Integral
1903.

This is given in memory
of my late father, Oscar A.
Rockett from former graduate and
Professor, teacher and Head of the
Printing Dept. at the Perkins Institution
for the Blind by his daughters Ida and
Mary Rockett - Collins
The Integral
(Miss Mary Rockett)

The Book of the

Class of 04



1903

$\int$ INTEGRAL

1901

The INTEGRAL



Published
Annually
by the
Junior Class
Armour
Institute
of Technology

Volume Five

Dedication

To our President, the man
within whose mighty brain this
Institute was born, this book is

RESPECTFULLY
DEDICATED

"Do you believe in the views you expressed?" (In sermon.)

"And you would carry them out if you had the means?"

"Well, then, give me five years of your time and I will give you the money."

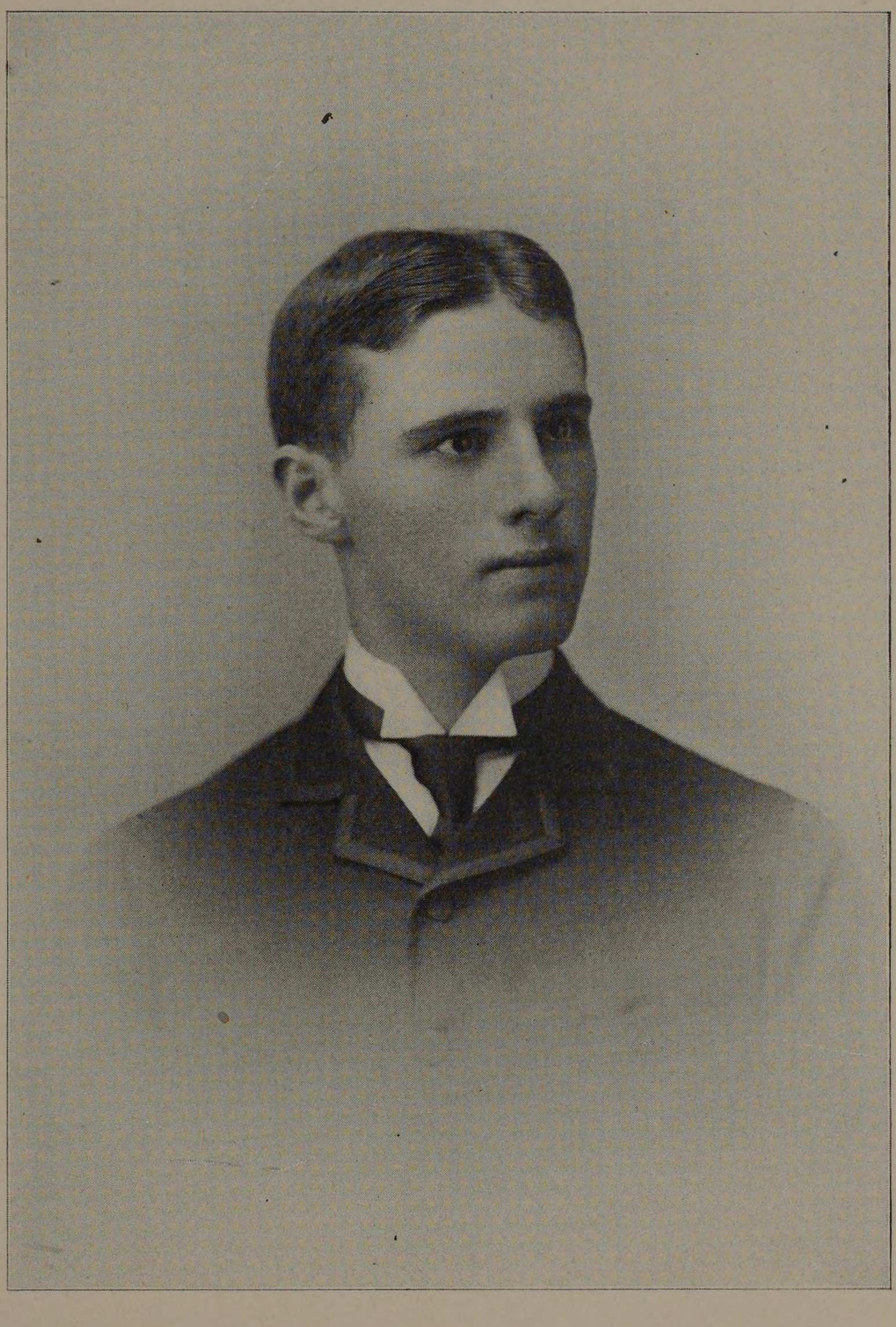
—*P. D. Armour.*



Dear to Our
Memory



Great brain to plan and bring to be
The bold achievements of thy hand,
But greater heart whose faith could see
A world more fair and nobly manned.



Here youth's full splendor shines again,
And o'er a grave the bow is fair.
The arch is fairest where the rain
Of tears hath fallen in spring's warm air.



Child of the Light, whose daytime bides
O'er quiet streams and whelming tides,
Thou walkest in the Light divine,
Where sage and saint for friends are thine.



For the Class of 1904 we present this book to
our friends in and out of school.

Acknowledgements



Acknowledgements

We wish to thank the following artists for the help they have given us in the preparation of this book:

H. R. Badger.
F. C. Bassen.
E. G. Deming.
Robert S. Draper,
F. A. Emmons.
N. P. Hall.
C. Herrick Hammond.
L. J. Herndon.
Ethel Louise Indermille.
M. M. Levings.
L. P. Salinger.
R. F. Seymour.
Fred Stearns.
Clarence Vredenburg.

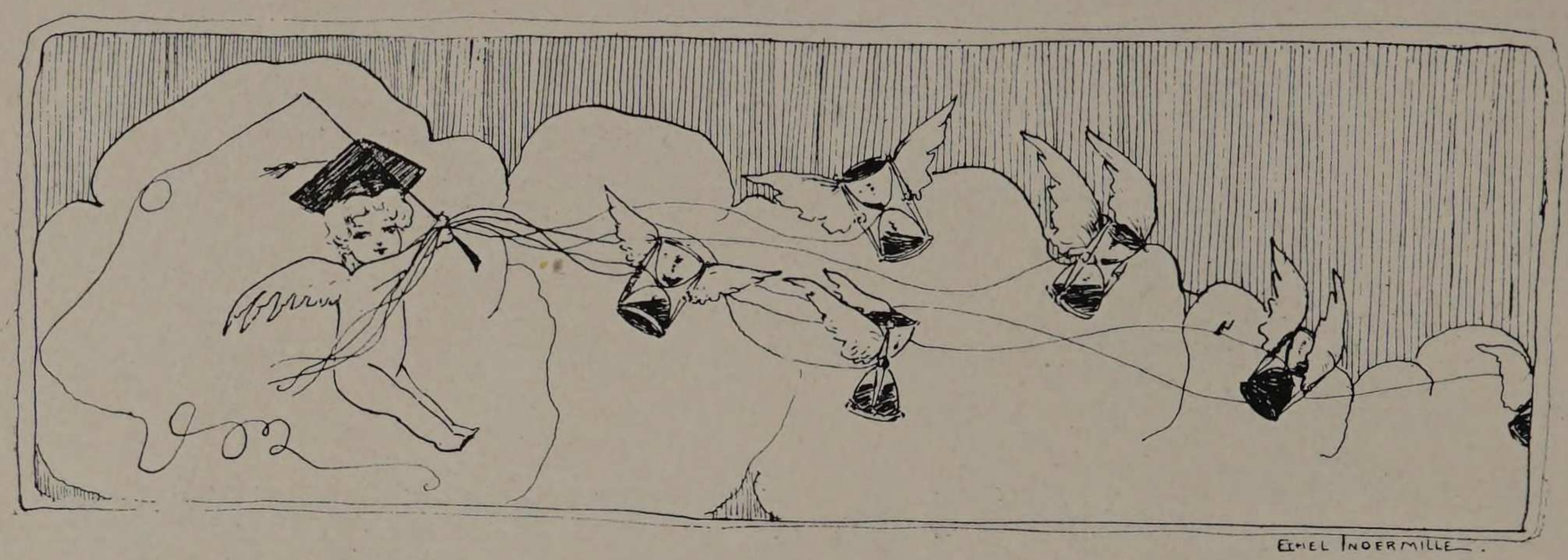
Our thanks are also due to all alumni, students, and organizations who have lent us their support, and to the following men who have assisted us in many ways:

Dr. Gunsaulus.
J. O. Armour.
F. U. Smith.
Dean Alderson.
Prof. Monin.
Prof. McClement.
T. W. Stevens.
L. F. Wonnser.



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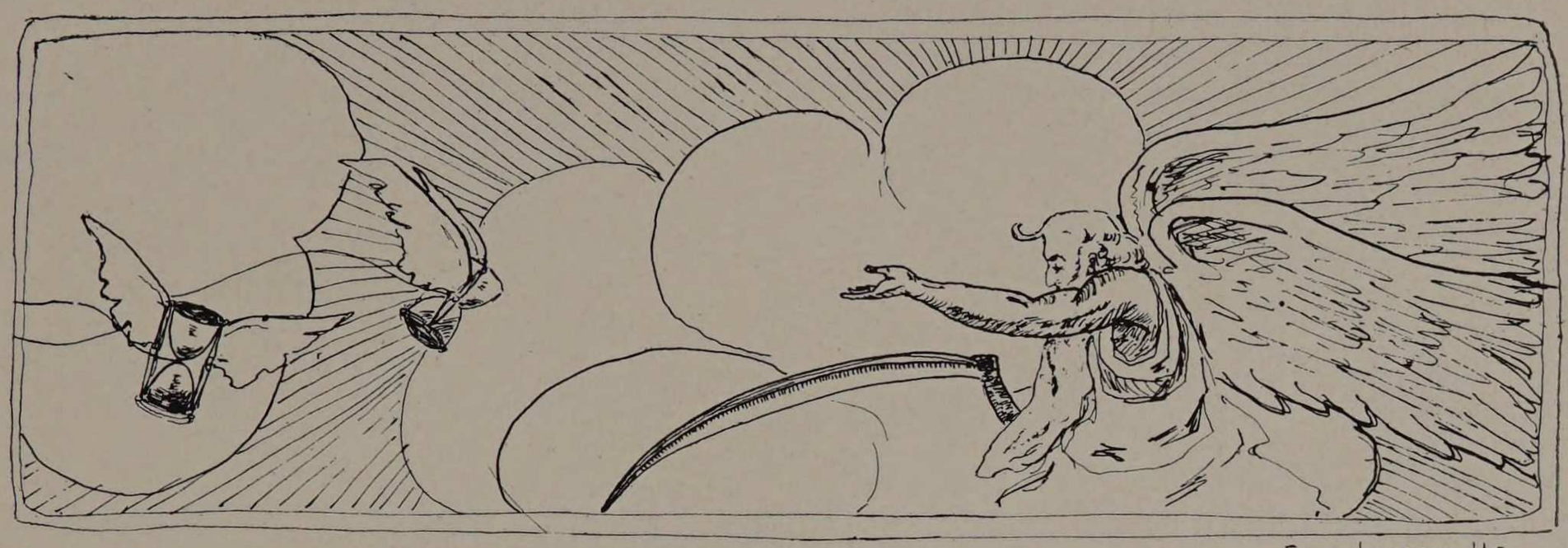
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Calendar 1901-1902



1901		
Sept. 12–13.	Thursday and Friday	September Entrance Examinations.
Sept. 18.	Wednesday - -	Registration of Students.
Sept. 19.	Thursday - -	College Year Begins.
Nov. 28–29.	Thursday and Friday	Thanksgiving Holidays.
Dec. 16–18.	Monday–Wednesday	Autumn Term Examinations.
Dec. 18	Wednesday - -	Autumn Term Ends.
1902		
Jan. 1.	Wednesday - -	Registration of Students.
Jan. 2.	Thursday - -	Winter Term Begins.
Feb. 22.	Saturday - -	Washington's Birthday.
March 24–26.	Monday–Wednesday	Winter Term Examinations
March 26	Wednesday - -	Winter Term Ends.
April 2.	Wednesday - -	Registration of Students
April 3.	Thursday - -	Spring Term Begins.
May 30.	Friday - -	Memorial Day; a holiday.
June 12–13.	Thursday and Friday	Spring Term Examinations.
June 16–18.	Monday–Wednesday	Commencement Exercises.
June 23–14.	Monday and Tuesday	June Entrance Examinations.
Sept. 11–12.	Thursday and Friday	September Entrance Examinations.
Sept. 17.	Wednesday - -	Registration of Students.
Sept. 18-	Thursday - -	Autumn Term Begins.

