a star of the first magnitude.

To say the least about this unassuming blonde from the west, we may state as a final prediction that Rufe will make "some" engineer, be-le-e-eve me, provided he does not turn his steps toward the footlights and become a matinee idol.



RONALD BAKER CLARK

Thesis: *An Investigation of the Comparative Stability of Vertical Back and Battered Back Dam Sections.*

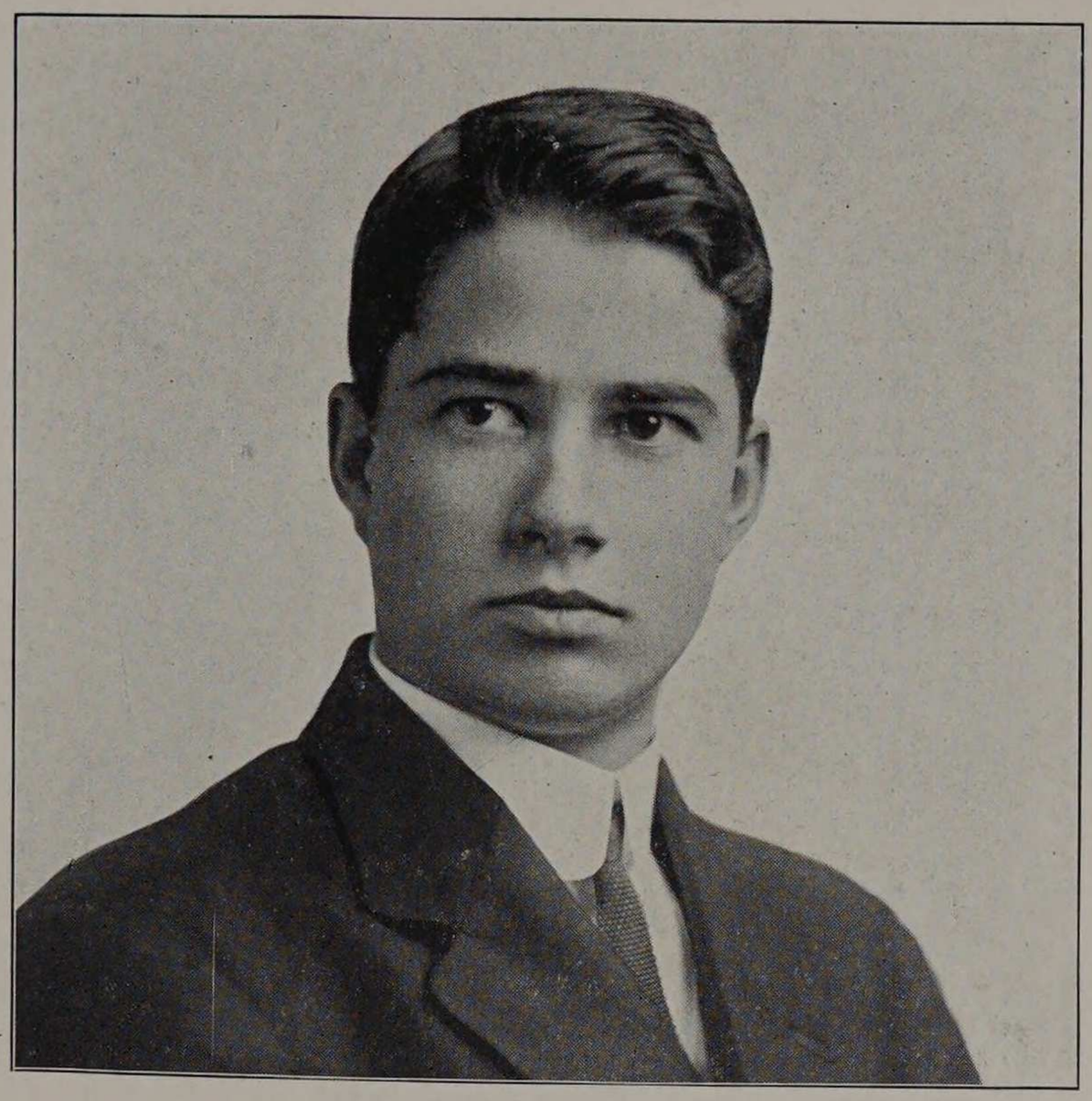
Phi Kappa Sigma
Radical X
Armour C. E. Society

Junior Play
Glee Club (2), (3), (4) Leader (4)

Would you believe that this fair-haired, blue-eyed dignified fellow is the baby of our class. Whether you would or not he is, as he will be only nineteen years, six months and twenty-two days old on Commencement Day. The records tell us that he, none other than Ronald B. Clark, was born in Chicago on November 7, 1892. He has done much traveling during his short life. He has crossed the Atlantic at least five times and has travelled extensively in England, Germany and France. He attended as many as five different grammar schools in as many different countries. He has observed many things on his travels and is always prepared (sometimes too much so) to converse on any subject under discussion.

In 1908, Clark graduated from the now deceased A. S. A. and in the fall of the same year entered A. I. T. He was early made a member of the Phi Kappa Sigma Fraternity and of the Radical X Society. He has always been a faithful attendant at Armour dances, concerts and social functions in general. As he comes from a musical family he was naturally soon drawn into the ranks of the Glee Club. For three years our class has been well represented in the Club by him and under his leadership last year, the Club made many rapid strides toward fame. He is also an accomplished actor as he successfully played the part of the staid and solemn Professor in our Junior Play.

In the summer of 1910, we find him learning the art of surveying under Pa's fatherly care at summer camp. And say! Maybe he's not some fusser. Not a day went by that he did not receive at least one letter addressed in a dainty feminine hand-writing. Someone said he was a little misplaced with the roughnecks at camp that year, but of this we are doubtful as he also enjoys a little rough-house once in a while. At present he is spending most of his leisure time with his fraternity brother, Geisler, on that bugbear to all Seniors, a thesis. For such a well versed man as Clark we can only foresee a successful and eventful future.



CHARLES WILLIAM COLLINS

Thesis: *The Design of the Steel Skeleton for an Office Building.*

Omega Lambda
Tau Beta Pi
Armour C. E. Society, Rec. Sec'y. (4)
Fulcrum Representative (4)
Ass't. Business Manager Senior Class Book (4)
Auditing Committee (3)
Usher Commencement 1911

To look at the Lincolnian frame and serene features of our Assistant Business Manager, one would more likely expect to find the material for an orator, minister, or perhaps a lawyer, rather than an unassuming civil engineer, in embryo. The personal history of the said manager states that he was born in Chicago, February 2, 1891. Perhaps personal antipathy to the name Charles had a good deal to do with a revision that was finally suggested by his fellow civils. To them he became "Jerry" from the time of their first acquaintance with them, and has remained so to this day.

In high school, he acquired an interest in the fair sex, but, upon coming to Armour he realized that "wein, weib, und gesang" meant ruin to the most aspiring young man, and therefore he immediately cast the three aside and buckled down to real work. Jerry's first year or so was uneventful in Armour annals, but nevertheless he was quietly working his way into the esteem and friendship of all with whom he came into contact. As recording secretary of the civil society he has not only given good service, but has furnished many new ideas to aid in its betterment. Although not taking an active part in athletics he has always shown the proper spirit by attending every event.

In his freshman year Jerry became so interested in surveying that he decided to attend the summer camp in 1909, and thinking that he learned about all there was to be known about transits, levels, etc., in this period, he determined to show the Chicago Great Western just how surveying ought to be done. For this reason he has worked for the past two summers with this road, improving and beautifying their right of way. To predict anything but a bright future for Jerry would be sufficient cause for committing the prophet to Dunning.



EARL LESSLIE CURREN

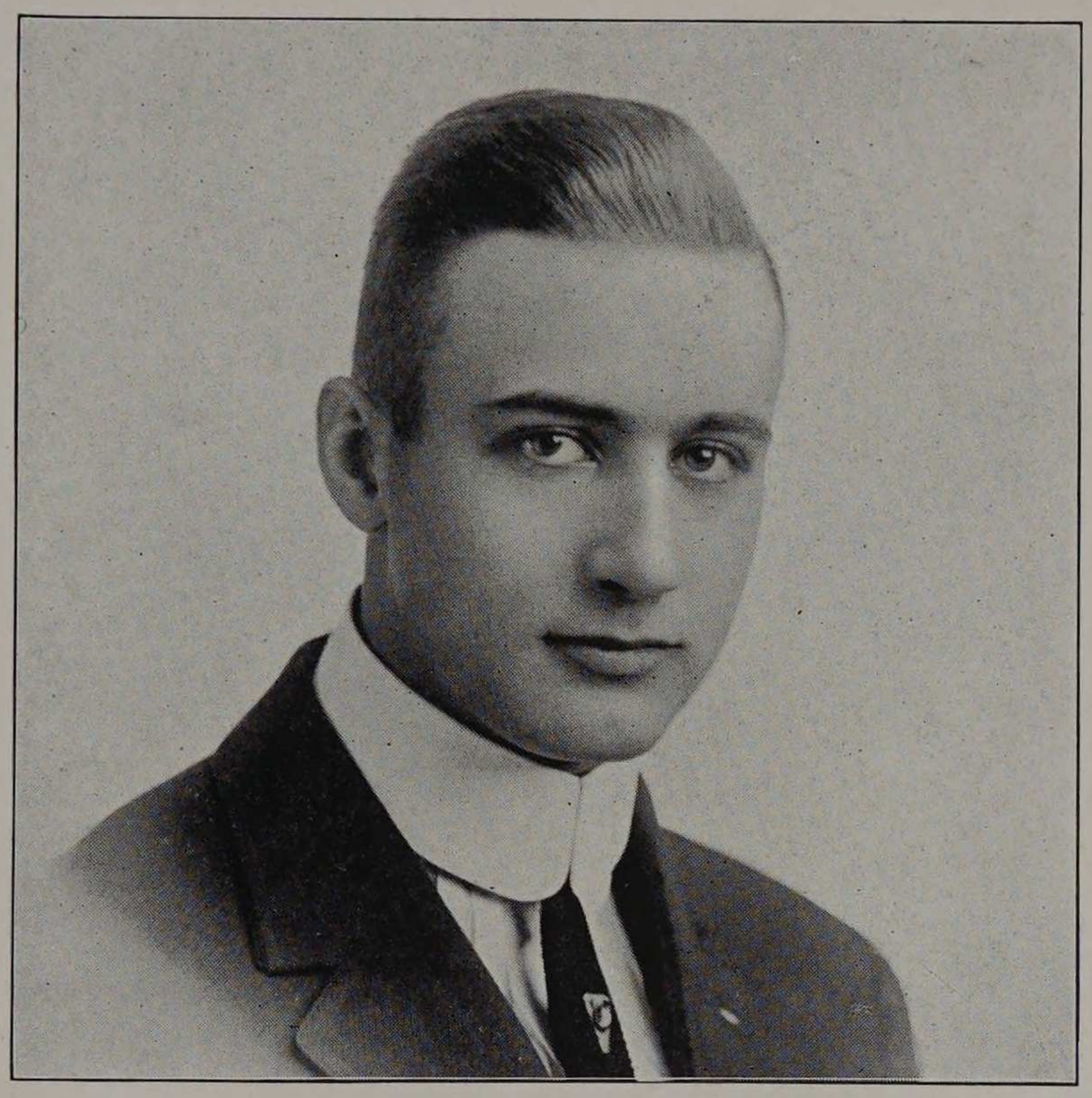
Thesis: *Design of a Two Hinged Arch, Spandrel Braced, Railroad Bridge.*

Armour C. E. Society

On looking through the birth records of Sheridan, Ill., we find that Curren was born on the 26th day of August, 1888. It will be noted in this connection that many of our great men come from small towns, so he has at least that primary qualification. The family soon moved to Aurora, where our hero has since resided. It would take an expert on the slip-stick to calculate how many miles he has travelled since entering Armour, about 70 miles a day, 5 days a week, 36 weeks a year, 5 years. Going some, eh?

He received his preparatory training at the West Aurora High School, finishing there in 1907. Like many more "misguided youths" (Ed. note. Quotation from R. T. Crane) he decided to study engineering and thereupon entered Armour in the fall of 1907. Through the use of much midnight oil and by grunting and snorting he remains with us. It was in the summer of 1910 when he attended summer camp. On one memorable occasion it was only through the deceitful plans of his jealous tentmates, that he was deprived of attending the Annual Faithorne Dance and of making a decided hit with the farmer girls. He held aloof from the rough necks at camp that year and always behaved as a perfect lady should.

Curren has combined forces with Hess on the thesis proposition and the corporation has designed a two hinged arch, spandrel braced, railroad bridge and although the exact meaning and unquestionable importance of this kind of a railroad bridge may not be perfectly clear to some, the electricals, for instance, we are ready to vouch for the fact that it is a good subject for a thesis and that the corporation has done it justice.



FREDERICK CHRISTIAN DIERKING

Thesis: *Design of a Reinforced Concrete Street Crossing for Track Elevation.*

Omega Lambda
Tau Beta Pi
Radical X
Armour C. E. Society
Chapin Club
Usher, Commencement 1911

Student Member Board of Athletic Control (3), (4)
Class Treasurer (4)
Second Marshal Junior Week
College Basketball (2), (3), (4)
Ass't. Business Manager (Elect) The Integral (3)

Ladies and gentlemen, we have with us today, a gentleman who is well known in scholastic, athletic, and social circles at Armour, Mr. Frederick Christian Dierking, better known as "Fritz," or "Dierk." It was on a farm near Bensonville, Ill., on December 24, 1888, when a Christmas present in the form of a small wriggling noisy baby was left with the Dierking family. This baby was none other than "Unser Fritz." After the animals on the farm had tired of his oratory and he had devoured all the knowledge available in the country school, his parents found it necessary, in 1900, to move to Chicago. In 1902, he graduated from the Anderson Grammar School. The same year he entered the Northwest Division High School which he left in 1906.

After leaving high school he decided to battle with the world for a while. For one year he worked in the Engineering Department of the Chicago Telephone Co., leaving as he was about to be made chief engineer. He then tried out his powers as an advertising agent, but, seeing the need of a college education, quit business life and entered Armour in 1908. Since entering Armour, Fritz has been kept busy juggling his studies, physics papers, basketball, fraternities and social affairs. One year we even find "Prof." Dierking teaching Surveying in the night school. If in walking down the hall you hear a student whispering louder than the instructor is talking, you have surely located Fritz. The same word might be prefixed to Fritz's stories as is to our beloved city. During the summer of 1911, he built a grain elevator at Kansas City, and the preceeding summer he was Bridge Engineer of the C. M. & St. P. R. R. Something on the order of "My Big Brudder Sylvest."

But, any way and all the way, Fritz is a person to be admired and liked, especially by the tribe of 1912, for he is a builder of college spirit, and we trust that the Fates have in store for him only that success which he deserves.



CARL WILLIAM GARRISON

Delta Tau Delta
Sphinx
Armour C. E. Society
Glee Club

Chairman Social Committee (1), (2), (3), (4)
Manager Bowling Team (1)
Sub-Marshal Junior Week
Chairman Commencement Program Committee
Class Basketball (2), (3)

Every man, we presume, was born for some definite purpose. In the case of Carl W. Garrison, it would seem, at least as far as Armour is concerned, that his purpose was to give dances for the class of 1912. Not that he isn't useful in other ways, but it is as chairman of the social committee for all four years that his services have been especially valuable, and we have him to thank for the four unusually successful 1912 dances that we have enjoyed.

Our "social lion" was born in this city on April 25, 1890. It may be interesting to know where he took his preparatory course in dance giving. He vouches for the following as a true and complete statement of all the schools he has attended: "Graduated from Fulsenthal Grammar School in February, 1905. Went to Wendell Phillips High School for one-half year. Went to South Division Manual Training School for one year. Then went to Lake High for two years. Entered A. I. T. as freshman in 1908." It will be noted incidentally that he does not mention in each case just why he left the various schools, but, as his record here has been exemplary, it may probably have been O. K. at the several preparatory schools.

During his four years at Armour, he has been active along athletic as well as social lines. He did good work on the basketball team for two years and was manager of the 1912 bowling team in his freshman year. He is also an expert billiard player, and, instead of wasting his afternoons in the civil draughting rooms, he finds it much more pleasant, if not more profitable, to spend them trying to beat his friend Spindler in the art of bouncing three balls together on the green covered table in Chapin Club. But whether playing billards or not, he and Spindler are inseparable. However, when the rest of the Spindler family returns from Europe, there is a possibility that the "brother" may have a rival.



RUPERT JULIUS GEISLER

Thesis: *An Investigation of the Comparative Stability of Vertical Back and Battered Back Dam Sections.*

Phi Kappa Sigma
Radical X

Sophomore President, Class 1911
Integral Representative, Class 1911. (2)
Chairman, Pin Committee (4)

The charms with which a little shaver greeted the world one September morning, the eleventh we believe, of the year 1886, have apparently stood the test of years for the fair sex still maintain that "He's a darling." "Geise" has further reinforced that view by the addition of that irresistible allurement brass buttons, being a member of Company A, First Battalion of Engineers, I. N. G.

Though we know only that he was reared in Englewood, we suspect that, from the initiative that he now displays, he was not a model child. He graduated from the Kershaw School in 1901 and again in 1902 from the Metropolitan Business College. He then gave the business world fits for a few years, meanwhile attending an evening high school. Geisler entered the Armour Academy in 1905, and the Tech in 1907.

His popularity and good fellowship even when he entered school is evidenced by the fact that he was elected to the Radical X society and also made President of the Sophomore class. "Geise" was the wonderful artist who decorated the sidewalks adjacent to the school with huge "'11's" and an artistic skull and cross bones, and then hobnobbed with the local constabulary (carefully keeping his paint stained hands in his jeans, the while) as they endeavored to locate the perpetrator of the aforesaid bit of art. This year he managed, as chairman of the committee, the securing of the alumni pins for the class, being ably assisted in this by his friend Rufe Claar. Not only did the pins cost a surprisingly small amount but the committee did *not* subsequently blossom forth in a new array of stick pins and rings.

Geisler has had lots of outside experience, and is applying some of it to his thesis work, the "Investigation of the Comparative Stability of Vertical Back and Battered Dam Sections," and, with the assistance of Clark, the problem has been well handled. Geisler is one of those clean cut fellows whom you instinctively know to be a man worth while, and whose friendship is a thing to be counted on.



ADOLF LOUIS HESS

Thesis: *Design of a Two Hinged Arch, Spandrel Braced, Railroad Bridge.*

Armour C. E. Society — Y. M. C. A

On March 21, 1889, Hess made his first inspection visit to our little town. He immediately smiled and said "What's the use?" As he was the crown prince he was very fittingly named Adolf. In 1903, our hero graduated from the Scammon Grammar School and entered the John Marshal High School. Adolf is a renowned "fusser" and truly believes that variety is the spice of life, for does not his dance partner change as often as the function. It was with difficulty that his instructors trained Adolf to distinguish between a social center and a high school. However he graduated in 1908 and entered the Tech with the class.

During the summer of 1909, he attended the Civil summer camp and surprised some people who thought him slow. In the first place he showed the rest how to swim, and then too there was that little incident at Mathon, Michigan. The boys played ball there and in the evening attended a hop. While two of the boys were trying to monopolize the postmaster's fair daughter, one of them received a severe jolt. She asked him to keep a card for her until the dance was over. On looking at the card, he saw in bold type "Adolf Hess," accompanied by a correspondence address. All the girls were similarly provided for, as Hess was impartial. It was a mean thing to do but truth compels me to say that the card never was returned to the young lady, but was instead turned over to the camp at large with its history.

Adolf has had considerable practical experience, having worked through the summer of 1910 with the County Surveyor. He is a man that you have to know to appreciate truly, and we are sure that if he carries his original solutions into his future problems, that naught but success can await him.



EDWARD CHERRIE HOLDEN

Thesis: *Design of a Single Leaf Bascule Bridge for Interurban Electric Railway Service.*

Armour C. E. Society

Class Baseball (3), (4)
Class Basketball (3)

Holden blew into our windy city on July 12, 1888. He is a typical Chicago youth, always looking for a good time and an easy way out of work. His parents, realizing his fondness for the fair sex, sent him to the R. T. Crane High School, rather than to a co-educational school. Upon graduating from Crane in January, 1908, he took up a course in stenography. But, seeing that he would never advance beyond being "a one finger artist," he enrolled as a Freshman at the Tech in 1908. Since then he has more or less successfully hood-winked a number of the faculty until now we find him a full fledged senior. For several reasons, which it would be unwise to mention here, he has been duly appointed official note keeper in the laboratory groups.

He spent the summer of 1910 at summer camp, where he distinguished himself by playing on the Armour's Chicago College Baseball team. During the summer of 1911 we find him applying the principles of surveying which he acquired the previous summer by holding down the position of rodman for the Rock Island.

You will not be surprised to hear that Holden is quite a fusser for he always produces a pretty girl at the Armour dances. He is also an artist at making pennants, arm bands, etc. and exchanging the same with his lady friends. Whether his love of music is so great, or there were other attractions we are unable to say, but it is fact, that he was regular member of the Chicago Grand Opera Company during the season 1911-1912. At rock bottom, Holden is a good scout and we wish him success in his work.



DUDLEY FRANK HOLTMAN

Thesis: *Reinforced Concrete Bridge.*

Holtman was born just two days too late for Christmas of the year 1889. Like many more of our classmates he is a Chicago product and proud of it. We hear of him first at the Wendell Phillips High School, here he was leader of the school orchestra for two years. For four years he played first violin in the American Conservatory Orchestra, at the end of which time he received a teacher's certificate. Those who have heard Holtman play have only one criticism to make, and that is that they have heard him too seldom.

He is the one studious man in the Civil department. He never fails to get his work in on time and sets a good example for some of his tardy brethren. If you ever want to find him, he is that tall fair plump faced fellow in the draughting room who never thinks of any devilment. During the summer of 1909, he held down the position of rodman for the St. Paul in South Dakota. Desirous of becoming an expert surveyor, we find him at summer camp the following summer. Here he made himself conspicuous by his quietness and his never failing desire to work. In the summer of 1911, he worked as a draughtsman for the Rock Island near Des Moines, Iowa.

Holtman has been working with Wamsley and Lewis on the design of a reinforced concrete bridge to be placed over the north shore branch of the drainage canal at Evanston. We are sure that with such talent this thesis will be a credit both to the department and to the men themselves.



PETER M. LEICHENKO

Thesis: *Design of a Single Leaf Bascule Bridge for Interurban Electric Railway Service.*

Armour C. E. Society

At Odessa, Russia, some four days before Christmas, 1888, there was an arrival in the Leichenko household. Peter the Great was again honored, as the little tot was immediately wrapped in that soul-stirring cognomen, which we in our American hustle have shortened to Pete. He entered school at Odessa and graduated from the high school of that place in 1905. Pete came to believe that his chances for a short life, or else free transportation to that famous eastern colony of his country were good, and very naturally he journeyed in an opposite direction, and after a brief stay in Germany he landed in New York. With the aid of the newspapers and a dictionary our anarchist soon mastered the intricacies of the English language. He made a good job of this, as has been shown by the many excellent articles contributed by Pete to the Fulcrum.

In 1908, he entered the evening school at Armour and in the following year he joined the class of 1912 in the day school. He has stuck, and has demonstrated an ability to keep a smiling face even when the joke has been on him. Pete is one of the boys who are to be congratulated on working their way through school. His field of work has been varied, ranging from tutoring, assisting in the math. department, selling books, and representing accident insurance companies to the entertaining of the Chicago Grand Opera audiences. During the vacation of 1910, he went to the summer camp and, besides dividing two chains neatly with an ax, found time to learn a little practical surveying, maintaining all the while his position as the camp comedian.

Leichenko is fortunate in the possession of a good stiff backbone, the determination to be successful, and mental powers above the ordinary, and with this trinity of helpers his career is bound to be successful.



GEORGE DRAPER LEWIS

Thesis: *Reinforced Concrete Bridge.*

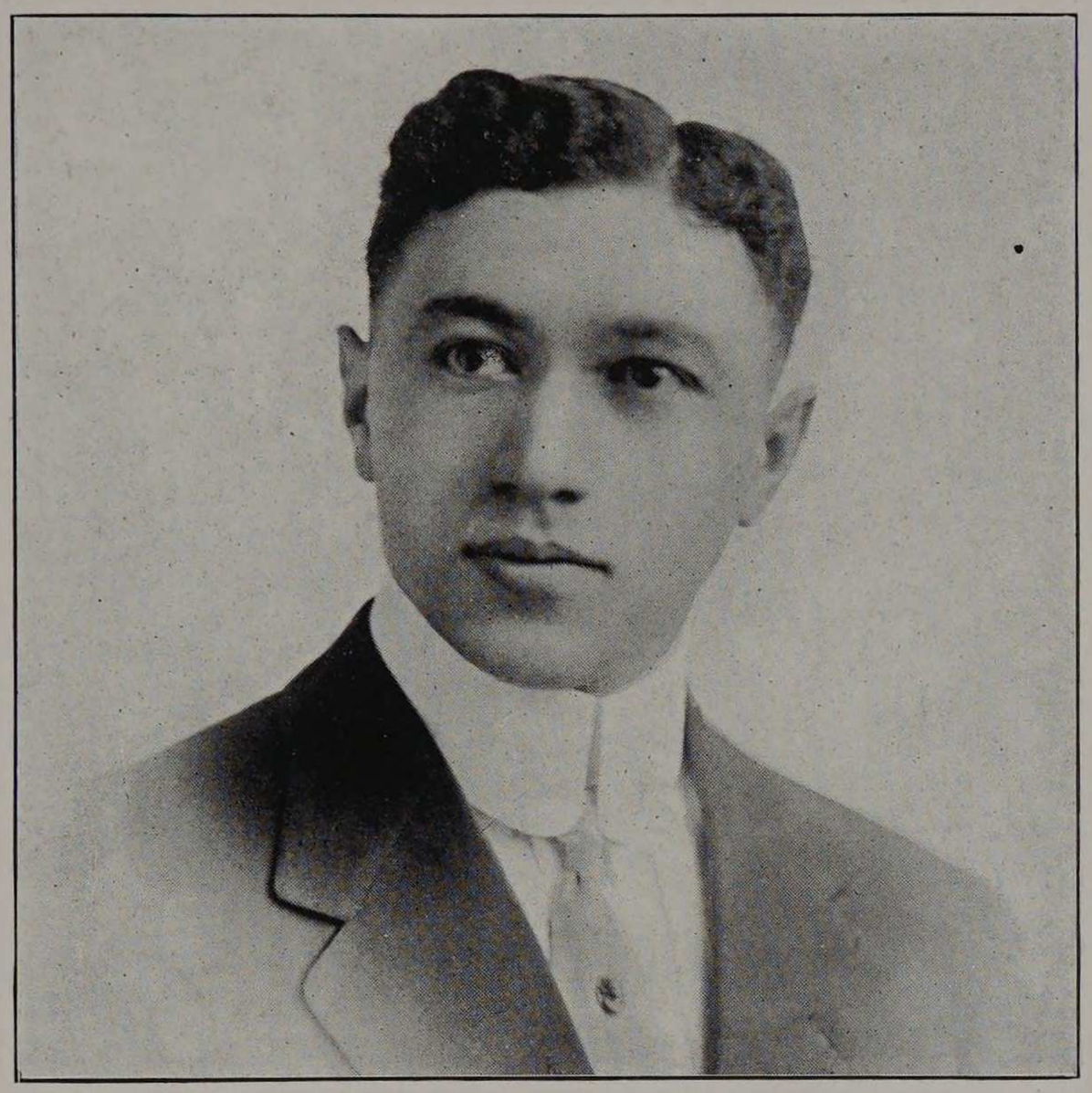
Delta Tau Delta
Armour C. E. Society

Glee Club (1), (2), (3), (4).

As he was not responsible for the choice, we will not hold it too strongly against him that he was born in Evanston. By the pronoun, we mean George D. Lewis, who, since his birth on May 25, 1888, has chosen the reverse course from that adopted by Kiley and has spent most of his time growing. In carrying out this growing process, he considered that it would be much simpler to make a one-dimensional affair of it, and, as we have all noticed, he has adhered to that decision ever since. It may be that from living continuously in this upper strata of the atmosphere, he has acquired his singular high-mindedness and his rigid code of ethics.

He graduated from the Evanston Grammar School and then from the Evanston High School, and, in 1908, registered at Armour as a "Civil." In high school, he thought that it might not hurt him to get a little outside experience and hence put in two summers working for the Western Passenger Association. Since entering Armour, however, he has found it much more enjoyable to spend the summers at some eastern resort. An exception to this custom occured the first part of last summer when he was up at summer camp. On his return after finishing his survey of the Menominee, his Chicago friends were startled to see the havoc the Wisconsin sun had played with his appearance, for what little skin was left on his face appeared to be in imminent danger of dropping off.

During all of his four years, George has been a faithful member of the Glee Club and has done good work with that organization. He chose for his thesis "A Reinforced Concrete Bridge", which, we understand, is to be located up in Evanston somewhere. That this, as well as anything that George designs, will be, at least, a perfectly safe and liberally designed structure, we feel certain, for one so conscientious would never allow his factor of safety to be reduced below—say one, anyhow. The engineering world needs conscientious men, and, in George Lewis, it is getting one.



MAX LIPY LOEWENBERG

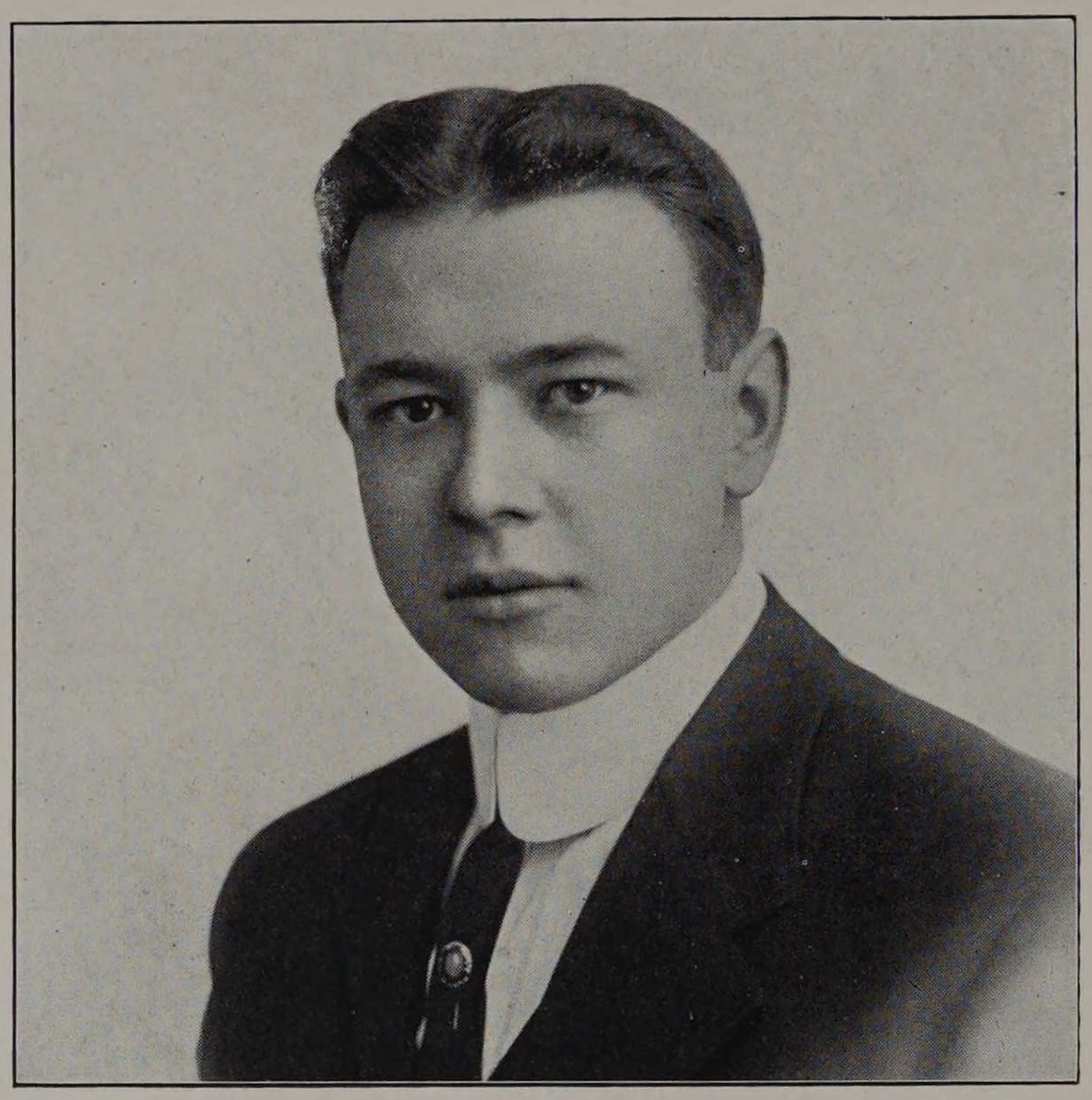
Thesis: *Design of a Single Leaf, Double Track Bascule Bridge for Interurban Service.*

Armour C. E. Society

It was cold bleak day in Russia on November 29, 1889, when Max L. Loewenberg first gazed on this planet. We first hear of him in this country when he graduated from the Garfield Grammar School in Chicago. For two years he worked in the inquiry bureau of Montgomery-Ward & Co., and at the same time attended night school at Armour. He entered the Armour Scientific Academy in 1907, and the Tech the fall of 1908. He registered in the Civil department and has been there ever since, although he has leanings toward chemical engineering, for he has been official test tube washer for the chemical department for two years, earning his tuition and at the same time acquiring quite a knowledge of chemistry.

In the spring of 1910 he spent much time rustling up names for the 13th Official Census of the United States. He took special delight in asking the woman's age and the man's salary. In the summer of 1910 he went to summer camp. Here he went through many trials and tribulations, finally ending up by being initiated into the "Sons of the Midnight Crew." On this solemn (?) occasion he won the prize (a piece of delicious candy) for the best solo of the evening. For further particulars of this initiation ask the "Terrible Dutchman" Mack.

Loewenberg is a kind-hearted fellow and a good friend. He merits respect from everybody and although he can never become President of the United States we expect to hear someday that he is president of some large corporation.



FRANK JOHN MACK

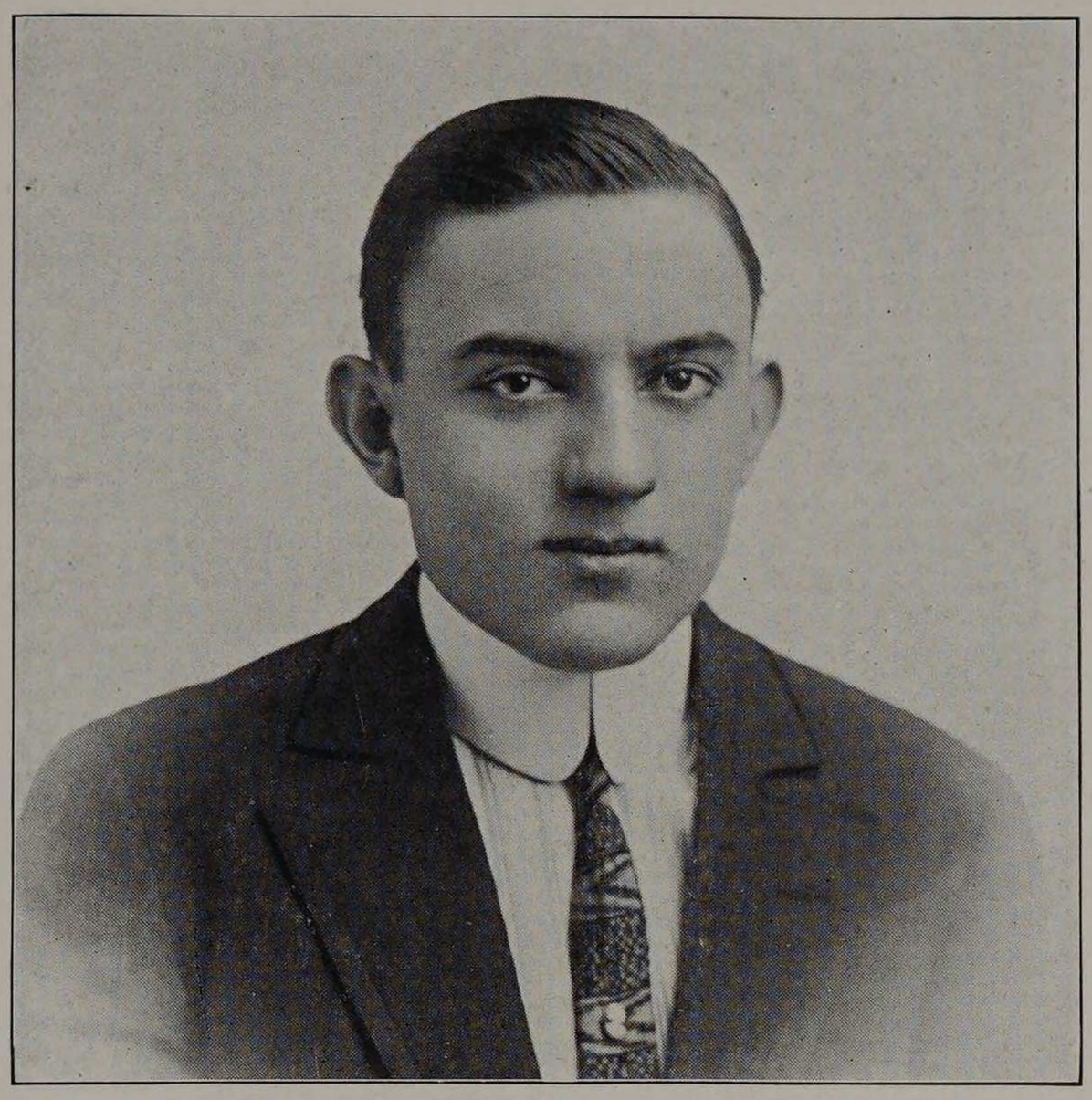
Thesis: *The Design of the Steel Skeleton for an Office Building.*

Armour C. E. Society — Class Basketball (1), (2), (3), (4)

"Once upon a time," a stork left the frail little creature we have come to know as Felix in a Chicago home. He immediately bellowed out something that sounded like "Baw" and he's been bellowing in like manner ever since. He entered the R. T. Crane High School in 1904, and while we are sure that his mental gleanings during the succeeding four years were very good, still it was on the football field that our fat friend struck terror to the foe as they awaited with trembling knees the advance of the steam roller.