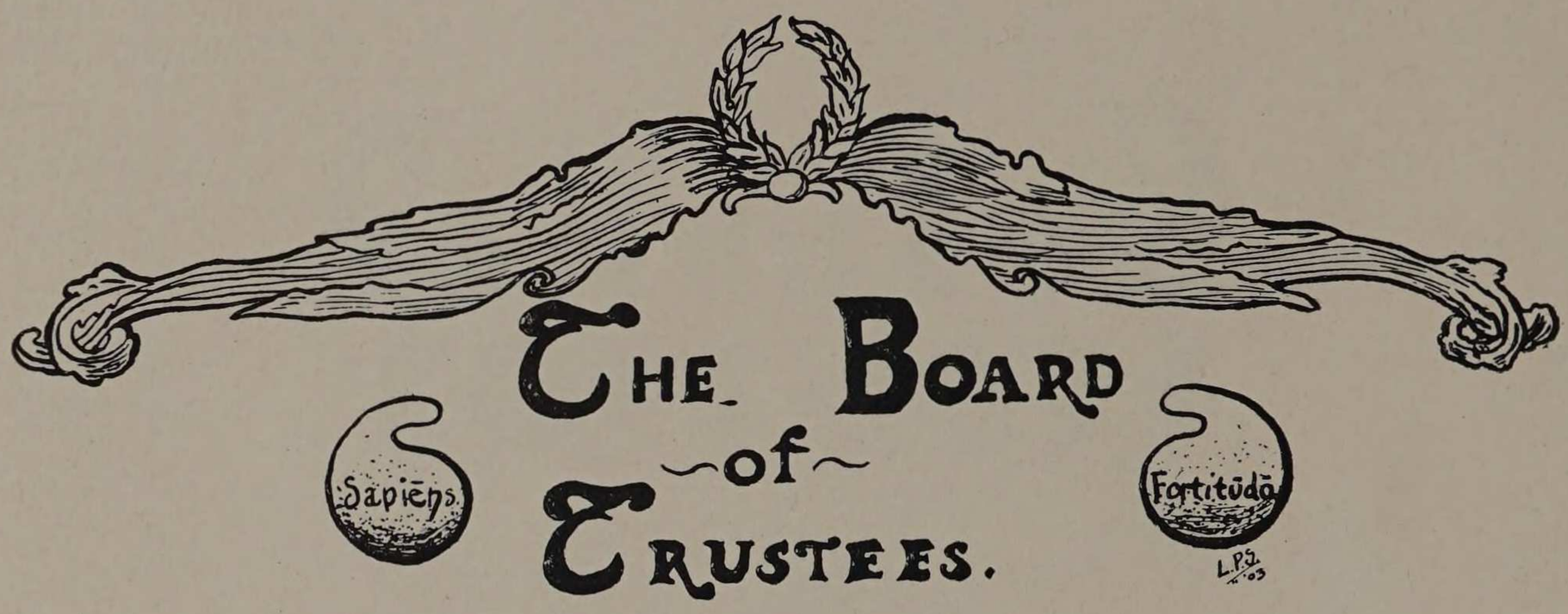


EIHEL INDERMILLE

Calendar 1902-1903



1902		
June 23–24.	Monday and Tuesday	June Entrance Examinations.
Sept. 11–12.	Thursday and Friday	September Entrance Examinations.
Sept. 22.	Monday - -	REGISTRATION OF STUDENTS.
Sept. 23.	Tuesday - -	COLLEGE YEAR BEGINS.
Nov. 27–28.	Thursday and Friday	Thanksgiving Holidays.
Dec. 18–19.	Thursday and Friday	Autumn Term Examinations.
Dec. 19	Friday - -	AUTUMN TERM ENDS.
1903		
Jan. 5.	Monday - -	REGISTRATION OF STUDENTS.
Jan. 6.	Tuesday - -	WINTER TERM BEGINS.
Feb. 22.	Sunday - -	Washington's Birthday.
March 26–27	Thursday and Friday	Winter Term Examinations.
March 27	Friday - -	WINTER TERM ENDS.
April 6	Monday - -	REGISTRATION OF STUDENTS.
April 7	Tuesday - -	SPRING TERM BEGINS.
May 30	Saturday - -	Memorial Day.
June 18–19	Thursday and Friday	COMMENCEMENT EXERCISES.
June 19	Friday - -	COLLEGE YEAR ENDS.
June 22–23	Monday and Tuesday	June Entrance Examination.
Sept. 10–11	Thursday and Friday	September Entrance Examination.
Sept. 21	Monday - -	REGISTRATION OF STUDENTS.
Sept. 22	Tuesday - -	COLLEGE YEAR BEGINS.



J. Ogden Armour

Mrs. J. Ogden Armour

John C. Black

Mrs Philip D. Armour

Mrs. P. A. Valentine

Frank W. Gunsaulus

Simeon B. Chapin



Officers of Administration.

L.P. Salinger -1903

The President
Frank Wakeley Gunsaulus

The Dean of the Technical College
Victor Clifton Alderson

The Principal of Armour Scientific Academy
Howard Monroe Raymond

The Secretary and Business Manager
Frederick U. Smith

The Registrar
George F. Dietz

The Librarian
Mrs. Julia Beveridge.

The Executive Committee of the Faculty

1902-1903

The Executive Committee of the Faculty, consisting of the President and the Dean of the Technical College, *ex officiis*, and the following officers:

The Professor of Economics and Philosophy
Louis Celestin Monin

The Professor of Physics
Guy Maurice Wilcox

The Professor of Electrical Engineering
Clarence E. Freeman

The Professor of Chemical Engineering
William T. McClement

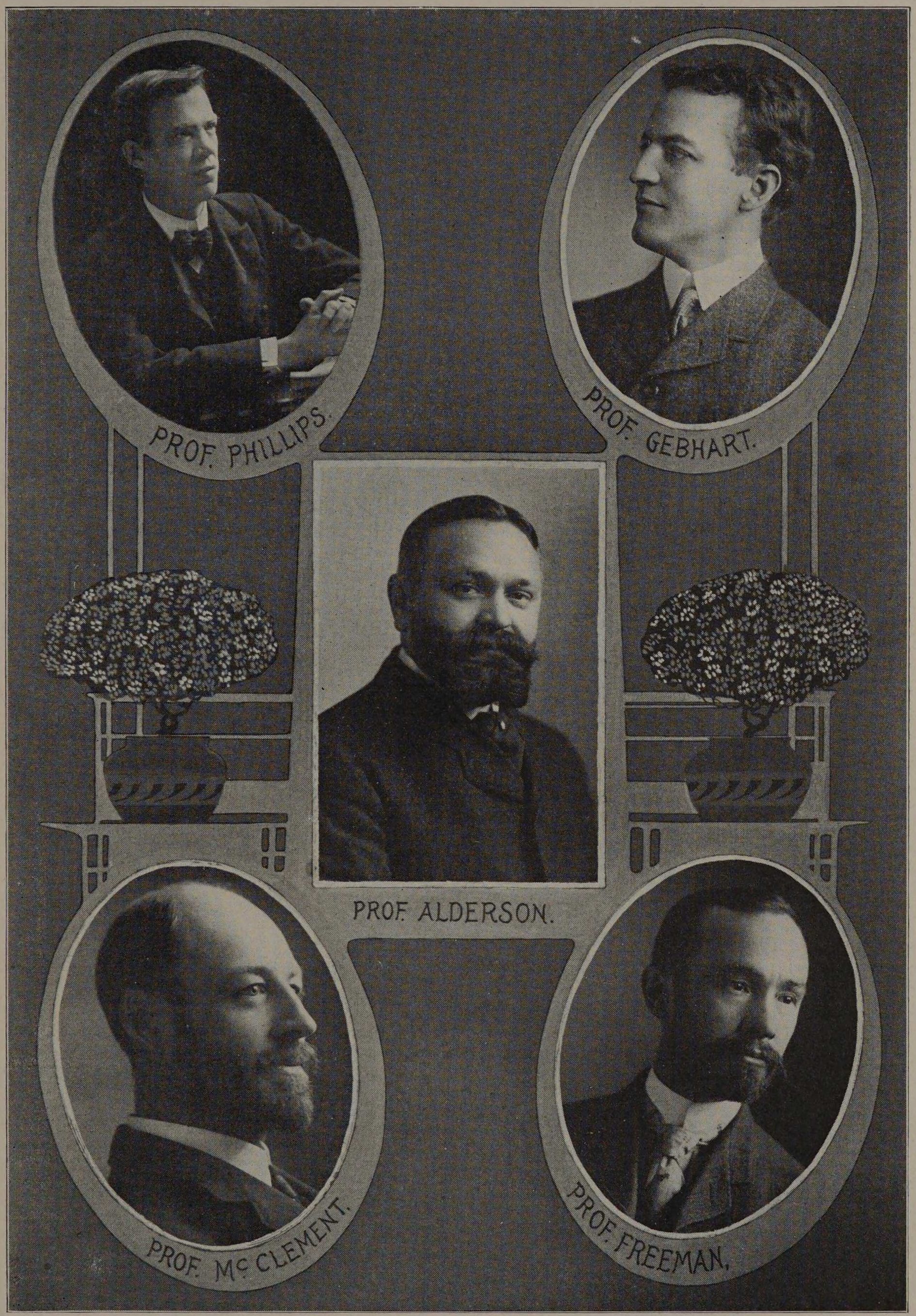
The Professor of Civil Engineering
Alfred E. Phillips

The Professor of English
Fred Monroe Tisdel

The Principal of the Scientific Academy
Howard Monroe Raymond

The Associate Professor of Mathematics
Donald Francis Campbell

The Professor of Mechanical Engineering
George Frederick Gebhardt


PROF. PHILLIPS.
PROF. GEBHART.
PROF. ALDERSON.
PROF. Mc CLEMENT.
PROF. FREEMAN.

The Executive Committee of the Faculty

1901-1902

The Executive Committee of the Faculty, consisting of the President and the Dean of the Technical College, *ex officiis*, and the following officers:

The Professor of Mathematics
Victor Clifton Anderson

The Professor of Economics and Philosophy
Louis Celestin Monin

The Professor of Architecture and Design
Louis J. Millet

The Professor of Physics
Albert B. Porter

The Professor of Mechanical Engineering
Charles Volney Kerr

The Professor of Electrical Engineering
Irwin John Macomber

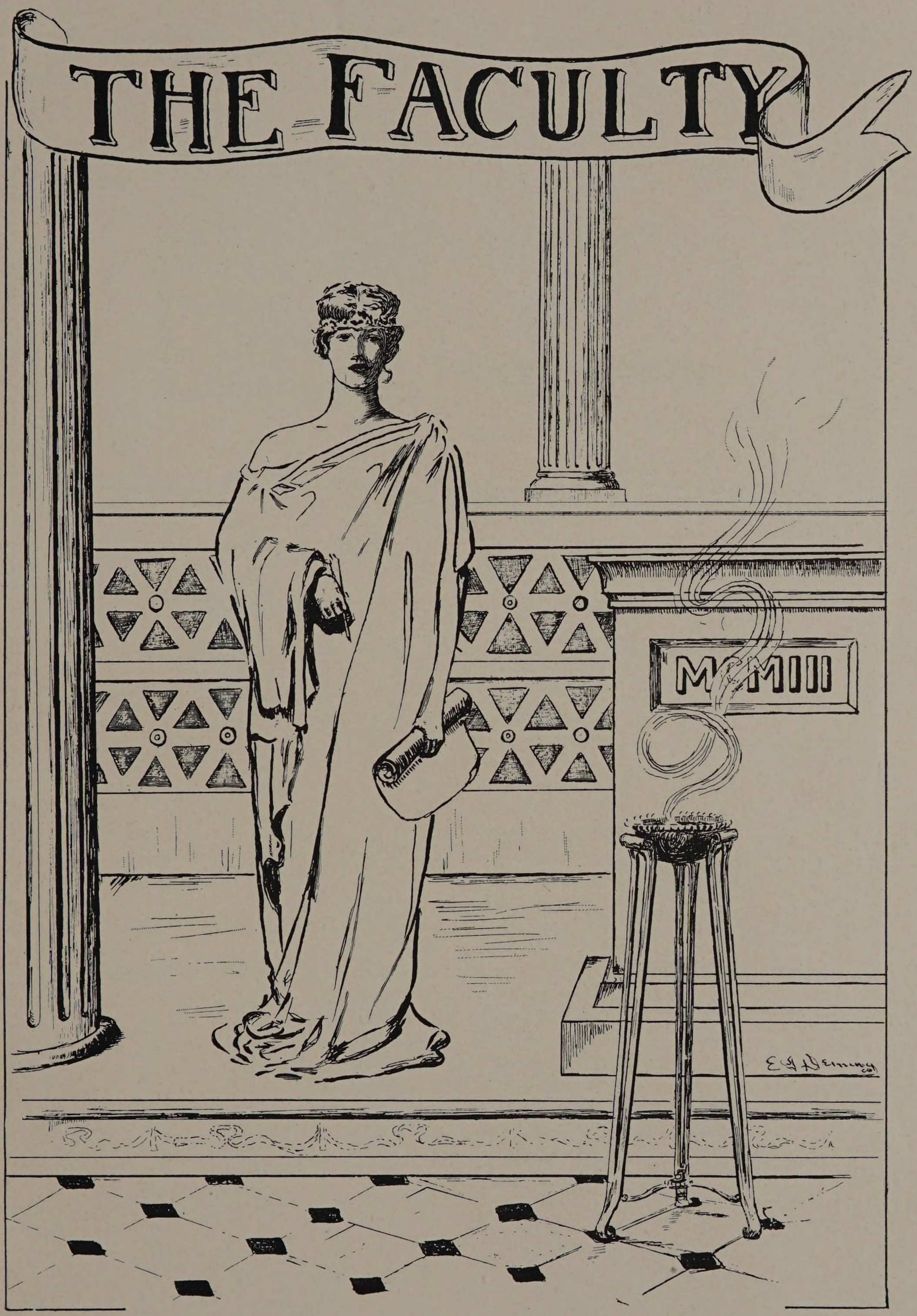
The Professor of Chemical Engineering
William T. McClement

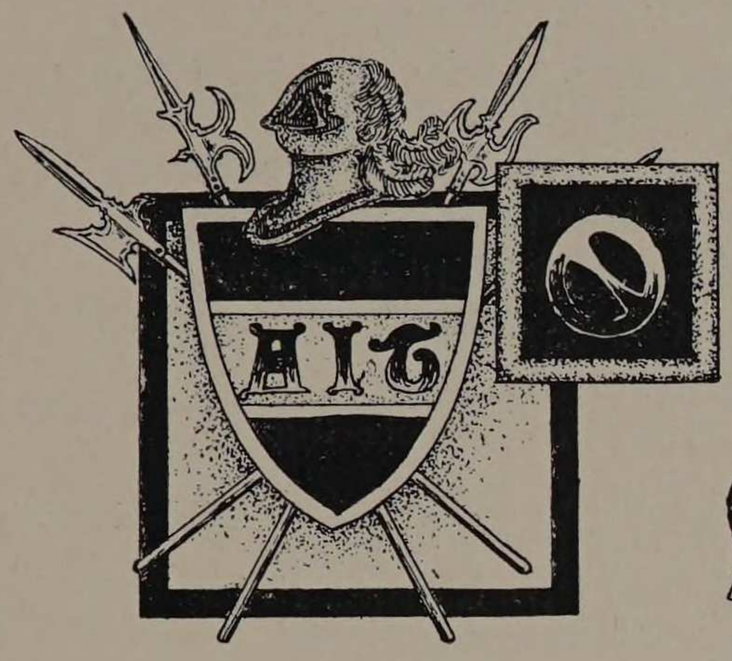
The Professor of Civil Engineering
Alfred E. Phillips

The Professor of English
Fred Monroe Tisdel

The Principal of the Scientific Academy
Howard Monroe Raymond


PROF. RAYMOND.
PROF. WILCOX.
PROF. TISDELL.
PROF. MONIN.
PROF. OLDSHUSEN.
PROF. CAMPBELL.


THE FACULTY



Officers of Instruction.

The Technical College

Frank Wakeley Gunsaulus, D.D., Beta Theta Pi
President

Victor Clifton Alderson, A.M., Delta Psi, Phi Beta Kappa
Dean of the Technical College and Professor of Mathematics

Louis C. Monin, Ph.D., Zofingia
Professor of Economics and Philosophy

Guy Maurice Wilcox, M.A.
Professor of Physics

Clarence E. Freeman, M.S., E.E.
Professor of Electrical Engineering

William T. McClement, A.M.
Professor of Chemical Engineering

Alfred E. Phillips, C.E., Ph. D., Phi Delta Theta, Sigma Xi
Professor of Civil Engineering

Fred Monroe Tisdel, Ph.D., Beta Theta Pi, Phi Beta Kappa
Professor of English

George Frederick Gebhardt. M.E., M.A., Phi Delta Theta
Professor of Mechanical Engineering

Walter F. Shattuck, B. S.
Associate Professor of Architecture

Donald Francis Campbell, Ph. D.
Associate Professor of Mathematics

Howard Monroe Raymond, B.S., Phi Delta Theta
Principal of the Scientific Academy, and Associate Professor of Physics

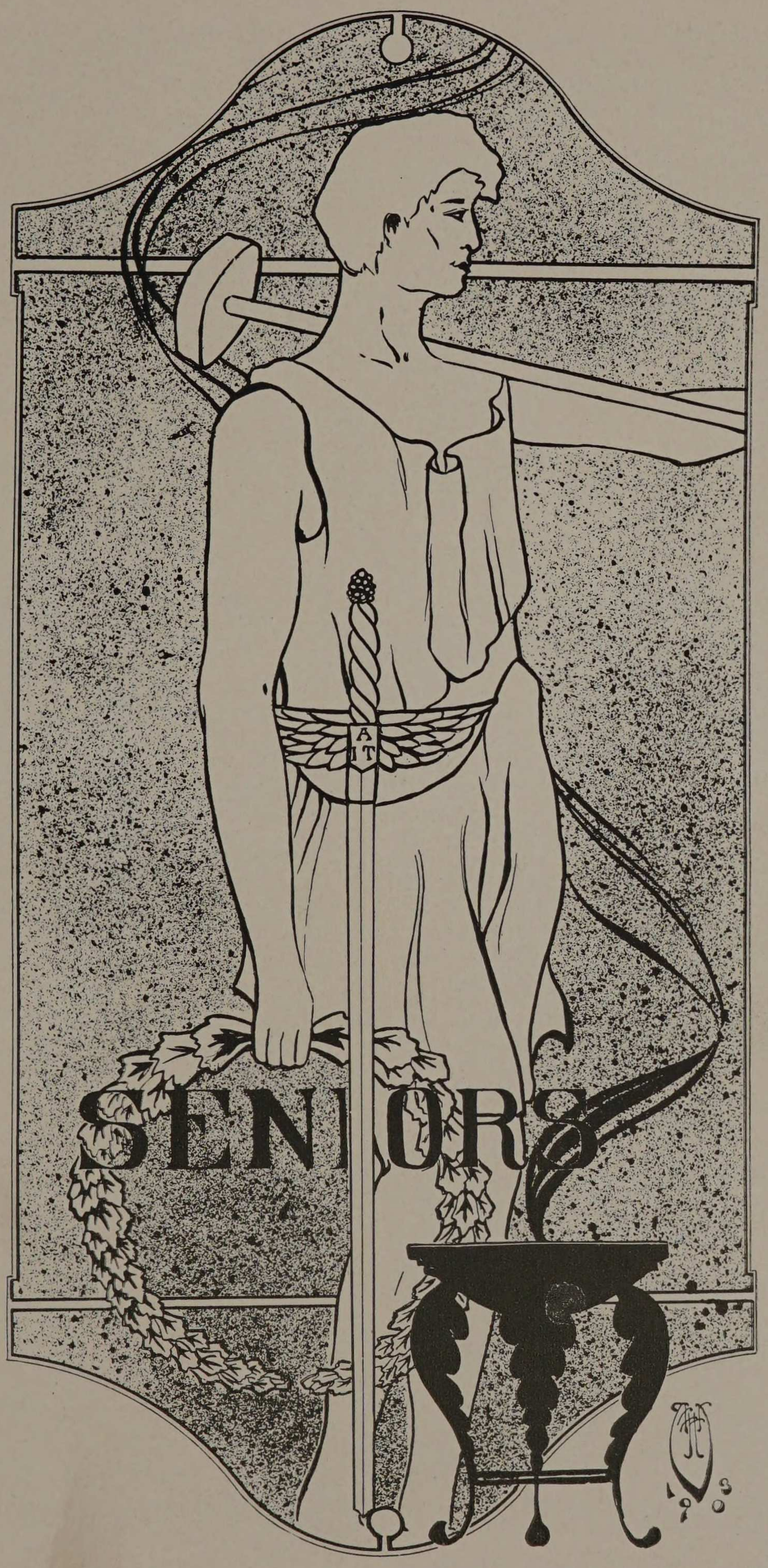
John Edwin Snow, M.S., E.E,
Associate P rofessor of Electrical Engine ering

Will M. Sawdon, B.S.
Assistant Professor of Railway Mechanical Engineering
Robert W. P. Noble, A.M., Delta Kappa Epsilon
Assistant Professor of Chemistry
George L. Scherger, Ph.D.
Assistant Professor of History
Melville Baker Wells, C.E., Phi Delta Theta
Assistant Professor of Bridge and Structural Engineering
Norman C. Riggs, M.S., Phi Beta Kappa
Assistant Professor of Mathematics
Raymond Burnham, M.E.
Assistant Professor of Experimental Engineering
Robert Vallette Perry, B.S.
Assistant Professor of Machine Design
William K. Fellows, Ph.B., Phi Kappa Psi
Instructor in Design and Drawing
Edward D. Agle
Instructor in Machine Tool Work
Birch Burdette Long
Instructor in Water Color Rendering
James Ritchey
Instructor in Wood Working
Clinton S. Walfolk
Instructor in Business Law
Ralph H. Rice, B.S.
Instructor in Electrical Engineering
Henry B. Thomas, B.S., Kappa Epsilon, Phi Rho Epsilon
Instructor in Gymnastics and Physical Examiner
Charles Wilbur Leigh, B.S., Phi Gamma Delta
Instructor in Mathematics
Oscar Anthony Rochlitz, B.S.
Instructor in Chemistry
Edgar R. Creamer
Instructor in Forging
Ernest Harrison Freeman, B.S.
Instructor in Electrical Engineering
Walter Thomas Charles, Ph.B.
Instructor in Chemistry
Willis T. Howell
Instructor in Founding
W. H. Smart, Ph.B.
Instructor in English
William S. Hazelton, A.B., B.S., Delta Tau Delta
Instructor in Mechanical Engineering
Harry C. Coffeen, M.S., Phi Gamma Delta
Instructor in Mechanical Engineering
Frank H. Bernhard, B.S.
Instructor in Electrical Engineering

Armour Scientific Academy

INSTRUCTORS :

Associate Professor H. M. Raymond, Principal	Physics
Professor L. C. Monin	French
Professor F. M. Tisdel	English
Assistant Professor R. W. P. Noble	Chemistry
Assistant Professor G. L. Scherger	History
Assistant Professor N. C. Riggs	Mathematics
Miss Carrie Wright	Latin
Miss Rosa Lang	German
Mr. William W. Manning	English
Mr. John A. Brewster	Mathematics
Mr. Albert H. Krehbiel	Freehand Drawing
Mr. Charles W. Leigh	Mathematics
Mr. Henry B. Thomas	Physical Culture
Mr. Oscar A. Rochlitz	Chemistry
Mrs. Julia A. Beveridge	Bibliography
Mr. Walter T. Charles	Chemistry
Mr. Ralph H. Rice	Physics
Mr. Ludwig J. Marienburger	German
Mr. Harry C. Coffeen	Mechanical Drawing
Mr. Charles B. Tibbetts	Mechanical Drawing
Mr. Frank H. Wescott	Physics


SENIORS
1900

Electricals

Max G. Kabateck,
Born in Chicago in 1881.
Chicago English High School.
Armour Scientific Academy.

Fred R. Babcock,
Born in Denver, Col., in 1883.
Graduate of Hyde Park H. S.

Frederick V. Battey,
Born in Chicago in 1878.
Preparation at Englewood H. S.
And University of Chicago.
With Pettibone, Sawtell & Co., '95-'97.
President of Y. M. C. A.
President of Class, '03.

Albert Kaemfer,
Born in Chicago in 1879.
Prepared at Armour Academy, '97-'98.
Academy Track and Foot Ball Teams, '99.
A. I. T. Water Polo Team, '00-'01.

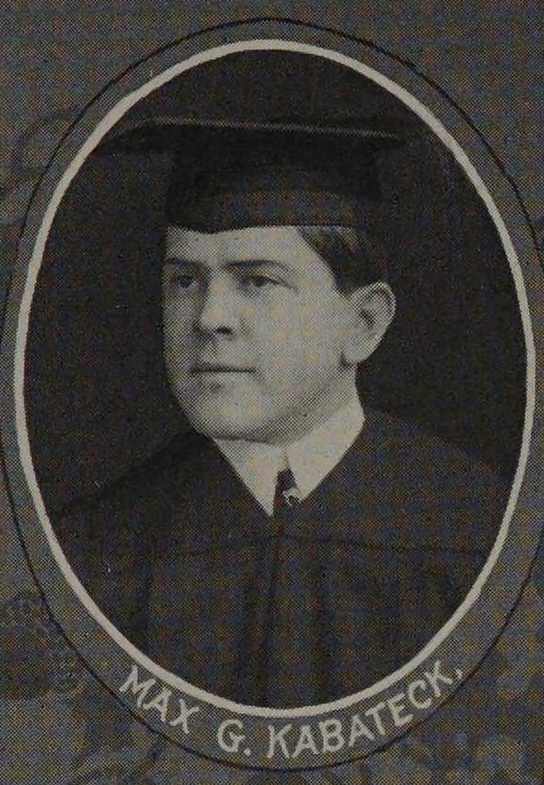
J. Edward Lanning,
Born in Dresden, O., in 1881.
Prepared at Ogden, Utah, H. S., '95-'99.
Secretary of Class, '01.
Vice President of Class, '02.
Class Treasurer, '03.
President Photo Society.
Member of Technical Society.
Member of Y. M. C. A.
Editor-in-Chief Armour Eng. Journal.
Ass't Class Representative to Integral.

John H. Stacey Mueller, Delta Tau Delta,
Born in Cincinnati, O., in 1881.
Prepared at E. I. St. Louis, Mo., '96, '97.
Armor Scientific Academy, '98, '99.
Stevens Inst. of Technology, Supp. Term, '02.
Member of Consonant Club.
Treasurer of Photo Society.
Class Representative to Integral.

Emil F. Nelson,
Born in Elmhurst, Ill., in 1879.
Entered Armory Academy, 1897.
Class Vice-president, '99.
Class President, '00.

Earl D. Merry,
Born in Benton Harbor, Mich. in 1882.
Preparation; B. H. H. S. and B. H. College,
Pres. and Treas. Photo Society,
Member of Technical Society.
Class Secretary, '02, '03.

SENIOR ELECTRICALS



MAX G. KABATECK.