Frank entered the Tech in 1908 and without trying to force the fact on us he has been in the "A" man class most of the time. He has always played on the class basketball team, as his very presence puts one of the opponents out of the game. We have, however, sometimes thought that he has been temporarily in doubt as to whether he was playing basketball or football. He is one of the fixtures of the Civil office and we are unanimous in the feeling that he has a beautiful voice—for a boiler shop. Among his other duties he is official moving picture artist for the Civil Society and none can compare with him when it comes to showing slides in reversed or upside down position. From the number of fuses that he blows we suspect that he has missed his vocation in not taking up electrical engineering.

It has never been necessary to get a search warrant to ascertain his whereabouts when a class or department duty is waiting and while we are sometimes in doubt as to whether or not Frank is joking still we know that he has a heart of gold and that he would give the hat off his head to help a friend. He has united with Collins on thesis work and it was a foregone conclusion that, with such a combination, defeat was impossible.



MANFRED MALZEN

Thesis: *Effect of Frost on Concrete.*

Armour C. E. Society

One morning some years ago—to be exact on July 11, 1891—a certain dark eyed youngster wriggled with joy when the executive council of the Malzen household conferred upon him the romantic and euphonious name of Manfred. We next hear of Fritz when he entered the Hyde Park High School in 1904. He graduated in the usual four years and in the fall of 1908, registered at Armour.

He appeared at the summer camp in 1909, and with the assistance of two twenty-foot fishing poles, spent the first hour giving an imitation of an Indian squaw trailing to a new camp. The exertion proved too much for him, however, as he was immediately taken sick, had to be taken home, and spent the summer in bed. The following summer he was manager of a grocery store and we understand that at that time, much of the undissolved residue in coffee cups was found by analysis to be SiO_2. Fritz finished his summer camp work last year. He was a charter member of the Burnt Rod Club and spent much of his time in gratuitious advertisement of that organization. We understand that, when he sought his downy couch at even', he slept with a gun beneath his pillow to guard against the approach of Freshmen.

In 1911, he moved to West Pullman and since then he has turned some of his morning classes into correspondence courses. He has been working with Oehne and Swanson on the "Effect of Freezing on Concrete" for a thesis. And there is no doubt that with Oehne to furnish the stogies and Swanson to shovel he has enjoyed the work immensely.



JOSEPH STANLEY NAROZNY

Thesis: *Design of a Double Track Bridge with Inclined Top Chords.*

Joseph S. Narozny was born in Chicago on February 9, 1887. He received his preliminary education at the William H. Seward school, Chicago, from which he graduated in 1903, being awarded the "Foster Diploma" for excellence in scholarship. He then entered Lake High School, and while there decided to become an architect, and with this idea in mind came to Armour. But as his preparation was incomplete he was compelled to enter the Academy, from which he graduated in 1907. In the meantime he had changed his mind about becoming an architect and accordingly in the fall of the same year he enrolled at the Tech as a Civil.

In the summer of 1909, we find him at summer camp. Here he had many wordy combats with his tentmate "Soly" and with the famous "Sons of Rest." One night a terriffic (?) wind storm blew Chandler's tepee away and razed the "Pest Tent" to the ground. On the day before breaking camp our hero accidentally (?) fell into the Menominee.

He has a difficult time in trying to make some of the Profs. in the Civil department think he knows anything. But we all have to hand it to him when it comes to stick-to-it-iveness. For his thesis he has joined with Ratkowski in the "Design of a double Track Bridge with Inclined Top Chords." Although Narozny may not accomplish his problems with such a polish and flourish as some of his classmates, we are sure he will accomplish them, and we wish him much success in his battles.



RALPH NEUFELD

Thesis: *Design of a Combined Sewer System and Disposal Station for Arlington Heights, Illinois.*

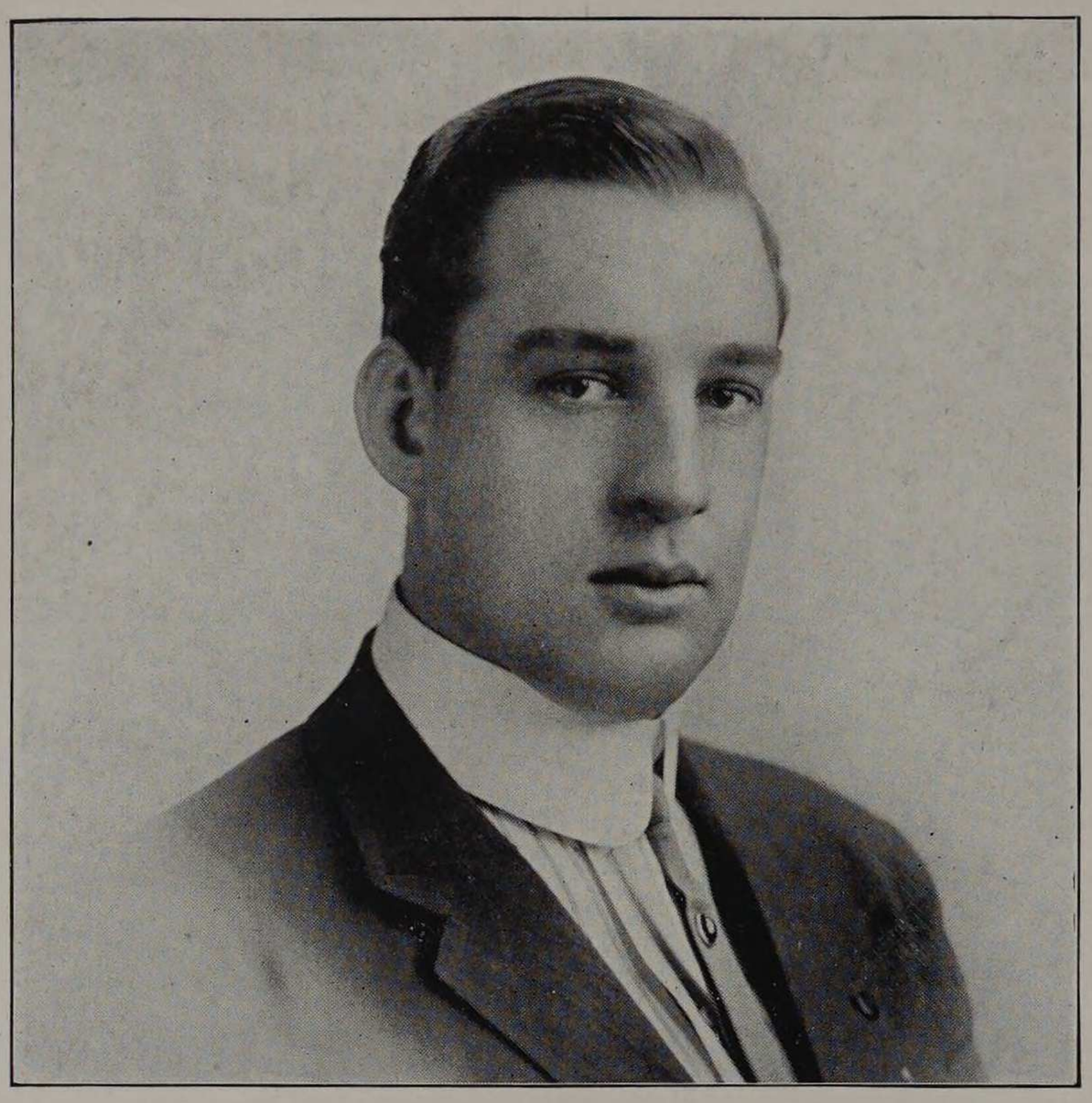
Tau Beta Pi
Radical X
Armour C. E. Society, Pres. (4)
Integral Representative (2),
Class Baseball (2), (3), (4)
Chapin Club

President Senior Class
College Basketball (2), (3), (4) Captain (4)
College Track (1), (2)
Class Bowling (1), (2), Captain (2)
Class Basketball (1), (2), (3), (4) Captain (3)

It was in Chicago on December 17, 1888, that our honorable President, Mr. Ralph Neufeld, commonly known as "Brainy" first made things hum. And since then they have been humming more or less in his vicinity all the time. He is a product of the Skinner Grammar School and of the Wendell Phillips High School. After graduating from high school in 1906, he worked in the auditing department of Mandel Bros. until October, 1907. He then left Chicago for a six months stay in California. After a very enjoyable trip Brainy was on hand registration day to start four years of hard work. For the first two years he was busy studying and was quietly establishing a clean record in the Dean's office. But even then he found time for the basketball, track, baseball and bowling teams.

In the summer of 1909, he was the mainstay of the "Happy Hooligan Family" at camp. Turk and Schrimp would have missed more than one breakfast if he had not been on the job. During the summers of 1910 and 1911 we find him enjoying the easy life at Fox Lake, Ill. At the beginnng of his junior year, Brainy was made a member of the Radical X Society, and then it was only natural that a man imbued with such scholarship and good fellowship should be made a member of Tau Beta Pi. In his senior year, he was made President of the Civil Society, Captain of the College Basketball Team, and last but best of all, President of the Senior Class.

Brainy is justly one of the most popular men in the class and we might say in the college. He always looks on the bright side of things and that counts a great deal in this world. He is a promising young engineer now, and, in a few years will be a highly successful one.



WALTER S. OEHNE

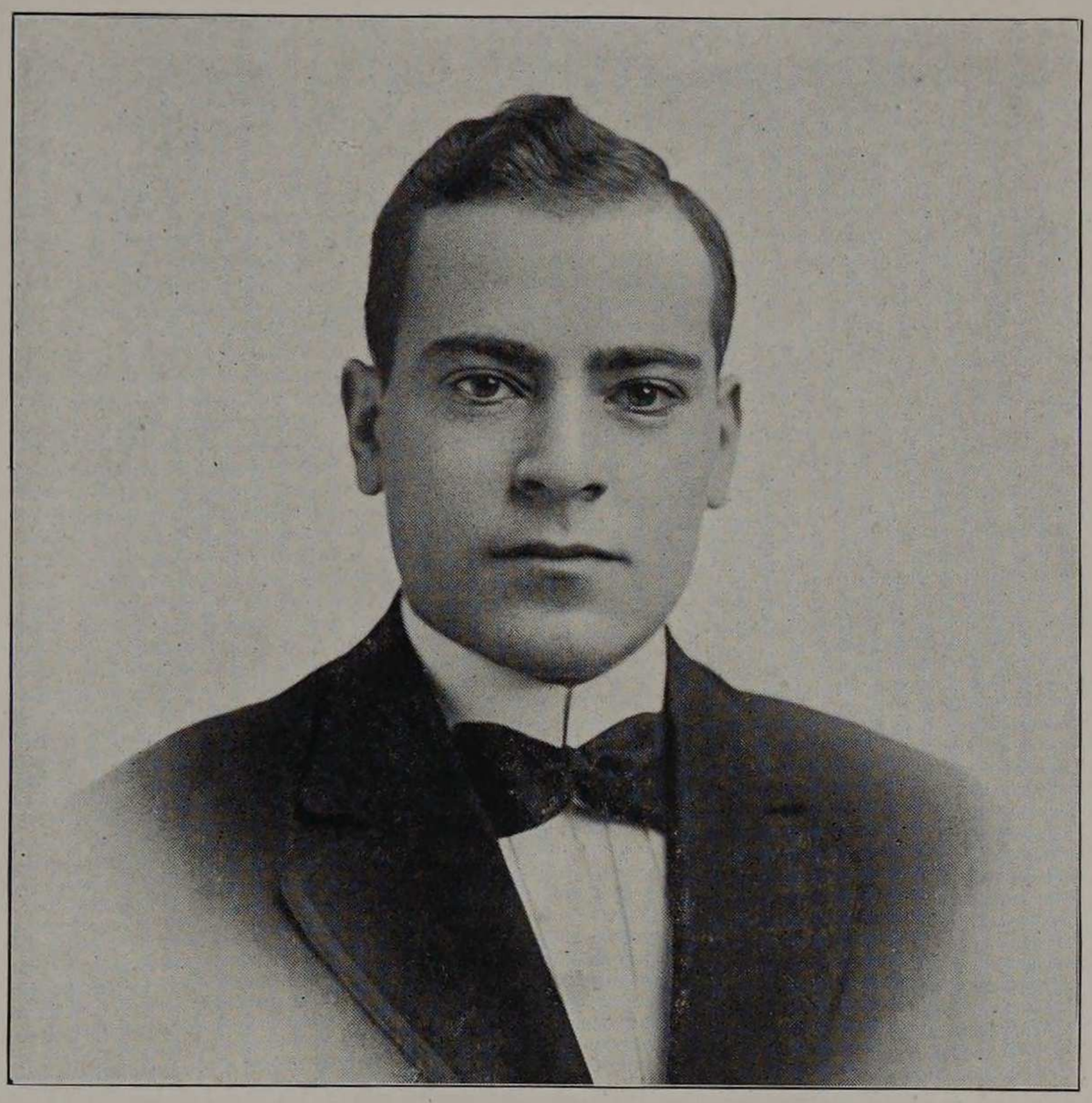
Thesis: *Effect of Frost on Concrete.*

Armour C. E. Society, Treas. (4)
Chapin Club, V. Pres. (3)
Smoker Committee (2), (3), (4)
Banquet Committee, Chairman (4)
Class Bowling (2)
Class Baseball (1), (2), (3), (4)

If you can't say it correctly just say "Dutch" and we'll get you. "Consulting Engineer Oehne," as he's been termed by the department head, first startled this little village on October 15, 1889 and doubtless he immediately gave discussions on the uselessness of sleep (for Dad). This latter truth is evidenced by the fact that he's been trying to catch up on sleep ever since. At the Civil summer camp in 1909 he went to sleep, standing up, between breaths and in fact in any conceivable way. Even now a chorus of snorts and snores occasionally disrupts the classroom discipline.

"Stogie" (?) that's Walt's middle name. He daily pollutes the atmosphere of the Civil office with his piece of clothes-line. But he is a good scout, nevertheless, and the civils are glad he did not stick to his original intention of becoming a mechanical, in which course he worked for two years, finally discarding the oil can and taking up the transit. He is one of the Chapin Club mainstays and the Treasurer of the Civil Society. We've given up hope of catching him unawares—guess he takes that yellow receipt book to bed with him. He is a charter member of the Breathe Easy Club. Walt says "Don't see any use of working during vacations as it is very fatiguing." He is a star pitcher and when he starts to waft them over the home plate, there's a crack in the atmosphere, a dull thud in Brainy's mitt, and the umpire yells Strike "Tuh."

His thesis consists of experiments on the Effect of Frost on Concrete. Though the cold weather vanished long before the work on this subject was completed, possibly he scorned the natural product and has been using some especially good frost of his own production, and the editor hazards a guess that it is the frost which gathers on the outside of the tall slim ones.



MARCUS A. PEISER

Thesis: *Investigation of Creosoted Wood Block Pavements.*

Class President (1)
Armour C. E. Society
Freshman Smoker Committee (2)

Business Manager Armour Engineer (4)
Asso. Business Manager, Armour Engineer (3)
Class Baseball (1), (2), (3), (4)
Class Bowling (1)
Class Basketball (1), (2), (3), (4) Manager (1)

On February 11, 1890, a round bright faced little fellow blinked happily, as his fond parents decided that Marcus was a good name for him. After graduating from the Forestville Grammar School of this city, he entered the Armour Scientific Academy, and while giving due attention to his studies, "Shrimp" managed to represent the academy well on the athletic field, winning the tennis tournament in his freshman year, and winning an A in basketball during his last two years. He was also a member of all class athletic teams during his academic course.

Mark graduated in 1908, entering the college the same year. His popularity and business ability was shown during his freshman year while serving as class president. He has been actively associated with class affairs ever since. During his second year he was on a smoker committee. In his junior year he was associate business manager of the Armour Engineer and this year he has succeeded to the managership of that publication.

He belongs to the Civil Society and is a very faithful member of Chapin Club, having devoted much of his spare time to the club rooms. During the summer camp session of 1908 Mark was one of the Hooligan bunch, being carried about by a pair of high boots, which he in company with the other freshmen regarded as the first requisite of a civil engineer. The following summer he worked for the Western Electric, and last summer he enrolled at the University of Illinois. Being a true Armour man he could not be happy with his new love, and so was back with us again when the fall term opened. If Mark's thesis is not a work of art, we feel sure that it will be a business proposition and we wish him all the luck in the world.



EDWARD PAUL RATKOWSKI

Thesis: *Design of a Double Track Bridge with Inclined Top Chords.*

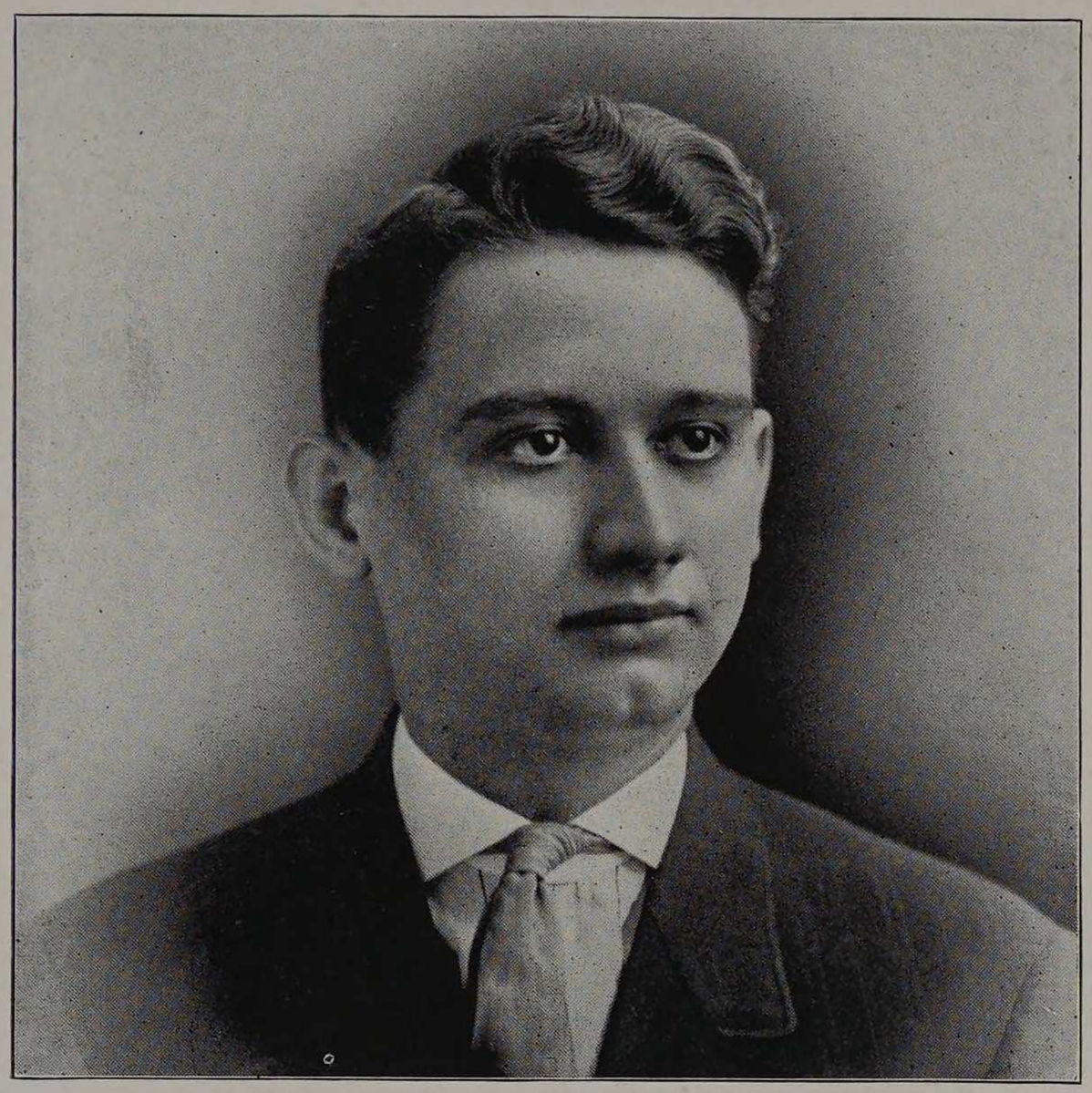
Armour C. E. Society

City of Chicago, County of Cook, State of Illinois, is the way the election commissioners have put it down, and he sure is some politician. You can tell that by his tips as to how to place your money on election day. "Rat" always has the right dope on how the election is going to turn out. While he sometimes hangs (for us) the "23" sign on a candidate, by saying that so and so is our next mayor or whatever the job may be, still we firmly believe that he will, on leaving school, soon appear on the city engineer's payroll.

Ratkowski prepared first at the St. Stanislaus Kostka Parochial School, and next by entering Lewis Institute. After leaving Lewis in 1904, he gathered together some practical experience, while working for his father at contracting and building. In 1906 he came to Armour and has since been with us as a member of the 1912 class. He was one of the boys who attended summer camp at Kremlin, Wis. last year. He was a member of that aristocratic organization "The Burnt Rod Club," his chief claim to fame being a phillippic delivered following a siesta with the mosquitoes, beginning "I could roll on the floor and yell and yell."

Amundsen missed an able assistant in his hasty dash to the South Pole by not waiting for Ratkowski, who was apparently in training for the job last summer. He faithfully donned a heavy hunting coat, hat and high boots, regardless of the heat of the day, and we understand that he discovered and planted a flag on an island in the Menominee River, which proved on investigation to be the home of a rat.

Ratkowski is an earnest worker and of an afternoon can usually be found in the drafting room attending to business. For some months past he has been working on his thesis, and his work on this subject has been fully worthy of his skill as a designer and draughtsman.



FRED SCHMIDT

Thesis: *Value of Water-proofing Concrete.*

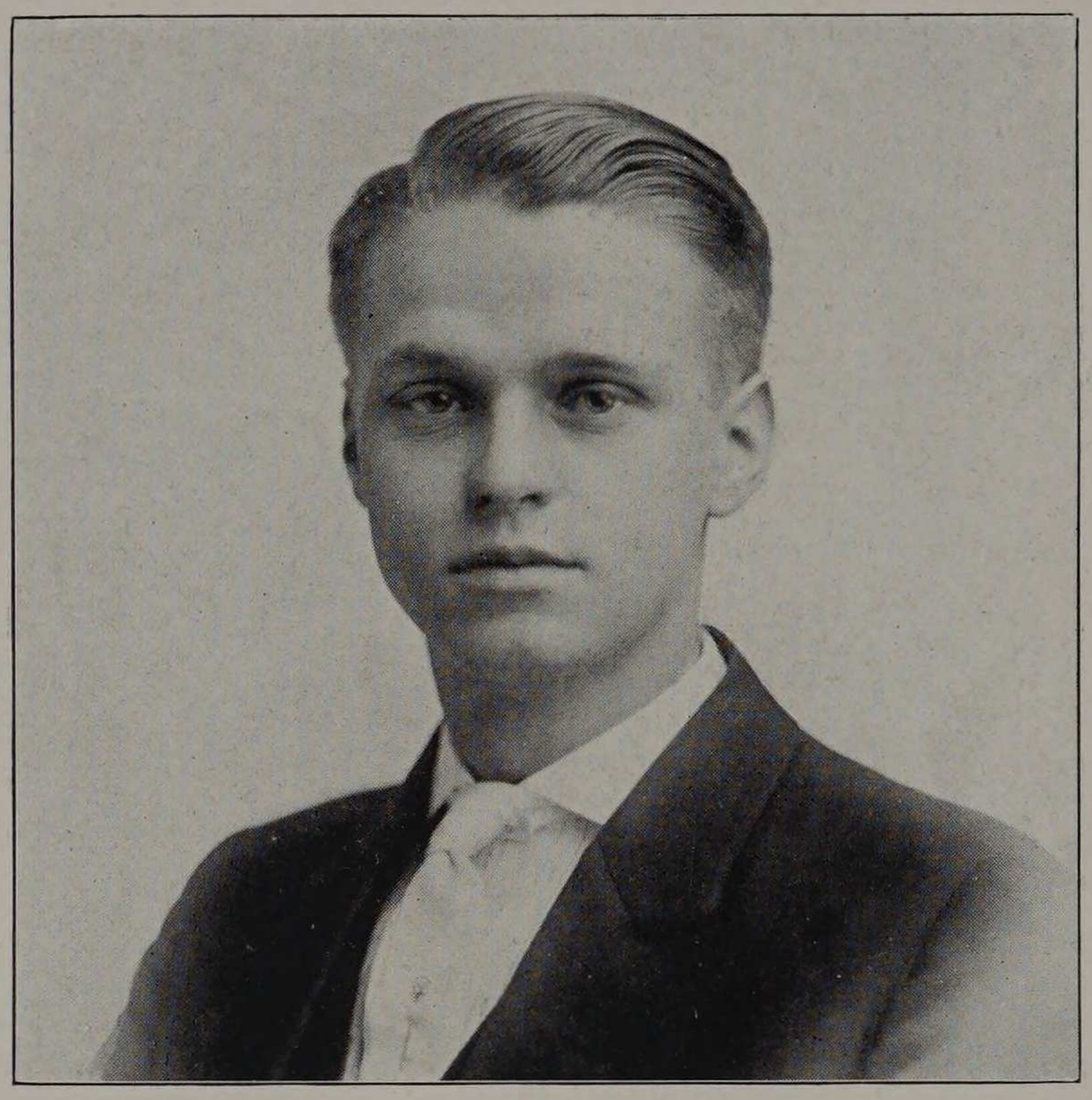
Glee Club — Armour C. E. Society

"Fritz" is one of the boys who came into our class this past year. He failed to graduate with the class of 1911 because he was out of school one semester. He looks more like an Arab in color than a German but his classical features and true, jolly personality give him away as a son of "Der Vaterland." He has been a sort of an oracle to some of us as he had completed the second half of his senior work and so was able to "put us wise" on a few things.

Fritz was one of the instructors this past summer at the camp in Wisconsin, and on returning to school was appointed grand keeper of the instrument room and has been giving daily exhibition of how to set up and pack an instrument, to say nothing of filing catalogues.

After the summer camp was over, he worked for the C. & N. W. R. R. on the Galena Division, and for two months lowered the elevation of ballast stakes from two to five feet. That's some good exercise for the back muscles. Fritz has had some good practical experience and can set up and run a "gun" like a veteran.

He received his diploma at the end of the first semester of this year and immediately started working for the St. Paul as one of their engineers. He is at present located in Iowa and any wishes for his success are superfluous as he is already making good.



WILLIAM ROBERT SWANSON

Thesis: *Effect of Frost on Concrete.*

Glee Club (3), (4)

Though the family Bible tells us that he first appeared on May 14, 1890, it was not until 1908 that he came to the Tech. His aristocratic handle, "W. Robert" with the surname Swanson tell us that he is of that Viking stock, bred in Sweden. His credentials show that he was graduated from the R. T. Crane High School in 1908.

If you could see the innocent pained look in Swanson's eye when some poor fellow is made the butt of an excellent joke, you would never think to accuse him of being the instigator of the same. But "still water runs deep" and it's usually Swanson's feet that scrape restlessly on the floor when some versatile class mate is trying to fool the professor into thinking that he has studied that day's lesson.

He is certainly faithful, having reported for Glee Club practice the second year. At the summer camp in 1911 he obtained considerable notoriety as one of the lady barbers, and also for his good work in organizing the "Burnt Rod Club." Swanson's real art, however, is starting an argument, while in the Civil draughting room, with a man down in State Street and pretending all the time that he is conversing with you. The immediate result is that when an instructor asks that the disturbance be taken outside, Swanson cheerfully grins and leaves his friend to hold the bag.

He has been working with Oehne and Malzen on thesis work to determine the effect of frost on concrete. His chief duty has been to give notice of the enemy's approach and as the cement lab. door creaks he shouts "shovel." Immediately everybody starts to do something and, as Mr. Dean steps into the laboratory, he beholds Swanson wildly shoveling, Oehne mixing, and Malzen pouring concrete into moulds. But with all that, Swanson is a good, hardworking fellow, who will not be left at the post and whom we are glad to call our friend.



GAGE REX WAMSLEY

Thesis: *Reinforced Concrete Bridge.*

Tau Beta Pi — Armour C. E. Society

May 7, 1887, Kaneville, Illinois, was honored by the birth of Gage Rex Wamsley, the coming chess and checker champion of the world. Contrary to our expectations, little Gage Rex was a noisy and erratic baby and caused his worshiping parents much anxiety. He entered the grammar school at Elburn, Illinois, but his parents soon found it necessary to move to Chicago, as he absorbed all the available knowledge in the country school on short order.

In 1903, the world first heard of him, when he entered Wendell Phillips High School. After establishing an excellent record in scholarship, he graduated in 1907. Thinking that he might be able to give the faculty a few pointers, he entered the Tech in 1907. His finer instincts prompted him to wait for the class of 1912, and during this year of waiting we find him employed as draughtsman for the Joliet Bridge and Iron Co.

In the fall of 1909 he re-entered Armour and has applied himself conscientiously to his work since then. To the surprise of many, he ran a close second in the All-Around Athletic Contest of 1910. He has spent a good deal of his spare time profitably, by drawing maps for the Sarasota Sand Co. of Florida. During the summer months he has given vent to his artistic temperament by working at the printer's trade. This year he has been chief assistant to the Civil faculty and the friend of the flunkers. His chief outside diversion is, however, playing chess and checkers. At these games he is a whirlwind, being a member of several chess and checker teams of the city.

Wamsley is one of those quiet hard-working fellows who help to raise the standard of the engineering profession, and whose success is certain.



THOMAS FRANCIS WOLFE

Thesis: *Design of a Standard Reinforced Concrete Railway Trestle.*

Armour C. E. Society

Wolfe has the distinction of being our one and only auburn haired beauty. During his infancy Thomas, or "Red" as he was later called, acquired the habit of absorbing knowledge with little or no effort on his part. Upon entering high school, he acquired new habits. Instead of endeavoring to further his already vast stock of learning, he desired to test how much rough house a high school instructor could stand before ousting a pupil from the room. As he wished to get his information first hand he proceeded to stir things up and then getting other fellows blamed for it; for who could accuse an auburn haired angel of being a cut-up.

He entered the Tech in the fall of 1908, from the Wendell Phillips High School, and at once attacked the problem of how to get through a subject without doing any work in it. That Tom was successful in compiling data on this is shown by the fact that he entered his senior year without a condition. He certainly knows all about the subjects he took, but believed in not telling the instructors too much for fear they might suspect him of studying.

To predict a future for Wolfe would tax the strongest imagination, for his capabilities are unlimited, and we are sure that in the near future we will all take off our hats to Thomas F. Wolfe, the world's famous Titian haired engineer.



"CHECK"

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

The past year has been a very busy one for this branch of the American Institute of Electrical Engineers. With but three or four exceptions, a meeting has been held every second and fourth Wednesday in each month throughout the year. It has been the object of the society to train the student in public speaking, to give him an opportunity to hear and meet men prominent in electrical engineering work, and to promote friendship among the upper classmen and the faculty of the electrical department.

The program for the year was arranged so that one of the monthly meetings was addressed by a man prominent in electrical engineering work and the other by some student member of this branch. The following is a list of the addresses and papers presented during the year:

A Few Hints to the Engineering Student . . . . . Dean Raymond
The Prectical Application of the Gyroscope . . . . . Professor Wilcox
Financial and Engineering Features of Hydro-electric Development . . . . . C. E. Freeman, '97
Engineering Application of Storage Batteries . . . . P. G. Downton, '09
Railway Signaling . . . . . T. S. Stevens
Outdoor Arc Lighting . . . . . C. R. Schuler, '12
Power Development by the Winnipeg Electric Railway Company . . . . . H. A. P. Langstaff, '12
The Chicago and Northwestern Railroad Signal Equipment . P. A. Strong, '12
Electrical Equipment of the West Side Metropolitan Railway, V. Pagliarulo, '12

The social program for the year was made a secondary matter and consisted of a dinner, served at the meeting on February 14th, and a banquet, given April 11th.

OFFICERS FOR THE SCHOOL YEAR 1911-1912

E. H. Freeman . . . . . *Local Secretary*
L. H. Roller, '12 . . . . . *Chairman*
F. A. Graham, '12 . . . . . *Student Secretary*
R. L. Walsh, '13 . . . . . *Treasurer*

ELECTRICAL



1912



OSCAR FERDINAND ABRAHAMSON

Thesis: *Hydro-Electric Power Development on the North Platte River, Wyoming.*

Eta Kappa Nu

Nebraska Club

Armour Branch, A. I. E. E.

Oscar F. Abrahamson, more familiarly known about school as "Abe," comes to us from that state famous for its orator and oft-time presidential candidate, W. J. Bryan. Holdrege in the state of Nebraska is his birthplace and August 20, 1887 the date of his birth. He received his grammar school and high school education in this town of Holdrege, graduating from high school in 1907. He became interested enough in electricity in high school to choose it, at that time, for his life profession. Immediately after completing his high school course, he worked at wiring contracting for a year but soon discovered that the field of electrical work could best be covered after a thorough training in the theory of electricity.

Therefore, in 1908, he came to Armour and registered in the electrical course. At the close of his first year at Armour, he went back to Nebraska and, as evidence of the value of a trained man, had charge of a wiring department. During the past two summers he has worked in the civil service of the City of Chicago. During the school year, he has been Librarian in the Armour Evening School. Although Abe's political aspirations are not as yet as great as those of his fellow Nebraskan, Wm. J. Bryan, it has been rumored about school that he has already been a candidate for office under the City of Chicago.

He is a member of the Nebraska Club at Armour and enters into its activities as a loyal Nebraskan should. He is also one of that famous coalition of engineers, composed of the two Armstrongs, Graham and Abrahamson. This coalition formed some time ago to perform laboratory experiments and is a lasting organization. They have recently been occupied with the design of a hydroelectric plant for the North Platte River in Wyoming.



GRAHAM ARMSTRONG

Thesis: *Hydro-Electric Power Development on the North Platte River, Wyoming.*

Tau Beta Pi
Eta Kappa Nu

Armour Branch, A. I. E. E.

March 29th of the year 1886 marks the beginning of our South African friend's career. "Army" is of Scotch parentage, but born under the Orange Free State flag—or, in other words he is a "Blikoor." Although he was born in the city of Bloomfontein, he was soon transplanted to the farm, where, during the hours not devoted to the performance of those delightful chores which go to make farm life so interesting, he received his primary education, inflicted by three governesses. In 1897, he went to the government boarding school, Grey College at Bloomfontein, where he received his first taste of boarding house food. He went to school as long as the doors were open, but, when the schools were closed on account of the war between England and the Transvaal, he had nothing to do and so we find him enlisted as one of the Army Cyclist Despatch Riders, carrying despatches from camp to camp. The war over, Army set about to sell hardware and later worked for an electrical construction company. During the next four years he did his best to further the interests of his company in South Africa.

In June, 1907, he sailed for England and then on to the United States. His experience in the electrical field showed him the necessity of higher education, and September, 1907, found him enrolled as a Senior in the Armour Scientific Academy, and one year later he made his debut as an electrical in the college. During the past four years of scholastic work, he has made many warm friends and done excellent work in his studies. As he is a good fellow and a good student, Tau Beta Pi felt well satisfied to mark him with the Bent. If his friend "R. C." is noted for his acquaintance with the Maori songs and folk lore, equally noted is Army for his knowledge of the Zulus and their customs. It is quite a sight to see Army give the Zulu war dance in costume.