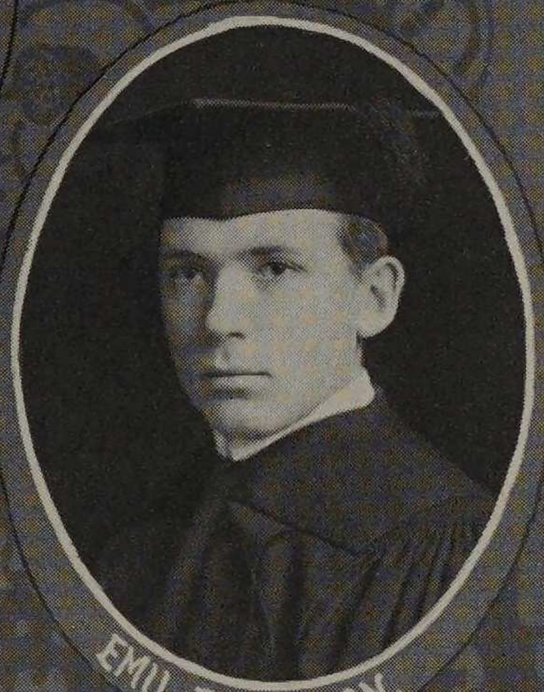
JOHN H. STACY MUELLER, A.T.A.



ALBERT KAEMPHER.



FRED R. BABCOCK.



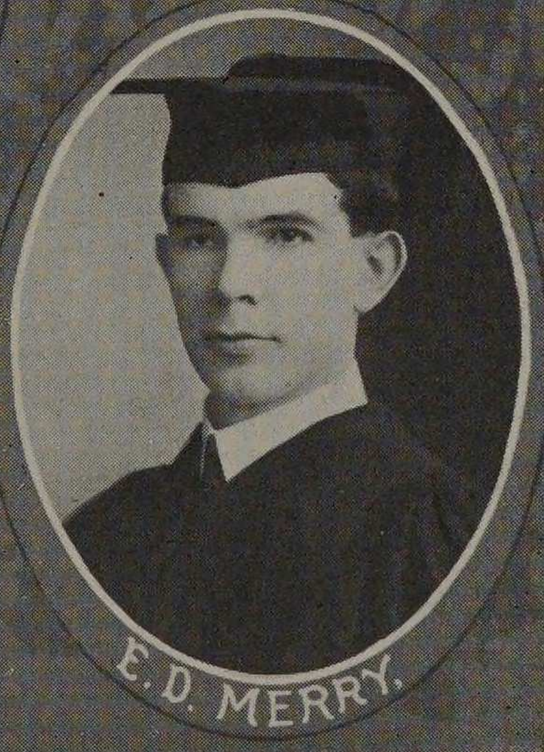
EMIL F. NELSON.



J. EDWARD LANNING



FREDERICK V. BATTEY



E. D. MERRY.

Electricals

S. B. Sherman,

Born in Salem, N. Y., 1881.
Colorado Agricultural College,
President Technical Society, '02.
Asst. Bus. M'gr. Armour Eng. Journal.

H. Boyd Rawson Phi Kappa Sigma,

Born in Green Co., Ia., 1879.
Prepared in Princeton, Ill.
Porto Rican Campaign, 6 Ill. Vol., Co. K.
Member Technical Society.
Member Foot Ball Team '02.
Class Vice Pres., '03.

Howard G. Stillson,

Born in San Francisco, Cal.. 1876.
State University of Nebraska, 4 years.
And the Des Moines Gas Co. 1 year.
Entered Armour Inst. of Tech., 1901.
Member of Technical Society.
Member of Photo Society.
Member oi Y. M. C. A.
Ass't. Editor Armour Eng. Journal.

Erle Sidney Roos, Phi Kappa Sigma,

Born in Natchez, Miss., in 1876.
Prepared at Chicago Athenaeum Night School.
Western Office of "Pennsylvania Lines," '9[illegible]–'95.
Member of '99 class, '95–'98.
Superintendent Central Station Construction, '98.
Member Editorial Staff of Integral, '98.
Vice-President Technical Society, '97.
Treasurer Senate Literary Society, '97.
President of '99 Class, '98.
Senior Class, half year, 1900.
At present with Western Electric Co., Armour Institute of Technology Night School.

Samuel J. Wendt,

Born in Charles City, Iowa, in 1881.
Prepared at Charles City H. S.
Entered Armour Institute of Technology 1899.

William S. Taussig,

Born in Chicago in 1882.
Chicago Manual Training School.
Member Glee Club; Leader, '01.
Member Class Track Team.
Member of Technical Society.
Member of Chess Club.

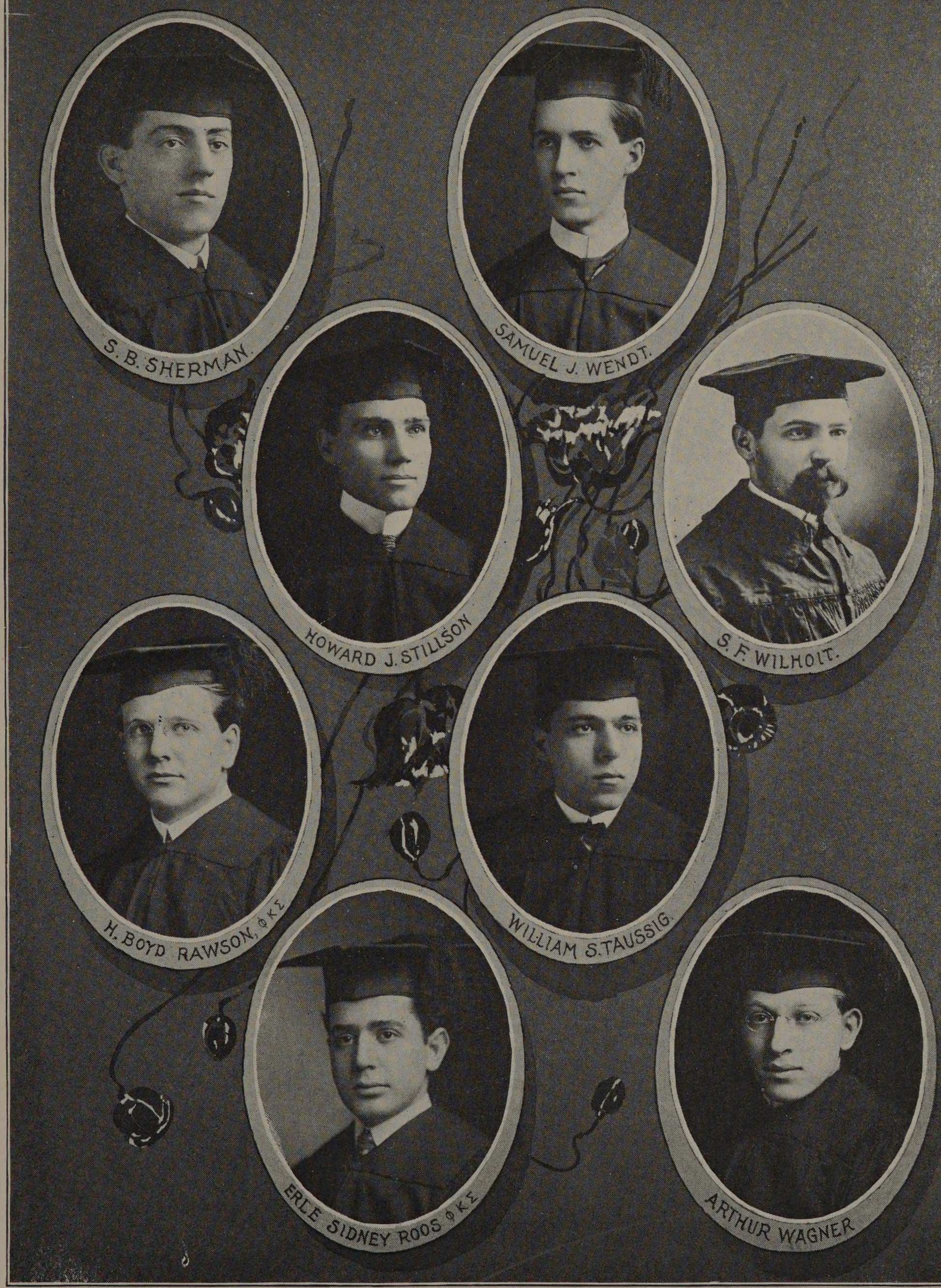
Frederick Shelton Wilhoit,

Born at St. Louis, Mo., in 1875.
Graduate of Chicago Manual Training School, '94 Class.
Armour Institute of Technology, '94–'96.
At Yerkes Observatory, Williams Bay, Wis., '96–'97.
Armour Institute of Technology, '97–'98.
Sprague Electric Co., '98–'02.
Now with the Cutler-Hammer Mfg Co., Milwaukee, Wis.

Arthur Wagner,

Born at Albion, Ill., 1880.
Graduate Hyde Park H. S.
Member Class Track Team.

SENIOR ELECTRICALS.



Mechanicals

John S. Banta,

Born in Chicago in 1880.
College preparation at Chicago.
English High and Manual Training School.
Machine Shop Work, '98.

F. Howard Cronin,

Born in Baltimore in 1878.
Two years in Under-Graduate Department at Johns Hopkins University.
Member of Y. M. C. A.

E. E. Edgecomb, Delta Tau Delta,

Born in Mo. Valley, Ia., in 1880.
Prepared for College at Mo. Va., Ia. H. S.
Member of Consonant Club.
President of Class, '02.

William M. Byrne,

Born in New York City in 1878.
College preparation at Chicago.
English High and Manual Training School.
Member of Football Team, '02.

Emil Jennings Heinen,

Born in New Ulm, Minn., in 1877.
College preparation, Minn. Academy, '98.
And University of Minn., '98–'00.
Draftsman, Duluth & Iron Range R. R., '00, '01.
Entered Armour Institute of Technology, 1901.
Assistant Editor Armour Eng. Journal.
President of Technical Society.

Hohson Janjiro Shimizu

Born in Japan in 1878.
Prepared at 5th College, Japan.
Entered Armor Inst. of Technology, '99.

Grafton Stevens, Phi Kappa Sigma,

Secretary of Class, '99.
Member of Photo Society.

William C. Matthews, Delta Tau Delta,

Born in Chicago in 1880.
College preparation, Lake Forest and Armour Academies.
Class Treasurer, '00–'02,
Member Consonant Club.
Social Editor Fulcrum.

John F. Strickler, Delta Tau Delta,

Born in Carthage, Ill., in 1880.
Prepared at Keokuk High School.
Armour Academy, '99.
Member of Consonant Club.
President of Y. M. C. A.
Asst. Bus. Manager of Fulcrum.
Member of Glee Club, '01, '02.
Member of Basket Ball Team.
Member of Dramatic Club.
Member of College Quartet.

Eugene Randolph Weber,

Born in Yankton, So. Da., in 1880.
College Preparation, Armour Academy.
Class Representative to Fulcrum.

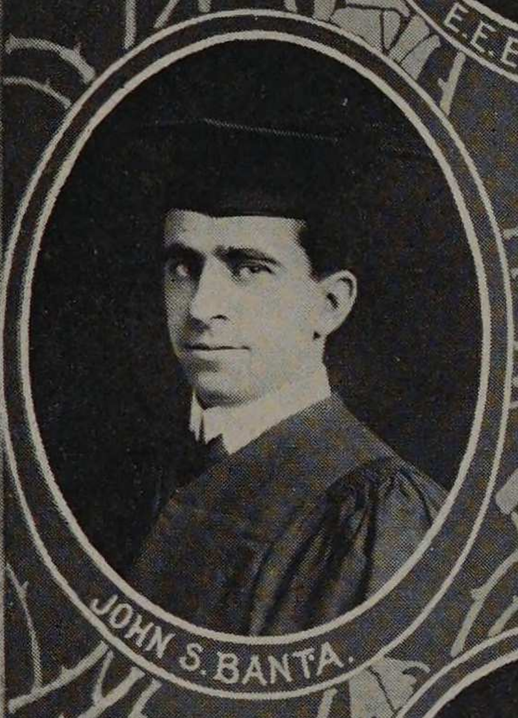
SENIOR MECHANICALS



E. E. EDGECOMB, ΔΤΔ.



GRAFTON STEVENS, ΦΚΣ.



JOHN S. BANTA.



EMIL JENNINGS HEINEN.



JNO. F. STRICKLER, ΔΤΔ.



WILLIAM M. BYRNE,



WILLIAM C. MATTEWS, ΔΤΔ.



F. HOWARD CRONIN,



HUNSON SANJIRO SHIMIZU.



EUGENE RANDOLPH WEBER.

Civils and Chemicals

Charles T. Brimson, Delta Tau Delta,

Born in La Fayette, Ind., 1881.
Graduate Englewood H. S.
Manager College Football Team, '01.
Member of Consonant Club.

George Ben Robinson, Delta Tau Delta,

Born in 1879 at Tomah, Wis.
Eau Claire High School.
Armour Academy '98–'99.
Member Glee Club, '98–'01.
Member of Football Team.
Capt. and Mgr. Track Team.
Pres. Athletic Board of Control.
Member of Dramatic Club.
College Quartet, Mandolin Club.
Member of Consonant Club.

H. T. Hansen,

Born in Denmark in 1873.
Y. M. C. A. Evening Classes, Hartford, Conn.
N. D. H. S., Valparaiso, Ind.
Armour Scientific Academy, 1900.
With Hall Bascule Bridge Co.

George W. Niestadt, Delta Tau Delta,

Born in Chicago in 1880.
Graduate N. W. H. S., 1899.
Member of Consonant Club.
Capt. Baseball Team, '01.

Maurice J. Weisskopf,

Born in Chicago, Ill., in 1879.
West Div. H. S., Class of '97.
Entered Armour Inst. of Tech., 1899.

Winchester Whipple Felt,

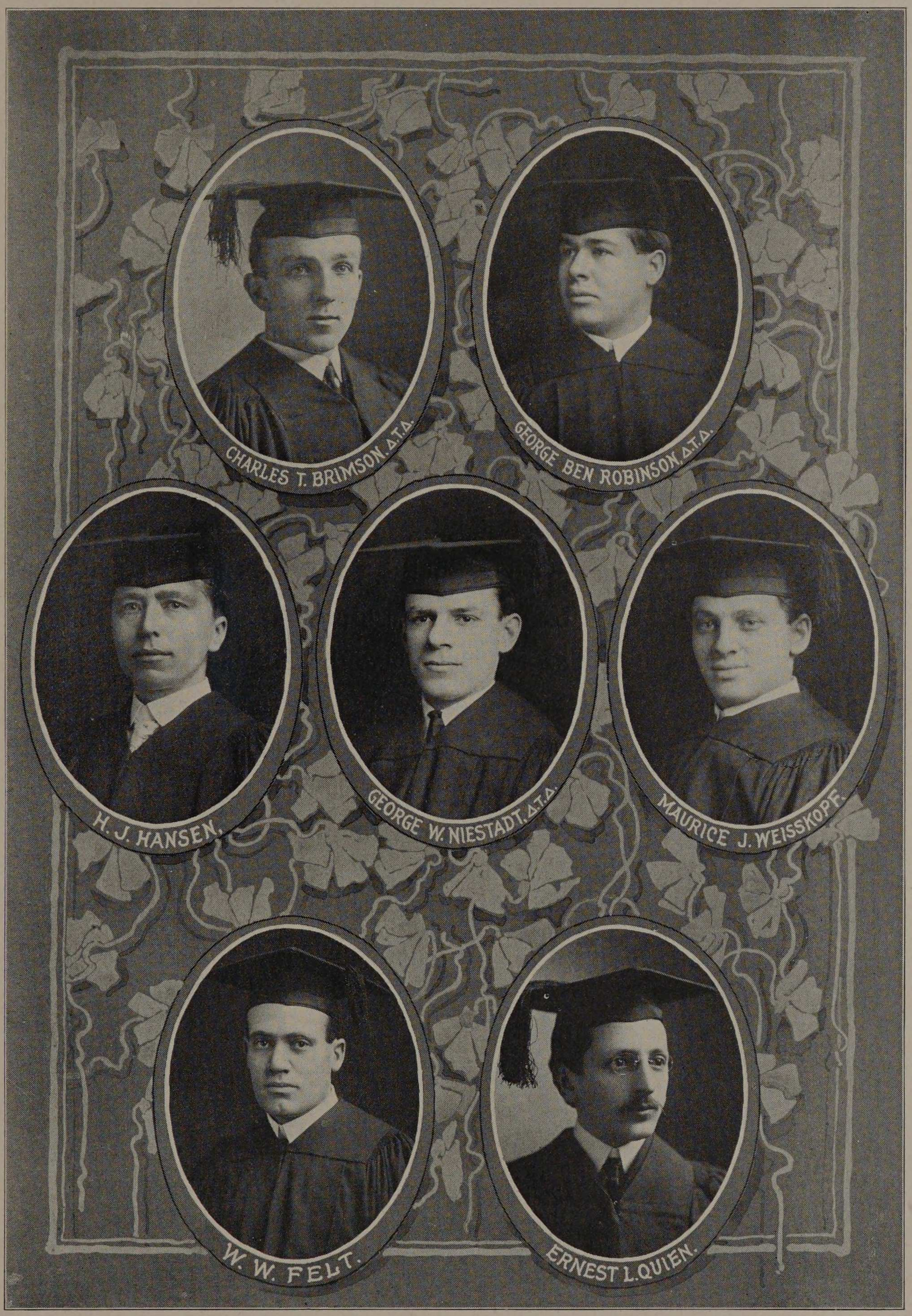
Born in Chicago in 1874.
Springfield, Mass., H. S.
Entered Armour Academy 1897.
Treas. of 1902 Class.
Pres. and Treas. Tech. Society, '01.

Ernest L. Quien,

Born in Danbury, Conn., 1881.
Danbury High School, 1896.
N. W. D. H. S., 1897.
Armour Academy, 1898.
Secretary Y. M. C. A., '00.

William C. P. Phillips,

Born in Chicago in 1882.
Armour Academy, '95–'99.
Member of Technical Society.
Member Board of Athletic Control, '99–'00.
Member of Photo Society.


CHARLES T. BRIMSON, Δ.T.Δ.
GEORGE BEN ROBINSON, Δ.T.Δ.
H. J. HANSEN,
GEORGE W. NIESTADT, Δ.T.Δ.
MAURICE J. WEISSKOPF.
W. W. FELT.
ERNEST L. QUIEN.

Chronicle of the Class of 1903

Introductory

AS the time rapidly draws near, when we, the Class of 1903 are to venture forth, leaving naught but memory and our pictures behind to remind others of our pristine glories individual and collective, it behooves us to inscribe some slight record of our deeds and misdeeds, that others, seeing, may take heed and aspire to greatness, being not downcast by early failures. We have been through it all, and it is with a sense of pride tempered by age and conservation that we point to our record.

Book I. The Verdant Freshman

In common with other graduating classes, we once inflicted ourselves upon an unappreciative and unresponsive world.

With reverence and fear and trembling we looked up to those whom fate had placed before us to be an example to us. We say nothing of the slurs and contumely inflicted upon us by them, little dreaming of the heights to which we were destined to ascend and from which we now so willingly overlook our petty grievances. Let the dead past cremate its dead! They have vanished into the nothingness from which they sprang, and of which they were always so important a part.

As freshmen, we firmly believed in the value of organization. "One for all and all for one" might have been our class motto, and that it was strenuously lived up to, none will deny. After becoming acclimated, we took it upon ourselves, to curb some of the unruly spirits that were fast making life unbearable for certain well beloved members of the faculty. We would like to pause here and make a few remarks on the base ingratitude of mankind in general and the faculty in particular. But time flies. Sufficient to say that after all our trouble with the above end in view, some of our members prominently connected with an incidental unpleasantness in the gymnasium, were actually fined by the very ones we had hoped to free from persecution. Here is where our faith in organization and its attendant benefits was strengthened. One and all, we solemnly swore to leave unless our disgraced brethren were reinstated. They returned.

Our ardor could not be quenched by such an adverse attitude on the part of the Faculty, and we persisted in our policy of opposing the wild-west tactics of our seniors. Again the fates, (Faculty) were against us, but in spite of all a base plan of self-glorification was frustrated, and the instigators thereof brought to see the error of their ways.

But it must not be assumed that our entire time was devoted to such pursuits. There is at least one permanent institution prominent in our college life, standing as a result of our efforts at organization. The Armour Institute branch of the Y. M. C. A., was founded under the leadership of members of our class, and is a creditable part of our record. Class athletics also received their share of attention, with due honors to those devoting their time and energy to that branch of college life.

Book II. The Supercilious Soph.

In due course of time, we arrived at this advanced stage of development, i. e. what there were left of us. We returned resolved to profit by our experiences related above, and refrained from mixing in college politics. We had learned that good old saying: "Blessed are the meek for they shall be sat upon," and resolved to do the sitting act. In accordance with this resolution, the famous original "Yellow Posters" came into existence. They served their purpose, and that was enough. Imitation is the sincerest flattery, and every year we are greeted by some more or less base imitation of our initial efforts. We are flattered, for we are but human.

If any of the old inhabitants remember a cold winter's morning, when, for the first time in the history of the College, a class flag fluttered from the flag staff above the main building, they can put it down to the credit of '03. That the school felt honored is borne witness by the many consultations between ourselves and members of the faculty. This interest on their part was entirely unlooked for, and developed in us such a sense of our own value and importance as we have rarely experienced.

Another innovation introduced by our efforts that has since become an established institution, is the Freshmen Smoker. Nothing of the kind ever greeted us as we entered the new world of energy and activity called College life. In return for all this lack of appreciation on the part of the upper class men, we instituted the smoker, and may it ever prosper!

These are but a few of the many more or less valorous deeds that

were mere incidents in our career. Our kicking was of the sustained, well regulated type, executed on general principles for the benefit of mankind in general. Spasmodic, ill-directed kicking had no place in our sympathies. There is as much in system as applied to kickology, as to any other branch of science.

Our final performance as Sophomores, was the Soph. banquet, marking the end of an interesting period. As Sophomores, our page was filled; a new leaf turned over. Exit the Soph.; enter the Junior.

Book III. The Maligned Junior

As each generation answers in a measure for the sins of omission and commission of its predecessors, so the class of 1903, as Juniors, suffered from the misunderstanding of those hasty in judgment and as thoughtless as hasty. We refer to the non-appearance of the Integral under our regime. Those of malignant turn of mind have lost no opportunity of throwing it up to us with various ill-sounding epithets for our remissness. We have long since been justified before conservative minds, and it is useless here to bring up harrowing details. Suffice to say, the Integral has recovered from the blight cast upon it by the stench of its appearance in 1901, and its promoters are deserving of the highest credit.

With our increased responsibilities come less opportunities, and with our development, less inclination toward the pranks of childhood. We devoted more of our energies to the support of those institutions deserving of support. The Technical Society, The Camera Club, The Glee and associated Clubs. and the Y. M. C. A., all received their full

quota of attention at our hands. Our appreciation of our opportunities increased with age and experience. But with all this, our trip to Milwaukee "in searce of enjoyment and other delicacies," was an affair long to be remembered by those partaking. It was a grand finale to a successful, intense year. A fitting finish to our year's work—and play.

Book IV. The Strenuous Senior

It has been said that "Genius is two per cent inspiration and ninety-eight per cent perspiration." We are furnishing the perspiration and are on the lookout for that other ingredient in that very desirable attribute. With nothing to do but work, we manage to pass the time and wear out the patience of the profs. with commendable aptitude.

Who shall chronicle our successes or failures as Seniors? They are too numerous, especially the latter. Even here, our aptitude for innovations has not deserted us. Witness our appearance on other pages of this volume. The Cap and Gown at Armour Tech., is a new phase in the graduating program.

With our laurels we are content, and as we go forth we shall always recall the four short years in the College of Engineering, with their trials and pleasures, their successes and failures, their work and play, with tenderest memories, and may others find them as profitable as we have.

THE JUNIORS



The Junior Class

Colors: Scarlet and White

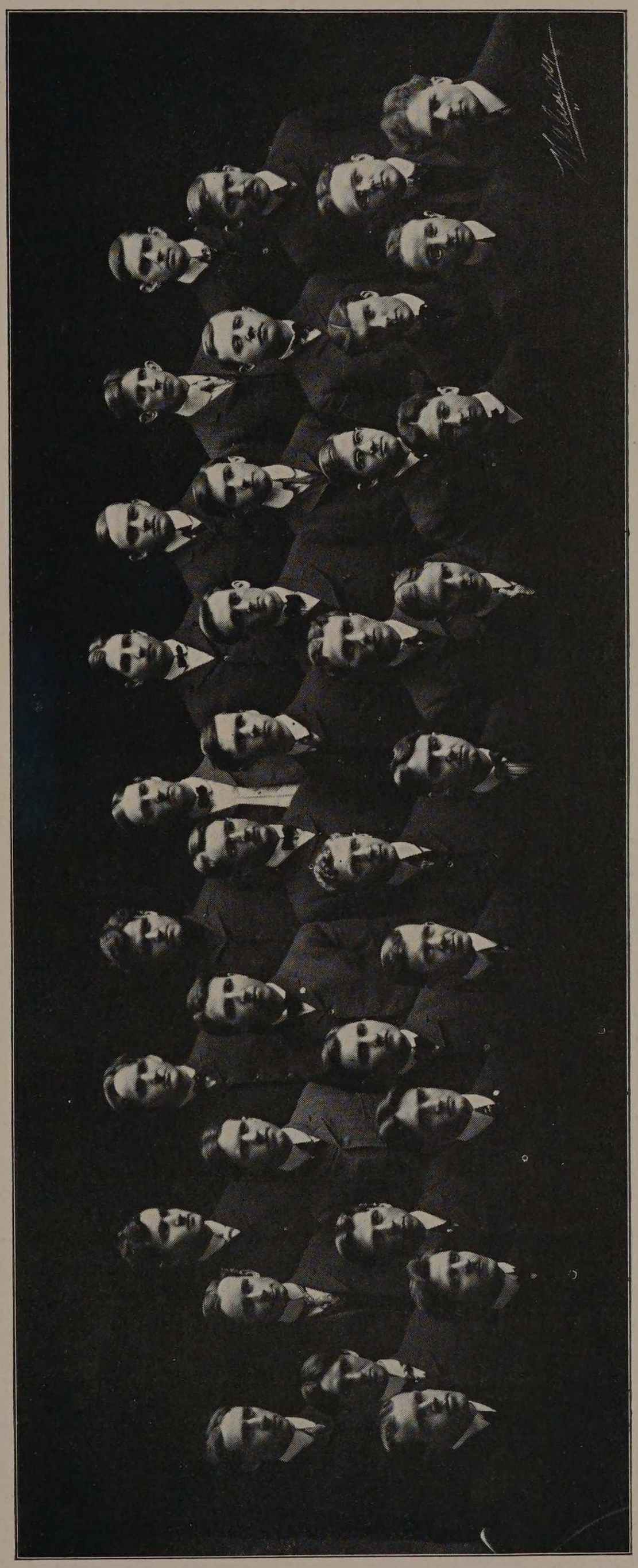
Yell: Hullabaloo, balla, ballore!
What's the matter with naughty four?
Raise a racket
Smash and crack it.
We're all right!
Whoop!