RICHARD CHARLES ARMSTRONG

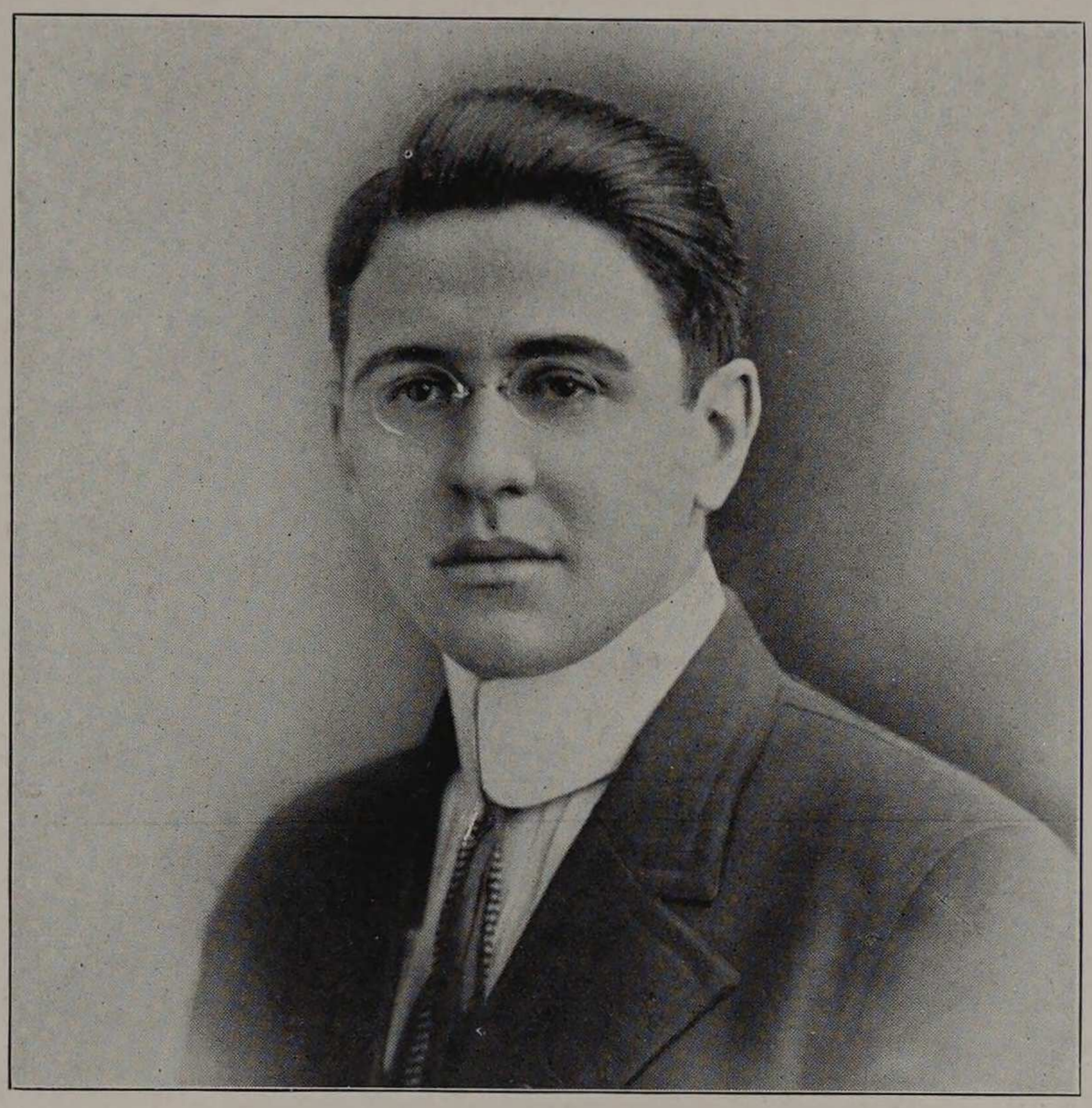
Thesis: *Hydro-Electric Power Development on the North Platte River, Wyoming.*

Tau Beta Pi
Eta Kappa Nu

Armour Branch A. I. E. E.

Armstrong, better known about Armour by his initials, "R. C.," comes to us from the Otago Goldfields, New Zealand. As the birth records of New Zealand are not at our disposal, and our subject displays a maidenly reticence on the subject, it is with a slight hesitancy that we say that the man with the perpetual smile was born on the eleventh of December in the year 1884. "R. C." is of Scotch-English ancestry. He began his education by reading "The Pilgrim's Progress," "Robinson Crusoe," and the family newspaper. Later he attended the Lander District School, and, when he absorbed all the knowledge they had for him, he returned to the farm. Here he tilled the soil until the desire to see a little of the world and learn things first hand overtook him.

After travelling for many months, his steps were directed, by some piece of good fortune, toward Chicago. It was in the summer of 1908 that our six foot man of smiles arrived in Chicago. Believing in the adage that a little knowledge is a dangerous thing, he decided to be on the safe side and set about to accumulate knowledge at the Tech. He chose the electrical course and has applied himself vigorously. He is the star of Prof. Snow's Power Plants class, his position as apprentice operator for the Commonwealth Edison Company enabling him to take first place. He is a cheerful and untiring worker and has employed his time always to the best advantage. He is also noted for his ability to keep a straight face when the occasion demands. He has been working evenings for the past two years as instrument man in the Armour Evening School and has yet been able to devote more than the requisite amount of time to his school work. R. C. is strong on New Zealand stories, and has been known to do a Maori War Dance before a very select audience. He will leave many friends behind him who wish him success, in building power plants in the far off Southern Seas.



JULIUS CASPAR BLOOMFIELD

Chapin Club — Junior Play, Class 1911

A comedian was born in Chicago on January 28, 1890. His name was Bloomfield, to which was prefixed "Julius Caspar," and then the whole subsequently shortened to "Bloomy." He spent several years of his earlier life cracking jokes at the Washburn Grammar School and the Medill High School, and then read up on a brand new line and came to Armour where, in 1907, he registered as an Electrical.

During the following four years, he exerted himself to the utmost to make life endurable for the other unfortunates at Armour. Without him, the class of 1911 would certainly have been deprived of a large part of the fun it enjoyed. Besides his reputation as a joke maker, he was also well known among his classmates as an indefatigable "bluffer." There was nothing so difficult in McAllister or Sheldon but that Bloomy could talk upon it half the period without a minute's warning or preparation. It has often been recorded that he has interrupted himself in the midst of telling a good joke to show Freeman just where he was wrong. As an actor in the junior play "Professor X," he "brought down the house."

In athletics. his strong point is tennis, and, any day during summer school last year, when it was not unbearably hot, he and Nachman could be found having it out over at the Armour Square courts. Of course, this may have been his way of getting through his draughting, but we doubt if it helped much, for, while they were the best of friends on the tennis courts, a little later when they returned to the top floor of the main building, it was instructor and pupil again, between whom absolutely perfect friendship is impossible.

Bloomy finished up at Armour last semester and we have all, especially those who frequent Chapin Club, missed his continual joking and his unruffled good humor.



HARVEY ALVIN DREW

Thesis: *Rehabilitation of the Municipal Electric Lighting System at Downer's Grove, Illinois.*

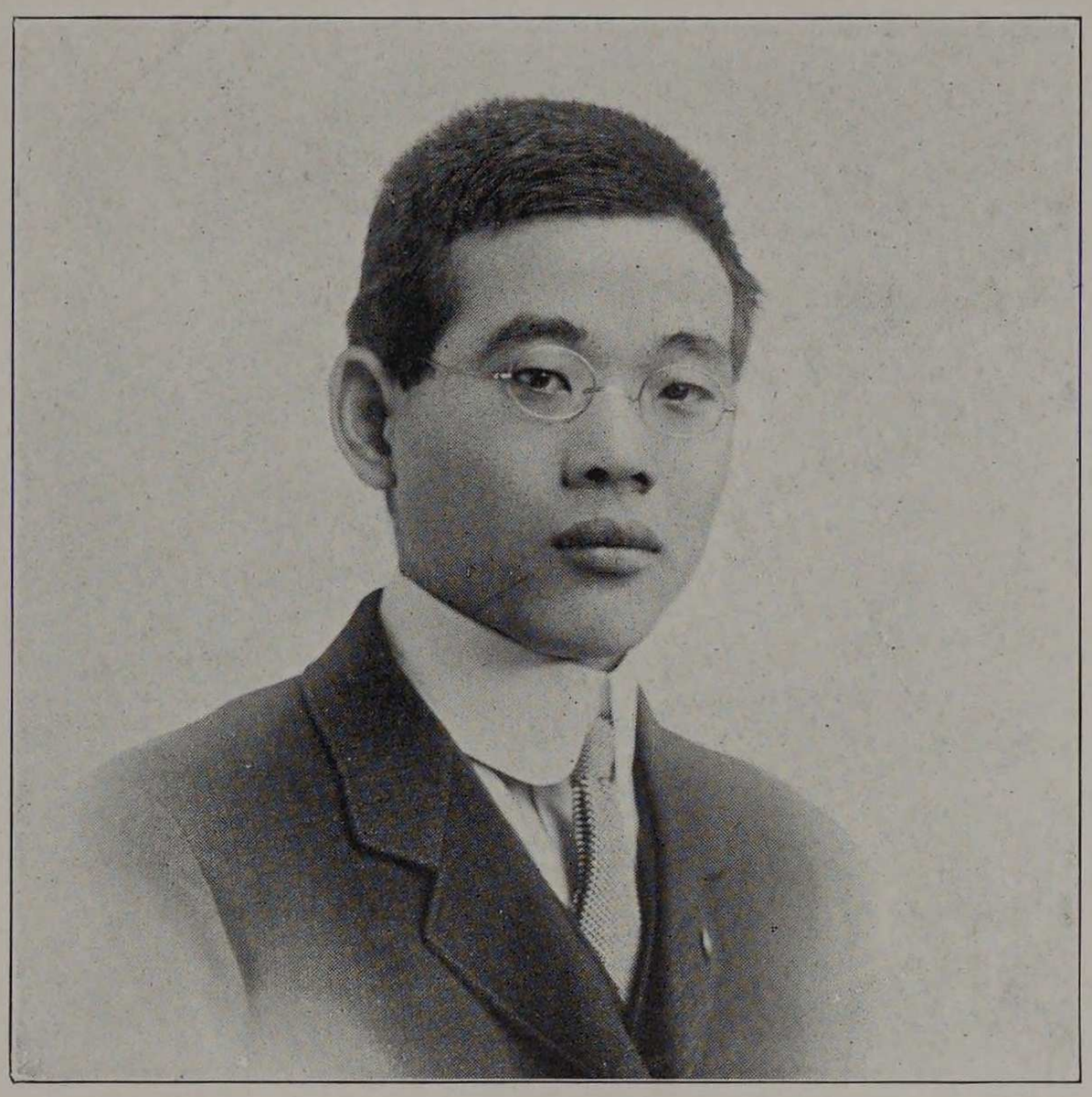
Eta Kappa Nu
Chapin Club
Armour Branch, A. I. E. E.

Class Basketball (3), (4)
Class Baseball (4)

Harvey A. Drew, of Downers Grove, first saw the light of day September 22, 1890. Incidentally, that year seems to be a favorite one in the history of '12. The Downers Grove must not be omitted when speaking of Drew. That is a breach of etiquette that could not be tolerated. Downers Grove seems to have offered plenty of inducements in the line of preparatory work, for our classmate seemed content to remain there through his high school days. Then, however, Downers Grove could do no more for him, hence he turned his attention to one of the smaller suburbs of the above mentioned metropolis, choosing Chicago and with it Armour Institute, which he entered in the fall of 1908.

He makes the trip from here, back and forth daily and the C. B. & Q. R. R. station agent now sets his watch upon the appearance of one H. Drew. Certainly he will be missed after May, 1912. In the town of Downers Grove he was a popular man and hence could not enjoy life in solitary seclusion. Hence he early joined the Chapin Club and became a member of the celebrated Group X of the Club. Not content with so many honors he became a member of the Armour Branch of the A. I. E. E. in his Junior year and a member of the Eta Kappa Nu fraternity in his Senior year.

Realizing and appreciating to the utmost the advantages his home town offered him in his youth, he early made up his mind to return to her something in the way of a token of his esteem. Not being able to donate a library or a town hall, he did the next best thing and during his senior year we find him deeply engrossed in the "Rehabilitation of the Municipal Electric Lighting System at Downers Grove, Ill." which incidentally he will turn in as his thesis. After this system has been installed the C. B. & Q. R. R. can turn off the lights in the trains at night while passing through the town, and the town constable may sleep in peace.



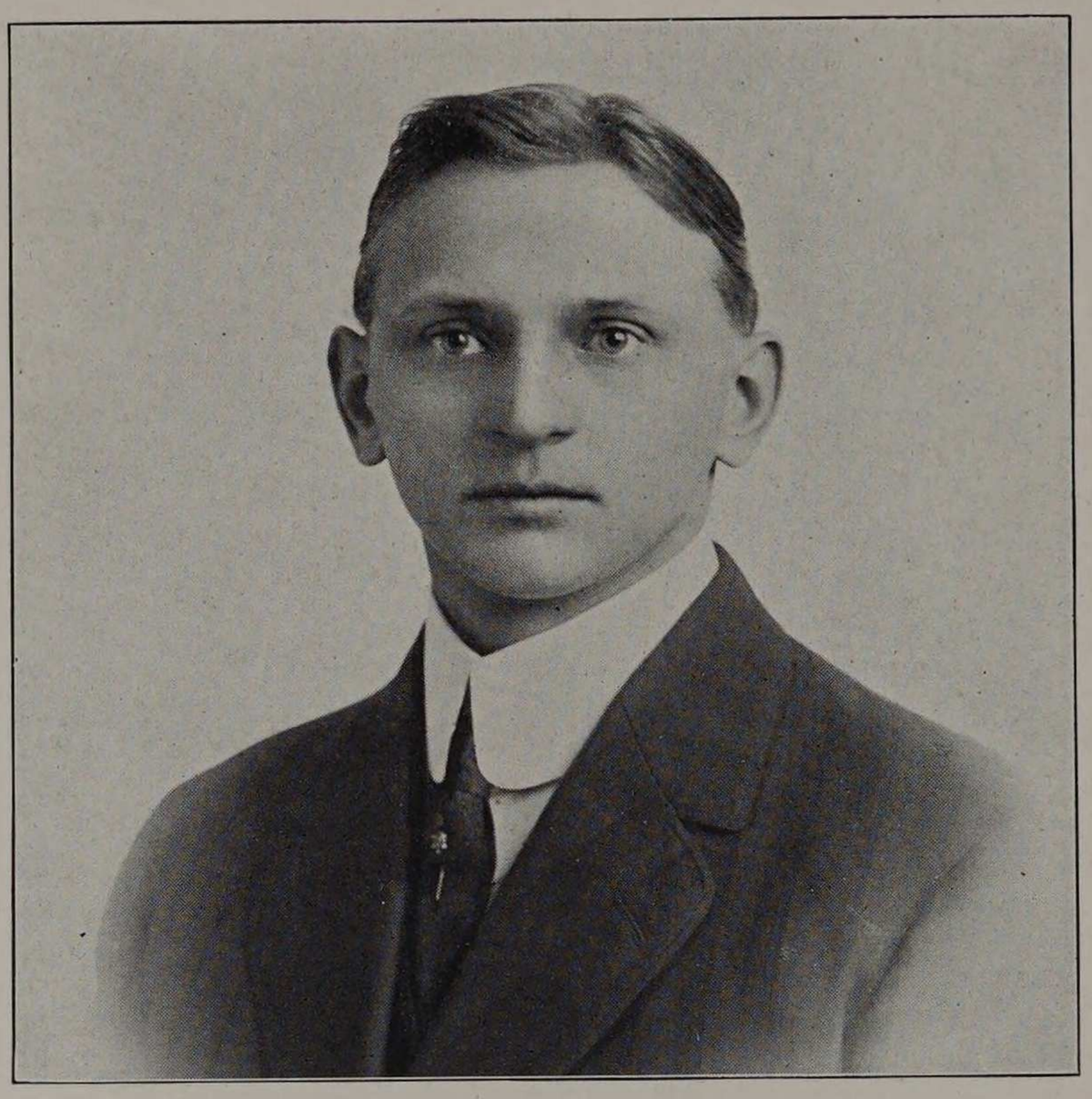
TOYOZO ENOSHITA

Thesis: *The Design of an Electric Locomotive for the C. B. & Q. R. R.*

The department of electricity has drawn its roll from many states and from some distant countries. One of our friends calls his home an island of the far east. On October 8, 1886, Osaka, Japan, increased its population by at least one. He was destined to come to us and we have never regretted that such was the case. Toyozo Enoshita obtained his early training in Japan, graduating from one of the primary schools of Osaka in 1902. His preparatory school work was finished in Japan as was part of his college work. He was for a short time at Waseda Middle School, a part of the institution now on such friendly terms with the University of Chicago.

Saying farewell to his native land January 30, 1908, he arrived in Seattle, Wash. on February 18, 1908 and entered Armour Institute in September 1908. Since then he has been constantly with us and has been numbered among our most earnest students. "Ennie" as he is sometimes called, has given us many pleasant talks and descriptions of the far east and they never tire us. Sometimes we notice a far off look in his eyes and wonder who is calling to him from far across the water. He had intended to take up the student course at the General Electric Co., but the longing for his native land has become too strong and he will leave shortly after saying farewell to Armour and the department of Electrical Engineering. Some of his descriptions of transportation in Japan show us the necessity for some line of improvement in that respect and so he has taken "The Design of an Electric Locomotive" as his thesis. Realizing the importance of "Lord Kelvin's" work in the same line he has designed an electric locomotive for the C. B. & Q. R. R.

Enoshita has not determined upon his line of work when he returns to Japan but it will probably be illumination of theaters since he has developed a most extraordinary liking for the General Electric Bulletin on stage illumination. We look foward to some changes in Japanese electrical development upon his return.



GEORGE CLARENCE ERICKSON

Thesis: *Design of a Power Plant for a Modern Hotel.*

Armour Branch, A. I. E. E. Usher, Commencement, 1911

Erickson was born in Chicago, January 30, 1885, and has since honored the place of his birth by living there up to the present time. After graduation from the Hawthorne School of Chicago in 1899, he became imbued with the idea of becoming a financier, hence entered the Metropolitan Business College. The humble position of financier in so large a community as Chicago losing its charms after a time, the future trend of his life was changed. Without hesitancy he chose the brilliant field of Electrical Engineering for his life's work and will undoubtedly make good. His preparatory training was accomplished at the evening school of the Central Y. M. C. A. by dint of hard work, and, to show that appreciation of the work of one who is willing to help himself, the school awarded him a scholarship in his last year.

He joined the Armour Branch of the A. I. E. E. early in his junior year, since he realized the importance of an association with such an organization in his chosen profession.

Realizing that the Sherman House, one of our newest and finest hotels, could increase their return on the investment by generating their own power, he has for some months been in daily consultation with his colleague, Mr. Meade, and with the managers of the hotel trying to prove his contention. Incidentally he has made this work his thesis but we must not believe this the important part but rather that he firmly believes in his ability to make an application of his training. It would not surprise us very much if we should hear some few years hence that the Sherman House actually did make use of his ability and installed the suggested improvement. We wish him success in his endeavor and in his future life and work.



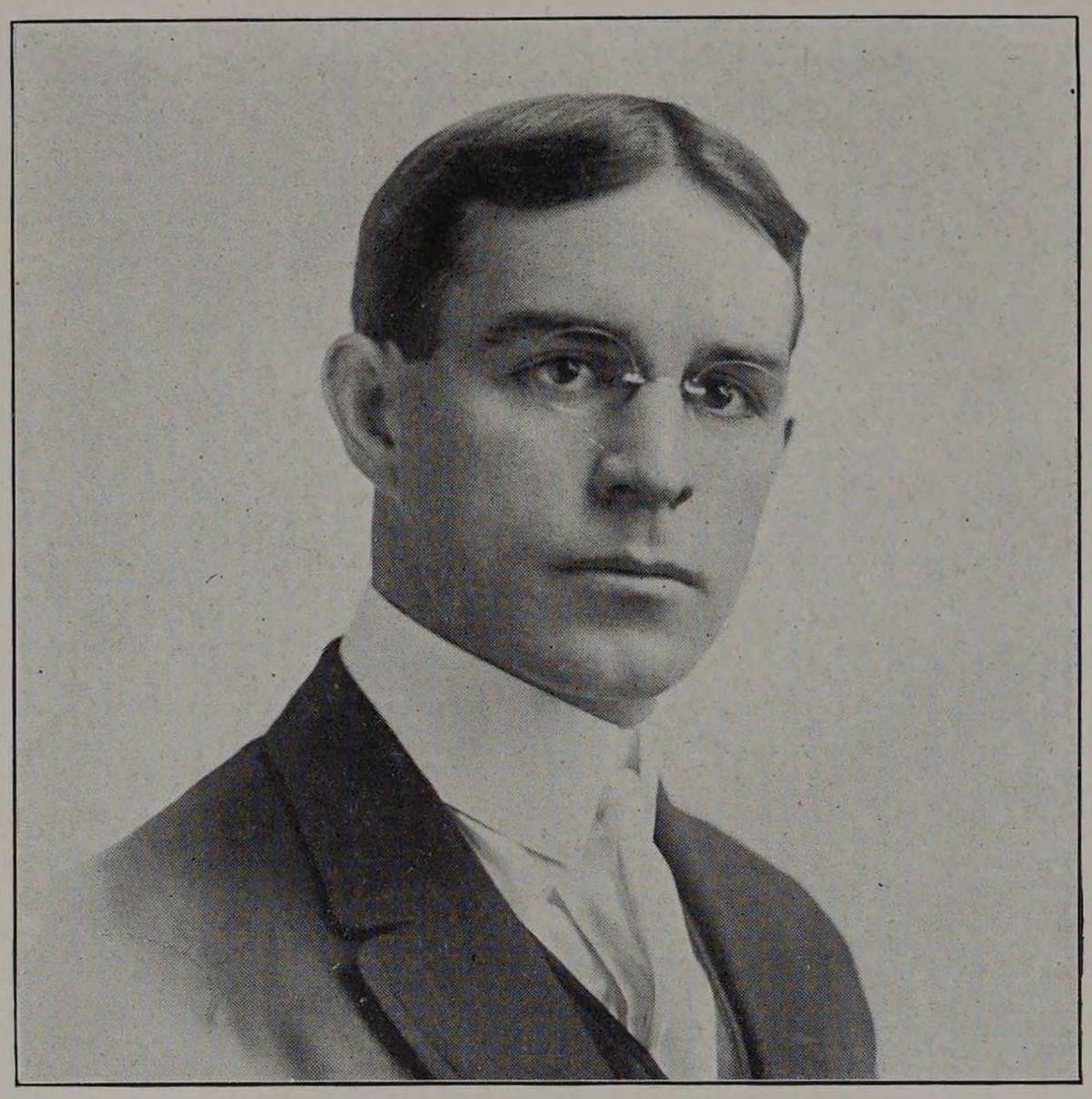
PERCY WILSON EVANS

Thesis: *Tests on the Gravity Cell.*

Delta Tau Delta	Managing Editor, Fulcrum, (2)
Tau Beta Pi	Editor-in-Chief, Senior Class Book (4)
Eta Kappa Nu	Armour Branch, A. I. E. E.
Radical X	Armour Branch, A. S. M. E.
Sphinx	

"Pee Wee," as our friend, Evans, is called by those misguided youths who have no appreciation of his dignified position as editor-in-chief of this, our Class Book, is a Texas product, and better yet, from Fort Worth. After finishing the Fort Worth High School in 1907, he attended the University of Texas, starting at that school his career as an electrical engineer. Finding the pace a trifle too slow, and at last getting tired of the program of doing the week's work in the first three days and then having to loaf for the other four, he came north and started at Armour.

Besides carrying a heavy program, Evans has worked as a substation operator for the Sanitary District, helped Armour & Co. make the engines go, kept up his end of the social whirl, and has done some good work on the Armour publications. He makes no secret of the fact that he has been lucky enough to secure for himself a life-partner, and is much envied in consequence by his brother "Delts."



FRANK ALLEN GRAHAM

Thesis: *Hydro-Electric Power Development on the North Platte River, Wyoming.*

Tau Beta Pi
Eta Kappa Nu

Armour Branch, A. I. E. E. Secretary (4)

It was back in 1885 on the 20th of February that Graham first saw the light of day. Maxson, Kansas, is the town which is proud to be the birthplace of this promising engineer. After receiving what public education could be had in his native town, he entered the Lewis Academy at Wichita, Kansas in 1902. He graduated in 1905 and went back to the farm for several years. Inasmuch as Kansas ranks high among the farming states of the Union, he decided to stick to the plow, but wished to do it a little bit better than anyone else. Accordingly he went to the Colorado State Agricultural College in 1907, and studied how to raise wheat and corn. After spending two years at this college, Graham cross-examined himself and found that he was not adapted to farming. He wanted some occupation where brains counted more. Engineering filled the bill and he came to Chicago in 1909 and registered as an electrical at Armour.

Graham is well known among the students in the electrical course at the Tech because of his active interest in the affairs of the Armour Branch of the A. I. E. E. He has been very successful in arousing the interest of the undergraduates in the society. He is also active in Tau Beta Pi and Eta Kappa Nu.

He is a hard worker and a brilliant student. He has allied himself with three other hard workers, the Armstrongs and Abrahamson, for the purpose of preparing a better than ordinary thesis, and we have no doubt that in their hydro-electric plant this purpose has been accomplished.



FRED GEORGE HAZEN

Thesis: *Proposed Electrification of the Chicago Terminal of the C. B. & Q. R. R.*

Armour Branch, A. I. E. E.

In Cambridge, Mass. on May 25, 1890, there came into existence in that celebrated and select community, George F. Hazen, later to be known as "Lord Kelvin." Surrounded by the highly intellectual atmosphere in the vicinity of Boston, he early showed that brilliancy of mind and force of character that was to earn for him his lordly title. His early training was obtained in the grade schools of Cambridge and of Rib Lake, Wisconsin. We are unable even at this late day to understand or figure out what took him to that small town after being accustomed to such luxuries as were afforded him in Cambridge. Be that as it may, we still find him in Rib Lake at the close of his preparatory career. Unable to decide in a short time what college he would attend, the next year found him at work. Realizing in the course of one short year that it was necessary to obtain a special training, we find him in the fall of 1908 at our door.

The first two years of his college life were spent in some seclusion learning the mysteries of college work. It was not until his third year that the class fully realized his worth and it was during this time that he earned his celebrated title of "Lord Kelvin" which has stayed with him until now. A firm believer in the great future of the field of Electrical Engineering, he joined the Armour Branch of the A. I. E. E. in his junior year and has been one of the most regular and firm supporters of the branch.

His first really important work has been dedicated to the C. B. & Q. R. R. whom he has honored by giving the solution of their terminal problems in his thesis. Working with him is one of the men in the same department who is a believer in Lord Kelvin's future as an Electrical Engineer. It may be only a few years before we see his terminal proposition put into practical use and the City of Chicago will be forever grateful to him for ridding it of the smoke nuisance.



HAROLD AUGUSTUS LANGSTAFF

Thesis: *Proposed Hydro-Electric Power Development on the Tallapoosa River in Alabama.*

Eta Kappa Nu — Armour Branch, A. I. E. E.

Nebraska Club, V. Pres. (4)

As her representative to the class of 1912, Canada has sent to us H. A. P. Langstaff. Born in Thornhill Ontario, October 4, 1888, he received his early education in Canada. In 1900 he migrated to Nebraska and finished his preparatory work at the Blair High School, graduating in 1906. He did not enter Armour until September 1907, having spent the previous year working as wire chief for the Nebraska Telephone Co. Langstaff has been a busy man during his school days. For two summers he worked with the Winnetka Electric Railway, was Assistant Instructor in Machine Shop at Night School during 1911-12 and is now operator for the Sanitary District of Chicago.

However, in spite of his numerous activities outside of our college circle he has found time to mix in our own interests and pleasures. That he has found it to his advantage to be actively interested in some of the college organizations, is shown by the fact that he is now president of the Eta Kappa Nu fraternity and Vice President of the Nebraska Club. As president of the Eta Kappa Nu fraternity, he has done much to raise that organization to its present standing in the department of electricity.

Recognizing early in the year the wonderful advantages of our natural resources, he and his colleagues have undertaken the "Design of a 36,000 H. P. Hydro Electric Power Plant on the Tallapoosa River in Alabama." Just the reason for going so far from home in undertaking such a task, we have been unable to figure out. For the convenience of our readers, we may state that the Tallapoosa River has its source in Georgia and flows southwest to about the middle of the state of Alabama, joining the Alabama River just above Montgomery. Undoubtedly we will hear from Langstaff again for, with this cheap water power combined with the reasonable labor of the south, our Northern and Eastern industries will have a strong competitor and it would not surprise us to see him as a future Wall Street financier.



WILLIAM ARVID LINDBERG

Thesis: *Tests on the Gravity Cell.*

Tau Beta Pi
Armour Branch, A. I. E. E.

Class Basketball (1), (2), (3), (4)
Class Baseball (3)

"Lindy" was born in South Chicago on the 18th of May, 1890. As South Chicago is a city where there are so many enterprises which mark the successful application of engineering principles, it is only fitting that our blond friend should eventually become an engineer. Furthermore, one who has been lulled to sleep by the thundering of the rolling mills and awe-struck by the scenic effects produced in the sky by the blast furnaces, ought to have instilled in him the desire to know the why and the wherefore of all these things. After having completed his grammar school course, Lindy entered the South Chicago High School in 1904. Armour Tech received him in 1908. Here he first came into the limelight, when the historic class rush brought so many into the public eye.

He has managed to do excellent work and at the same time enjoy himself. His so-called group X, which has for its other members Schuler and Drew, was organized to perform laboratory experiments and produce amusement for others. A visit to the laboratory any Monday afternoon during the past year would find these three seemingly engaged in laborious work, but, at the same time performing a few novel stunts. Lindy is quite a basketball player and has played on the class basketball team for the four years of the course. Unless he is scheduled for an afternoon in the laboratory or the draughting room, he can always be found in the gymnasium, showing the boys how the game ought to be played.

His ability as a scholar is shown by the fact that he is wearing the Bent of Tau Beta Pi. He is not afraid to tackle any problem, and never fails to make good in handling it.



WALTER GEORGE MARTIN

Thesis: *Proposed Electrification of Chicago Terminal of C. B. & Q. R. R.*

Armour Branch, A. I. E. E.
Y. M. C. A.

Assistant Editor, Senior Class Book (4)
Class Picture Committee (4)

On the first of May, 1888, when most people were signing leases on property for the ensuing year, W. G. Martin signed his lease on life. He was born in Chicago and it was in this busy city that he received his education. He spent his early school days at the Kozminski Grammar School and later attended the Hyde Park High School. When he graduated from high school, he, like thousands of other boys who have just completed high school, decided to go to work. One year of work sufficed for him, his good common sense telling him that a technical education would net him more in the long run than would an early start in the business world.

In 1908, he enrolled in the electrical engineering course at Armour and since that time has applied himself diligently to his work. Martin lives in Hyde Park and his proximity to the Illinois Central Railroad tracks and his early acquaintance with the soot and dirt from these trains are in a measure responsible for his choice of a thesis subject. Although his thesis will deal with the electrification of the C. B. & Q. R. R., it may also be applied to the Illinois Central Line. He is noted for the rapidity with which he works, as he is usually through with the semester's work in drawing or in the laboratory before others have become fairly started. He is a member of Prof. Barrow's class in illumination and already has collected more catalogs from the gas and electric light companies than an ordinary person could collect at an automobile show.

Martin has managed to get a little more out of going to college than just a technical education. He has derived much pleasure from the social events about school and is able to drive all thoughts of books out of his head when such an event is at hand.



GARRETT RAYMOND MEADE

Thesis: *Design of a Power Plant for a Modern Hotel.*

Tau Beta Pi — Eta Kappa Nu

Meade is one of those men who say little but accomplish much. During all four years of his stay at Armour he has been employing his time to the best advantage. Truly with him rest is best found by a change of work, for when he was not writing reports he could be found poring over a text book. He has the ability to get started in his work, and we all know that a good start is half the battle. He is a Chicagoan, having been born here, April 23, 1891, and despite the paucity of his years, one would surely think our little Raymond a full grown man.

He received his primary education at St. Agatha's School and prepared for Armour at the R. T. Crane High School. Thus he was one of those lucky boys who were excused from digging in the sand in the foundry, building fires in the forge shop, turning in the pattern shop and filing in the machine shop. Of course he had all this work at Crane but he was small then and they let him down easy.

Meade and Erickson have chosen for a thesis the design of a hotel power plant. Almost every day for the past four months they have gone down to the Sherman House, as though they had a suite of rooms there, but if one follows them closely, he will see them quietly go down to the basement to see the power plant. Meade is a natural born worker and will do much to elevate the standard of Armour men in the engineering profession.



JOHN CHILION MICHAEL, JR.

Thesis: *Comparative Test of a Boucherot Induction Motor.*

Tau Beta Pi
Eta Kappa Nu
Armour Branch, A. I. E. E.
Class Basketball (2), (3), (4)

Associate Editor Senior Class Book (4)
Assistant Editor (Elect) Integral (3)
Cap and Gown Committee, Chairman (4)
Smoker Committee (4)

We are not "kidding" when we say that October 23, 1890, has a very special significance. If every day in the year could produce a John C. Michael, time would be justified. But, as such is not the case, we must be satisfied with those instances where time has made good. It may be surmised from the above that "Mike" was born on October 23rd. Such a surmise would be correct. We may further add that this important happening occurred in Chicago. Contrary to the custom of most babies, we have it on the best of authority that Mike was sensible enough not to waste much time and energy crying. It is thus that we see at the first his predominant characteristic of keeping his mouth shut and getting there, a trait which, on account of its being so seldom observed, always receives due commendation.

But to return to our story, when Mike finished grammar school, he entered the Lake View High School, where he made an exceptionally good record. He graduated in February 1908, and, until the following September, was employed by a firm of patent lawyers and later by the Chicago Telephone Co. He then entered Armour.

He first distinguished himself here as a "Math Shark." When everybody was bemoaning certain difficult parts of the famous book on mathematics by one of our faculty, Prof. Pell used to point at Mike and say "Luke at Meester Mikal, everything iss easy for him." It has been the same story throughout his other courses. He has played on the class basketball team for three years, has been a member of a number of committees, is Associate Editor of the Class Book: in short, has been enthusiastic and active in a large number of class and school affairs. What makes it better, he has kept his mouth shut all the while.



HARRY ELI NOREN

Thesis: *Comparative Test of a Boucherot Induction Motor.*

Tau Beta Pi
Eta Kappa Nu

Armour Branch, A. I. E. E.
Commencement Committee (4)

Harry Noren was destined to enter the engineering field. From early youth he surprised all the boys of his neighborhood by his remarkable ability to make useful things with a few tools. He had a little shop in his basement and spent all his spare time keeping it warm. The desire to have apparatus that would either run or furnish amusement was strong with Harry. Accordingly he built for himself induction coils, motors, and like apparatus. Perhaps one of his best achievements was a home-made wireless apparatus, although a home-made billiard table is worthy of comment.

"Ike", as he is often called, although he has many nicknames, was born in Chicago November 18, 1890. He received his grammar school education at the public schools and entered the R. T. Crane High School in 1904. He has filled his home with evidences of his handiwork at the school, a cabaret, an umbrella stand and a mantle clock being some of his work. He graduated from Crane in 1908 and then entered Armour. His work at Armour has been of the very best, and, as a mark of his excellent scholarship, he was one of the three electricals taken into Tau Beta Pi in their junior year.

Noren is more than a scholar. Although he works hard in school, he rarely talks shop outside. He has many friends and is the idol of Chapin Club as he is perhaps the best billiard player in school. He shone at the Junior Banquet as a past master of wit and wisdom and is a desirable companion at all times.



VINCENT PAGLIARULO

Thesis: *A Comparative Investigation of Different Systems of Interior Lighting.*

Eta Kappa Nu — Armour Branch, A. I. E. E.

Prominent among the countries from which the class of '12 drew its roll, stands Italy. November 24, 1886, was the date that has taken its part in our history. On that day Vinvent Pagliarulo was born in Bari, Italy. He received his grammar school education in Italy and his preparatory college work at the Association Institute of the Y. M. C. A. He entered Armour in September 1908 and has done full credit to his home country. One summer was spent with the Metropolitan Elevated Railway.

Vincent has been popular in his class and in the school, notwithstanding the fact that his name has been a continual stumbling block to all those who had to call the roll and a consequent source of amusement to the rest of the class, who were always only too willing to assist in the mix up. The senior draughting room has more than once been the setting for Grand Opera, the principal part of which has been taken by V. Pagliarulo. Il Trovatore seems to be one of his favorites. Undoubtedly Pagliarulo would have been a Grand Opera tenor had he not been an Electrical Engineer. Nothing seemed to be lacking and he had the greatest asset of all to start with: the name.

Some of you men in the other departments may have looked with envy upon our electricity lecture room. We don't blame you. It is certainly rigged up in fine style. You fellows need a Pagliarulo among you, for it was for his especial benefit that we now boast of the finest illuminated room in the school. Appreciating the endeavors of the department V. Pagliarulo has made a "Comparative Investigation of Different Systems of Interior Lighting", as his thesis. Upon the outcome of his research depends the entire illumination of the school. The Civil Department will not get those new lights in the draughting room until his results are made public.



LOUIS HERMAN ROLLER

Thesis: *The Transmission of Niagara Falls Power to Chicago.*

Omega Lambda
Tau Beta Pi
Eta Kappa Nu
Sphinx
Chapin Club
Sub-Marshal Junior Week (3)
Armour Branch, A. I. E. E., Chairman (4)

Editor-in-Chief (elect) Integral (3)
Ass't. Editor Armour Engineer (3)
Editor Armour Engineer (4)
Class Secretary (1), (2), (3), (4)
Fulcrum Staff (2)
Class Constitution Committee (3)
Class Alumni Secretary.

We now beg to introduce the official scribe of the class of 1912, Mr. Louis Herman Roller, who, since the first, has been entrusted with the important duty of recording the many activities of the class. He is one of our youngest members, as he was born July 31, 1891, in the village called New York. He came to Chicago at an early age and received his preliminary education in the Chicago graded schools. He entered the Armour Scientific Academy in 1905, graduating in 1908, so as to enter the Tech with the bunch. He has been about the busiest man around school this year, as he has carried in addition to his studies and social affairs, the weight of the Armour Engineer. He is inclined toward literary work and has held numerous positions on the college publications. To his ability to read his notes after taking them is due his election as class secretary and also as alumni secretary.

Although Roller has always been busy with literary work while in school, he has been able to maintain a high grade of scholarship and consequently was elected into Tau Beta Pi in his junior year. He is chairman of the Armour Branch of the A. I. E. E. and has done much to establish the branch firmly. Although he has more to do than most of us, he is not a grind but enters into every school activity with spirit.

He has worked for three summers with the Commonwealth Edison Company, and this experience has given him a wide knowledge of affairs electrical, and cannot help but be useful to him later in life.



RALPH ROBERT ROSS

Thesis: *Proposed Hydro-Electric Power Development on the Tallapoosa River in Alabama.*

Armour Branch, A. I. E. E. Nebraska Club, Pres. (4)

Nebraska has sent us so many students that, in her honor, we have at Armour the Nebraska Club. Perhaps it may not be out of place to introduce to you the president of the Nebraska Club. Born March 6, in our favorite year, 1890, Ralph R. Ross became a member of the community of Omaha. His early education was obtained in Omaha and Blair, Nebraska, where, as his name suggests, he was an earnest follower of the three R's.