Officers:

President, Arthur M. Jens — Vice President, Rupert H. Strang
Secretary, Harry M. Wood — Treasurer, Henry W. Clausen
Cheer Leader, J. Roy Armstrong
Business Committee, Hamilton, chairman; Williams, Armstrong, Coy, Ruegnitz
Social Committee, Frary, chairman; Zuckerman, Draper, Clausen, Hiller
Integral Representatives, Wood, Draper.

The Class of 1904

J. Roy Armstrong, Chicago
Milton Barash, Perry, O. T.
Allan B. Benedict, Chicago
Louis J. Byrne, Chicago
George W. Borst, Elma, Ia.
Arthur Buie, Chicago
Charles L. Campbell, Carbondale, Ill.
Henry W. Clausen, Chicago
Ernest L. Clifford, Chicago
Karl R. Compton, Bourbon, Ill.
Fred L. Collins, Chicago
Frank A. Coy, Chicago
Roydon N. Davis, Elkhart, Ind.
William H. Dean, Chicago
Robert S. Draper, Chicago
Henry A. Dreffein, Chicago
Don R. Frary, Chicago
Earle W. Grover, Chicago
Harold L. Hamilton, Chicago
Harry A. Hart, Dakota City, Neb.
Julius L. Hecht, Chicago
Edwin J. Hiller, Chicago
Walter G. Hoy, Woodstock, Ill.
Augustus W. Jackson, Morgan Park, Ill.
Arthur M. Jens, Chicago
Morris J. Knapp, Chicago
Otto A. Kreutzberg, Chicago
E. Leonard Lundgren, Chicago
Frank J. Marchese, Chicago
Edward McBurney, Chicago
Clarence T. McDonald, Hardin, Ill.
Walter G. Middleton, Richmond, Ill.
James C. Peebles, Naperville, Ill.
O. Raymond Prescott, Marengo, Ill.
Sidney J. Robison, Grinnell, Ia.
Daniel Roesch, Aurora, Ill.
William C. Ruegnitz, Chicago
Charles C. Sampson, Chicago
Pierre V. C. See, Chicago
Rupert H. Strang, Richland Center, Wis.
Edward J. Wickersham, Chicago
Roy E. Williams, Hutchinson, Kan.
Harry M. Wood, Evanston, Ill.
Herbert Zuckerman, Chicago



Junior History

AN ordinary class history is always known to contain more or less exaggeration—usually more. Now, while we admit that we are an extraordinary class, we are not egotistical enough to claim that this record does not, perhaps to some slight degree, favor ourselves. We do seriously contend, however, that we have paved the way for unbiased narratives in the future, by so designing this chronicle that it contains a maximum of solid fact and a minimum of exaggerated bluff.

We here desire to acknowledge our indebtedness to the college for its appreciation of our worth and ability. For, with all proper apologies for making personal remarks, we are indeed an exceptional class. Consider for an instant the variety of talent here represented. Where will you find another such an automobile crank as Judson? Our "Lanky Leonard" Lundgren has the undisputed title to "School Wise Guy." Hoy has long since demonstrated his ability to hold his own (or any one's else) Pabst. We challenge another class to produce such a poet, author and base-ball fiend as Parker. To see McBurney draw pictures of locomotives is an education in itself. Would you learn the fashions? Then rubber at Crawford. If still unconvinced as to our exceptional and varied abilities, come and hear Dreffein argue with the profs; hear Hecht ask questions; see Sampson's pull (on his

moustache); hear Benedict compose music; see our great "Sleeping Buie;" hear Wickersham tell stories.

After carefully pondering over the above list of celebrities, and remembering that there are many more of whom space forbids the individual mention, it is plainly evident why the class of 1904 holds its lofty and enviable position. The class above us was the first to recognize our budding genius. When we were but "green Freshies" (and thanks to our own good guidance we are not over-ripe as yet) the then Sophomore class kindly issued rules of conduct for our enlightenment. Their motive was a subtle one—they wished at some future time to be able to claim the glory of having developed such a class as they perceived we were destined to become. We accordingly tender our sincere thanks to '03, first, for their interest in our welfare; second, for the fact that we possessed sufficient independence to not follow their instructions. Since then our fame has traveled fast. How else can you account for the action of the class of '05, who, after being at Armour but a few weeks, tendered to '04 their most humble apologies for even daring to attempt to follow in the footsteps of their illustrious predecessors?

Of course our career has been strewn with brilliant achievements, still fresh in the memory of all old students. Our natural modesty almost forbids mention of how we beat '05 in the color rush; of how '03 crawled when we suggested one to them; of how as Freshies we won the inter-class basket-ball championship, and as Sophomores

retained it; of how we are this year taking up those Junior duties—the Integral and Prom.—which the class before us saw fit to shirk; of how conspicuous and numerous our men have been on foot-ball, basket-ball, polo, and base-ball teams; or how we have maintained a high standard for class unity and college spirit in all things.

If you wish hints for success in athletics, go and see what excellent base-ball training is furnished by the chalk-slinging contests in Mechanics class. Basket-ball men should watch us toss waste baskets in the drafting room. Take notes on the way we file "kicks;" it may be of service in foot-ball.

But we feel it our duty to stop here. lest ensuing classes should despair of even approaching the standard set by us. And great as have been our past deeds, the greatest are yet to come. Next year —but this was not to be a prophecy. If at any time you hear an Armour man speak of *the* class; a class which was first in school spirit, first in rough-house, first in studies, first in athletics, you may rest assured he has in mind the class of 1904.



SOPHOMORES



FRED STEARNS. '03.

The Sophomore Class

Colors: Blue and White
Yell: S-s-s-s-s-s-Boom-Rah-'05.

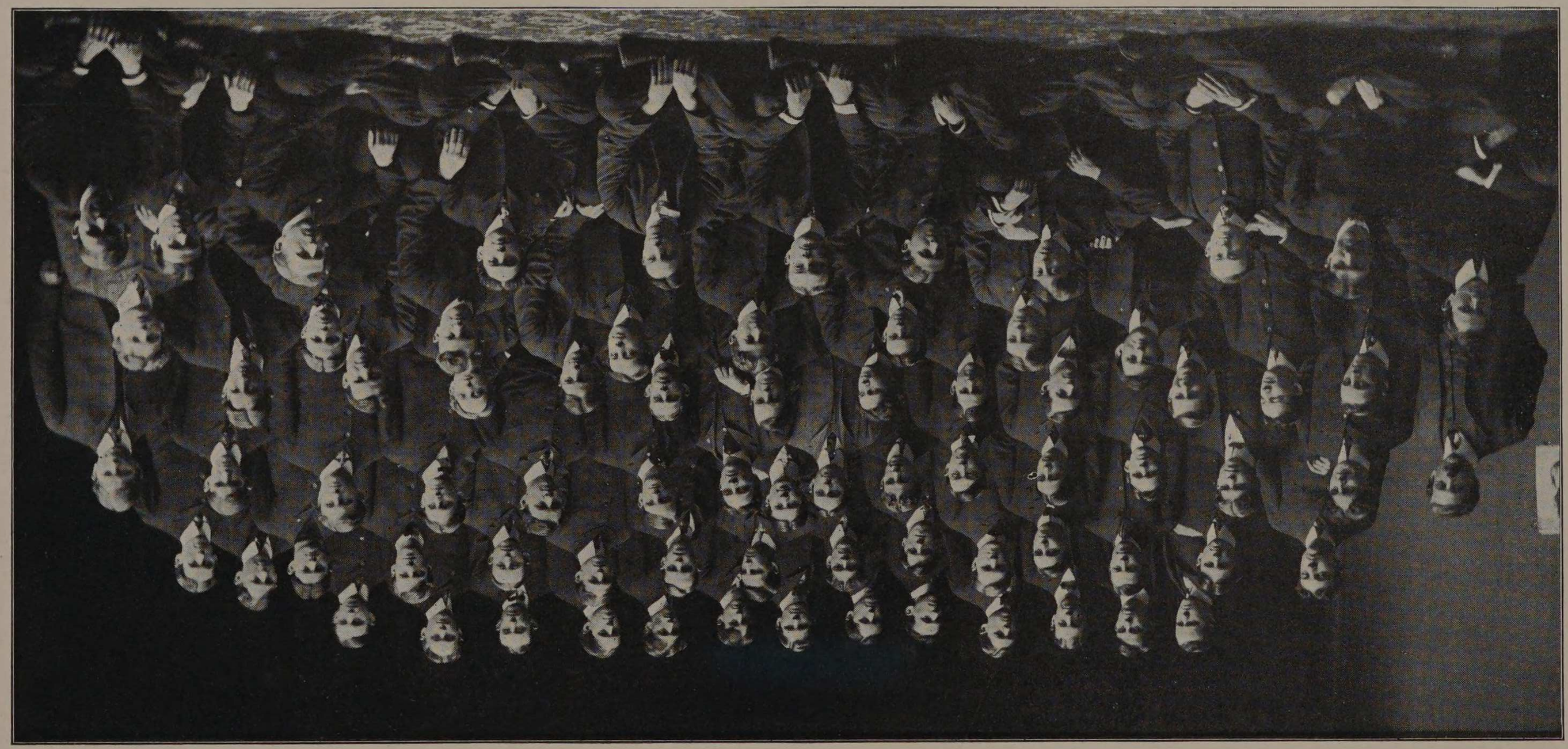
Class Officers:

President—Harry B. Marshall.
Vice President--T. H. Ellett.
Treasurer—Franklin M. de Beer.
Senior Secretary—A. E. Ferguson.
Junior Secretary—J. K. Thompson.
Sergeant-at-Arms—Harry L. Mead.

Finance Committee—Franklin M. de Beer, Chairman; W. K. Kretzinger, A. R. Redman.
Social Committee—M. H. Wright, Chairman; C. P. Hatter, R. G. Culbertson, Roy A. Malcolm, F. R. Goldsmith.
Literary Committee—J. R. Smith, Chairman; Franklin M. de Beer, M. H. Wright.
Integral Representatives—Harry L. Mead, Franklin M. de Beer.
Athletic Committee—Charles H. Herrman, Chairman; W. K. Kretzinger.

Members of Class of '05:

Ash, H. J.
Anderson, W. C.
Bates, W. S.
Beamer, B. E.
de Beer, F. M.
Brackett, J. C.
Brashares, H. E.
Brown, A. J.
Carroll, E. J.
Couchois, E. W.
Culbertson, R. G.
Dana, F. G.
Darling, R. C.
Durr, H. A.
Ederer, A. F.
Ellett, T. H.
Engbloom, F. T.
Emmons, F. A.
Fash, R. H.
Ferguson, A. E.
Fiske, G. W.
Goldsmith, F. R.
Greer, D. M.
Hannan, D. E.
Hansen, A. A.
Hansen, O. S.
Harper, R. B.
Harvey, W. F.
Hatter, C. P.
Hauerbach,
Heine, F. A.
Herrmann, C. H.
Hill, W. E.
Johnson, W. B.
Jones, C. Cl.
Kadic, J. F.
Kapelusch, D.
Kretzinger, W. K.
Lennartz, G.
Lewy, D.
Maas, S.
Maher, E. E.
Malcolm, R. A.
Marshall, H. B.
Mead, H. L.
Meyer, E. D.
Morris, L. E.
McGuire, G. F.
MacMillan, A. N.
Nass, G. R.
Natkin, B.
North, S.
Payne, J. H.
Penn, J. C.
Putt, F. A.
Ratcliff, W. A.
Redman, A. R.
Robinson, R. H.
Rosenheim, B.
Sauer, C. C.
Sharp, H. M.
Smith, J. R.
Snowdon, C. R.
Speers, R. D.
St. Clair, O. A.
Stein, L. H.
Thoma, C. J.
Thompson, J. K.
Tyler, A. W.
Underwood, R. A.
Vey, F. E. L.
Webster, R. W.
Whitney, F. B.
Willard, D. E.
Wright, M. E.
Wright, M. H.
Yocum, J. F.



Sophomore History

THE college year beginning in the fall of 1901 witnessed the discontinuance of co-education at the Tech. This same year gave birth to the class of 1905, the largest in her history. Whether these two facts have any definite connection has never been proved, yet it is certain that the bashfulness indicated on the part of '05 members was thoroughly dispelled as soon as organization was possible, for such spirit and loyalty has not been displayed since the mythical time of marching clubs and calculus cremations.

Napoleon's equation, in which "spirit" was the prime factor, has been repeatedly proven by '05. "*Freshman Tuesday*" has been declared an annual affair and named in honor of the day on which '05 instituted that memorable rush. Football honors have been ours, the class team easily winning the inter-class championship in '01. Inter-class basket ball and bowling matches were revived this year by the wholesome, irrepressible enthusiasm which has always distinguished this class. Victory, while an aim, is not necessarily the object of the ambitious. Freshman verdure soon wore off, and signs which distinguish college men began to appear, and it soon became evident that the class were of the stamp that makes good engineers.

Freshmen though they were, they could not help but notice the

absence of social activity displayed by the upper classmen, and being naturally in the front in all things, they of course assumed the lead here as well. The Freshman dance in the spring of '02 was a decided success, and its renewal, year after year, will speak for the initiativeness of the class of 1905. A bright year was thus ended and summer claimed us.

The services of many in connection with railroads, mines and factories proved valuable during the summer months. At the roll call in September, 1902, many were missing—not strayed, but stolen by pleased employers. However, still strong in numbers and loyal in spirit, the class again took up college life.

The required number of hours having been increased, but few found time to participate in athletics.

The Fulcrum, the school paper, under the able management of the present Sophomores, has been greatly revised and improved. The editorial staff, having been enlarged considerably, made it possible for each department to receive more careful attention, and also enabled the publication to be issued fortnightly.

Our future, of course, is a closed book, but one thing is certain, that the class loyalty and college loyalty which has resulted from the example set by the class of 1905, is of the contagious kind and has come to the institute to stay.


E.G. BASSETT

Freshman Class

Class colors: Navy Blue and Gold

Class yell: Rixey, rahy, rah, rix,
Armour Tech., '06.

Officers

President, Charles W. Stone
Vice-President, L. R. Levings
Secretary, R. E. Jens
Treasurer, A. C. Newburn
Social Committee, Deming, chairman; Rockwell, Neilson
Integral Representatives, Levings, Henchling

Members of Class

Allen, George
Allen, L. S.
Allen, O. T.
Allyn, A. J.
Allyn, J. P.
Back, Walter
Baker, Charles
Bale, R. O.
Ballard, E. L.
Barnett, F. L.
Batterson, R. N.
Battis, R. J.
Beazley, J. G.
Becker, A. D.
Bordwell, H. G.
Bousted, H. G.
Bremer, H. A.
Brock, W. L.
Brubaker, W. C.
Brydges, E. N.
Carney, R. J.
Carpenter, G. B.
Carr, A. L.
Chalmers, G. H.
Chambers, A. W.
Chan, Y. H.
Chandler, F. E.
Clark, R. L.
Clucas, G. W.
Cohen, S. A.
Colby, O. D.
Cole, C. C.
Collins, W. R.
Cook, N. W.
Cowles, H. W.
Cromwell, B. H.
Crawford, G. N.
Cripliner, Chas.
Cronk, E. P.
Cross, A. J.
Cutler, E. W.
Collins, J. C.
Davis, Augustine
Deming, E. G.
Eastman, J. B.
Edson, N. L.
Edwards, Frank
Ellett, E. H.
Elkin, Maurice
Enander, E.
Everheardt, Ernest
Farmer, William
Farnsworth, A. H.
Flanagan, F. J.
Flood, W. H.
Fry, A. Y.
Ford, T. S.
Gaylor, W. S.
Gooken, J. B.
Greifenhagen, E. O.
Gridley, C. C.
Hagelstein, E. L.
Haggender, G. A.
Hall, F. L.
Harrington, Philip
Hayes, C. E.
Heinsen, George
Hepp, A. A.
Herem, G. O.
Heuchling, F. G.
Hicks, T. A.
Higgins, A. K.



Hiller, F. E.
Hoffman, Balthasar
Holland, Stephen
Holcomb, C. S.
Holmes, C. W.
Hoops, W. H.
Hotchkiss, C. C.
Houghton, C. A.
Jackson, H. W.
Jenks, C. M.
Jens, R. E.
Johnson, A. W.
Johnson, C. O.
Johnson, J. Carroll
Johnson, O. B.
Kenzler, O. C.
Keeth, Grover
Kelsey, J. Claire
Kimball, Raymond
Klapper, Charles
Klein, Samuel
Knox, A. H.
Krippaene, W. A.
Kuhn, G. W.
Lawrence, L. A.
Lazear, W. B.
Leininger, W. G.
Levings, L. R.
Lieberman, E.
Lindgren, A. G.
Lindsay, D. M.
Livingston, J. M.
Lynch, T. E.
Lee, Charles A.
Maher, E. E.
Maris, J. B.
Menken, E. F.
Michael, Maurice
Michaelis, F. G.
Miller, Charles
Miller, L. H.
Miner, J. H.
Missigman, Lemon
Morrison, R. D.
Mulholland, A. R.
Muszynski, Ladislans
McAllister, Bennett
McCrackin, Wallace
McCrary, H. R.
Neilson, R. A.
Nicholson, Victor
Norris, F. A.
Newburn, A. C.
Osborne, E. B.
Osinga, J. H.
Paradise, L. A.
Perry, A. C.
Peterson, C. E.
Peterson, N. P.
Pierce, Frank,
Polacheck, B.
Poor, R. J.
Quin, H. G. R.
Reker, W. H.
Robinson, F. H.
Robison, C. S.
Rockwell, A. C.
Roen, O. S.
Ross, L. R.
Rossiter, J. A.
Sawtell, H. J.
Schnaedlich, Hans
Schimacher, J. N.
Scott, P. J.
Segal, L. V.
Shaffer, G. F.
Sherbourne, E. B.
Slocum, K. R.
Smith, E. J. L.
Smith, R. R.
Smith, W. A.
Sallitt, L. L.
Spalding, R. S.
Stanton, J. M.
Stem, L. H.
Stewart, O. H.
Stone, C. W.
Strube, H. L.
Swearinger, R. E.
Sweney, G. L.
Thompson, M. L.
Thorson, L. M.
Tiffany, Ralph
Towl, Fred
Townsley, L. R.
Torrence, R. S.
Viehof, I. C.
Waldensfels, Fred
Walker, R. O.
Warner, A. F.
Warszewski, F. S.
Whitney, A. C.
Willey, N. C.
Willis, M. N.
Wilson, F. N.
Wilson, J. R.
Wilson, W. R.
Waldenberg, M.
Wooley, J. W.
Yandell, C- E.
Zewansky, Nathan

Class History of 1906

ABOUT the end of September, 1902, the astronomers noticed an unusual disturbance over Chicago. A nebula was rapidly forming, and threatened to become a star in the unprecedented time of two of two weeks. The threat was carried out. Within two weeks the nebula had contracted about its nucleus and a new star had appeared, which dimmed all previous stars by its luster. It was promptly named by the knowing ones the "Class of 1906," and its extreme brilliancy was due to the fact that during its nebulous state it had struck and reduced to atoms a former, though less brilliant, star, known as the "Class of 1905." To put it in plain English, the Class of 1906 won its first victory by overcoming the Sophomores in the annual class rush, doing this, too, while the class organization was still in its infancy. When our gigantic president took hold of the class things prospered amazingly, and a few weeks later our football team overcame the bunch of Sophomore stars, with wonderful ease, by the score of 16 to 6. This is the largest score ever made in the history of Armour Freshman-Sophomore football games, and it will remain so until we make it larger the other way, next year. At the game many people asked, "Where is the Sophomore's flag? Why don't they show their colors? Are they ashamed of them?" The questions were exceedingly pertinent, for the

Sophomore's flag, which was so gaily flaunted and so ignominiously hauled down the year before, had been replaced by a brilliant banner of blue and gold, bearing in large figures the magic numerals "06." Incidentally, the flag stayed on the pole for over a month after the game. The Sophomores were not in it at any time of the day. The Freshmen carried everything before them, and all that remained for the Sophomores was the chance of settling down in the ranks of those who have "nothing to do but work" (or loaf).

Meanwhile the Freshmen kept on with their victorious career. The class organization was perfected until now it is the best ever known in Armour. There is no doubt that the class of 1906 is a wonderful aggregation of Armourites in every sense of the word. No class exceeds them in studies, in organization or in class spirit, while in rough house we stand pre-eminent. We have a happy faculty of making the best of things. Didn't we make the "05's" on the fences, sheds and sidewalks into "06's?" The future of Armour is well assured for four years with a class like '06 to develop in that time, and if future Freshmen classes should rise above the mediocre level in which they are usually found, and approach (as a limit) the plane on which we are situated, what a grand institution this would be!


ALVMNI
1903

To Our Alumni

O ye who have gone before us,
Leaving paths which now we tread,
Think again, life not so serious,
Of days when you like us were led
Through this development.

We sometimes wonder (do you blame us ?)
If we'll ever be like you
As we struggle onward, upward,
Toward the heights which crown our view.
Your glory infinite.

Just a list of names inanimate,
What a wealth of knowledge there,
Fame and honor, under graduate,
Yours to make a record, rare
As our Alumni.

Graduates of 1897

At the First Annual Commmencement on June 16, 1897, the Institute conferred the following degrees:

Paul Reed Chapman, B. S. in E. E.
McCormick Manufacturing Co., Des Moines, Iowa.

Edwin Sears Church, B. S. in E. E.
Superintendent of Machinery, United States Mint, Philadelphia, Pa.

Clarence Everett Freeman, B. S. in E. E.
Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill.

Benjamin Howell Glover, B. S. in E. E.
Engineer, Underwriters' Bureau of Fire Protection Engineering, Chicago, Ill.

F. Benson Hall, B. S. in M. E.
The International Register Co., Chicago, Ill.

Bertram Gillette Jamison, B. S. in E. E.
Designer Chicago Edison Co., Chicago, Ill.

Frederick Carter Johnson, B. S. in M. E.
Instructor, Tuskegee Normal School, Tuskegee, Ala.

Neil McIntyre Loney, B. S. in M. E.
Ass't. Master Mechanic, Pennsylvania Co., Ft. Wayne, Ind.

Chas. T. Malcolmson, B. S. in E. E.
Supt. of Power and Power Transmission, Dept. of Machinery, World's Fair, St. Louis.

Gerald Mahoney, B. S. in E. E.
Buena Vista Development Co., Buena Vista, Mexico.

George Leo Matt, B. S. in E. E.
Chief Engineer, Lancaster Electric Light Co., Lancaster, Ohio.

Edward D. O'Brien, B. S. in E. E.
Ward Supt. Third Ward, Chicago Ill.

Isidor Prenner B. S. in E. E.
American Carbide Co., Holstein, Iowa.

Robert Vallette Perry, B. S. in M. E.
Instructor, Armour Institute of Technology, Chicago, Ill.

Ralph Herbert Rice, B. S. in E. E.
Instructor, Electrical Engineering, Armour Institute of Technology, Chicago, Ill.

Erskine Richardson, B. S. in E. E.
The Richardson Co., Grain Merchants, Board of Trade, Chicago, Ill.

Max Salamson, B. S. in E. E.
Rush Medical College, Chicago, Ill.

Francis Delbert Sheibley, B. S. in E. E.
Metropolitan Street Railway Co., New York.

William Fargo Sims, B. S. in E. E.
Engineering Dept. Chicago Edison Co., Chicago.

James Richard Sloan, B. S. in E. E.
Pullman Palace Car Co., Jersey City, N. J.

John Jones Wheeler, B. S. in M. E.
Instructor, Tuskegee Normal School, Tuskegee, Ala.

P. F. Apfel.
Apfel & Murdock Co., Chicago, Ill.
College course not completed at A. I. T.

W. A. Durby.
C. B. & Q. Laboratory, Aurora, Ill.
College course not completed at A. I. T.

Graduates of 1898

At the Second Annual Commencement, on June 22, 1898, the Institute conferred the following degrees in course:

Edgar Emerson Blodgett, B. S. in E. E.
N. British & Merchantile Insurance Co., Chicago, Ill.

Frank Sherman Fairman, B. S. in A.
Died Nov. 11, 1899, Chicago, Ill.

Louis Hequembourg Flanders. B. S. in M. E.
Westinghouse Machine Co., Pittsburg, Pa.

Richard H. Gay, B. S. in E. E.
Engineering Dept. U. S. Senate, Washington, D. C.

Edwin George Hindert, B. S. in E. E.
Cleveland, Elyria & Western Ry. Co., Elyria, Ohio.

Edward Frederick Kappes, B. S. in E. E.
Chicago Telephone Co., Chicago, Ill.

Edward W. Leeper, B. S. in E. E.
Technical Construction Co., Columbus, Ohio.

Harry A. McClyment, B. S. in E. E.
Motive Power Dept. C. B. & Q. Ry., Chicago, Ill.

Donald McKenzie, B. S. in E. E.
Supervising Engineer, Swift Refrigerator Line, Boston, Mass.

George E. Morris, B. S. in A.
With R. E. Smith, Architect, Chicago, Ill.
Edward Harry Nagelstock, B. S. in E. E.
General Electric Co., Schenectady, N. Y.
George H. Patten, B. S. in E. E.
General Electric Co., Schenectady, N. Y.
Charles Harrison Roesh, B. S. in E. E.
Real Estate, Washington, D. C.
Harry Joseph Slaker, B. S. in E. E.
Supt. Refinery, U. S. Mint, Philadelphia, Pa.
Warren E. Weinsheimer, B. S. in E. E.
Chicago Edison Co., Chicago, Ill.
F. S. Wilhoit.
Cutler Hammer Manufacturing Co., Chicago, Ill.
Course not completed at A. I. T.
W. N. Weinacht.
Underfeed Stoker Co., Chicago, Ill.
Course not completed at A. I. T.

Graduates of 1899

At the Third Annual Commencement, on June 21, 1899, the Institute conferred tne following degrees in course.

Alfred Samuel Alschuler, B. S. in A.
With A. K. Adler, Architect, Chicago, Ill.
Arthur James Burr, B. S. in E. E.
Instructor, Manual Training High School, Kansas City, Mo.
Wm. Henry Beatlys, B. S. in E. E.
Cutler Hammer Manufacturing Co., Chicago, Ill.
Sumner Ellis Bippus, B. S. in E. E.
Colorado Springs Electric Light Co., Colorado Springs, Colo.
Sidney Thomas Corey, B. S. in E. E.
American Bridge Co., Lasssig Plant, Chicago, Ill.
Louis Elliott, B. S. in E. E.
Pratt & Atkins, Engineers, Chicago, Ill.
Samuel Clarkson Fiddyment, B. S. in E. E.
Cosmopolitan Electric Co., Chicago, Ill.
Albert Homer Goodhue, B. S. in M. E.
A. H. Barber Manufacturing Co., Chicago, Ill.