Theoretically we heard little of Ralph until the end of his third year when, by means of his junior thesis, he blossomed forth as an ardent exponent of the electron theory. Practically, we heard from him every day. Even in his early college years the dynamo laboratory seemed to have an intangible fascination for him and for the past year it has been his favorite pastime to saunter in during an afternoon and ask the rest of us questions we cannot answer. If the draughting room only held half the fascination of the dynamo lab. our Nebraska representative would surely have been the chief draughtsman for some growing concern.

Ralph R. Ross seems to have a regard for southern natural resources for he cast his lot with the group whose task was to Design a 36,000 H. P. Hydroelectric Power plant on the Tallapoosa River in Alabama. The location of this historic stream is given elsewhere. Since his regard for the drawing board is not very strong, we may suppose that he did most of the theoretical work and the preliminary as well as final calculations.

Whether or not Ross will ever fish in the Tallapoosa river above the dam we are not prepared to state, but we confidently believe that, when he is not engaged in working out a new theory for alternating current phenomena, he will be holding down the chair of Electrical Engineering in one of our technical schools.



CHARLES R. SCHULER

Thesis: *Rehabilitation of the Municipal Electric Lighting System at Downer's Grove, Illinois.*

Y. M. C. A.
Armour Branch, A. I. E. E.

Mandolin Club

On April 22, 1890, there was born in Chicago, one Schuler, who, when the proper time arrived, entered the McPherson Grammar School, from which he graduated in 1905. Desiring further to enrich his store of worldly wisdom, he entered the Armour Scientific Acadamy, and, after three years of hard work, received his sheepskin in 1908. This gave him a chance to start with the class of 1912 as an electrical. Schuler early formed the acquaintance of Drew and the two joined together with the idea of furnishing amusement for the Senior Electricals.

Schuler, Drew and Lindberg form the famous group X in the electrical laboratory. There is always something doing when this crowd gets together. Schuler has undertaken the writing of the group song, entitled, "What will it B. T. U.?" He promises that every letter of the Greek alphabet, every mathematical symbol and every formula known to the engineering profession will find a place in his song.

(Ed. note. We held the copy for the Senior Class Book for a week past the time to go to press, in order to have it complete, including as a not-to-be-missed feature Schuler's song, but the song was not finished and we could wait no longer.)

He presented a paper on arc-lighting systems before the Armour Branch of the A. I. E. E. and thereby earned for himself the proudly worn title of Schuler, the arc-light man. He is assisting Drew to solve the lighting problem for Downer's Grove, and the thesis will surely be a fine piece of work, as both men are good electrical engineers and witty writers.

Schuler has been active in school affairs, but has done most of his work with the Armour Mandolin Club.



PAUL ASAHEL STRONG

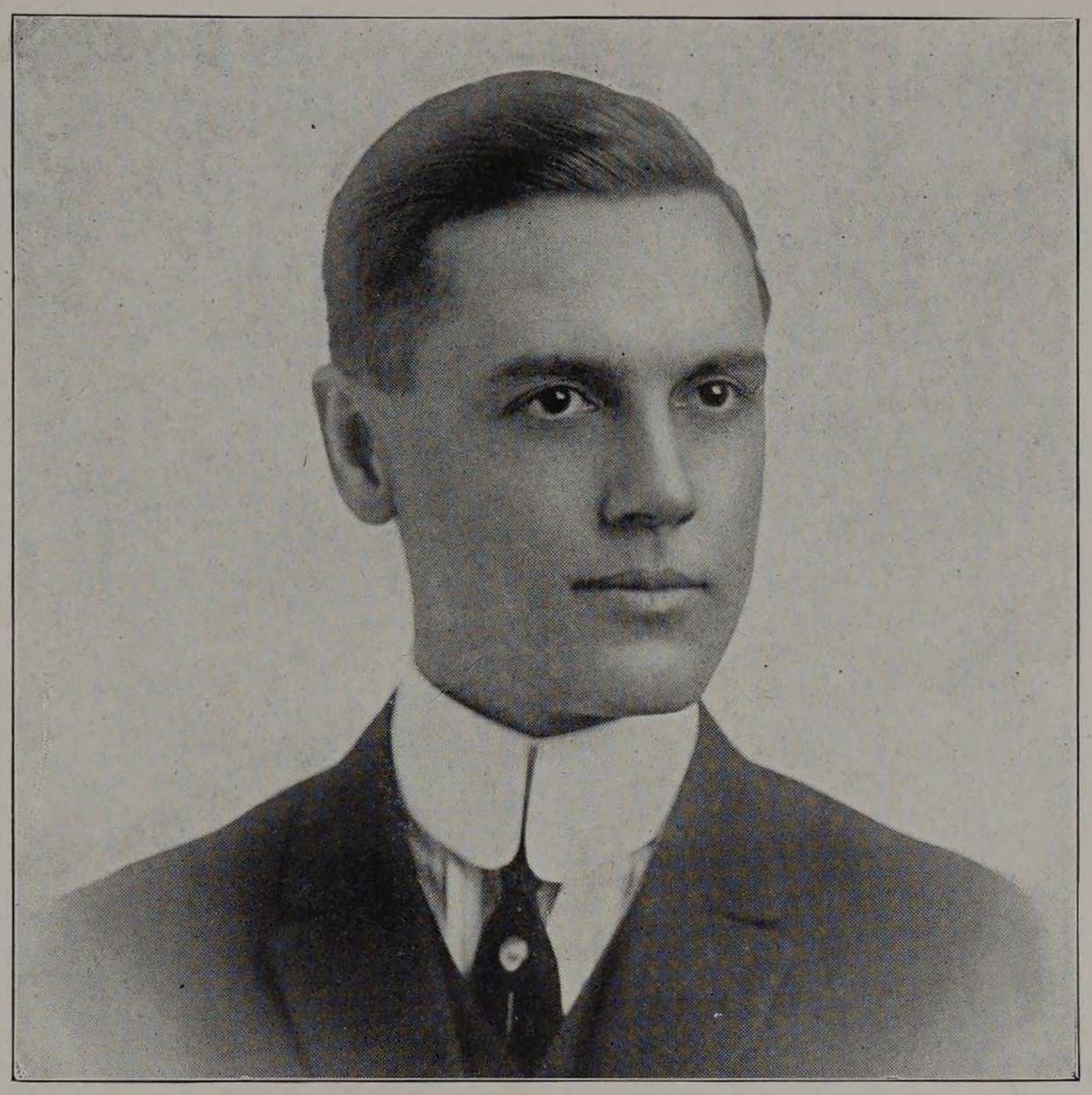
Thesis: *Determination of the Power Required for the Operation of the Types of Electric Switches and Signals in use at the Chicago Terminal of the C. & N. W. R. R.*

Tau Beta Pi — Eta Kappa Nu
Armour Branch, A. I. E. E.

Strong is one of the many students at Armour who have a long and often-times tiresome car ride to and from school but he always manages to get to his classes on time. He comes from that noted town of Oak Park, which as everyone knows has anything but good transportation facilities. He has, however, lived in a city which has an up-to-date traction system, namely, Cleveland, Ohio. It was in Cleveland on the first day of the year, 1890, that Paul A. Strong was born. When but four years old, Paul was sent to kindergarten to learn how to make bridges and houses out of paper. When he was six years old he went to the Sibley Grammar School and there he made his bridges and houses out of wooden blocks. When he graduated from grammar school in 1904, Paul left Cleveland to live in Oak Park. Next he attended the Oak Park High School. Here he forgot about building bridges and houses and commenced to take an interest in electricity. During the third and fourth years of high school, he worked as a meter reader. He entered Armour in 1908, and among other things, his four years of study have won him membership in Tau Beta Pi.

Strong is an authority on electric railway switches and signals, having worked in the signal department of the C. & N. W. R. R. He presented a paper on this subject before the Armour Branch of the A. I. E. E., and is now going into the subject further to prepare a thesis on it.

Although he has one advantage that very few have, namely, that he is able to celebrate the birth of the New Year and his own birthday at the same time, we do not believe that he has ever celebrated this double occasion by looking upon the wine when it is red, as many people do, for he is anything but a rounder. Add this good habit to his many others, and you have the foundation for the success which is bound to come to Strong.



SAMUEL ROBERT TODD

Thesis: *Design of a 20,000 K. W. Central Station.*

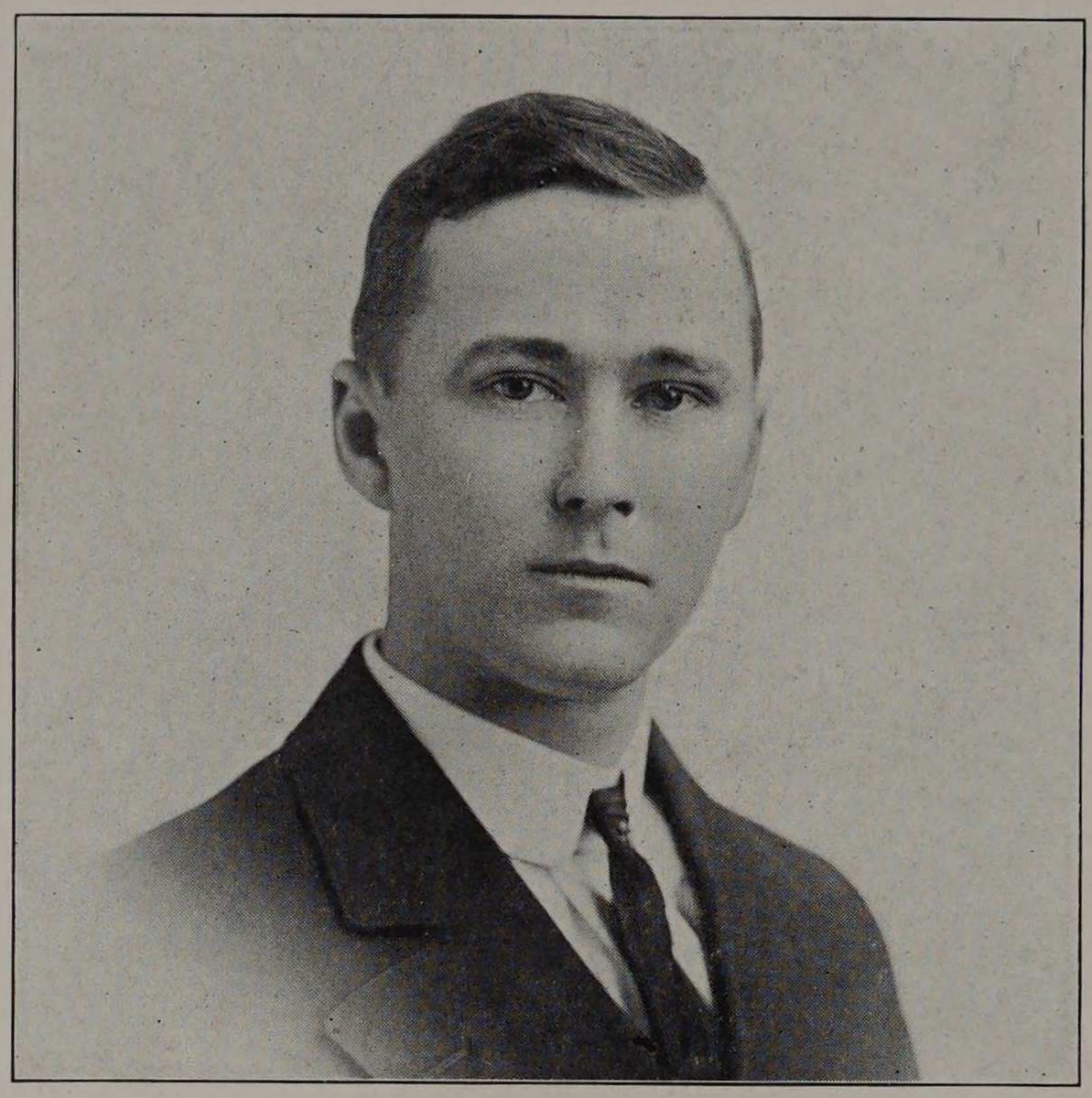
Delta Tau Delta
Eta Kappa Nu
Radical X
Sphinx

Business Manager Integral (3)
Business Manager Glee and Mandolin Club (3), (4)
Business Manager Fulcrum (4)

Todd's initials are "S. R." He has, however, at several times, deemed it expedient to inform certain of his friends that the "S" stood for "Solomon" and the "R" for "Riley," but, after a careful investigation, the publishers of the Class Book are prepared to state positively that the S. R. is an abbreviation of Samuel Robert. He was born in one of the smaller suburbs of Chicago on the I. C. R. R., where he lived until after he had finished the village grammar school (note that we say "finished") and then moved to Evanston with the intention of finishing the Northwestern Academy. From that time until he graduated, the Northwestern authorities were in a constant state of suspense: bombs were exploded in the chapel, buckets of water dropped from various places around the school, etc. But, as no such pranks could be blamed on one with such a demure appearance at Todd's, the instigator of it all was never discovered.

In 1907, he registered in the Electrical Department of the Tech. He took the next year off in order to grace the position now held down by our friend Crane. He registered again the following year and has since been hammering away at some of the barriers that must be overcome to obtain that much coveted diploma. Most of us will agree that it is hard enough to get an education when the road is made easy by others, but, when a man obtains both his academic and collegiate education by his own efforts, it would seen that, on account of the far greater odds against him, much greater credit is due.

His record at Armour has been one of great activity in all class or school affairs. As Business Manager of the Integral of '09-'10, he succeeded in actually making the book a paying proposition, instead of a big loss as had been the rule. He is especially deserving of thanks by the entire Institute for his good work as Business Manager of the Glee and Mandolin Club, as it was his irresistible push in getting outside dates, that caused interest in the club to be renewed and the present high standard of work to be attained. Some months ago, he resigned from his various positions at the Institute and has since been putting in most of his time riding back and forth on the Oak Park Elevated. No, he does not live in this suburb, even if he does spend considerable time out there.



DWIGHT ABBE WHITAKER

Thesis: *Proposed Hydro-Electric Power Development on the Tallapoosa River in Alabama.*

Eta Kappa Nu — Armour Branch, A. I. E. E.

Usher 1911 Commencement

That a married man can enter and graduate from college has been conclusively proven by Whitaker. In September, 1907, he enrolled at the Armour Institute of Technology in the electrical engineering course. Previous to this time, to be exact in the romantic month of June, 1905, he had become a benedict, hence the above assertion. Whitaker comes from Florida, his home town being Sarasota. Before entering Armour, he took a preparatory course at the Rollins College Academy at Winter Park, Fla. He worked as a night telephone operator for the Peninsular Telephone Co. at Bradentown, Florida, and this first step into the field of electrical engineering convinced him that a college education was necessary for the mastery of so vast a subject as telephony. He has been adding to this practical experience that gained by summer work for the Western Electric Company, assembling switchboards, and by acting as switchboard operator for the North Shore Electric Co. at Blue Island, Illinois.

He is a member of the Armour Branch of the A. I. E. E. and always aids in making the meetings interesting by entering into the discussions after a paper has been read. And the unique thing about it is that these discussions of his really do help to make the meeting more interesting. But what we like best about him is his quiet and unassuming, yet dignified manner, and his friendliness. From this latter characteristic it would seem that he is a true optimist believing that there is good in everyone. And because of all this, we wish him the realization of his dream of a reclaimed Florida everglades, crossed by electric railways, and with a telephone or telegraph wire nailed to every mangrove tree in the swamp.



LOYAL RUPERT WHITE

Thesis: *Hydro-Electric Power Development on Tuolumine River, California.*

Armour Branch, A. I. E. E.

The little city of Lena, Illinois does not occupy a very conspicuous position on the map, nevertheless it is destined to play no small part in our history of the class of '12. It was not until May 2, 1888 that this honor became definitely assured and this little town still has its eyes upon one Loyal R. White who has been the cause of its prestige.

He did the only fair thing to do, by remaining in his home town for his grammar and high school education. He graduated from the Lena High School in June 1906 and then, being possessed with a roving spirit, he became engaged in telephone work in the wilds of South Dakota at a place known as Chamberlain. Finding the climate not very much to his liking he migrated very shortly to California where he became assistant electrician for the Tuolumine Transmission Co.

In this capacity he became very well acquainted with the construction and operation of this plant, so much so that the Department of Electricity will be favored with a full and complete discussion of its workings as his thesis.

Owing to a delay in transportation or other methods of travel in the far west at that time. White did not arrive at Armour until February 1909 and has therefore been with us only three and one-half years. Whether he will be there any longer or not is problematical as we go to press.

He was rather mixed in his classes and it was not until after two years that we knew he really belonged to 1912. Since then he has been honored by that class with all the insignia that such a membership calls for. His favorite occupation in the dynamo laboratory is to balance the scale on a motor test, especially the one for the synchronous motor. In such a position he stands in front of the pulley wheel and receives a hot bath when the man operating the selector switch pulls out a phase, accidentally. (?) However, when the incident above cited took place, White had on a pair of boots more commonly associated with Civils so no argument was started and the guilty man escaped unharmed. Later the same day the same thing occured by a sudden drop in the impressed voltage and White has now given up the only job he liked.

Armour Institute Branch *of* the American Society *of* Mechanical Engineers

The Armour Institute Branch of the American Society of Mechanical Engineers was organized in 1909, being the third student branch founded. Professor Gebhardt was made the honorary chairman. The purpose of the society is to unite the students of the mechanical department and to acquaint them with the preparation, presented, and discussion of papers relating to engineering topics.

The student branch has its own constitution and elects its own officers, but is under the guidance of the national society. The members are juniors and seniors of the mechanical department, all other students being welcome as visitors. The members have the privilege of obtaining the Journal of the Proceedings of the American Society of Mechanical Engineers.

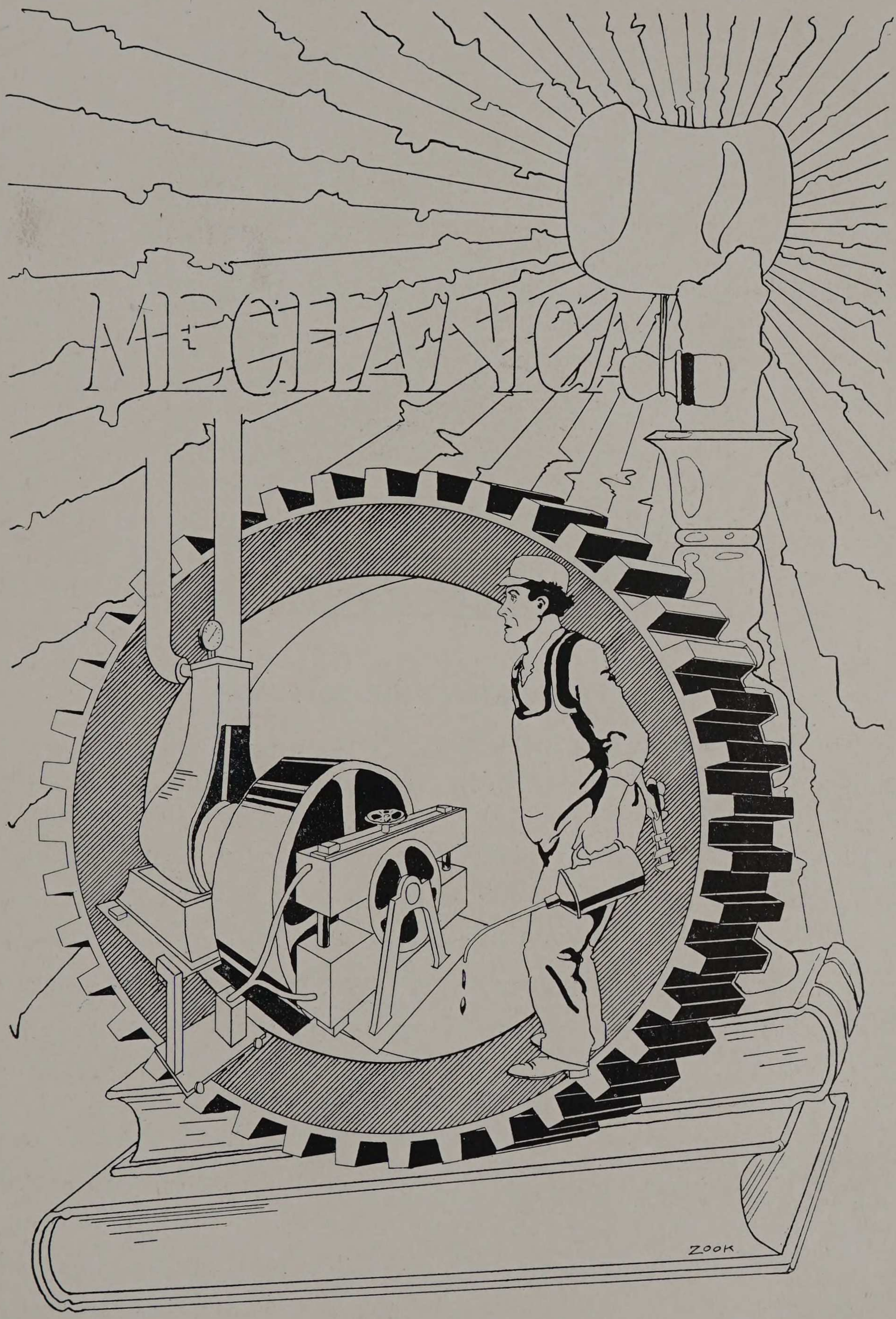
The monthly meetings of 1911-1912 were opened with a smoker in October. The meetings thus far have been:

"The Diesel Engine" . . . . . Professor A. J. Frith
"Some Phases of Rotary Gas Engines" . L. H. Philleo and J. D. Bradford
"Steel Belting . . . . . A. W. Semerak
"Automobile Radiators" . Mr. K. M. Boblett of the Kinsey Mfg. Co., Toledo, O.
"Scientific Aero-plane Model Testing" . . . . . .
. . . Mr. Sidney V. James, Consulting Engineer for Illinois Aero Club

A semi-annual banquet of the student branch was held in December and was attended by the faculty, seniors, and juniors of the department.

OFFICERS FOR THE COLLEGE YEAR 1911-1912

A. J. Beerbaum, '12 . . . . . *President*
J. O. Bradford, '13 . . . . . *Vice-President*
P. L. Keachie, '12 . . . . . *Secretary*
N. W. Strale, '12 . . . . . *Treasurer*


MECHANICAL
ZOOK



ARTHUR JULIUS BEERBAUM

Thesis: *Test of a Three Ton Refrigerating Plant.*

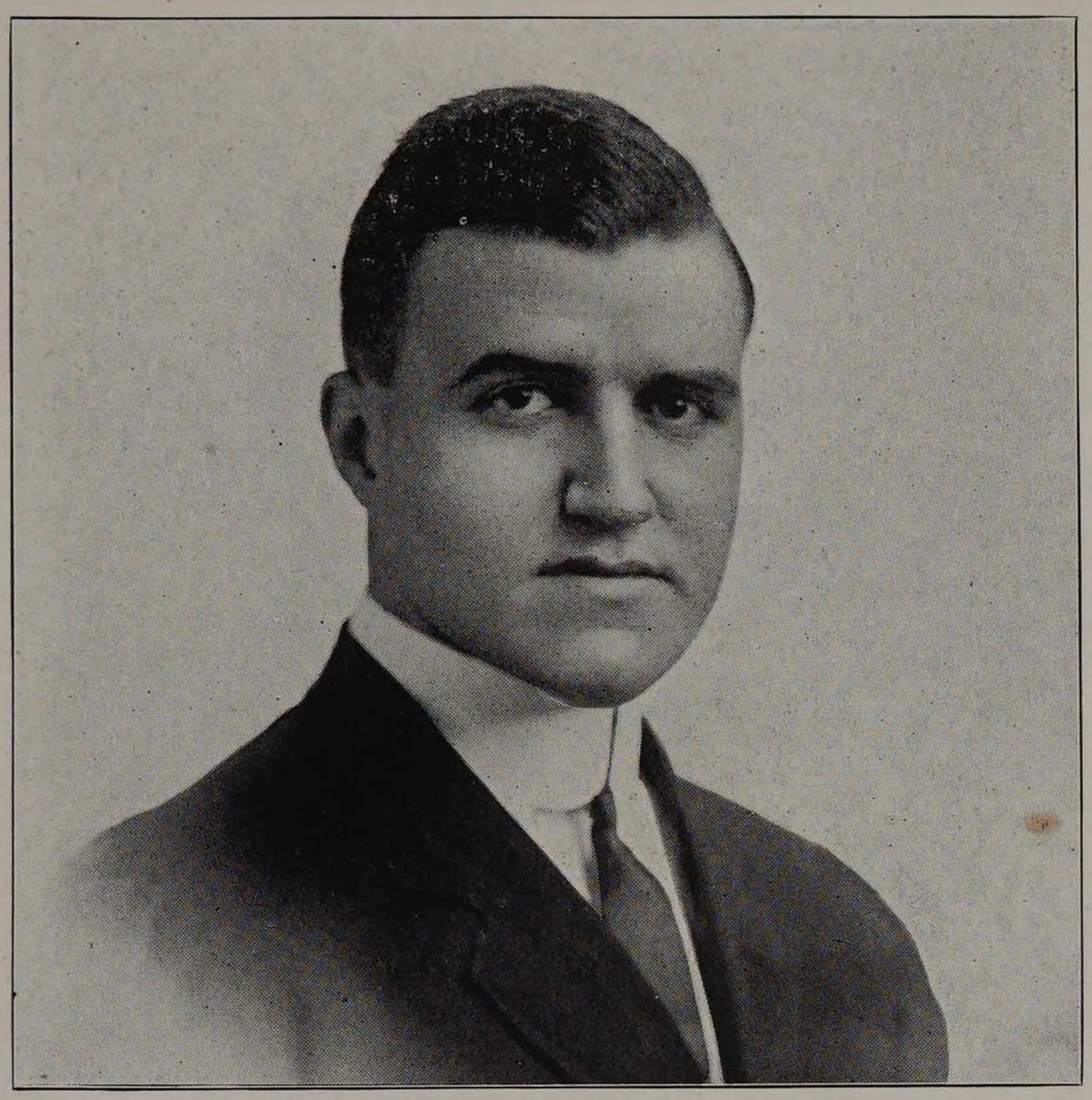
Tau Beta Pi
Armour Branch, A. S. M. E., Pres. (4)
Constitution Committee, Chairman (3)
Auditing Committee Chairman (3), (4)

When Prof. Gebhardt sends out upon the unsuspecting world his present Senior bunch of embryonic mechanical engineers his conscience may hurt him in a few places but he can always feel better when he thinks that there was one at least who deserved his B. S. That man is our hero, Mr. A. J. Beerbaum, Upon him lies the future hopes of his professors for somehow they all seem to feel that he just can't help but make good and they are right ninety nine times out of a hundred and this isn't the odd time either.

A. J. is a natural born engineer in spite of himself, for, at one time he went to the Chicago Business College and took up "Friendzied Finance." It didn't take him very long however to find out that he was cut out for an engineer and not for a "postage stamp licker" and in six months he left the business world and took up draughting at Haustein's Drawing School. Then he came into his own and, in April 1903, sixteen years after his advent into this land, he started to prepare for college in the Association Institute of the Central Department of the Y. M. C. A. Here he learned to draw many wonderful and intricate pieces of machinery and made such pretty pictures of Corliss valve gears that Perry had to give him credit in Junior engine design. My, but how the other Junior mechanicals did envy him.

Then Arthur succeeded in convincing the Arnold Co. that he was a draughtsman and he did it without even getting a credit from Mr. Reid. He was with them for three years and during that time he finished his preparatory course at the Y. M. C. A. night school. In 1908 he came to Armour and started to tinker around with all sorts of superheaters and condensers, etc. He proved to be such a good student that in his Junior year Tau Beta Pi allowed him to wear a bent.

This year he inveigles men to come out and talk to the Mechanical Society of which he is president. He manages to get away with it to. As a pastime he goes over on Dearborn St. and makes ice and we presume he is going to give it to the Charity Association to distribute this summer.



HARVEY ALBERT BOHLANDER

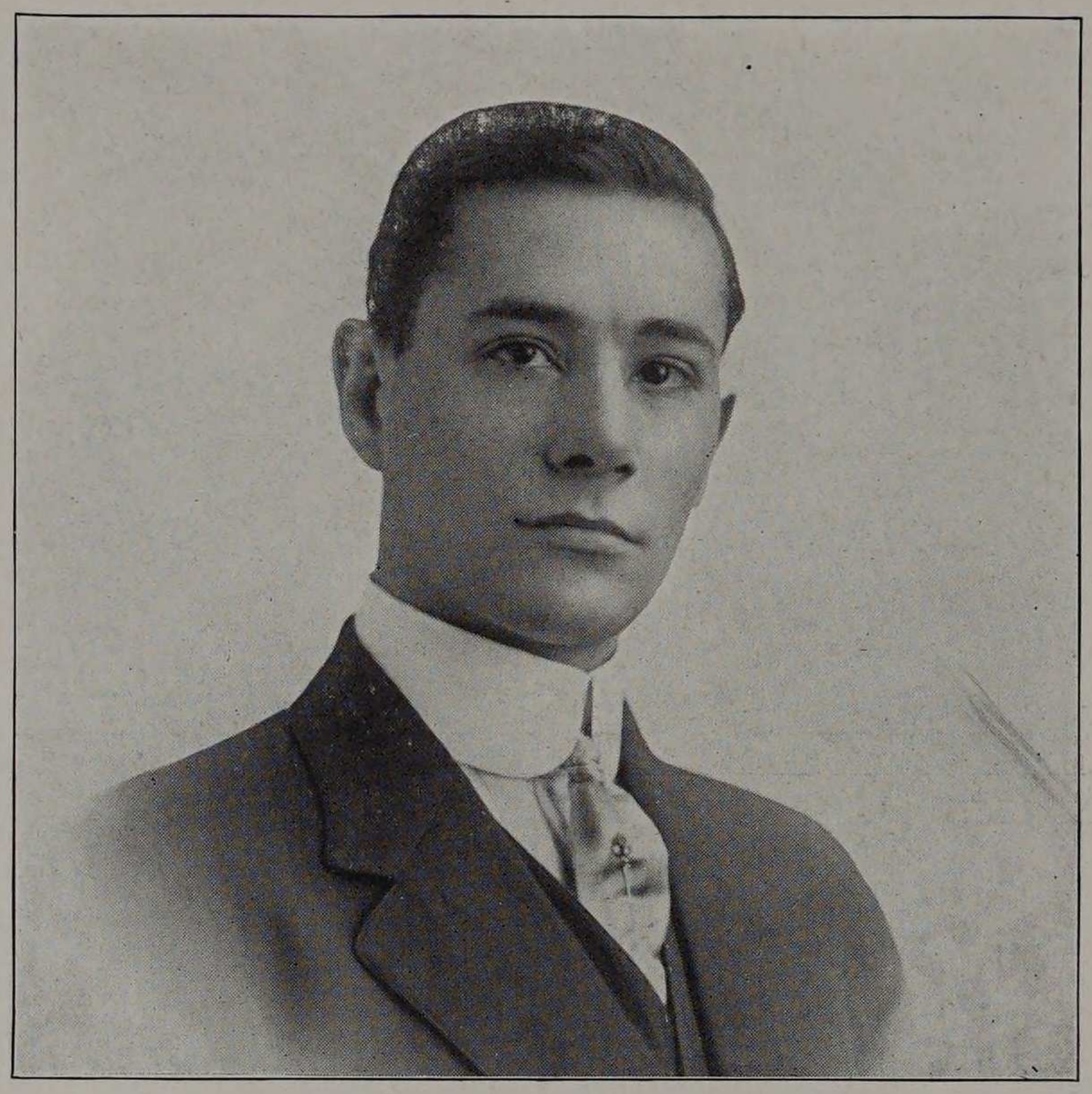
Thesis: *Efficiency Test of a 40 H-P Halliday Motor Car.*

Armour Branch, A. S. M. E. Auditing Committee (4)

If you ever want to see the long and the short of it, why go down in the steam lab some afternoon and take a look at the automobile. You will see a little man upon the driving seat bossing a great big man who is doing the cranking. Well the one that is doing the work is "Buxbaum" Bohlander and his side partner is the smallest man in the Senior class, Kiley. Harvey always was interested in "Sashays" as he calls them and that is why he is working so hard to get the Halladay to run for three consecutive minutes.

Harvey came to us from the University of Chicago and why he started in his college career there is more than we know. We have learned from good authority that it was the hope of his fond parents that their young hopeful should become a minister and for that reason they sent him to the University. As to that there is some doubts in our mind for we have taken drawing with him and heard him hand out a few choice epitaphs when some one would spill ink on his tracing. No, Harvey never meant to be a minister and he only went to the University to play football.

"Buxbaum" is one of these big good natured fellows who is not over fond of hard work but always has a pleasant smile for everyone. He likes to make Ruef laugh in class and for this same reason he has caused Bowser more trouble than the carburetors in the gas lab. He likes to do the practical end of his engineering course even though books are his bugbear, and as foreman of his section in the Corliss engine experiment he got more work out of the fellows than any other three persons could have done. Even Ruef stuck to the dynamometer brake as though his life depended upon it.



ELMER LUCIUS CANMAN

Thesis: *Investigation of the Flow of Air in Pipes.*

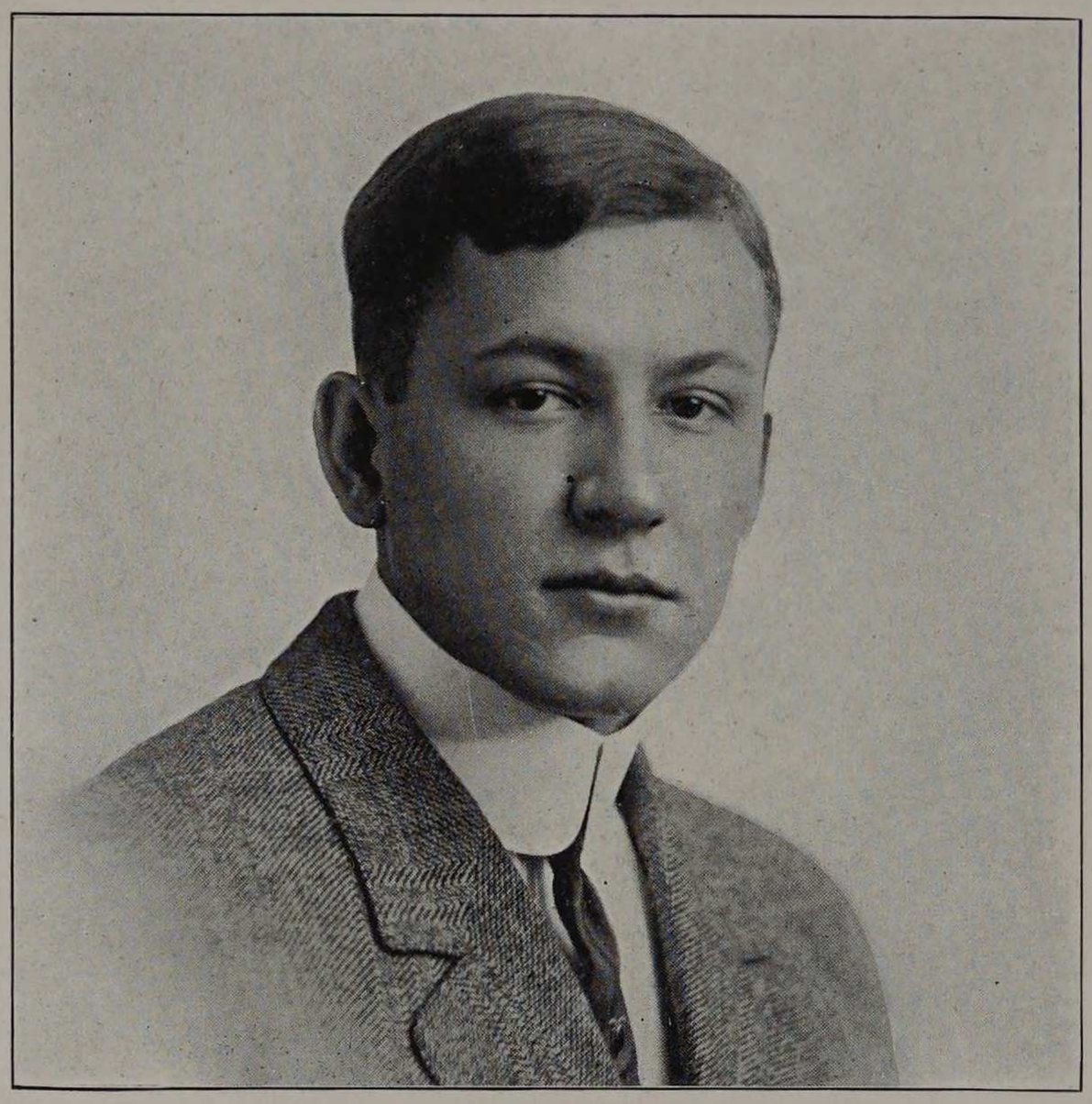
Omega Lambda
Armour Branch, A. S. M. E.

Ass't. Business Manager 1910 Integral.
Chapin Club, President (4)

"Can" is the little king of Chapin Club and he certainly deserves an A when it comes to collecting time for billiards. "They ain't going to slip anything over on me," he says and right after class he hikes right over to Chapin Hall and catches Oehne and Noren for about an hour's time. However "Can" means well and certainly does his part to make Chapin Club the ideal student recreation spot.

Elmer joined this world on January 5, 1888 in East St. Louis but didn't stay there very long as the entire family soon moved bag and baggage to this city and settled over on the north side. The only reason they went so far out according to Can was to make him get up at six o'clock in the morning in order to get here in time to answer present in Bowser's thermo class. Elmer is the baby of the family and his sisters knew that it would do their little black eyed baby brother a world of good to have to get up so early in the morning for then he would never have any desire to stay out later than half past nine.

Canman has been in Armour for quite some time for he spent four years in the Academy before he entered the Tech. He is a natural born rough-houser and if you don't believe it just ask any of his fraternity brothers about how he puts salt in their beds. In spite of his tendency to play jokes upon his fellows, Can is a good scout and is always ready to do his part to support different college activities. This year he is bossing Prof. Anderson and Kimball in finding out how air flows through a lot of different sizes of pipes.



PAUL LOIZEAUX KEACHIE

Thesis: *Test of a Three Ton Refrigerating Plant.*

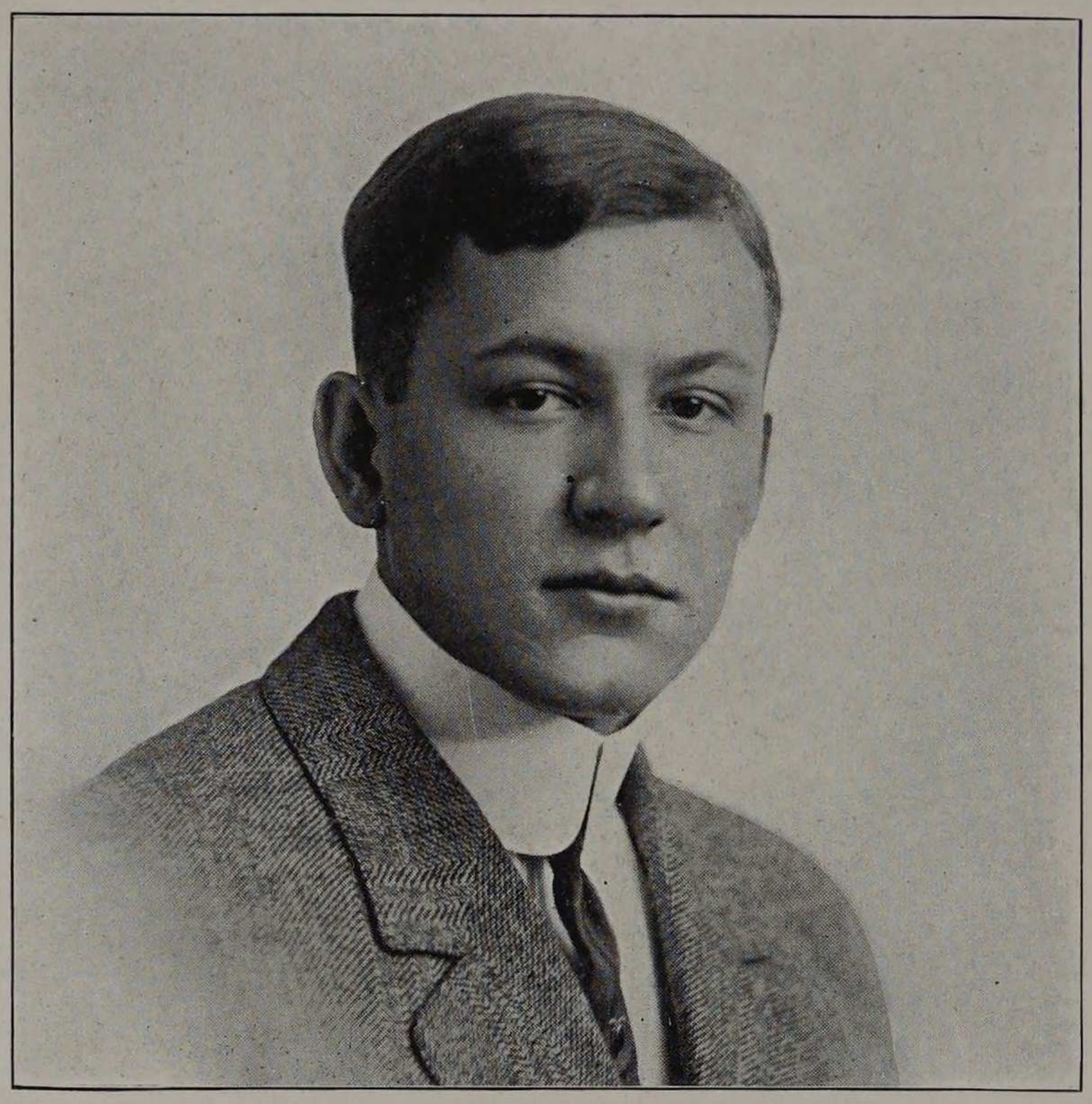
Tau Beta Pi
Armour Branch, A. S. M. E., Sec'y. (4)

Usher, Commencement 1911
Chapin Club

Next to George Ligare this brown eyed good looking young gentleman is the youngest member of the Mechanical Department. In the birth records of that large metropolis of Englewood there is registered Paul L. Keachie born March 18, 1890. He surely was the pride of that village and without a doubt every mother in that place told her young hopefuls that, if they would behave like the little Keachie boy, they would grow up and maybe some day they would be the President of the United States.

When Paul was thirteen years old he left grammar school and entered the Englewood High School. Just think he didn't even wear long trousers and was a freshman in high school. It was rumored at the time that nearly all of the girls in school lost their hearts to him but to no avail for Master Keachie always was, and it is beginning to look as though he always will be, a confirmed bachelor. Girls have no attraction for him and he never found any time for such diversions as fussing but always tended strictly to his studies. He did so well in the latter that he was one of the two mechanicals who was taken into Tau Beta Pi in his Junior year.

After "Keach" had graduated from high school he went to work for the Union Special Machine Co. of Chicago for a year. Then he decided that he would come to Armour and be a mechanical engineer. He stuck to his chosen profession during the school year but, oh, what a varied career our hero had during the summers. First he ran the Goodrich Transit Co. and saw to it that all the boats came into dock at the appointed time. Then he sold insurance for the Phoenix Insurance Co. and we doubt if there are many vocations that he hasn't had a hand in, but just wait until he leaves school when he will surely make a prominent engineer.



PAUL LOIZEAUX KEACHIE

Thesis: *Test of a Three Ton Refrigerating Plant.*

Tau Beta Pi
Armour Branch, A. S. M. E., Sec'y. (4)

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LEROY DAVID KILEY

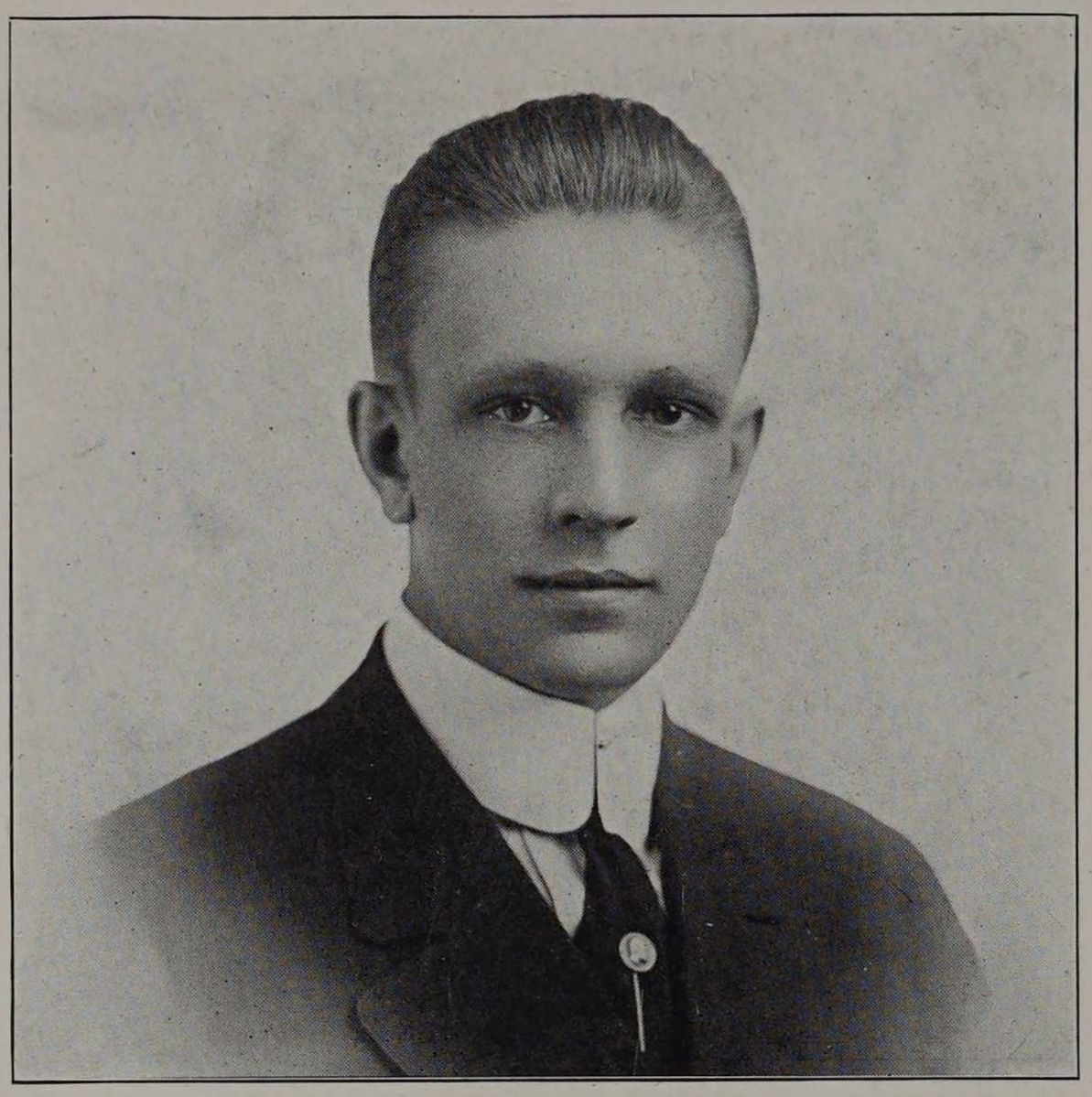
Thesis: *Efficiency Test of a 40 H-P Halladay Motor Car.*

Delta Tau Delta
Radical X
Sphinx
Mandolin Club
Armour Branch, A. S. M. E.
Manager 1911 Bowling (1), (2)
Manager 1911 Basketball (1)
Editor-in-Chief Integral (3)
Sophomore Treasurer, Class 1911
Sophomore Social Committee, Class 1911
Sub-Marshal Junior Week, Class 1911
Chairman Picture Committee, Class 1911
Assistant Editor Fulcrum (2)

LeRoy David Kiley, Editor-in-Chief of the '09-'10 Integral,—has an imposing sound doesn't it? And to think that a five foot rule placed on end could look down upon it all! The "long and short" of it was never better illustrated than it was at Armour while the above mentioned Integral was being issued. At that time, the most familiar sight around the school was the six-foot-two-195 pound Business Manager striding through the corridors with the four-foot-seven-95 pound Editor-in-Chief vibrating at his side. The conditions, however, were reversed when it came to giving orders, for there LeRoy D. Kiley is supreme, and few there are who dare disobey his imperious demands. On receiving some instructions from the Editor, the above-mentioned Business Manager used to jump as if his old friend Corning were after him. For some months past, Kiley has been gratifying his desire to boss people three or four times his size by employing Bohlander to do the cranking and other heavy work on his thesis. Bohlander agrees with Todd that Kiley is a hard boss.

The subject of this article was fortunate enough to be born in Chicago and has for twenty-two years been celebrating May 28th in commemoration of that event. He spent the first three years of his life in growing and then, having decided that he would waste no more time in such an unnecessary occupation, he started out to do things, and do he has. He graduated from the A. S. A. in 1907 and entered the Tech as an Electrical the following semester, but changed to the Mechanical course in his junior year. In order to vary his experience, he has worked for a different concern every summer for four years.

Kiley is a man of considerable energy and great originality, and, from present prospects, it would seem that, as a patent lawyer, he will more than "make good," and, although it is strictly against our rules to insert advertisements in this part of the book, we will take this opportunity to advise all Armourites patenting any kind of perpetual motion machine, to let Kiley take out the patent.



NORMAN FRANK KIMBALL

Thesis: *Investigation of the Flow of Air in Pipes.*

Omega Lambda
Tau Beta Pi
Radical X
Sphinx
Armour Branch, A. S. M. E.

Marshal, Junior Week (3)
Lead, Junior Play (3)
Associate Editor of Integral, '10
Assistant Editor Senior Class Book
Advisory Editor Fulcrum
Usher, Commencement, 1911

Wisconsin is noted for two great men, Bob LaFollette, and "Norm" Kimball. Owing to the fact that La Follette's sphere of action has been a trifle broader than Kimball's in the past, we give the names in the above order, but we must confess that we have doubts as to its correctness. Like LaFollette, Kimball is a red-hot insurgent at all times and is always after somebody to get them to reform. Like all truly great men his early history is shrouded in obscurity, but we have after much hard labor extracted the facts that he was born in Oshkosh, and that he prepared for Armour at the Wisconsin State Normal School.

"Norm's" chief diversions in the past have been sailing, ice-boating and last but not least "fussing." As regards the latter we regret to state that he has over-looked a cardinal principle "In numbers, there is safety" and consequently has lost his freedom, but in this case we can imagine nothing more pleasing. Oh, yes, we overlooked a very important diversion, working on the Armour publications. He has helped run every publication in school except the Armour Engineer, sacrificing to the 1910 Integral, a year of school. That this was the cause of his lost year is conclusively shown by his membership in Tau Beta Pi. In order to give the class of 1912 the benefit of his experience, he accepted a job on the Senior Class Book after much persuasion. He was one of the factors for success in our famous Junior Week, as he ran the dance, and it was quite a dance, be-lee-eve-me.

Kimball was one of the charter members of Omega Lambda and has helped considerably in raising the fraternity to its present high standing. While he has had his hands full getting Canman to do any work on their thesis, the product is very creditable. And in conclusion, we venture the prediction that if originality, back-bone and a sense of humor are any aid in the world's battles, "Norm" will rise high in the engineering profession.



MEREDITH FAY LAWRENCE

Thesis: *Comparative Tests of Poppet and Rotary Valve Automobile Motors.*

Phi Kappa Sigma
Radical X
Glee Club
Armour Branch, A. S. M. E.

Assistant Business Manager Senior Class Book
Junior Play
Sub-Marshal Junior Week

Our friend "Larry" has fulfilled the first great requirement for the job of President of the United States for he was born in Ohio. No less than three Ohio towns are at present fighting for the honor of claiming him as a native son, for he has lived consecutively in Yellow Springs, Xenia and Dayton as well as Chicago. He spent the first two years of his high school life in the famous Steele High School of Dayton. He was a star end on their football team, but all this training was wasted as he entered the Armour Scientific Academy in 1907, and the Tech in 1908, and football is too rough for us.

"Larry" is of a musical family and consequently the glee club has been the scene of part of his school activities. It was hard for him to choose between the glee club and the mandolin club, but he decided that he could make more noise yelling than he could with his mandolin. He has been in every class activity of any note, and is at present helping Roleson and Collins scare up enough money to pay the printer's bill for this book.

There is only one thing that pleases him more than taking an automobile to pieces and that is putting it together again. He is always able to make the pieces come out even, and occasionally the automobile will run after he is through tinkering with it. While working in the summer of 1910 for the B. C. Hamilton Automobile Company, he used to delight in hitting up between cops on Michigan Avenue, and we are told by his running mate, Bill Dunn, that on occasion he has made the world's record for speed look like a piece of Schweitzer cheese. He is also a motor-cycle demon and it was with great difficulty that he was restrained from entering the motor cycle races at Hawthorne last year. Even in his thesis he has stuck to his first love, for he and Bill Dunn are trying to show how much better the Knight valveless engine is than the ordinary automobile engine. We are sure that if this can be done, Larry can do it, and we wish him all the success going.



GEORGE LIGARE

Armour Branch, A. S. M. E. — Chapin Club

George Ligare is the math shark of the Senior class of 1912. He surely knows more about calculus and the steam tables than any of us and he would rather sit down and figure out some problem in entropy than write a theme for English any day. He just hates themes and can't for the life of him see how an engineer is ever going to be called upon to write a theme on the English government or some such subject. He is quite well versed though in Shakespeare but he says that that is different from writing themes. He used to do geometry problems for his sister if she would write a theme for him.

"Kasimir" is a born tinkerer and is always working around outside on some pet hobby of his. He saved all of his allowance once and fitted up a little machine shop of his own out in Glencoe and there he used to spend many a night turning out threads and gasoline engine cylinders. Then, last summer he installed a hot water heating system in his mother's residence, and so far there hasn't been one pipe that has burst.

George likes to have a good time and always manages to bring a fair young lady to all of the class dances. Last spring he took in all of the Junior Week stunts from the banquet to the dance and even managed to get a front row seat for the Junior show. He likes a good time so well that sometimes he sleeps a little beyond the time, and then he has to hurry up to get to thermo before Frith calls the roll.



WINFIELD PECK

Thesis: *Installation and Test of an I. H. C. gasoline Engine.*

Armour Branch, A. S. M. E.

If the Senior Mechanicals do envy anyone it is Peck. Just think how great it must be to have your thesis all written. He did his last year and now can sit back and take things easy while the rest of them are working their heads off to get theirs in on time. Still Peck keeps busy for he is interested in refrigeration and spends his afternoons over on Dearborn St. in the ice house.

Winfield spent his early life in Oconomowoc, Wisconsin, where he showed his engineering ability by building little motor boats that one could wind up with a string and they would really go. When he got old enough to yearn for a real sure enough motor that would run with real sure enough gasoline he came to Chicago and bought himself an automobile and spent his time under the car trying to find out what difference it made if you hung a monkey wrench on the throttle. He prepared for his course at Armour by going to two high schools at the same time, The University High and the Chicago Manual Training High. How he managed to attend both of them at the same time and come through with colors flying we have never been able to find out.

This year he divides his time between Descript and Power Plants, for they are the only studies that separate him from his sheepskin. Lucky boy.



ELLSWORTH ELMER PIPER

Piper has more claim to distinction than perhaps any member of the class of 1912. For is he not the dean of us all, the only member of the class to enter the Tech in the fall of 1911, the least known man among all the seniors, the only full fledged high school teacher in the lot and the first graduate in the new Manual Arts course. When graduation day rolls around, Piper will have passed the thirty mark by a month and a day, and the majority of his one score and ten years have been passed among the gales of old Chicago. His first acquaintance with the gentle art of working with tools was gained at the Chicago Manual Training School, and in common with all the other graduates he can do most anything with raw materials. After graduating from this school, he spent three years at the University of Illinois, as a student in Mechanical Engineering, and this work enabled him to dispense with the first three years at Armour. During the summers he was faithful to Chicago, working here for the Western Electric and the Chicago Bridge and Iron Co. He deserted us at this stage for the balmy climate of Palacios, Texas, but even the allurement of a cashier's job in the Palacios Bank was not sufficient to keep him for more than a couple of years down among the pickaninnies and the cotton blossoms.

After this he brushed up on his prep school work, and passed the Chicago School Board examination with plenty of room to spare. He was immediately appointed to the Bowen High School as a teacher of Mechanical Drawing. He obtained a year's leave of absence, after two years service, and came to the Tech to get his diploma with the grand old class of 1912. His good judgment in picking out the class he wished to graduate with, has won him many friends, and we all regret that he did not take the other three years with us. He has the honor of christening the baby course, Manual Arts, and he has done it in a manner commensurate with his ability, and the honor of the Tech.



JOHN E. RUEF

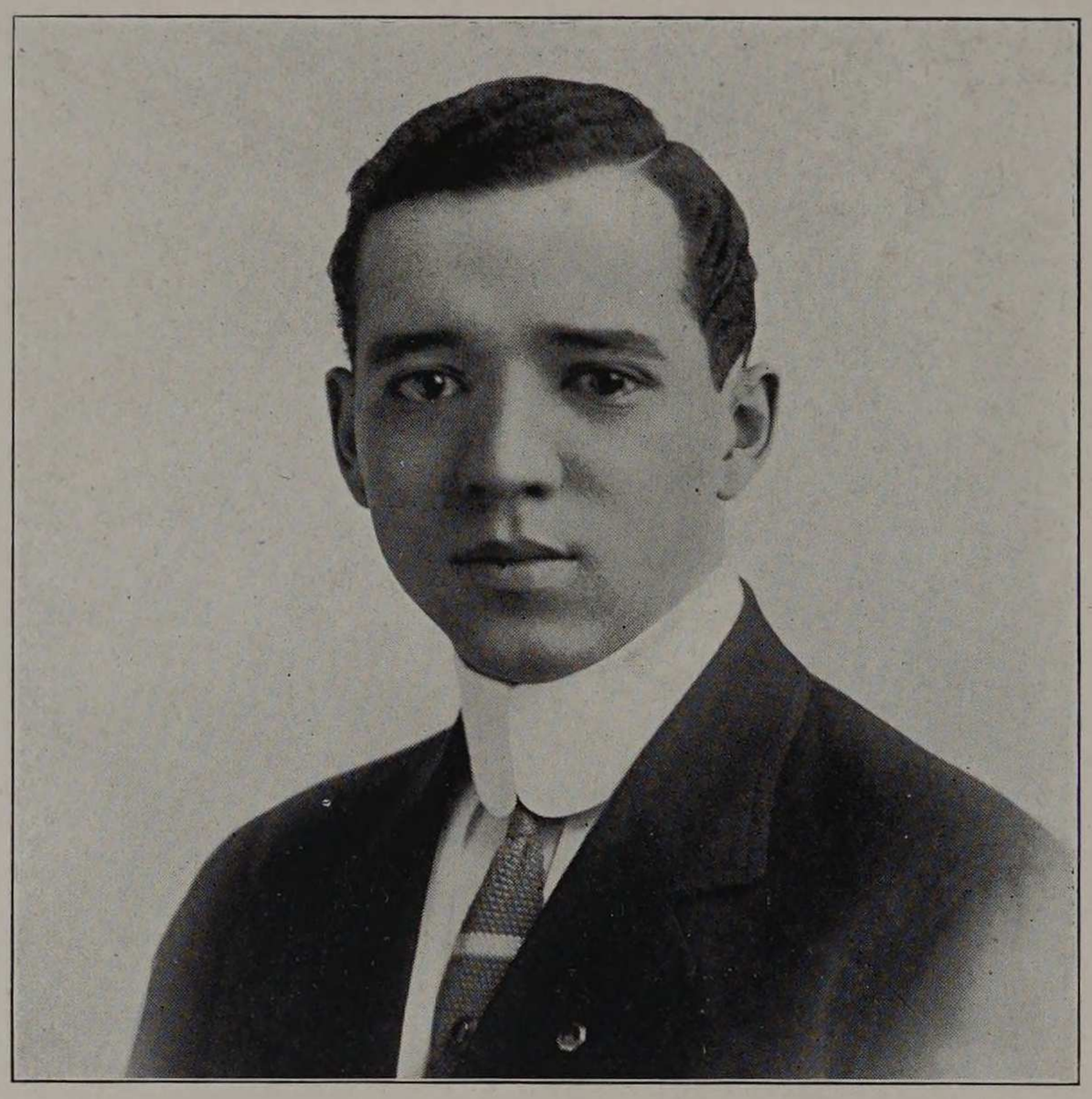
Thesis: *Some Experiments on Heat Transmission.*

Armour Branch, A. S. M. E.

Ruef does more things than any other two students and holds the record for getting more done in twenty four hours, than Beerbaum or Keachie. He does his school work, of course, for that is what he came to Armour for, then he assists Charles Stridiron in the president's office, plays the oboe, attends the Thomas Orchestra concerts, takes care of his sister's flat out on the south side, works with Prof. Libby in finding out how long it takes to burn your fingers through paste board plates, and last but not least he keeps everybody in good humor. Yet John has the knack of doing just enough of each thing to make everyone else believe that he is a whirlwind. For example, he has Keachie and Beerbaum work out the "mech lab" experiments and he makes the blueprints.

Last year "Abey" used to get Perry's angora about half the time and the other half he couldn't because Ligare beat him to it. He got through valve gears in one of the most diplomatic ways possible and if any of the present mechanical Sophomores would like to find out his system just catch him when he is feeling in a good humor and he will tell you all about it. He is the original dealer in hand forged dynamics with oil tempered points and has smiled himself into the good graces of all of the profs, even Professor Anderson. He sure knows how and even right now he has got Prof. Libby working his thesis for him, just as last year he used to watch Beerbaum and Keachie set the valves on the Porter engine while he calmly stood by and munched a ham sandwich.

John is a good fellow though, and we wish him all kinds of good luck out in the world.



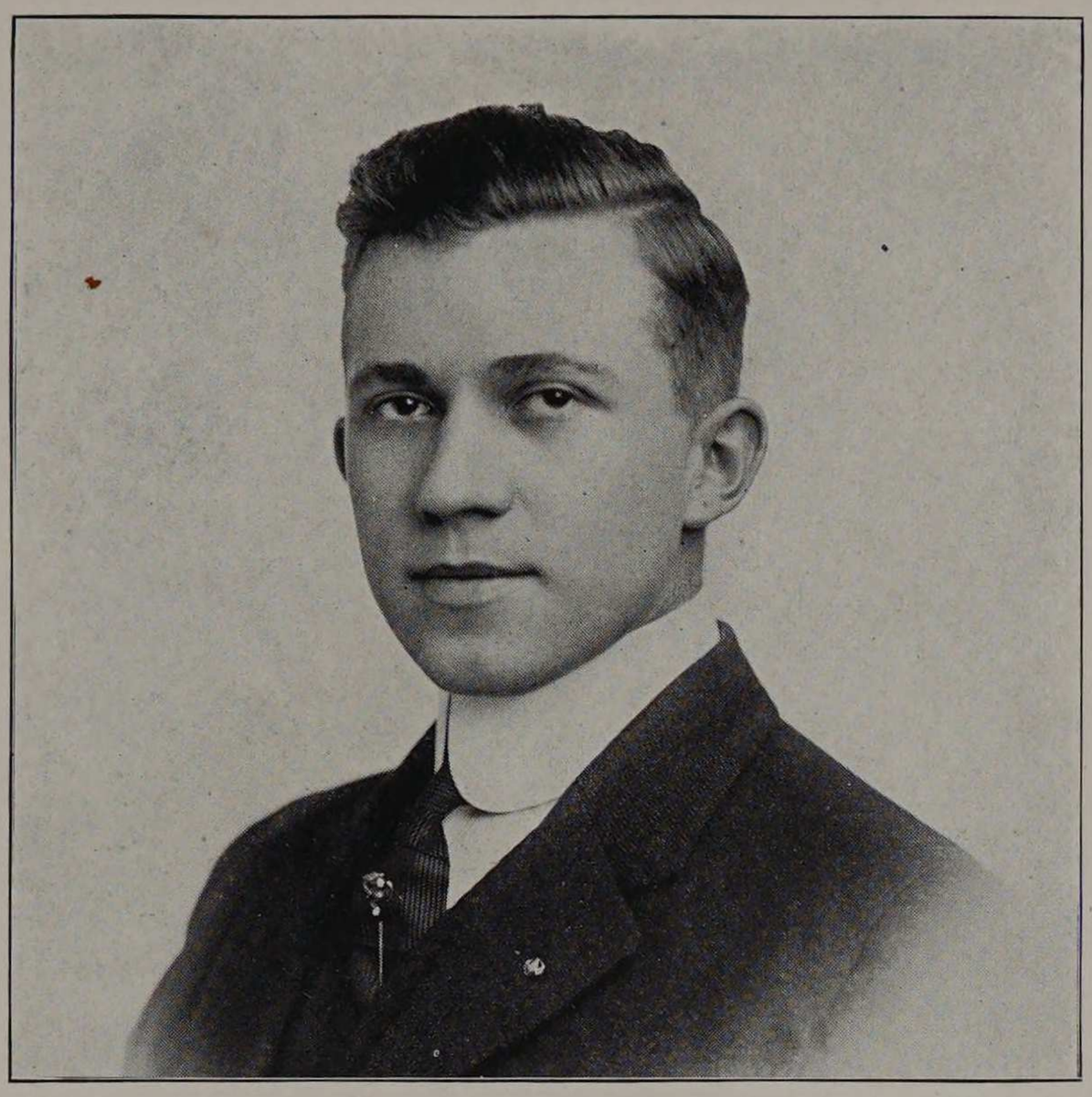
WILLIAM HENRY STEWARD

Armour Branch, A. S. M. E.

In Wm. H. Steward, Jr., we find a man who, by his quiet and dignified manner, has won the esteem and respect of all his classmates. Such a man will have an easy time making good, for it often happens that the amount which other poeple "toot our horn" varies inversely as the amount we toot it ourselves. Steward was born in Louisville, Ky., September 23, 1886 and spent all of his early career in that place. It was at an early age that the idea of becoming an engineer struck him. From this purpose he has never swerved.

After completing his grammar school course, he entered the Central High School of his home town and there obtained his prep. course graduating in 1905. In September of the same year, he entered Armour and continued here at the Tech. for two years. At the close of his second year, he decided to have a taste of the practical side of engineering and so, for the succeeding two years, he was missed at Armour. At the end of this period, he came to the conclusion that a completed course was far superior to a foundation and so returned to Armour in September 1909.

Since that time he has been with us and has done good, consistent work: not the kind of a man who tries to do all the work the first day of the semester, but one who keeps his work up right along and manages to get through in good shape. As he is now about to leave, he has our best wishes for a happy and successful future.



NELS WILLIAM STRALE

Thesis: *Test of a Three Ton Refrigerating Plant.*

Armour Branch, A. S. M. E. Treas. (4) Junior Play
Mandolin Club Chairman, Freshman Smoker Committee (4)

Have you ever met a man who is always willing to lend a helping hand to everyone even at the expense of losing something for himself? There aren't many of us who are built that way, but yet we run across one of them once in a great while. On April 30, 1890, the fair haired idol of Sweden, Master Nels Strale started in to help someone and the habit grew to such large proportions in his early days that right now it is second nature to him, and he does it unconsciously. When only six months old he used to help his father's hair to grow by grabbing a handful in each little chubby fist and pulling for dear life.

Nels came to Armour in the fall of 1908 and immediately commenced to help the rest of us through descript and college algebra. In his Sophomore year he made himself quite notorious by nearly creating a riot down at Orchestra Hall, at least that is what the Tribune and Record Herald said in their head lines; but Strale said in his usual modest manner, "Aah, Oi'll I did was to keep the fellow from walking all over me." Then last year when it came time for Bill Dunn and his side kickers to produce the Junior Show, Master Strale again proved invaluable. The Marshals of Junior Week were at a loss to know what to do and the First Marshal summoned Dierking and Kimball unto him and with anguish stamped on his features said, "Fellows, where can we get a man who is responsible enough to be property man?" Whom to be sure, but Strale, and Strale it was, and believe me in spite of the fact that he had a thousand places for each hand to be at the same time he managed to see the curtain lowered safely at the end of the last act.

Even now in his Senior year he is forever helping. Early in the fall it was helping the upper classes hand out pipes to the Freshmen at the annual Freshman Smoker. Later on it was collecting dues for the Mechanical Society and now it is helping Beerbaum and Keachie make ice.



HENRY TSUNEZO YOSHIDA

Thesis: *Velocity of Water by Pitot's Tubes.*

Chapin Club

This little man hails from the land of the rising sun. He saw the crysanthemums bloom for the first time in Tokyo on July 2, 1884. With the other little men of his race he soon learned all the tricks of jiu jitsu and even though he is small in stature he is able to take care of himself perfectly. In 1898 he entered the Commercial and Technological School of Tokyo. He spells Tokyo with a y instead of an i, so it surely must be right. He stayed in this school for four years and in order to gain more knowledge he sallied forth into new countries. He spent four years travelling in many of the European countries trying to find a school that was best suited for his needs but the search proved fruitless for he came to United States in 1907.

It was then that he heard of the great collection of sword guards of the Armour Institute of Technology so he immediately began to investigate matters. Things looked pretty good to him and he entered Armour in the fall of 1908. My goodness, what a shark he was in math. We heard Prof. Leigh say the other day that we had one foreigner that surely was a wonder in Calculus and that was Yoshida. He only stayed with us for one year and then went up to Wisconsin for a while. However that school didn't offer anything difficult enough for our wizard so back he came to get his diploma from Armour. He will get it, too, this year and when he goes back to the land of the far east they surely will have one good engineer at least.



The Senior Chemical Society

The present year has marked an epoch in the Senior Chemical Society. The plan of having monthly dinners instead of the regular meetings of the society was started at the first of the year and has been successfully carried through. The meetings have been a success in every particular; The speakers have been uniformly good, the attendance large and the interest steady. The following speakers have given talks at these monthly dinners:

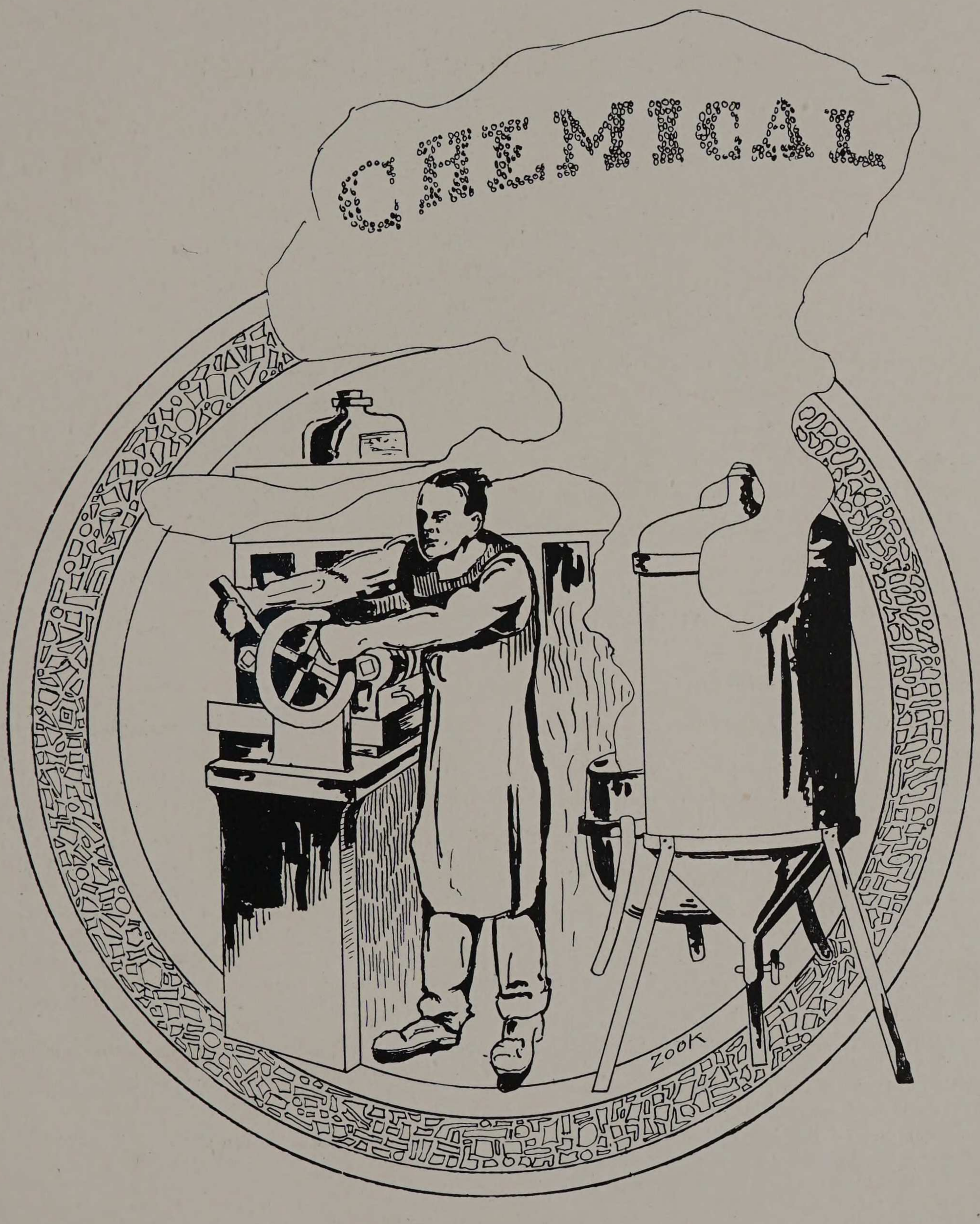
PROFESSOR HARRY MCCORMACK . . . *The Ethics of Chemical Engineering*
MR. HAY, Chief Chemist Starck Rolling Mills . . . . . *Ingot Iron*
MR. J. S. SHEAFE, Engineer of Tests, I. C. R. R. . . . . *Supply Testing*
MR. W. HOSKINS, Consulting Chemist . . . . . *Factors for Success*
MR. LOWENSTEIN, Chief Chemist, Morris & Co. . . . . .
. . . . . *The Chemical Engineer in the Packing House*

The January meeting was given as an alumni banquet at the Sherman House. The speakers were prominent alumni of the department. Their subjects had a wide range; from discussion of the selling side of the chemical engineering field to the details of the manufacture of sugar. Tech songs were sung and members of the glee club gave several selections. About fifty of the alumni students of the department attended.

Preparations are now being made for a wind-up alumni banquet to be given at the University Club early in May. Unusual attention is being paid to the details of this banquet and every effort is being made to make it the best of its kind. Notices were sent out early in April and the society hopes to have seventy men present.

OFFICERS FOR THE YEAR 1911-1912

E. P. ROLESON . . . . . *President*
P. G. PIRRIE, J. C. HOEHN . . . . . *Vice-Presidents*
S. KAHN . . . . . *Secretary*
J. J. NEWMAN . . . . . *Treasurer*


CHEMICAL
ZOOK



HERBERT ARTHUR BEIFELD

Thesis: *Fuller's Earth.*

Senior Chemical Society — American Chemical Society

This is not the Beifeld who owns the Sherman House, but it's all in the family. Herbert Beifeld was born in Chicago, March 9, 1890, but, finding the place too small, moved to New York city. He attended grammar school in that village and had completed two years of high school, when he decided to take Horace Greeley's advice and "go west." Accordingly, he returned to Chicago in 1906 and entered the Hyde Park High School. After graduation, in 1908, he carefully looked around for some place to go and finally decided on Armour. He entered just in time to meet Newman and, being kindred spirits, the two formed an alliance, offensive and defensive, which has sustained many shocks but has always recovered.

Beifeld's greatest sorrow at present is that his chem. locker is directly along side of Schommer's. Schommer is always kicking "Herb's dog aroun" and making life miserable for him. We would not be surprised if a strong dose of potassium cyanide were to play a prominent part in the feud, leaving Beifeld as the sole survivor.

In 1910, our hero worked as chemist at the borax works and came back to school equipped with deep secrets of the borax industry. He conducted many secret experiments with his trusted friend Newman and finally announced that a fortune was in sight. However, the fortune remained at a safe distance and finally faded away.

On one of the inspection trips to the Standard Oil Works at Whiting, Beifeld beheld a chemist working with Fuller's earth and was so entranced by the sight, that it was with great difficulty that he could be led away. It was a case of love at first sight and he suddenly forgot his old affinity, Borax, for this new charmer. When he found that the recovery of Fuller's earth was a dividend paying proposition, his mind was made up, and he selected this subject for his thesis. We can guarantee that if there is any money in the proposition, Beifeld will get it out.



HENRY CHARLES DORMITZER

Thesis: *Variation of Heat Transmission in Vacuum Evaporator.*

Omega Lambda
Tau Beta Pi
Radical X
Senior Chemical Society

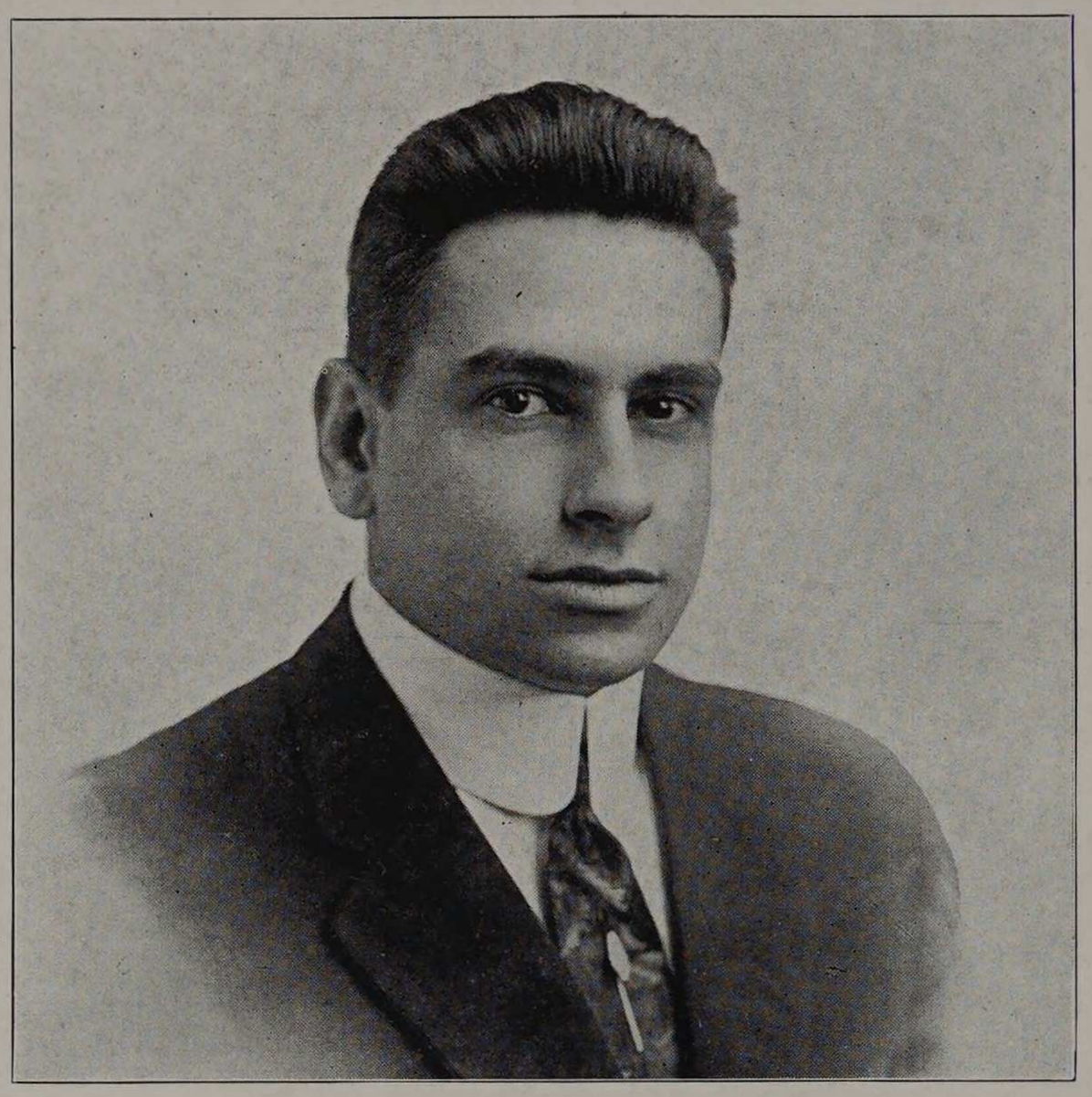
Assistant Editor, Senior Class Book
Mandolin Club, (1), (2), (3), (4)
American Chemical Society
Assistant Editor Elect, Integral, (3)

There is only one thing that "Dormy" hates worse than to have Roleson muss his hair and that is to have Schommer do it. This chem lab star is variously known around school, his chief nicknames being "Bismark," "Dormy" and the "Chemical Beauty." He enjoys the distinction of being the neatest man in school, and, except when his spick and span appearance arouses the ire of his two fellow chemicals, there is not a hair out of place nor a spot of dust upon his clothes. However when occasion demands he can get gloriously dirty in mech lab, and we really believe he enjoys it.

"Dormy" parted his hair for the first time, in September, 1890, in far off New Orleans. Fearing that with his natural tendency to enjoy sleeping late, he would never get up in that warm and pleasant climate, his parents moved to Chicago in 1893. Thinking that three years of the hustle and bustle of Chicago had entirely eliminated this tendency, they moved to California, but here he had a relapse and has never recovered. He has never been known to get to a first class on time, no matter if the class be a ten-thirty. The Englewood High School was the scene of his high school activities and here he first started to tinkle a mandolin. He has been one of the mainstays of the Mandolin Club during his entire college career.

The only place that his desire for sleep does not attack him is in the chem lab and here he is a hard worker. His practical experience with the Heath-Milligan Paint Company has enabled him to make analyses quickly and accurately. His forte however is the analysis of soap. He has an uncanny ability for guessing the right answer to any question put up to him, and it is this ability combined with his studious look which has made him one of the honor men of the class. "Dormy" is figuring on going to Europe next fall if he can get anybody to go with him, and we think his desire to go is due to the fact that Muenchner has a better flavor before it is disturbed by the ocean voyage.

If he and Roleson manage to get the pump going in the industrial lab they are going to run some tests on the Swenson evaporator using different kinds of metal tubes for steam pipes. Any comments on this thesis are uncalled for. We are sure that "Dormy" is going to make a success of his work in the world, provided he can keep his hair smoothed down, and so we wish him "Gesundheit."



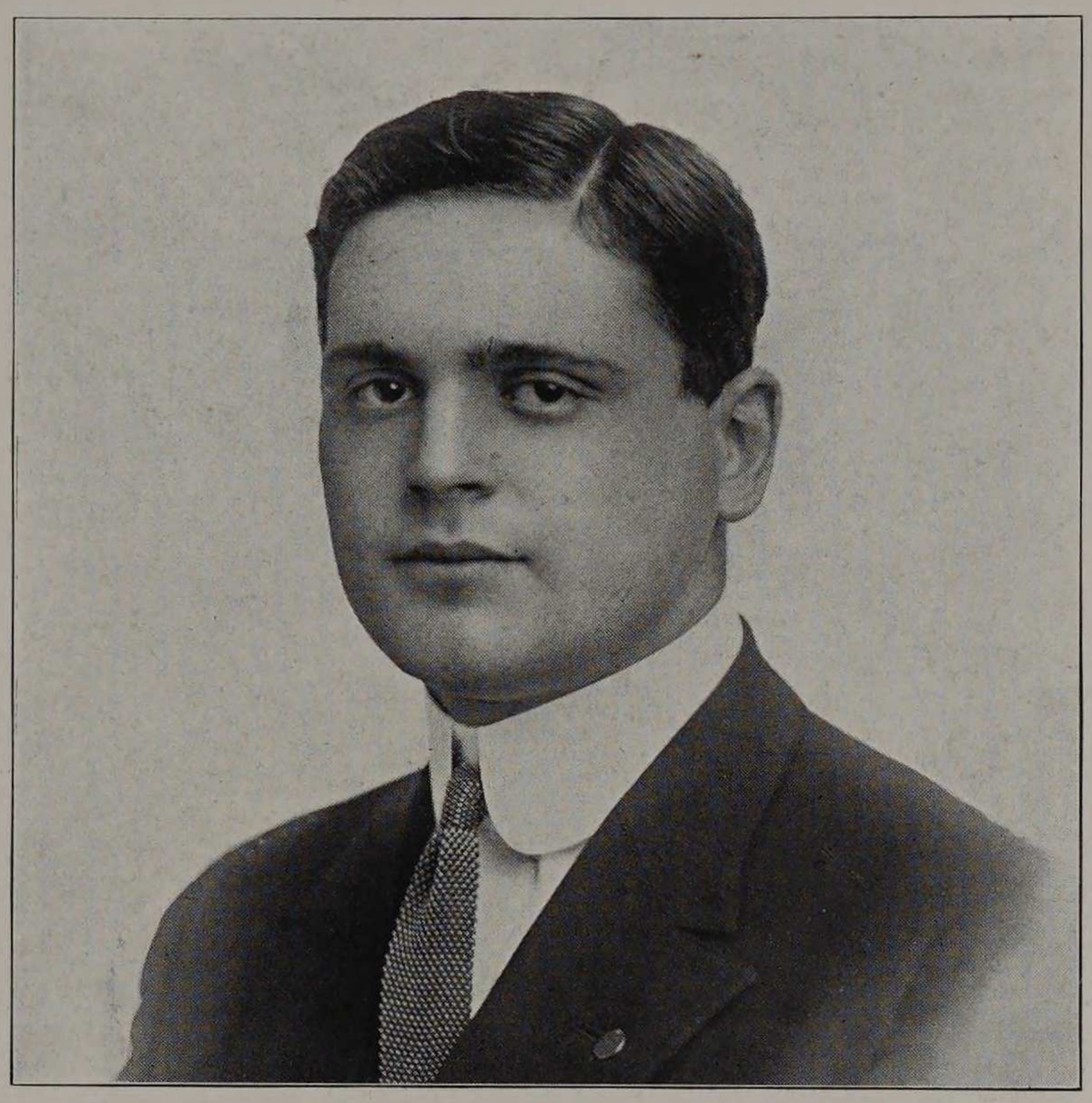
JOHN CURTIS HOEHN

Thesis: *Production of Alcohol from Whiskey Slops.*

Senior Chemical Society, V. President (4)

Hoehn is a product of Ohio, having been born in Cleveland, June 15, 1890. His life from that time until he entered Armour is a deep mystery which we were unable to solve even by an interview. When it comes to personal history, Hoehn has a worse memory than a beef trust witness. For an outline of his life, prior to entering Armour, he wrote, "Lake View High '05 to '08," from which we gather that at some remote period, he moved to Chicago and entered the Lake View High School. After graduation, Hoehn undertook to explore the south side, but finding a cozy place at 33rd and Armour, decided he would linger for a while; so he enrolled in the Chemical Engineering Course at the Tech.

Hoehn is the dark horse of the Chemicals. He will go quietly along with his work for a number of weeks, without attracting any special attention and then, when least expected, will suddenly startle everybody by doing some work in one evening that the rest have been putting off into the future as too much trouble. He has the distinction of having handed in the only thesis in physical Chem that represented original work. This gained for him the title of "the Original Thinker." Hoehn is of a modest retiring disposition even if he does come to school from the north side with the Normal School girls. He is a member of the Armour Y. M. C. A. but has no other bad habits that we know of. For thesis work Hoehn is assisting Kahn in recovering alcohol from whiskey shops but we are afraid that if any alcohol is recovered, Kahn will get it.



SIDNEY KAHN

Thesis: *Production of Alcohol from Whiskey Slops.*

Senior Chemical Society, Sec'y. (4)
American Chemical Society

Class Baseball (1), (2), (3), (4)

Perhaps he doesn't look it, but here is the baby of the chemical department. He will not even be able to vote at the next election. Sidney Kahn was inaugurated into Chicago March 4th, 1892 and has remained here ever since. He has been attending school at 33rd and Armour for so long that he can hardly remember when he started. No, he's not a flunker, dear reader, it's this way: he entered the Armour Scientific Academy in 1905 and graduated in 1908. He became so attached to the place that he decided to stay awhile longer, so he entered the "Tech" in September of the same year. He has never told us what induced him to become a chemical but he probably thought that this was the best field for a man of his bluffing capacity. Kahn has a record of never having said, "I don't know," to any question asked him. He would scorn such a hackneyed expression, because Sidney Kahn is always original. He has another way of saying the same thing. He will say "well" in a sharp decided way as if he had made a life study of that particular subject, and then talk fluently on something entirely different, ending up by saying, "I don't think I quite understand your question." This habit has caused many to spell his name C-O-N.

Nevertheless, Kahn has plenty of push and go in him and his perseverance is shown by the fact that he worked for two weeks trying to get sugar from molasses and would certainly have succeeded if the sugar had not already been taken out. He once declared that he was all bone and muscle but has demonstrated to our satisfaction that he also has brains. For thesis, Kahn decided to make alcohol from the residue of whiskey distillation and has succeeded much better than with the molasses. He says he'll put John D. out of business by substituting his product for gasolene.



CHARLES NESS

Thesis: *Design of a 600 Ton Beet Sugar Plant.*

Senior Chemical Society

Why do we celebrate the 4th of July? No, guess again. Give up? Well we'll have to tell you. On July 4, 1891, Chas. Ness made his debut into this world. He chose Kensington as his birth place and was so well satisfied with his choice that he never left the place. Some say that the picture in his watch has a good deal to do with his remaining, but Ness blushingly denies this. Nevertheless, there must be some great attraction out there because Kensington is so far away from the "Tech" that Ness has to spend half his life on the street cars riding to and from school.

Charley entered the Curtis High School in 1904 and graduated in 1908. While he could have learned to raise the dough in his father's bakery, he didn't quite like the method, so he looked around for a better way. He could easily see the steel mills at South Chicago from his back porch, and, while still young, longed to have a blast furnace of his own. From this, he figured, he could derive a good income which would enable him to buy a home, feather the nest and marry the girl of his choice. He finally decided that it was best to practice running it on someone else's furnace so he came to Armour and enrolled as a Ch. E. Ness worked hard for three years, and then, finding that his studies interfered too much with his regular college course, he cut out the studies. He only came to school once in a while to see that his friends in the chemical department did not abstract all the apparatus from his locker. Suddenly he reformed and again became a model student. Charley can certainly work when he wants to and believes in doing things on a large scale. He has entered into competition with the sugar trust by building a 600 ton sugar plant—on paper.



JOSEPH JULIUS NEWMAN

Thesis: *Fuller's Earth.*

Senior Chemical Society, Treas. (4)

There is another J. J. in the chemical department, but its not his fault that his initials are the same as Schommer's. Far be it from such that these two should have anything in common if they can help it. Newman was born in Omaha, in 1890 and was so afraid that someone would get in ahead of him that he chose the first day of the year for his grand entree.

After attending grammar school at Omaha, he moved east to Chicago, but it was only after a terrific struggle that he succeeded in tearing himself away from the mint at Omaha. Newman prepared at the North West Division High School and graduated from there in 1908. He wanted to go out immediately and do the world, but was persuaded to suspend operations for four more years and to enter Armour instead.

He enrolled as a freshman in 1908 and at once came to the front as a math shark. For a time he worked alone, but believing a partnership more profitable, he formed the Beifeld-Newman Co. strictly lt'd. Newman's financial ability was early recognized by his fellow chemicals who elected him treasurer of the Chemical society. Jo is noted in the chem lab for his check results. He can get check results on anything from weighing out a sample to determining the amount of radium in gas liquor. At least he claims he can, and the results always check when he shows them to us.

Newman is quite a fusser and has a regular feminine directory in his private note book. We have heard that several girls have written to Laura Jean Libby on account of him, but Jo refuses to enlighten us on this subject.

He is an expert in judging cheese and oils and if he ever should fail as a chemist (which is doubtful) we can safely recommend him for the delicatessen business.



EDWARD PHILLIPS ROLESON

Thesis: *Variation of Heat Transmission in Vacuum Evaporator.*

Kappa Sigma
Tau Beta Pi
Chapin Club
Senior Chemical Society, Pres. (4)
American Chemical Society
Champion, A. I. T. Golf, Fall 1911

Business Manager Senior Class Book (4).
Class Vice-President (4)
Chairman Class Picture Committee (4)
Auditing Committee (3)
Class Baseball (3), (4)
Runner-up, A. I. T. Tennis, Fall 1911

"Mistah" Edward Phillips Roleson hails from "Arkansaw." He was born in Memphis, Tenn. February 14, 1890 but at an early age moved to Forrest City, Ark. "Roly" received his first schooling in the south, but as Arkansas University was too slow for him, he came up north to run things. He enrolled at Armour as a Ch. E. and passed through his first two years successfully by overawing Prof's Wilcox and Campbell. In the spring of 1909 Roly thought he'd try his hand at a little practical work, so he left Armour to take charge of the I. C. Railroad under the title of "Chemist and Inspector." Perhaps he found in the course of his work that he still had something to learn, for he reentered the Institute in 1910 to join the class of '12. His debut in this class was made at one of the chemical banquets where he appeared accompanied by one of the cutest little mustaches that it has ever been our pleasure to behold. In spite of this handicap, he succeeded in getting into things on the jump and has remained in ever since. There is no doubt of Roleson's ability to get what he wants as is evidenced by the fact that he was made a member of Tau Beta Pi, vice-president of the senior class, and business manager of the Senior Class Book. He was also appointed by the Deans as cheer leader for the school on Founder's Day and, with the exception of Mr. Taft, was the most prominent personage present.

Roleson has also demonstrated his ability in the athletic line by his winning the 1911 golf championship of the school. It may be noted here that Roly moves over to Jackson Park each spring so as to be near the links for his morning game. He also plays on his off afternoon and sometimes on afternoons that he has not "off" as Prof. Freud can testify. Roleson claims to be unaffected by the charms of the fair sex, but has been often known to go to the same show twice with a pair of opera glasses and it wasn't grand opera either.

We can safely predict a great future for Roleson and have no doubt but that he will some day be President of the United States if he can only coax his mustache out a little further.



JOHN JOSEPH SCHOMMER

Thesis: *Study of Glycerol in Vinegar.*

Phi Kappa Sigma
Senior Chemical Society
Track Coach, (4)

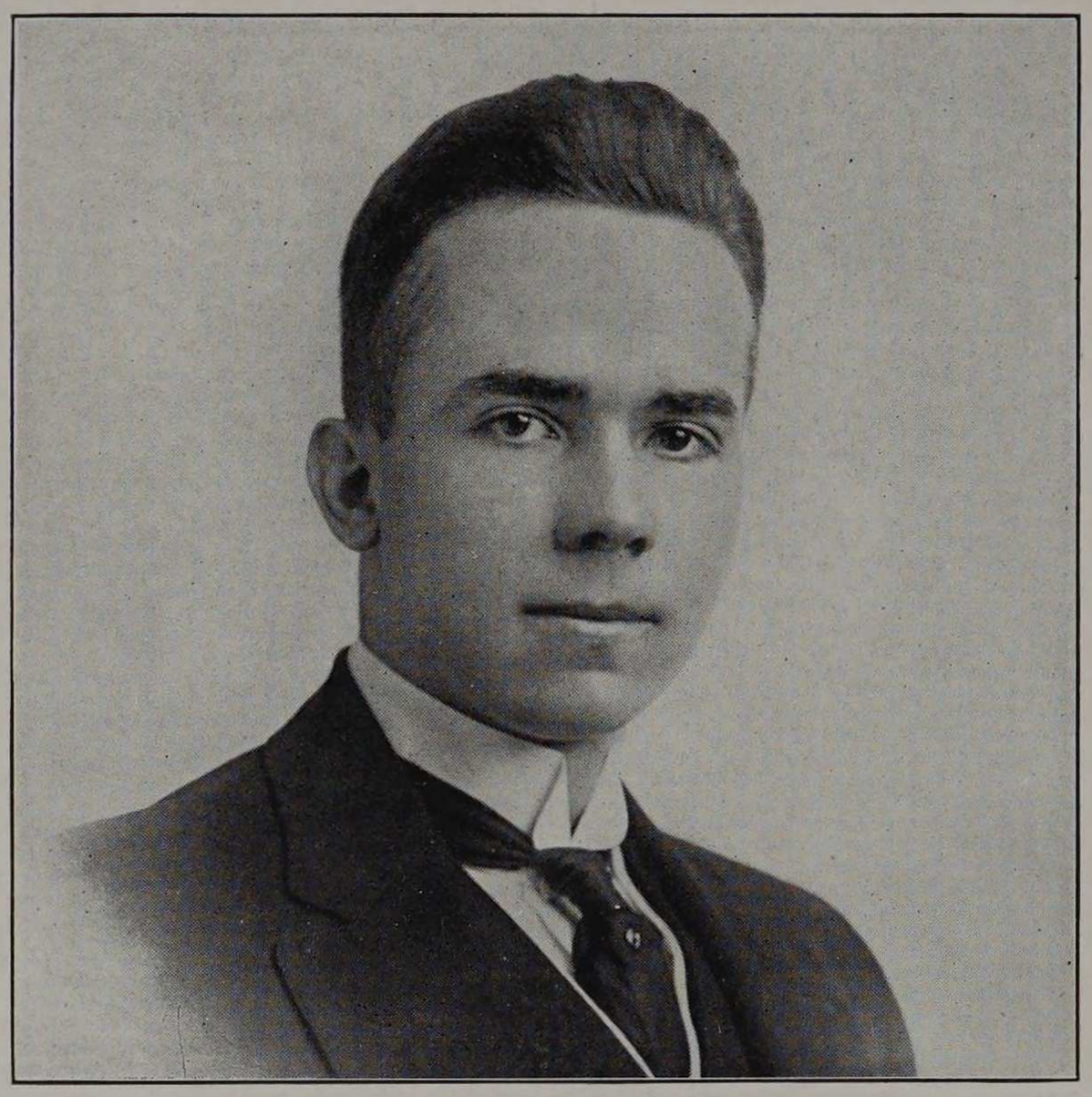
S. B. University of Chicago, 1909
American Chemical Society
Class Baseball (3), (4)

Yes this is the famous J. J. Schommer, formerly of the University of Chicago, but now a full-fledged Armourite. "Jawn," the dean of the chemicals, was born in Chicago on January 29, 1884. He began his schooling in one of the Chicago grammar schools, prepared at the Association Institute, and entered the U. of C. in 1905. Here Schommer proceeded to make himself famous as an athlete and as he was not yet ready to specialize, he joined the baseball, football, basketball, and track teams. He was also special adviser to the president of the university on athletic affairs and it is due to their conferences in Mr. Schommer's office that athletics at the university were brought up to their present high standing, so Schommer tells us.

John J. graduated from the U. in 1909 and took a year's post-graduate work so that he might enter Armour. He enrolled at the Tech in January 1911.

Schommer is one of those individuals whose sunny disposition enables them to acquire friends wherever they go. He has a story for every occasion and his parables are famous in the chem. lab. He was at one time asked to run for alderman by a delegation from his ward but preferred to work for his living. It was at Schommer's suggestion that the chemical society has adopted the system of banquet meetings that has so advanced this organization.

John's chief aim in the lab is to make vinegar from everything in sight and to secure the goats of Beifeld and the curator, Mr. Dean. He is more successful at the latter than at the former. He has also a secret ambition to make a million dollars, marry and,—but we are getting too personal so we will only add that Schommer has always one place to spend his evenings besides at home.



EVERETT WADE TURLEY

Thesis: *Manufacture of "Crisco".*

Omega Lambda
Senior Chemical Society
Radical X

American Chemical Society
Class Picture Committee (4)

Here we have the original self-made man and one need only to look at the picture to see that the architect knew his business. Turley comes from the Hoosier State, having been born in Galveston, Indiana, July 14, 1886. But, being of a restless disposition, he got tired of the place before he was five years old, and moved to Logansport. Here he attended grammar school and later conducted one of the largest apiaries in Cass County, by gosh! However, getting stung didn't agree with Turley's constitution, so he learned the machinist's trade. He entered the Logansport High School and made quite a record as a football and track man. His team that year won the Indiana State Football Championship.

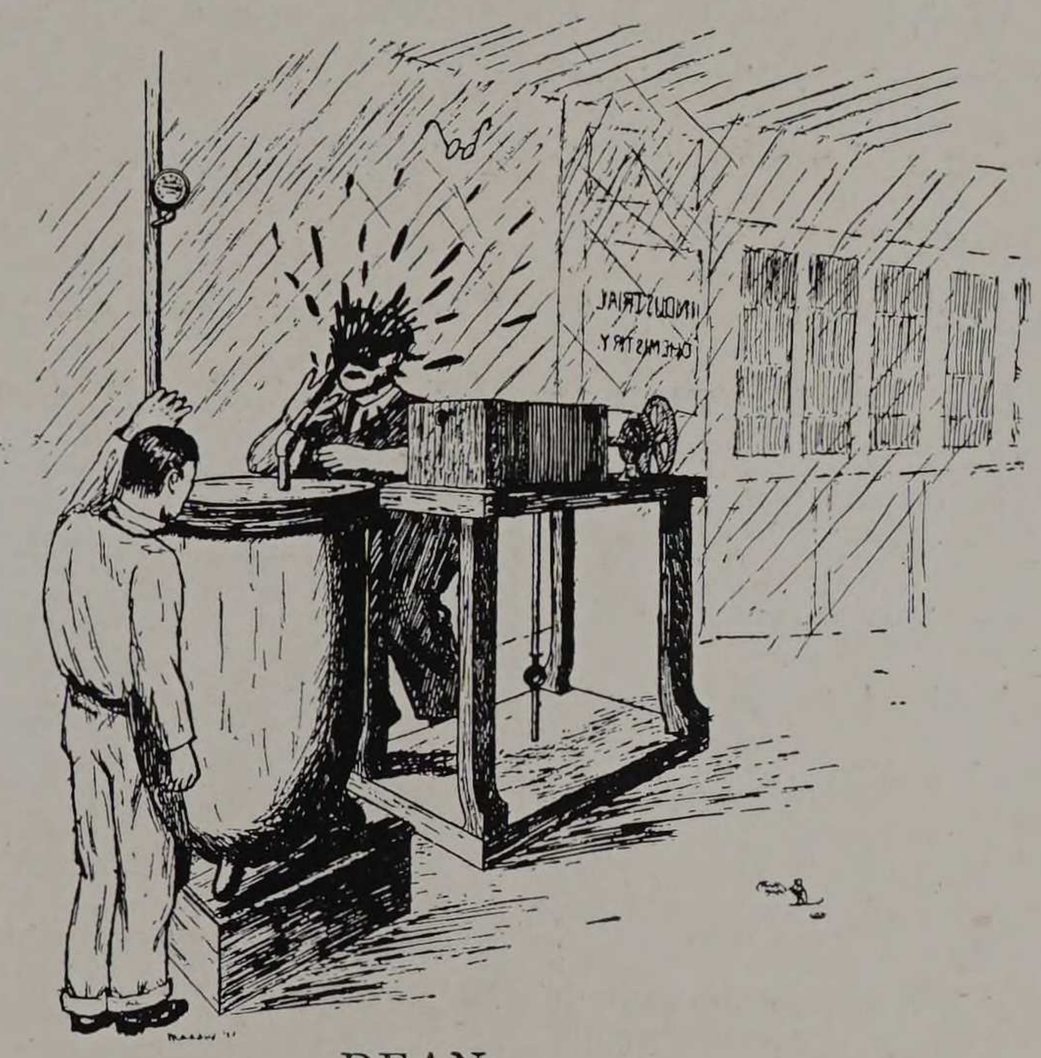
After graduation he went to Kokomo, but soon recovered, and moved to Indianapolis. It was here he contracted automobilitis, a disease which went to his head, and from which he never recovered. Being of an ambitious nature, Turley came to Chicago in search of the higher learning and entered Armour in 1907. He is the most energetic man ever: he carries a program of about 44 hours, and is always on the go. He gets up at 6 a. m., studies his lessons, goes to school at 8, leaves at 5 and then works until 2 a. m. After that he has nothing to do until morning, and can sleep and loaf. You would never think that he was one of the dare-devil drivers in the Vanderbilt Cup Race of 1906, but such is the case.

He reads more technical books than all the rest of the chem department put together and has a collection of reading matter at home that would make the Crerar library green with envy. In spite of all this Turley has been quite a "jiner" of societies and will always be held up as a shining example to freshmen, who, with a program of thirty hours claim they are overworked.

"INCIDENTS MAKE HISTORY"

THEREFORE:

A PAGE FROM HISTORY



DEAN

MALEKOW

MALEKOW'S REVENGE

The Atelier

OFFICERS FOR THE YEAR 1911-1912

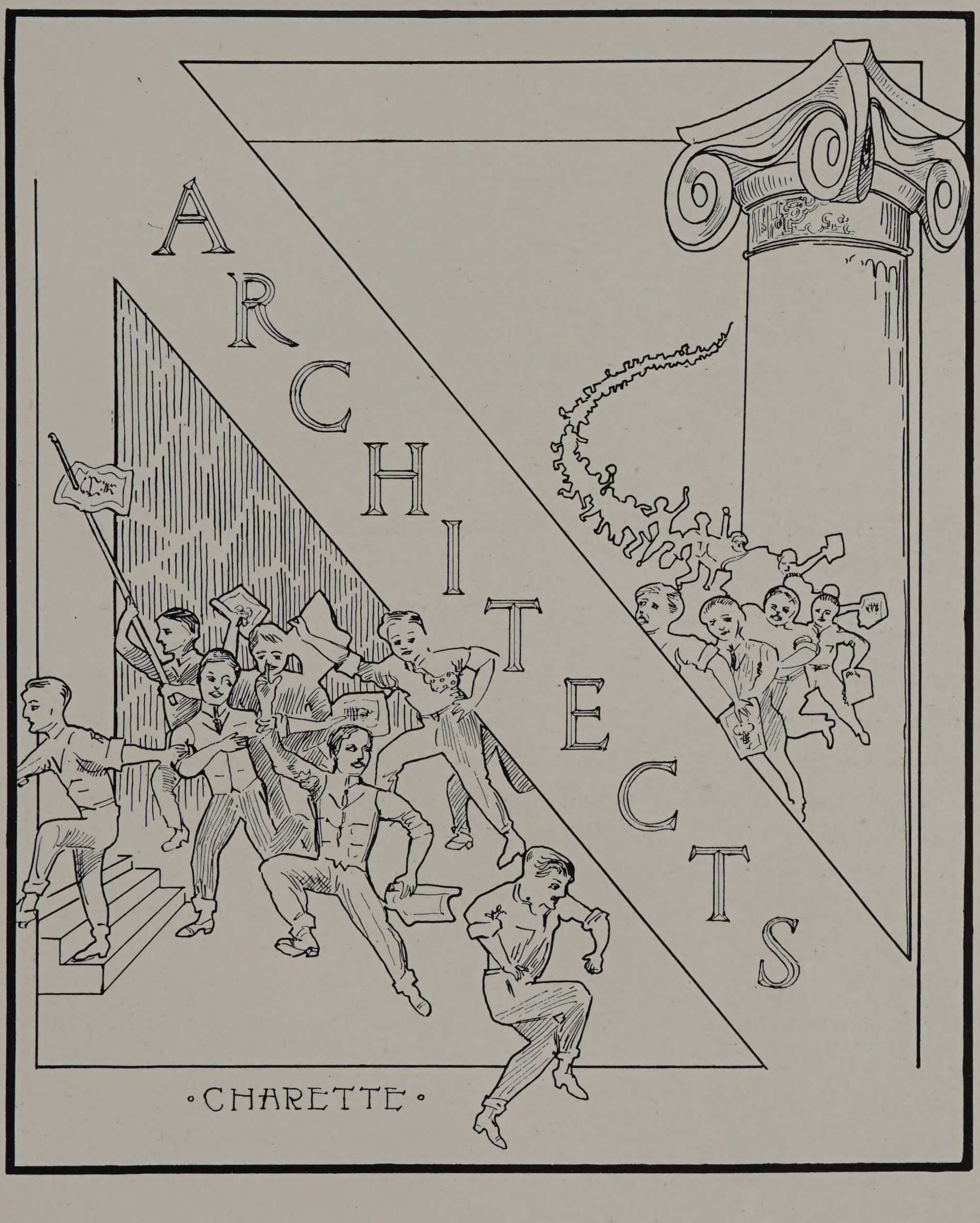
E. M. Sincere . . . . . *Massier*
G. S. Barber . . . . . *Secretary*
R. W. Ermeling . . . . . *Treasurer*
D. Connell . . . . . *Sergeant-at-Arms*

At the first meeting of the Atelier this year, it was decided that hereafter the freshmen should not be admitted until they had made a tracing of some drawing chosen by the "print committee." Blue prints made from these tracings are to be used by the members for reference. This method has met with much success in the Eastern schools, and promises to do so here.

The opening smoker given in the Art Institute to the freshmen was very successful. Mr. Holden of Atelier Bennet spoke on the "City Beautiful" plans then on exhibition; and Mr. Hussey gave a talk on the architecture of the far East. The musical program of Mr. Barber and Mr. Shynman was exceptionally good. Later Mr. Rebori told many interesting facts concerning "sky-scrapers"; the men of Atelier Bennet being invited to this smoker. In February, Mr. Hornbostle, one of New York's most noted architects, gave two lectures. The first on Yucatan architecture, and the other on "The Development of the Imagination". Mr. Hornbostle said that architecture was becoming an artistic study in the schools, rather than one from the engineering side; and that no school possessed better opportunities for such study than did ours with the advantages and spirit he found in the Art Institute.

Many of the architects took part in the Masque of Montezuma given at the Institute, one performance being given at the Mardi Gras and another during "Flower Show Week". A third was given for a motion picture company later in the year.

In March we exchanged drawings with Boston "Tech"; and our work compared favorably with that of the older school. The Annual Atelier Reception and Dance in April was an event to be remembered. Invitations were extended to the Chicago Architectural Club, the Atelier Bennet and the Hant Atelier Association. Likewise the numerous Architects "Informals" have had their most successful season. The Annual Banquet proved a fitting close to the Atelier records of the year.


ARCHITECTS
·CHARETTE·

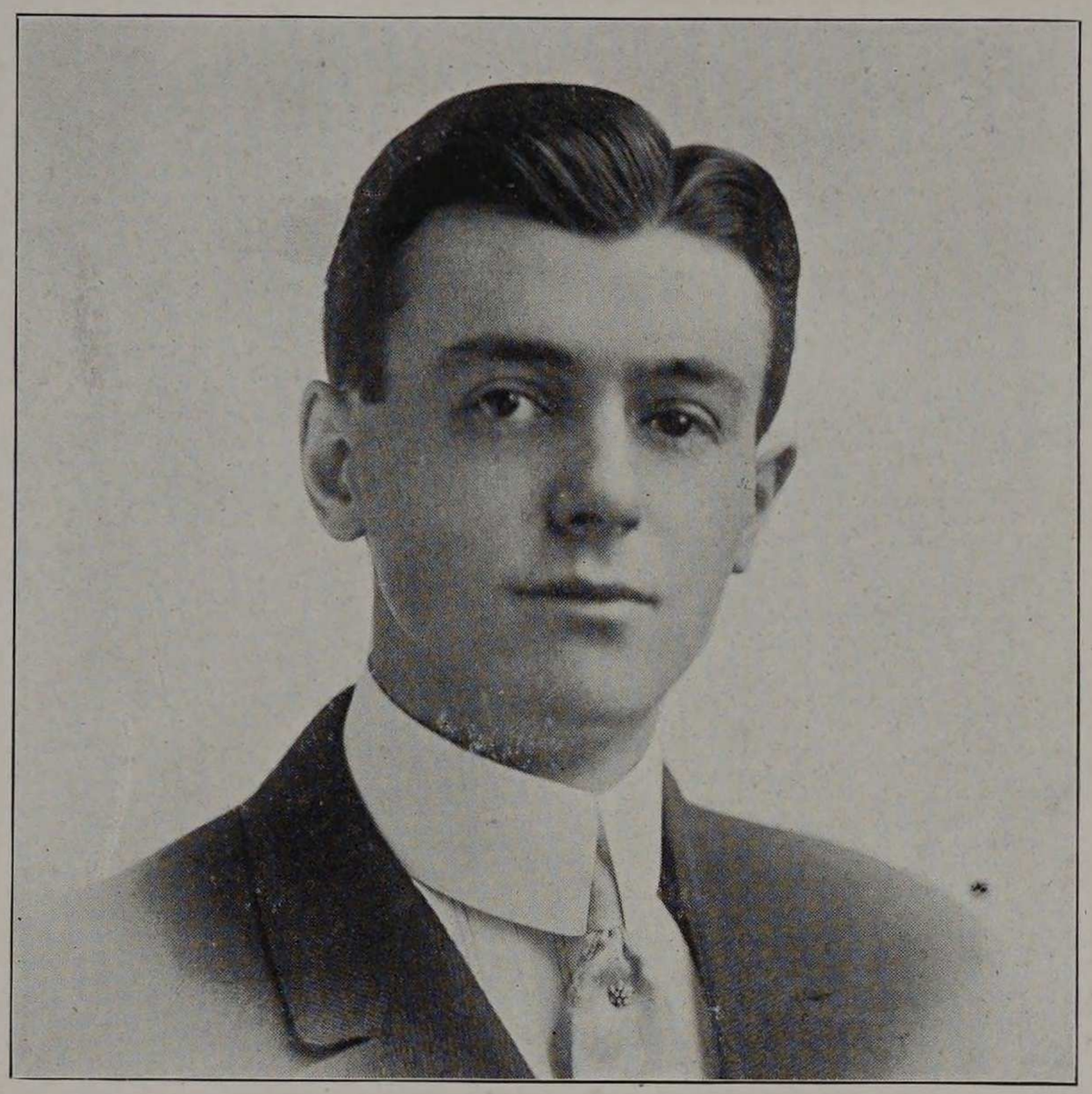


DANIEL CONNELL

Thesis: *American Embassy at the Court of St. James, London.*

Delta Tau Delta — Atelier, Sergeant-at-Arms (1), (2), (3), (4).

"Quam quisque novitatem, in hoc se exerceat." In other words, Cicero says "let a man practice the profession which he best knows." Our "Mawruss," however, had two professions in Armour—architect and store-keeper. For it was none but he who introduced the first cooperative architectural supply house in the school. After trying quite a number of schools and colleges, Connell finally decided that Armour might have the honor of giving him his degree. Perhaps it was the fact that more supplies could be sold in an architectural draughting room that one of an engineering study, that influenced "Mawruss" to take up the study of architecture. In the end, however, art triumphed over commercialism; for Connell has decided that four years is not a sufficient length of time in which to complete the study of architectural design. So it is "our Mawruss," who will have the honor to inaugurate the fifth year design course in architecture, when he returns to Armour next year. And we regret that we cannot do likewise; for never again will we be entertained with choice intellectual readings from Kant, Chesterton, Balzac, Wilde, Synge, Maeterlink and "The Line," as we were, when business and school worries left "Mawruss" at leisure for a few moments. And no more will we be asked "What to do?" when the "upholder of law and order" of the Atelier hurries into the busy draughting room. At the close of his college life, however, Connell's thoughts turned again to the country in which his pursuit of learning started, namely England. So for his thesis "Mawruss" has chosen a palatial residence for the American ambassador in London; and who can tell but that some day we hear of D. Connell—M. P., R. A. of England?

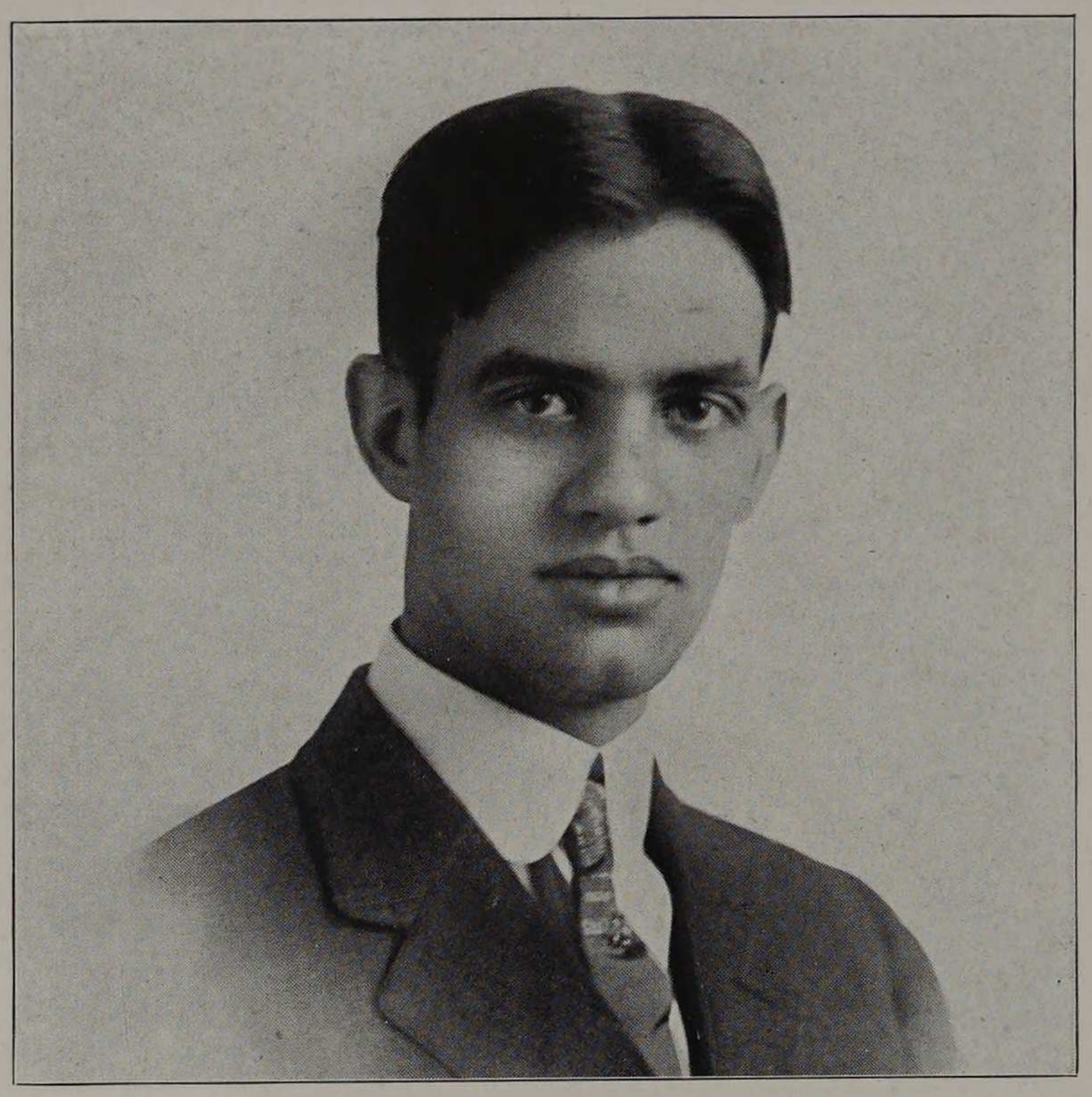


EDWARD VINCENT DEWALT

Thesis: *A Public Library in a Small City.*

Atelier

"Distrahit animum librorum multitudo." Thus Seneca says that a "multitude of books distracts the mind;" but we know that this is not always true. For although "Blackstone" called Dewalt many times during his course at Armour; he nevertheless always finished his projects in spite of these calls. Ever since we discovered that Edward's middle initial was "V," we know why he came to Armour in 1908 to take up the study of Architecture. For the "V" could stand for nothing less than Vignola, one of the greatest men of our chosen profession. After repeated assertions, however, we were led to believe that it was Vincent and not Vignola, so it was as "our Vincent" that Dewalt became known. In our minds Dewalt will always be remembered as a man who could do two things at once, and moreover could do them well. For it is not everyone who can be assistant librarian of Blackstone library and study architecture at the same time. One of the chief disadvantages of such a position, however, was that Edward was deprived of one of our greatest joys (?) namely night work on our drawings for a couple weeks before the "charrette." Frequently, nevertheless, our Vincent would be tempted to remain, and then it was necessary for us to inform him gently that it was past four o'clock and many people were waiting in line to draw books. But even in spite of this; and also many "milk chocolate suppers;" the library stood predominant; as proven by the fact that "our Vincent" will design a library in his thesis. Q. E. D. That same day we shall see:—E. V. Dewalt, Architect—Libraries a specialty.



JOHN GOTTHELF LEGEL, JR.

Thesis: *State Capitol Building.*

Atelier

"Nec scire fas est omnia." Horace asserts that "One cannot know everything;" but it must be acknowledged that John knew a great deal. "If not, why not?" In this manner John would answer many of the numerous questions put to him daily; and invariably he could figure out the "why;" or in other words, John was the mathematician and engineer of our little community. When a small boy in Charles City, there was an idea in John's head that he would some day be that city's leading pharmacist. But the Fates (and also "the Papa") willed it otherwise; and so, after graduating from high school in 1908, he turned toward the East, and in September his name appeared among the "freshies" registered at A. I. T. In the four years which followed there was never a single instant when any of us ever saw John rush around or appear excited even on the day of "Rendu;" but nevertheless he was usually the first one to clean up his paints and brushes. "Why hurry?" he would ask us; but to most of us the day the drawings were due meant nothing but hurry. Quietly but surely John was the first one to leave for the vacations, while the rest were "fussing" over their preparations for departure.

During his summer vacation he learned much concerning full sized details of wood-work, holding a position as draftsman in his home town; as well as a touch of Civil engineering, while tramping many miles with a surveying gang. He chose a "State Capitol Building" as his thesis, and we suspect a "method in his madness." For, with the political influence which the Legel family has in Iowa, it may be that the new capitol building a few years hence will be executed by J. G. Legel, state architect—at least we hope that it will be.



MORTON I. LEVITON

Thesis: *Civic Center in Connection with a Park.*

Atelier

"Architecture is frozen music," but in the case of Morton, all the music was not frozen; for, during his four years at Armour, many selections of Grand Opera have pealed forth from the draughting room in which he was working. Although Morton studied for a commercial career, his "temperament" was too strong within him, to allow him to continue along these lines. So he ceased his pursuit to the "filthy lucre" and entered that nobler and higher epoch of his life, by beginning the study of architecture at Armour. It was not until the famous Leviton-Dillworth alliance that we were aware of the fact that our Morton had strong socialistic tendencies; but then his famous arguments in favor of them nearly won some of us over to his standard. There was never a dull moment in the drafting room, for Leviton had an almost endless supply of arguments, stories (of assorted types) and last but not least, music.

These diversions, however, did not interfere with his work, for Morton has the honor of being the first of us to "land a job." And that was one obtained by competitive examination in which he stood at the head of a list of over thirty men. But even this event will fade away in years to come, for now that Morton has chosen a Civic Center as his Thesis design, we know that some day we shall read in books of the great Morton I. Leviton, the famous expert on city planning, who has helped to make Chicago a true "Garden city."



EDWIN M. SINCERE

Thesis: *A Group of Government Buildings for the Panama Canal Zone.*

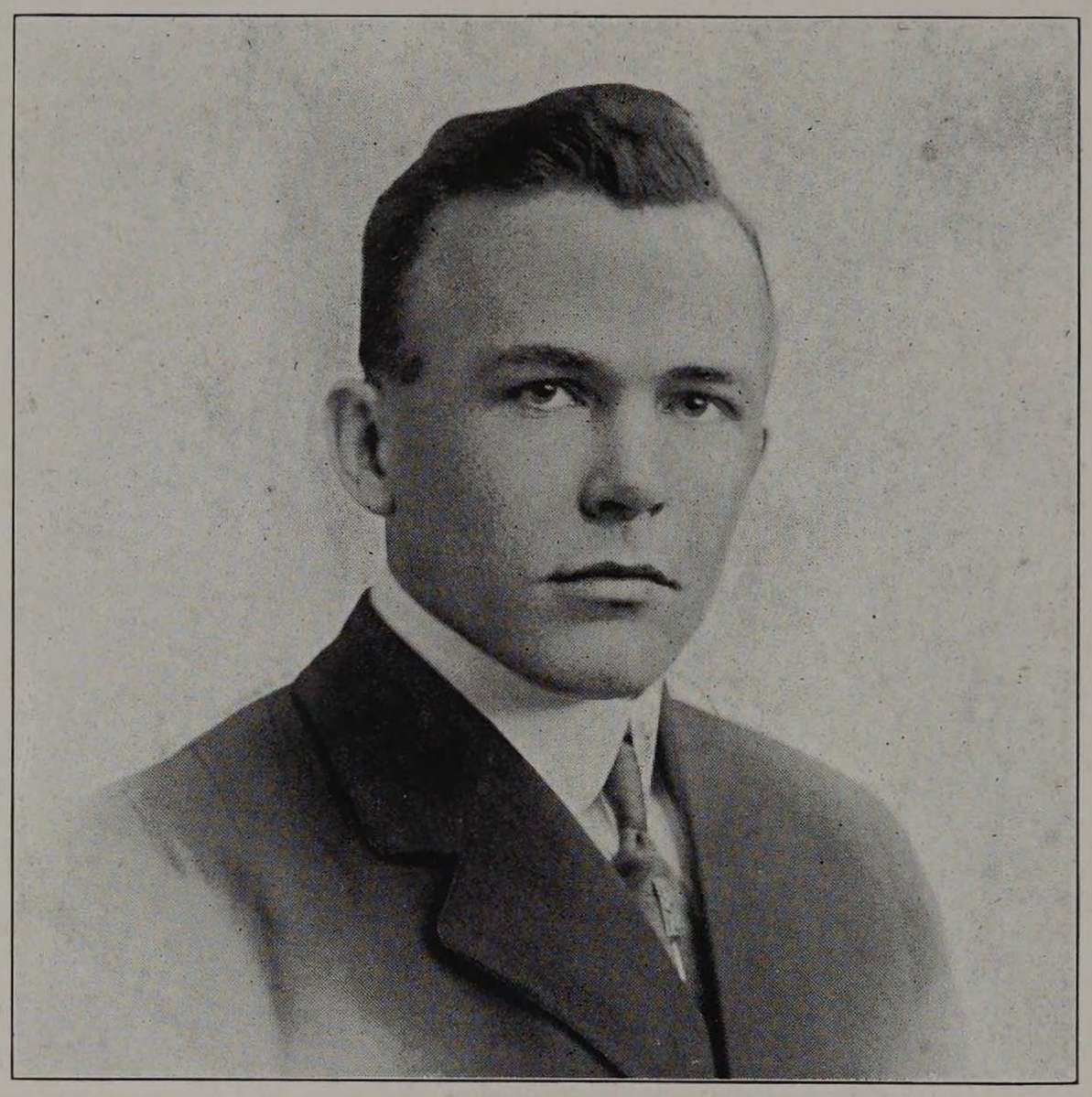
Assistant Editor Senior Class Book Atelier, Massier (4)
Social Representative (2), (3)

"It is so fine a day, I should leave you Mawruss and go by the wholesale district." "Vat, you schnorrer. When for a silent partner I got it, it is not for him to do the buying" bawled Mawruss. Thus a day started and aside from wrangling, the silent partner, Ed Sincere, managed to put in a full day's work. "How does that go, Levi?" he would say, after trying to remember the air from some grand opera selection. Having caught the tune he was soon drawing along rapidly or slowly according to the time of the music. The musical temperament, in justice we must add, is better expressed in the drawing than by the song.

He is apparently a carefree light hearted chap but always has his eye on the goal and successfully "arrives." At the time for the "rendu" he would be at the zenith of excitement but to know him best one should know him in his quiet moods. Ed was graduated from Wendell Phillips in 1908 and entered old Armour the fall of the same year. First making himself known by getting execrated in his freshman year, for maltreating the upper classmen, he forged bravely on after the introduction and finally landed in the chair of Massier of the Atelier.

President Taft's prophetic insight gave Ed the inspiration for his thesis. It will be a group of buildings for administration purposes located in the Canal Zone, Panama. To complete the study of this promising young man, who will succeed, I feel called upon to point out to the freshmen that "a little blarney now and then is relished by the best of men" and Ed is there with the "salve" as any instructor who has had him in class will tell you.





CHESTER ARTHUR SNOW

Thesis: *The Transmission of Heat through Tile and Concrete Fireproofing.*

Chapin Club
Class Baseball, Class 1911 (4)

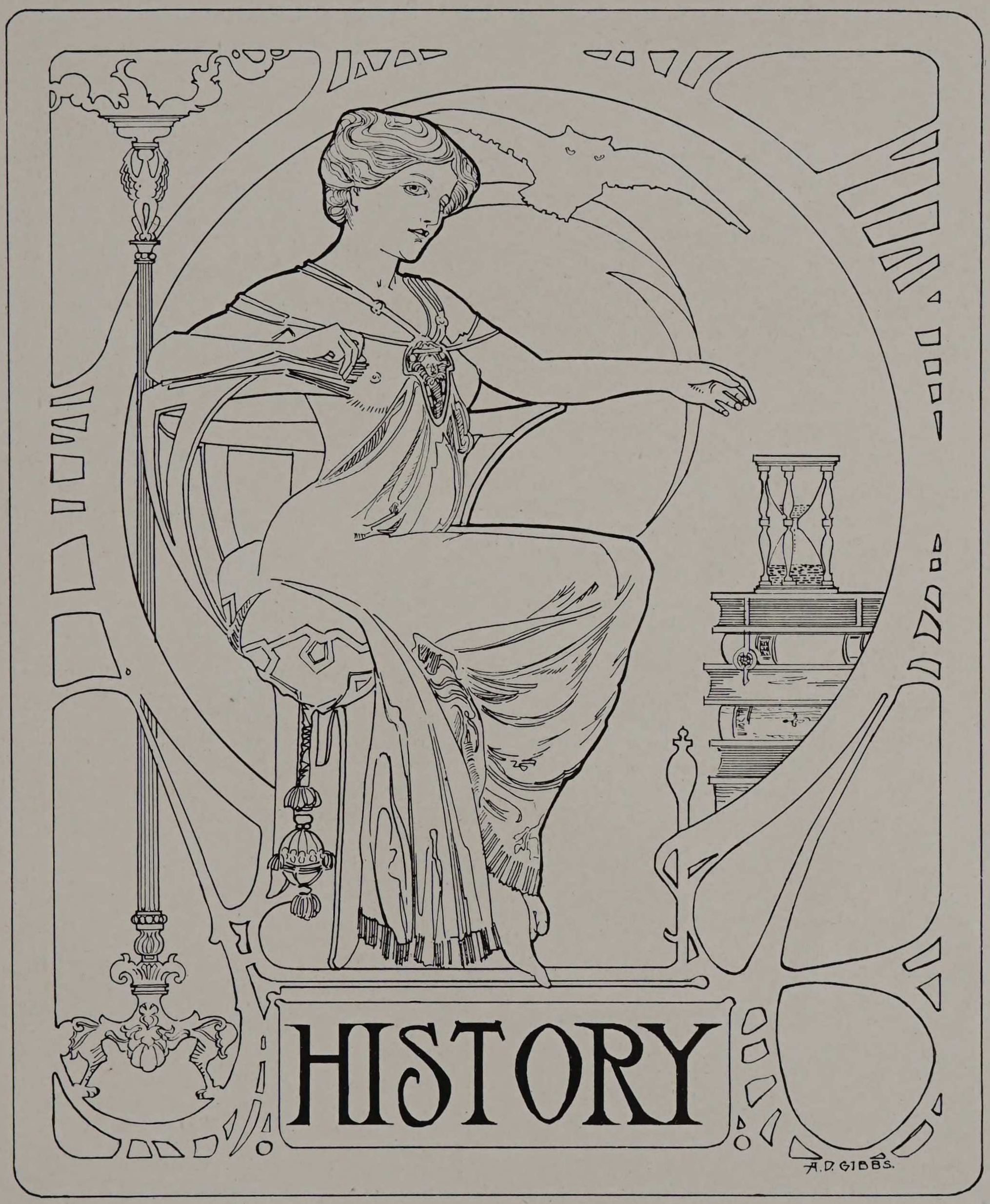
3rd Marshal Junior Week, Class 1911
Usher, Commencement 1911

"Fire!" We sometimes hear that shout, but just wait till the 1912 Fire Protection Class of the Armour Institute of Technology gets out and starts in to make such a cry a thing of the past. Most students are willing to be a member of a class, but not so with Snow, for, in his senior year in the electrical department, he saw a chance to pull off a brilliant "coup d'etat", and by switching his course, became the whole 1912 F. P. E. class. To predict success for a man who could conceive of such a scheme, is well-nigh superfluous.

The "class" was born in Austin on March 22, 1888; spent its early childhood in Waterbury, Connecticut; graduated from the Austin Grammar School in 1903; entered the Austin High School the same year, where, between visits to the principal's office, it took a prominent part in basketball, track and debating; graduated in 1907; and, the same year, entered the Tech as an Electrical. The class has had considerable practical experience, among the positions which it has held being that of switchboard and panel board designer for H. Newgard & Co., draughtsman for the Commonwealth Edison Co., and foreman of rail corrugation for the Chicago City Ry. Co.

In affairs at Armour, especially with the class of 1911, Snow has taken an active interest, but, above all the honors which have at various times been bestowed upon him, he values most highly his membership in the B. B. Club, into which organization he was initiated on a famous inspection trip to Milwaukee. We have predicted his success above and can but reiterate that he is a "wise head."


FIREFIGHTER
12
ZOOK


HISTORY
A.D. GIBBS.

The First Book of the Chronicles

CHAPTER VIII.

The advent, Peiser reigneth, the confounding of the enemies.

AND it came to pass in the year of our Lord 1908, that under the portals of the Tech entered many strange faces.

2. And not long had they been of the Tech, before many times came they together, even without the knowledge of the Fathers, and laid plans to wage a mighty war against the tribe known as the tribe of the Sophomores.

3. And on the night of September 14th the cohorts of the faithful smote the enemy hip and thigh, and all night the battle waged; even unto the morning.

4. But even from out of the night came the Assyrians, many were they in numbers, armed were they with clubs and stars, and they came in chariots of vast size; of a size even to encompass many of the Faithful.

5. Their coming was heralded by the clanging of cymbals, and they led into bondage three score and seventeen.

6. On the break of the next day there came unto the house of bondage one Samaritan, Foreman by name, and with shekels of gold and silver, he offered up ransom.

7. Then from out of the house of bondage, came the number three score and seventeen and departed thence even unto the Tech, and there were received by the masters who spake unto them words of wrath and indignation.

8. And even on the same day went the same three score and seventeen unto the house of the Assyrians, and the king of the Assyrians demanded from each and all five shekels of silver, as offerings, to release them from all bondage.

9. And it came to pass that, when the sun had risen in the heavens for nine times, one of the masters called them into assemblage and they listened to words of wisdom. Then from out their number they chose one, Peiser by name, to reign over them from thenceforth.

10. And to aid him there were chosen others, Mesny, Roller, and White from out of the tribe and these were to conduct all the business.

11. And White having departed ere long, Babcock was chosen in his stead.

12. And things had proceeded thus for some time, and strength returned to their knees and courage to their stomach, and they sallied forth to vie in feats of skill and strength with the other tribes of the Tech.

13. And the strong men of the tribe having proved their prowess in deeds of valor were marked with the number '12, that they might be known from among their brethren.



A REPRINT

14. And for four hours of every night they labored on themes, and clothed their thoughts in most difficult figures.

15. And to lift this heavy burden, and to go not forever on their weary way, they went forth adorned in finest raiment to the house of Lakeside.

16. Here they assembled in many numbers, even with the other tribes, to make merry amid the sounds of trumpets.

17. With the sons came many beautiful daughters and even unto the midnight they stayed and rejoiced.

18. And in the month of May it came to pass that the ordeal known to all the tribes as finals was put upon them.

19. And many were there who went without sleep that they might seek wisdom in the ways of Math and Chemistry.

20. And even as the ordeal came upon them so passed it away, and the faithful went apart to the homes of their fathers, where they were met, even as the prodigal son, with feasting and song.

CHAPTER IX.

The return, the reign of Drew, the burning of incense.

AND from the homes of our fathers the tribe of faithful returned, less in numbers, but stronger and wiser in the ways of men.

2. And many were there who combed their hair and wore their trousers after the fashions of the higher tribes, and not as the year before.

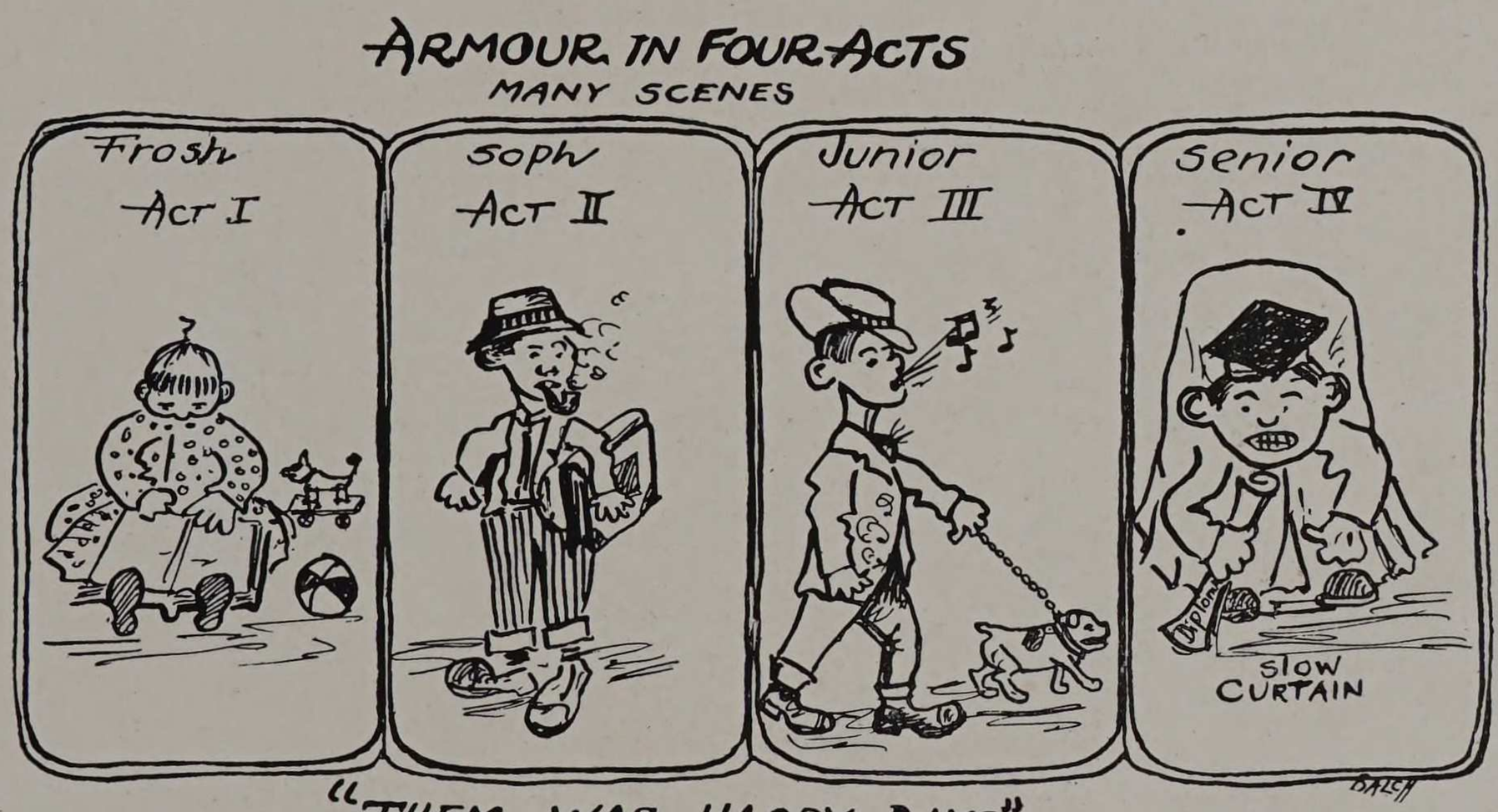
3. And they seemed pleased and sallied forth in the manner of those who had gained wisdom through years of knowledge, and even without the voice of the masters they assembled in the hall of science.

4. And being in full assemblage, there came from among them as their leader Drew, who behaved wisely in all ways and the tribe was with him.

5. And they said, behold, when Drew is not in our midst, Farrelly shall reign in his place.

6. And again they chose Roller, as before, to be the keeper of the sacred documents.

7. And they ordained Anderson as keeper of the moneys.



8. And in obedience to the orders of the powers, all remained peace and quiet, and none bared their swords against the tribe of freshmen.

9. And there came into their midst one from the tribe of seniors, who made supplication unto them that, as in former years, they offer burnt offerings unto the tribe of freshmen.

10. And they met with the rest of the multitude, and burnt much incense, and listened to words of wisdom, as written in no book.

11. And unto the tribe, came one with words of wisdom bearing witness to the value of loyalty.

12. And that these days should be remembered and kept, throughout every generation, every tribe that came unto the land of the Tech and that these days should not fail from among the tribe nor the memorial of them perish from their memory, so they confirmed that these days in their times, appointed should be written in the book.

13. And that these words of peace and truth be published unto all the tribes, they decreed for themselves that the copy of the writings be prepared by Roller, and in order that the moneys be forthcoming Dunn was chosen to aid him.

14. And even again when the month of June was come, went they of the civils into the land of the north, that they might become learned in the ways of the transit, the level and the mosquito.

15. And for forty and two days they remained in the land of wilderness.

16. And the balance of the tribe remained for full three months in peace and quiet, or labored among the sons of Anak for filthy lucre.

CHAPTER X.

The Integral faileth, Todtmann reigneth, feasting and festivities, the covenant.

AND even as they met for the third time, much weeping and lamentations was caused among them, for it had been ordained that the ways and transgressions of the tribe of 1912 should not be chronicled in the books of the Integral.

2. For there were those among the tribes which heeded not the voice of authority, which said unto them, walk ye in all the ways that I have commanded you, that it may be well unto you.

3. But they hearkened not, nor inclined their ear, but walked in the counsel and the imagination of their evil heart, and went backward and not forward.

4 And then Todtmann sat on the throne as king instead of Drew, and prospered, and all the tribe obeyed him.

5. And he spake unto them and said, when I am not among thee, be strong and of good courage, fear not nor be dismayed, for then Niemz shall be with thee.

6. And yet again for the third time Roller was chosen as scribe, and Claar held the keys of the treasury in place of Anderson.

7. And it came to pass at this time that there was much murmuring among the tribe for none knew what was the law.

8. And that all might know the law, Beerbaum, Rylander and Roller were set apart to write the law that it might be graven in the hearts of all the people.

9. And that the law might be a perfect thing, acceptable in the sight of all men, they labored for many days and many nights.

10. And the fruit of their toil was pleasing in

BASEBALL

ANDERSON
CLAAR
DREW
HOLDEN
KAHN
LINDBERG
NEUFELD
OEHNE
PEISER
ROLESON
SCHOMMER

BASKETBALL

ANDERSON
CHANDLER
CLAAR
DREW
GARRISON
HOLDEN
LINDBERG
MACK
MICHAEL
NEUFELD
PEISER

BOWLING

CLAAR
GARRISON
NEUFELD
OEHNE
PEISER

WEARERS OF THE '12





the sight of all the tribe and much glory was to them.

11. And that the years of the prosperity of the tribe might be celebrated in a manner fitting to the honor and dignity of the Tech, they ordained that the first week in May be set apart for feasting and rejoicing.

12. And that the celebration of the Junior Week might be glorious in the eyes of all men, Dunn, Dierking and Drew were entrusted with the preparations therefor.

13. But lo, when it was found that Drew had departed from out of the tribe, then even was Kimball chosen to serve in his stead.

14. And in order that the labors of these might not be such as to become a burden upon their shoulders there were five others from out of the tribe who assisted them in all their undertakings, namely, Lawrence, Todtman, Roller, Garrison and Niemz.

15. And they labored long and hard and even unto the masters they went for assistance, who dealt out to them one hundred shekels, that the celebration of the Junior Week might become goodly in the annals of the Tech.

16. And in order that there might be entertainment for all one day was set apart for the Junior Play and unto Dunn was given its fulfillment.

17. And a second day was set apart for feasting and for its fulfillment they chose Dierking.

18. And still a third day they set apart for dancing and making merry, and unto Kimball was its fulfillment given.

19. And there came from out of another tribe one well versed in the arts of the play and from his stores of wisdom, he wrote of the life of the tribe in one history called the Shrimpton Ray.

20. And many were there who came in answer to the call and from out this number were chosen these:

Professor Shrimpton, Professor of electricity, ... Mr Ronald Clark
Mr. Thomas Elison, a grind, . Mr. M. F. Lawrence
Miss Gertrude Jackson, a fair co-ed, ... Mr. Robert Drew
Miss Margaret King, Gertie's chum, ... Mr. George Anderson
Mr. Jack Wentworth, a Kappa Delta, ... Mr. Norman Kimball
Mr. Hal Wilson, the college sport, Mr. Ray Spindler
Mr. Burt Bartell, the college fusser, ... Mr. Rufus Claar
Miss Pauline Shrimpton, the professor's daughter, ... Mr. Milburn Moore
Mamie, maid at the Kappa Delta House, ... Mr. Seymour Anderson

21. And these labored many afternoons and many times the chief wrathed exceeding wroth but to no avail. And soon came the eventful night and many were there that gathered in the temple to witness these happenings.

22. And there was exceeding great heat and disturbance behind the curtain which separated the multitude from the chosen few, for many things were there that went not to the satisfaction of the chiefs but all unawares to the multitude.

23. And the hour grew late and the multitude became impatient and there stepped out from behind the curtain one Baukhage who addressed the multitude in soft and measured tones saying, "Bear with us yet for a little while for even unto us has come many trials and calamities for there came one who was wrong at heart and he stole from us the sacred chest of the leading lady, and even one who ordered us to cease lest we burn with fire the halls of the temple."

24. And there was exceeding joy in the hearts of the multitude for even as he ceased to speak the curtain arose even with an uncertain trend as though one Strale by name had forgotten the manner of the lifting.



"X(QQ) ME"

25. But all went well and much laughter was caused in the hearts of the multitude there present for fair maidens appeared with manly strides and with feet of seven cubits length.

26. And amid the sputtering of strange and mysterious rays the course of true love went not smoothly and righteously, but ere the curtain fell all was well and faithful Jack slew the enemy and took unto his bosom the fair damsel Pauline.

27. And on the following eve gathered the tribe within the portals of the Great Northern to feast upon the fat of the land.

28. And when they had eaten their fill there was much flow of wit and the following were offered up as sacrifice:

Toastmaster, H. G. Todtmann, Pres. Class 1912.
Responses:
Dr. F. W. Gunsaulus, President
Dean H. M. Raymond
Dean L. C. Monin

W. C. Dunn, First Marshal Junior Week
F. C. Dierking, Second Marshal Junior Week
N. F. Kimball, Third Marshal Junior Week
L. H. Roller, Editor-in-Chief Integral 1911
R. Neufeld, Basketball Captain 1911-1912
R. S. Claar, Baseball Manager 1910-1911
E. W. Turley, "A Gentleman Who"
E. P. Roleson, Remarks
H. E. Noren, Past Master of Wit and Wisdom

29. And besides these there were many who spoke from tainted minds and told tales which became them not, and even of the best of them came from the lips of one Ligare.

men of the tribe of 1911 met in manly combat the forces of the faculty. And those of the tribes who were chosen for this warfare were:

Faculty	Position
Leigh, McMullen	Catchers
Hurlbutt, Bond, McMullen	Pitchers
Leigh, Peebles	First Base
Libby	Second Base
Hurlbutt	Third Base
Bond, Coffeen, Peebles	Shortstops
Wilcox	Right Field
Smart	Center Field
Tibbals, MacCormack	Left Field



Seniors	Position
Schmidt	Catcher
Metz	Pitcher
Da Silva	First Base
Fenn	Second Base
Schultz	Third Base
Chan	Shortstop
James	Right Field
Bradford Mabbs	Center Field
Miller	Left Field

30. And even while the tribe was gathered around the festive board there came from without many yells and taunts from the tribe of 1914 and there were many among them who desired to wage war, but the councils of the wiser prevailed and they were subdued and conquered.

31. And even on the next night they rested that they might make merry at the dancing.

32. And they gathered on the Sabbath eve in the house of the Colonial Club and they brought with them many beautiful maidens arrayed even as the lilies of the field and they made merry with dancing even far into the night.

33. And on the Thursday of the week the strong

34. And the battle waged fiercely and many deeds of valor were performed and even unto the last inning the issue was in doubt.

Junior Week

MARSHALS

William C. Dunn . . .	*First Marshal*	The Junior Play
Fred C. Dierking . . .	*Second Marshal* . . .	The Banquet
Norman C. Kimball . .	*Third Marshal* . . .	The Dance

SUB-MARSHALS

Harry G. Todtmann — Meredith F. Lawrence
Louis H. Roller — Arthur M. Niemz
Carl W. Garrison

PROGRAM

Monday, May 1

Notre Dame vs. Armour at Ogden Field . . 3:30 p. m.

Tuesday, May 2

Monmouth vs. Armour at Ogden Field . . 3:30 p. m.

Wednesday, May 3

Junior Play at the Armour Mission . . . 8:15 p. m.

Thursday, May 4

Senior-Faculty Game at Ogden Field . . . 3:30 p. m.
Junior Banquet, Great Northern Hotel . . 7:00 p. m.

Saturday, May 6

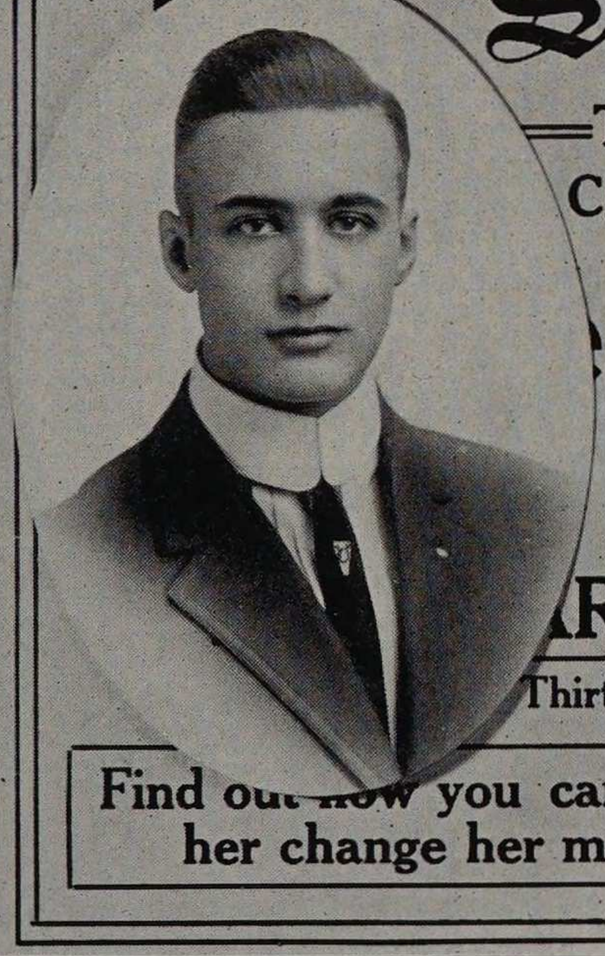
Beloit vs. Armour at Ogden Field . . . 3:30 p. m.
Junior Prom at Colonial Club . . . . 8:45 p. m.



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... 1911, 8:15 O'clock

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35. But finally the cohorts of the faculty triumphed over the tribe of 1911, for unto Smart came the sphere clouted by the festive James, whereas had the sphere fallen into the hands of Wilcox or Tibbals, a mighty change would have resulted.

36. But the sphere fell not to the ground and the day was saved.

37. And when the time came again for the tribe to depart unto its several habitations lest there be any question in the minds of any as to the gold of the treasury, Beerbaum, Collins and Roleson were chosen to count the moneys of the tribe and render an accounting of them.

38. And this being done, the tribe departed and there was peace and quiet in the house of the Tech.

CHAPTER XI.

Neufeld reigneth, the Class Book cometh, the exodus.

AND even for the fourth time returned the sons of the tribe of 1912 unto the house of the Tech, and for some was this the last returning, even for those who had labored hard and followed in the teachings of the masters, but for those who heeded not the words of wisdom, even unto them was it ordained that for another time should they gather with the tribe of 1913.

2. And as in former years they assembled in the hall of science to choose the one who should reign over them, even unto the last.

3. And on this occasion there was much murmuring among the tribe of the faithful and they became divided and some spoke the name of Turley and some spoke the name of Neufeld, and even those who came not to the assemblage allowed their names to be for Neufeld, and he was chosen to rule over the tribe until they should pass out into the world of experience.

4. And lest there come a time when Neufeld be far from the tribe, and the tribe lack a leader, Roleson was chosen to serve as aid to the king.

5. And yet again for the fourth time, it was deemed well that Roller should record the sayings of the tribe.

6. And that there might be much moneys in the coffers of the tribe, Dierking was chosen that all might bear their part, even those who had evaded the tax gatherer in years past.

7. And even as before in the older days it was ordained that the ways and transgressions of the tribe of 1912 be chronicled in the book called the Senior Class Book in order that all that came from thenceforth into the land of the Tech should remember the greatness of this tribe.

8. And that the memory of the tribe be properly confirmed and written, they entrusted its doing unto Evans and Roleson, and ordained that they should prepare the same and transcribe it upon fifty and one hundred pages of the finest parchment that all might read therefrom and be enlightened.

9. These same chose for their helpmates many others from out the tribe and all went well and righteously in the land of the Tech and many hours were spent in laboring upon the writings.

10. Then, lo, there came the question in the assemblage that each and every member of the tribe of 1912 should wear upon his breast a shield of gold that all might know he was of the tribe.

11. From out their number were chosen Geisler and Claar who after some days of traveling brought unto the tribe a gold shield to be worn even as a fraternity pin and each member of the tribe wore the same even unto the end.

12. For the fourth and last time the tribe went unto the house of the Colonial and made merry with dancing even unto the break of day.

13. But some who came were not of the tribe of 1912, and some of these made merry with dancing in a manner that was not becoming to the dignity of the tribe and was not seemly in the eyes of the masters, and even so it was ordained that from that day forth there shall be none of the dance known to man as the "bear cat" in the festivals of the tribes of the Tech.



LARGEST MAN IN THE CLASS.

14. And when six moons had waxed and waned there came unto the house of the Tech, even unto the hall known as the chapel, the great chief of all the chiefs, known to men as his excellency, William Howard Taft, President of the United States, to aid in the celebration of the anniversary of the founding of the Tech.

15. And he was welcomed with shouts and even more shouts until the very roof rang with the name of Taft.



Feb. 2.

16. But these shouts were not pleasing in the eyes of the great chief of all chiefs of the earth, for he spake against them, saying let there be more music in the air as these harsh tones seem not to me fitting.

17. And the chief prophecied unto the tribes gathered at his feet, saying there are those among you who shall be builders of the Panama Canal, and others among you who shall become rich in the eyes of men, and to these last he spake saying, when thy substance becometh even as a mountain of gold forget not those who helped to build, but aid them as has been here done, lest there be those that say of thee, thou art a malefactor of great wealth.

18. And having spake these words the chief departed to his chariot, and lo even as he went there came forth shouts.

19. And then came the time of much labor for each member of the tribe of 1912 had put upon his shoulders a burden known as thesis, and great was the worry and hard the travail in the land of the Tech.

20. But ere long all became quiet and peaceful and upon the ordained day, each of the tribe of 1912 had given unto him the mark of superiority called the diploma and they passed out into the world to find new conquests.

21. Here endeth the chronicles of the tribe of 1912.

Honor Men of the Class *of* 1912

SOPHOMORE

HARRY G. TODTMANN

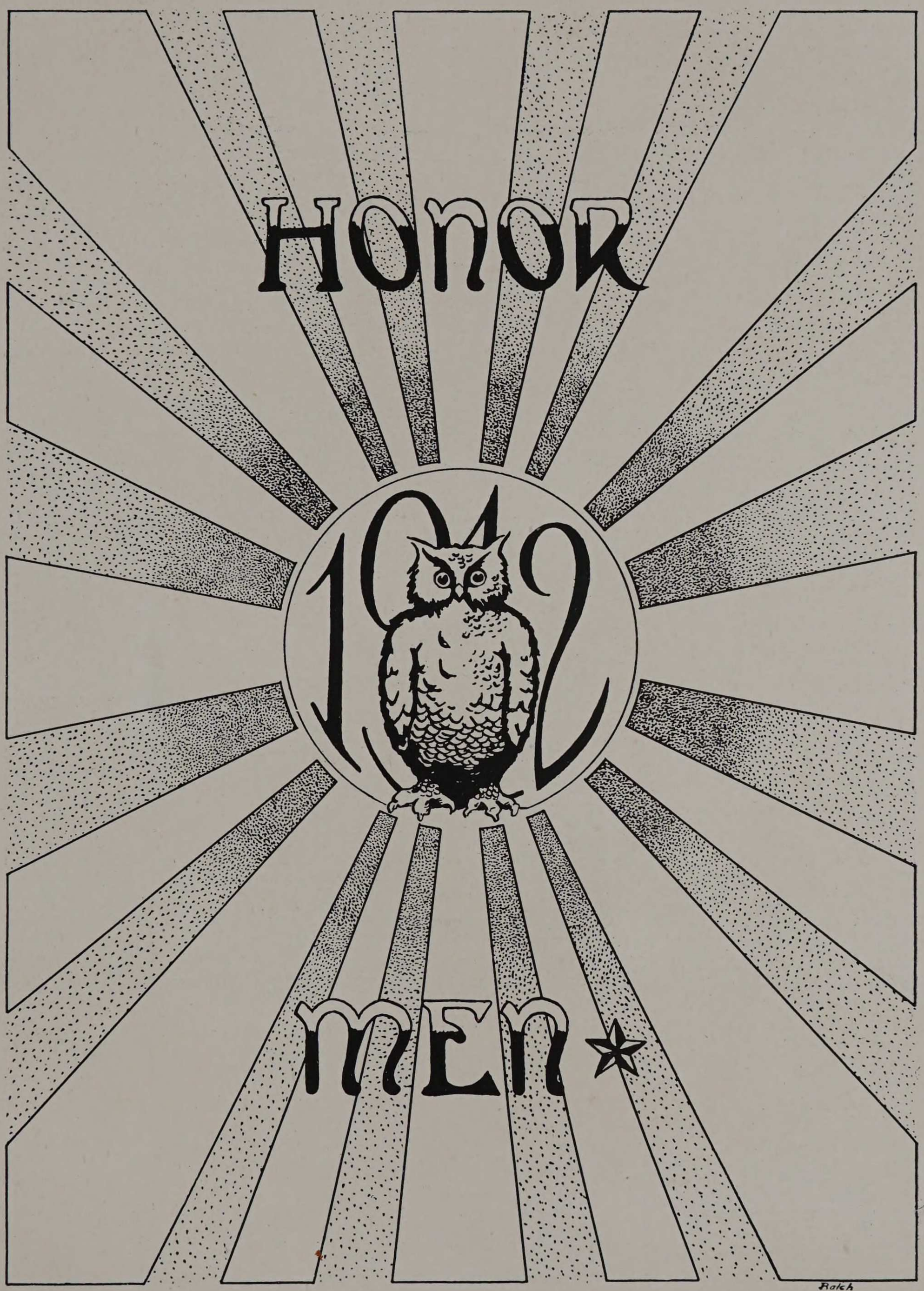
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CHARLES W. COLLINS
FRED C. DIERKING
PAUL L. KEACHIE
JOHN C. MICHAEL
RALPH NEUFELD
HARRY E. NOREN
LOUIS H. ROLLER

SENIORS

GRAHAM ARMSTRONG
RICHARD C. ARMSTRONG
HENRY C. DORMITZER
PERCY W. EVANS
FRANK A. GRAHAM
NORMAN F. KIMBALL
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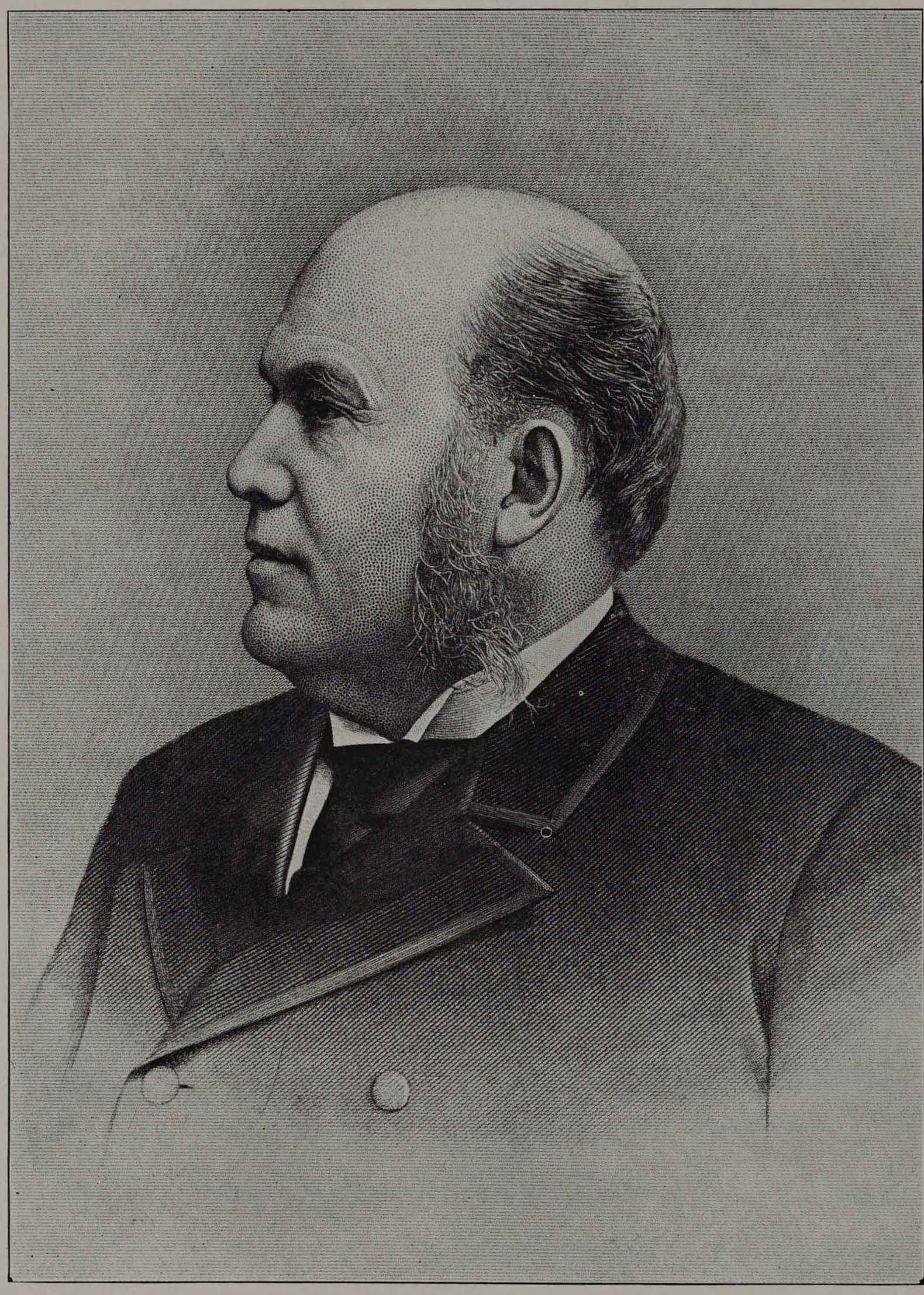
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BY

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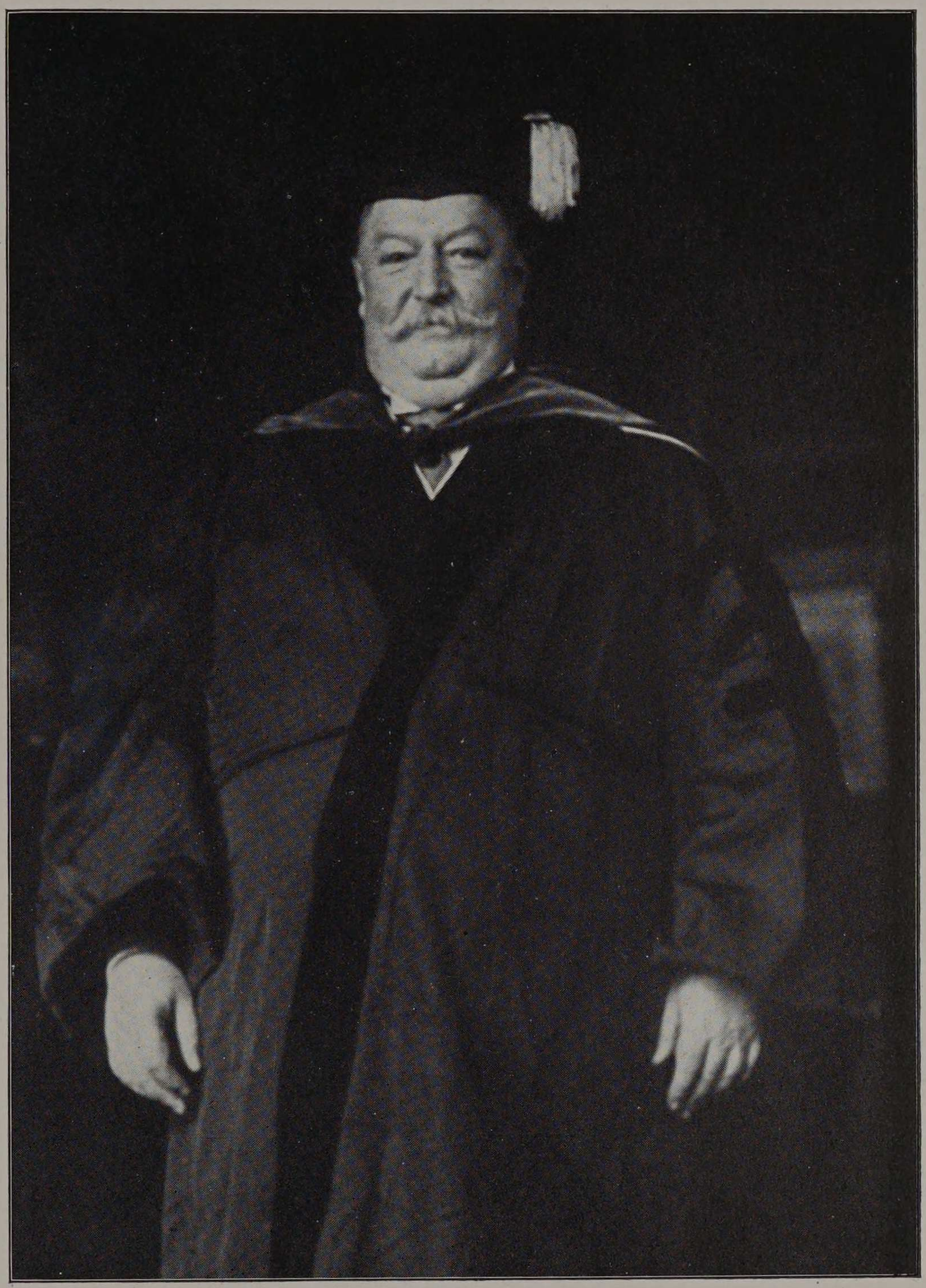
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Founder of Armour Institute

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I. H. Melnick, Chem. '50
Antanas Rimavicius, Arch. '56



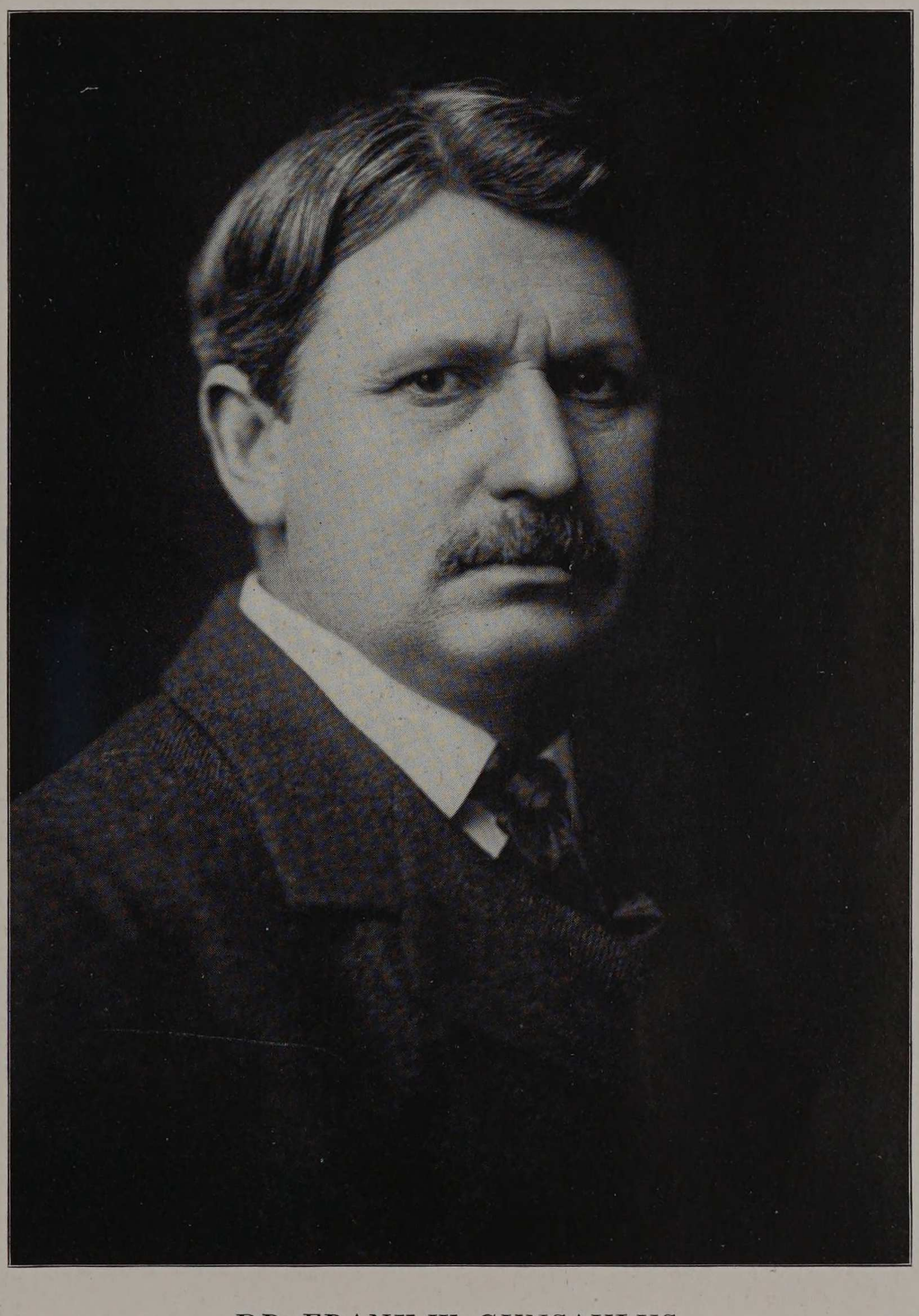
HIS EXCELLENCY, WILLIAM HOWARD TAFT

President of the United States



MR. J. OGDEN ARMOUR

Member Board of Trustees



DR. FRANK W. GUNSAULUS

President of Armour Institute

Addresses "Tech" Students

After the conference with Gov. Deenen and other republican leaders the president was driven in an automobile to the Armour institute, where a brief address was made on the duties of the students in civic life and the necessity for study of the highest principles of political economy, and the duties of citizenship.

In his address before the students President Taft said in part:

"I have no doubt that I am looking into the faces of a number of constructors of the Panama canal, or of some who shall discover the secrets that will expand our manufacturing business and other interests in directions now not dreamed of, all based upon the principles of application, investigation and adherence to truth that you are learning here in your studies under this roof and under these auspices.

"The institution itself teaches a lesson—the lesson that when you become millionaires (as many of you may), you shall feel among your accumulations a responsibility to the country and the people to return to them, where possible, evidence of your desire to help them along, along the hard road of life as far as God has given you the opportunity."—Journal.

Another new aspect of Mr. Taft was at the Armour Institute of Technology, 3300 Armour avenue, where he spoke at founders' day exercises. Here Mr. Taft was invested with the flowing robes and mortar board cap of a doctor of laws by Frank W. Gunsaulus, president of the institute.

Talks to Armour Students.

After an introduction by Dr. Gunsaulus the president at once displayed again his new aggressiveness by lecturing the youths on the savagery of the college rooting, which he called "cacophony that was unnecessary to convey a soft gentle feeling of good will."—Tribune.

Greeted By Yells.

The President's entrance to the auditorium of Armour Institute was the signal for an outburst of cheers. Short, sharp, long, loud, medium and every variety of yell known to the college lung, rang forth in welcome to President Taft. The presidential soul, however, was not in harmony with such expressions of enthusiasm, as nearly the first advice the President gave to the students was that they find another method of welcome.—Record-Herald.



College Yell Greeting at Armour.

A typical college yell was the greeting of the student body of Armour Institute of Technology to President Taft, as, attired in academic robes, he ascended the steps of the chapel platform today, where the members of the faculty awaited him. This opening yell of welcome was in deference to the chief executive's alma mater, and it was promptly followed by an equally enthusiastic staccato rhapsody for Taft himself, winding up with "Hoorah—Hoorah! Taft—Taft—Rah!"

Then came the regulation Armour yell, and throughout the noisy performance the President smiled faintly, but not encouragingly. The thought that was in his mind was made apparent when he responded to the eulogistic introduction of Rev. Frank W. Gunsaulus, who incidentally pronounced against the recall of judges.

The President's lack of sympathy with the "rah-rah" phase of student life was expressed in fatherly tones and with a smiling countenance, but, nevertheless, he earnestly voiced the hope that within another decade some other means than "cacophony" would be evolved to demonstrate student enthusiasm.

Fail to Heed the Hint.

The students applauded as recklessly as though they had received a compliment, and at the conclusion of the visit were massed in the street and as the President was escorted to the waiting automobile broke into a few more chapters of the same sort of literature of which he had disapproved, and this served to produce the real broad Taft smile.—Post.

Then the automobile procession started for Armour institute, where a throng of students cheered the president excitedly. During the course of his talk to them President Taft chided the young fellows gently for their noisy welcome. He was introduced by President Gunsaulus of the Institute.

Dr. Gunsaulus called the president "one of the greatest engineers on the line of human progress" during his introductory remarks.—American.



THE DEPARTURE

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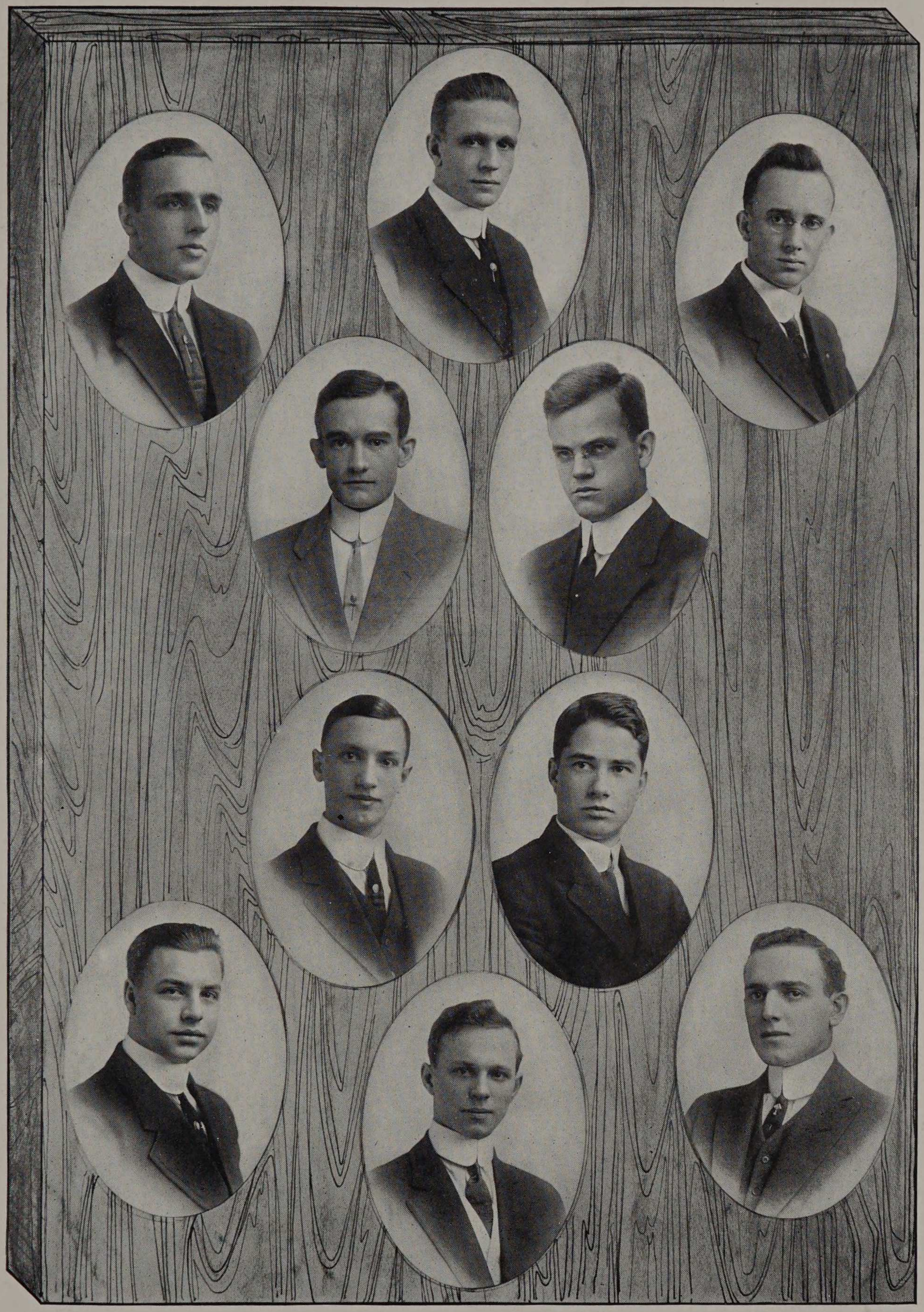
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EDITORIAL



To the "Tribe of 1912" and all Armourites, both faculty and students, we extend greetings.

In presenting the Senior Class Book of 1912, the Publishing Board wishes to say that, on account of the generous and enthusiastic co-operation of members of the class and others, the labor that has been expended in preparing these pages, has been an enjoyable one. Whether the book has merited this support, is for the class to judge. But, be our lot censure or praise, we feel that our best effort has been put forth. In all cases, we have tried to make the "write-ups" fair and just without exaggeration or depreciation, never knowingly allowing any personal prejudice in favor of or against a man to creep in.

That a Senior Class Book has a place at Armour, our work on this volume has convinced us. And, irrespective of the degree of success that may be ascribed to the book, we feel that the class will never regret its vote which kept alive this newly established Armour custom, for some years hence, when, as seems always to be the case, our college days loom up as the happiest we have spent, maybe we will dust off these covers and spend an evening with our Senior Class Book, possibly noting with pride the interest taken by other members of the family in a particular page.

Thus, although the class of 1912 may shortly be scattered to the four corners of the world, our class book will serve to annihilate distance and bring us back once more to these days of "toiling, rejoicing, sorrowing" spent at our Alma Mater.

We are greatly indebted to several Armour students for the excellent art work that their genius has enabled them to produce and which has added so much to the book. These men whom we wish to thank, are: H. C. Balch, A. D. Gibbs, H. H. Maddox and R. H. Zook.

Perhaps few of the faculty and students of the Armour Institute of Technology, with, of course, the exception of those in the chemical department, realize the standing of Armour in the new field of chemical engineering. The present equipment of the industrial laboratory is without an equal in the United States. This fact is marvelled at by every chemical engineer who visits the Institute. One gentleman, a well-known graduate of Columbia University, said to the professor who was showing him the equipment, "The completeness and up-to-dateness of the apparatus is wonderful, but more wonderful yet is how to manage to get it all in your laboratory."

The field for the chemical engineer is broadening constantly and with their employment there is coming a new era in manufacturing. Many plants are learning that a chemical engineer is a good investment; for the saving effected by him on even so

small a matter as the purchasing of supplies will more than pay his salary. And in many cases the saving made, by his utilization of the by-products, has converted a money-losing plant into a flourishing one. In view of these facts we venture the assertion that in ten years this branch of engineering, at present in its infancy, will have developed until its size is commensurate with that of the older branches.

GENTLEMEN:

This is my last opportunity to talk to you as members of the Class of 1912. Your four-year college course has come to a close. You entered, a delightful raw material, to be fashioned into the finished product of the scholar and the gentleman. You survived the vicissitudes, the quizzes, tests, and examinations, and even the lectures in economics, logic, and psychology, and have reached Commencement Day in the full possession of your physical and mental vigor. I congratulate you upon this accomplishment.

I also thank you for the perseverance, the patience, and the good will with which you have traveled from class to class, from lecture-room to shop, laboratory, and drawing-room. I commend you for the victory you have won by the steady application to your work. May you look back in the future upon this period of your life as one of growth and achievement, and in going from college honors to success in life may you say with Matthew Arnold:

"For rigorous masters seized my youth,
And purged its faith, and trimmed its fire;
Showed me the high, white star of truth,
There bade me gaze, and there aspire."

What awaits you now is responsibility, care, and, perhaps, trouble and pain. Meet them bravely and do not shirk. You remember the proverb we once discussed, "The game is always at the end of the trail." Strike out courageously, and if you should find no trail, blaze one. Should your road be dusty, hot, and rough, do not forget that there must be game at the end of it, and the game you will find will be success and happiness, and love too, and the satisfaction of a life well spent. *Hope and trust.*

If ever you are in doubt as to your duty, think of Goethe's remark, "Our duties are the demands made upon us by each day." Show yourselves proof against self-deception. This is the best quality which a college education can give any man. With your keen sense of facts, with your fearlessness of youth, your gifts of clear comprehension, I hope you will be men plastic, unwearied, merciful, and temperate. Adopt the morals of the freeman, who feels that he is expected to keep the laws which he himself has been helping to make.

Thus, I say Godspeed, and if in the fierce competitive strife of your professional work you find an hour here and there for quiet introspective thought, think kindly of your former associates and teachers. Your instructors and fellow-students have enjoyed your company. Your Alma Mater is proud to let you go into the world as her representatives, and the thoughts of your old professor will accompany you with his very best wishes for your continued welfare.

L. C. MONIN.

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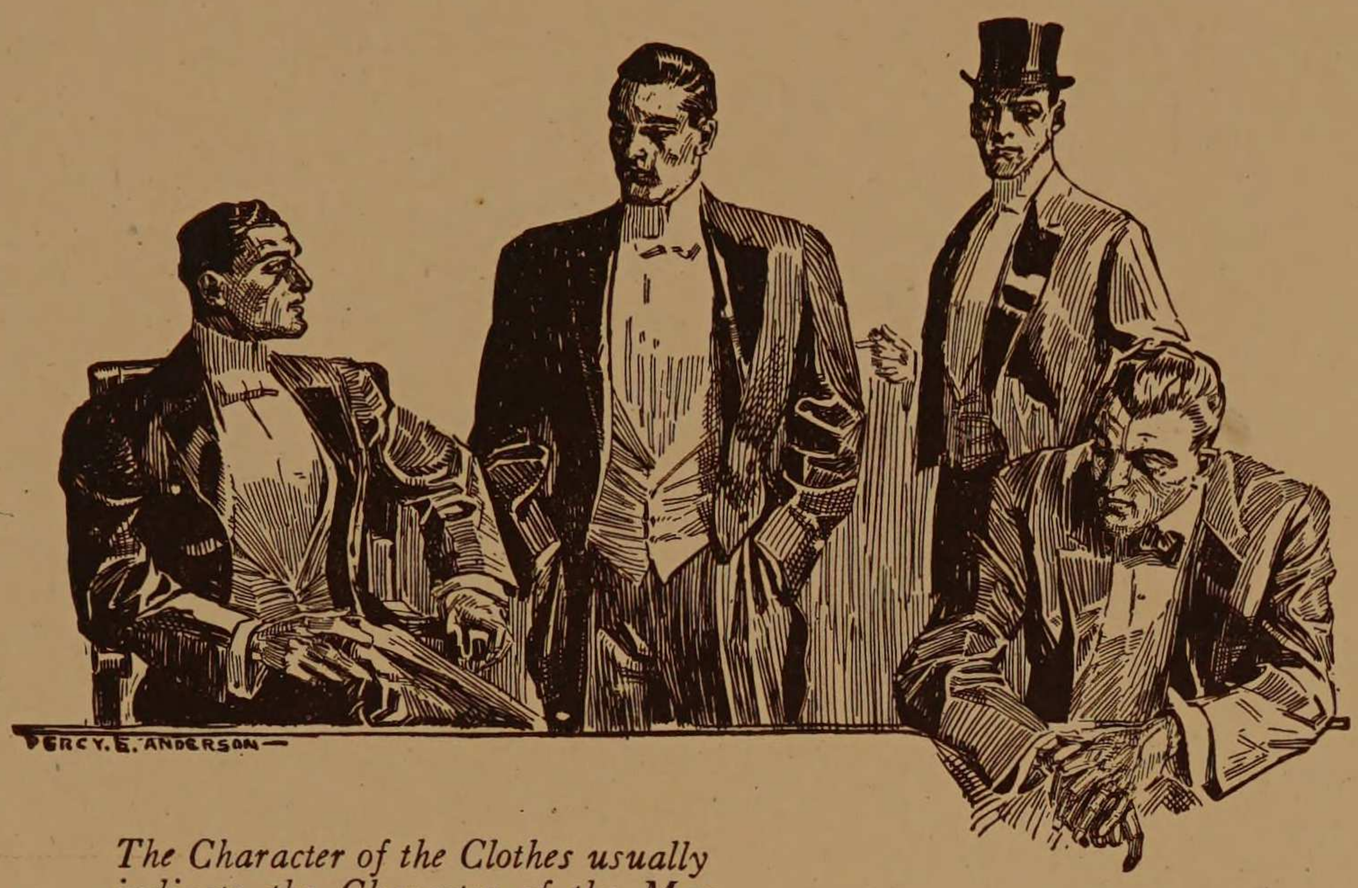
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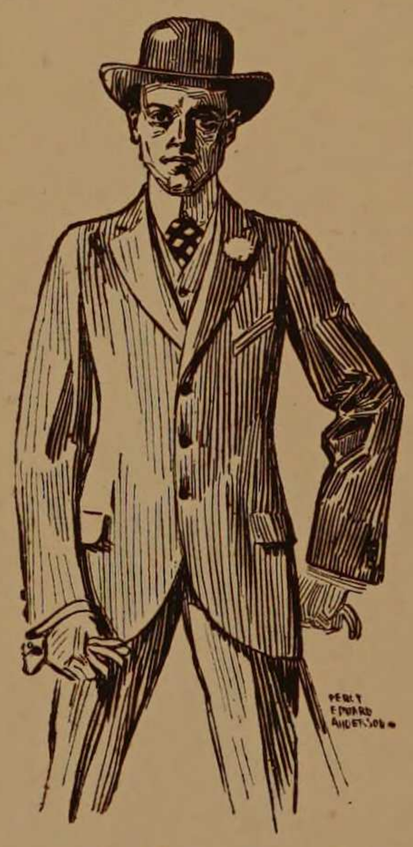
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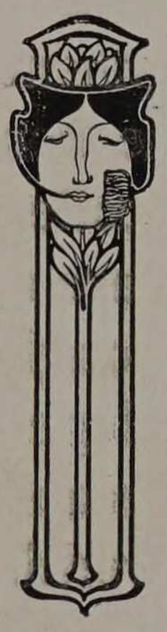
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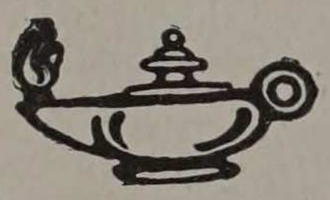
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