William James Gordon, B. S. in M. E.
Chief Engineer, Illinois State Reformatory, Pontiac, Ill.

George Kojiro Hanai, B. S. in E. E.
H. S. Tanaka & Co., Shinbaski, Tokyo, Japan.

Ray Simeon Huey, B. S. in E. E.
Moore Pneumatic Crane Plant, Cleveland, Ohio.

Ernest Conover Johnson, B. S, in E. E.
McCormick Harvesting Machine Co., Chicago, Ill.

Morris Wisner Lee, B. S. in M. E.
Advertising Manager, Hill, Clarke & Co., Chicago, Ill.

Charles Tobias Lewis, B. S. in M. E.
Link Belt Machinery Co., Chicago, Ill.

Louis Frank Mahler, B. S. in E. E.
DeLaval Steam Turbine Co., New York.

Oscar Bernard Marienthal, B. S. in A.
Architectural Draftsman, Chicago, Ill.

Will D. Matthews, B. S. in E, E.
Inspector, The Insurance Survey Bureau, Chicago, Ill.

Charles Sumner Morse, B. S. in E. E.
Master Car Builder, Wheeling & Lake Erie Ry., Toledo, Ohio.

Elmer H. Olson, B. S. in E. E.
A., T. & S. F. Ry., Guthrie, O. T.

William Blanxius Pavey, B. S, in M. E.
Davis-Larkin Co., Contractor, Chicago, Ill.

Louis Irving Porter. B. S. in E. E.
Chicago Edison Co., Chicago, Ill.

Horace Swett Powers, B. S. in A.
Nimmons & Fellows, Chicago, Ill.

Chauncey Owens Ransom, B. S. in E. E.
Fidelity & Casualty Co., Cleveland, Ohio.

Bela de Rinansczy, B. S. in E. E.
Siemans & Halske Co., Budapest, Hungary.

Carl Paul Schroeder, B. S. in E. E.
Sargent & Lundy, Chicago, Ill.

Benedict Shubart, B. S. in M. E.
Link Belt Machinery Co., Chicago, Ill.

Edd Vincent Starkweather, B. S. in E. E.
Western Assurance Co., Toronto, Canada.

Clarence Lyle Tarbell, B. S. in M. E.
Whitman & Barnes Manufacturing Co., West Pullman, Ill.

Otis Norman Terry, B. S. in M. E.
Locomotive Inspector, C., B. & Q. Ry., Chicago, Ill.

Frederick Wight Twitchell, B, S. in E. E.
Crane Co., Chicago, Ill.

William Warren, B. S. in E. E.
Died May 13, 1900.

Ernest Cantelo White, B. S. in M. E.
Manufacturer's Agent, Launches, Yachts, etc., New York.

Graduates of 1900

At the Fourth Annual Commencement, on June 16, 1900, the Institute conferred the following degrees in course.

Tyford Conrad Bradley, B. S. in M. E.
McCormick Harvester Co., Chicago, Ill.

Mrs. Mildred Wadsworth Campbell, B. S. in C. E.
McDonald & Co., Structural Engineers, Chicago, Ill.

Andrew Thompson Creelman, B. S. in E. E.
Western Union Telephone Co., Los Angeles, Cal.

William Tucker Dean, B. S. in E. E.
Chief Electrician, Illinois Steel Works, South Chicago, Ill.

Charles Henry Fisher, B. S in E. E.
Texas Inspection Bureau, Dallas, Texas.

Charles Augustus Garcelon, B. S. in M. E.
Graduate Student, Columbia University, New York.

Herman Walter Graff, B. S. in E. E.
Westinghouse Electric & Manfg. Co., Wilmerding, Pa.

Dean Harvey, B. S. in E. E.
Underwriters' Bureau of Fire Protective Engineering, Chicago, Ills.

Herman Haussmann, B. S. in E. E.
Chicago Edison Co., Chicago, Ill.

George Fowler Hayden, B. S. in E. E.
Insurance Survey Bureau, Chicago, Ill.

Charles Sumner Longnecker, B. S. in E. E.
Delta Electric Light Co., Delta, Ohio.

Frank Yates Low, B. S. in E. E.
Ass't, Chief Electrician, Illinois Steel Co., South Chicago, Ill.

Robert Cloughan Martin, B. S. in E. E.
Chicago Fire Underwriters Association, Chicago, Ill.

Max Sklovsky, B. S. in E. E.
Deere & Co., Moline, Ill.

Fitzhugh Taylor, B. S. in E. E.
Underwriters' Bureau of Fire Protective Engineering, Chicago, Ill.

John Henry Tousley, B. S. in E. E.
Chicago Fire Underwriters' Association, Chicago, Ill.

Frederick Peter Walther, B. S. in E. E.
Insurance Survey Bureau, Chicago. Ill.

Vernon Spencer Watson, B. S. in A.
D. H. Burnham & Co , Chicago, Ill.

Frederick William Zimmerman, B. S. in E. E.
Delaware, Lackawanna & Western R. R., Scranton, Pa.

Graduates of 1901

At the Fifth Annual commencement on June 19, 1901, the Institute conferred the following degrees in course:

Mark H. Arnold, B. S, in E. E.
Ohio Brass Co., Mansfield Ohio.

Charles A. V. Axen, B. S. in M. E.
C. & N. W. R. R.—40th Street Shops, Chicago, Ill.

Earl Head Baker, B. S. in M. E.
Engineering Dept., National Biscuit Co., Chicago, Ill.

Frank Hugo Bernhard, B. S. in E. E.
Instructor in Electrical Engineering, Armour Institute of Technology, Chicago, Ill.

Louis Cohen, B. S. in E. E.
Graduate Student, W. of C., Chicago, Ill.

Charles Edward Eustice, B. S. in E. E.
Link Belt Machinery Co., Chicago, Ill.

Fred A. Krehbill.
Arnold Electrical Power Station Co., Chicago, Ill.
College course not completed at A. I. T.

Walter Irving Lewis, B. S. in M. E.
Secy. and Treas. Jackson Hill Coal Co., Cleveland, Ohio.

Fritz Albin Lindberg, B. S. in E. E.
Geo. M. Brill, Engineer, Chicago, Ill.

Walter Everett Miller, B. S. in E. E.
Chicago Edison Co., Chicago, Ill.

Alden Charles Noble, B. S. in E. E.
Inspector, Insurance Survey Bureau, Chicago, Ill.

John Henry Parker,
Western Union Telephone Co., Chicago, Ill.

Francis Gladheim Pease.
Assistant Mechanican, Yerkes' Observatory, Williams Bay, Wis.

Charles Warner Pierce, B. S. in Chem. E.
Chief Engineer, Tuskegee Normal School, Tuskegee, Ala.

Walter Raymond Rengnitz, B. S. in E. E.
Featherstone Foundry & Machinery Co., Chicago, Ill.

Oscar Anthony Rochlitz, B. S. in E. E.
Instructor, Electro Chemistry, Armour Institute of Technology, Chicago, Ill.

Herbert Rosenthal.
Arnold Electric Power Station Co., Chicago, Ill.
College course not completed at A. I. T.

John Burnett Swift, B, S. in E. E.
Pierce, Richardson & Neiler, Engineers, Chicago, Ill.

Graduates of 1902

At the Sixth Annual Commencement, on June 20, 1902, the Institute conferred the following degrees in course:

Arthur Henry Anderson, B. S. in M. E.
Fairbanks Morse Co., Beloit, Wis.

Miss Lulu Clarissa Austin, B. S. in A.
Architect, Williamson, N. Y.

Manley Frank Baird, B. S. in E. E.
Lake Street "L" Sub Station, Chicago, Ill.

Miss Adelaide Eunice Benham, B. S. in A.
Architect, Chicago, Ill.

Marion Wallace Briggs, B. S. in E. E.
The F. Bissell Co., Toledo, Ohio.

Walter Thomas Charles, Ph.B., B. S. in Chem. E.
Instructor in Chemistry, Armour Institute of Technology, Chicago, Ill.

Ward Olive Collins, B. S. in Chem. E.
R. W. Hun. & Co., Chicago, Ill.

Benjamin Franklin Eyer, B. S, in E. E.
Instructor, Electrical Engineering, Kansas State Agricultural College, Manhattan, Kan.

Malcolm Canmore Fairweather, B. S. in E. E.
Buckeye Electric Co., Cleveland, Ohio.

Ernest Harrison Freeman, B. S. in E. E.
Instructor, Electrical Engineering Dept., Armour Institute of Technology, Chicago, Ill.

Henry Russell Harbeck, B. S. in C. E.
D. E. Hill Construction Co., Chicago, Ill.

Roscoe Burnett Harris, B. S. in E.
Mexican Central R. R., City of Mevico.

Edward Thomas Harwood, B. S. in E. E.
Residence 3741 Eilis avenue, Chicago, Ill.

Roy Manwaring Henderson, B. S. in E. E.
Clark & Henderson, Tribune Bldg., Chicago.

Roland M. Heskett, B. S. in E. E.
G. W. Knox, Consulting Engineer, Chicago, Ill.

William Haney Lang, B. S. in E. E.
Deering Harvester Co., Chicago, Ill.

Frederick George Larkin, B. S. in E. E.
Schwartzchild & Sulzberger Co., New York.

Elijah Lewis, B. S. in E. E.
General Electric Co., Schenectady, N. Y.

Edward Stephen Libby, B. S. in M. E.
National Pkg Co., East St. Louis, Ill.

Eugene William Lilienfield, B. S. in E. E.
Lilienfield Bros. & Co , Chicago, Ill.

Harry Palmer Miller, B. S. in E. E.
General Eletric Co., Schenectady, N. Y.

Ivan Dunlap Miller, B. S. in C. E.
With Ralph Modjeski, Chicago, Ill.

Charles McLean Moss, B. S. in E. E.
Westinghouse Co., Pittsburg, Pa.

Henry Leopold Nachman, B. S. in M. E.
Fairbanks Morse Co., Beloit, Wis.

Victor Smith Persons, A. B., B. S. in C. E.
South Illinois & Missouri Bridge Co., Thebes, Ill.

Berkely King Postlethwaite, B. S. in M. E.
Mc Cormick Harvesting Machine Co., Chicago, Ill.

Robert George Reiniger, B. S. in M. E,
Uewago Portland Cement Co., Uewago, Mich.

Louis Averill Sanford, B. S. in E. E.
Guanajnoto Light & Power Co., Zamora, Mexico.

Oscar Scheidler, B. S. in M. E.
Newark, Ohio.

Samuel Edward Schafer, B. S. in M. E.
Comparria Mineral Penoles, Mapimi, Durango, Mexico.

Ernest LeRoy Wallace, B. S. in E. E.
Westinghouse Electric & Mfg. Co., Tutle Creek, Pa.

John Elmer Week, B. S., in E. E.
Died.

Records Class of 1902

ARCHITECTS.

Miss Lulu C. Austin, Chicago; prepared at Rochester Free Academy.

Miss Adelaide E. Benham, B.A., Cortland, New York; prepared at State Normal School, Cortland, New York; graduated from Cornell University.

CHEMICALS.

Walter Thomas Charles, Chicago; born in Chicago, June 2, 1878; prepared at Chicago Manual Training School and Phillips Academy, Andover, Mass.; graduated from the Sheffield Scientific School of Yale University, and entered Armour Institute in 1901.

Ward O. Collins, Phi Kappa Sigma, Evanston, Ill.; born in Knoxville, Iowa, May 18, 1879; prepared at Evanston High School and Armour Scientific Academy. Prominent member of the Technical Society, and served on the U. S. S. Oregon during the Spanish-American war.

CIVILS.

Harry Russell Harbeck, Delta Tau Delta, Albany, New York; born in Albany, December 4, 1879; prepared at Albany High School and Armour Scientific Academy. Social editor of *The Fulcrum*, assistant editor of THE INTEGRAL, and four years a member of the Mandolin and Glee Club.

Ivan Dunlap Miller, Chicago; born in Chicago, July 28, 1877; prepared at Englewood High School. Distinguished himself in college track athletics.

Victor S. Persons, A.B., Tiffin, Ohio; born in Ashland, Ohio, Dec. 5, 1878; prepared at Ohio Wesleyan Academy; graduated from Ohio Wesleyan University, and entered Armour Institute in 1899.

ELECTRICALS.

Manley Frank Baird, Chicago; born in Chicago, January 23, 1880; prepared at the John Marshall High School. Contributed talent to the Mandolin Club, and was prominent in athletics as a baseball player.

Marion W. Briggs, Phi Kappa Sigma, Delta, Ohio; born in Delta, Ohio, August, 1877; prepared at Delta High School and Armour Scientific Academy. The Photographic Society boasts of him as a member; also attained fame as Class Sergeant-at-Arms, 1902.

Benjamin Frankiin Eyer, Manhattan, Kansas; born in Toronto, Can-

ada. January 10, 1868; prepared at Morrill Academy, Washburn College and the University of Chicago.

Malcolm C. Fairweather, Chicago; born in McLane, Pennsylvania, August 31, 1878; prepared at the Meadville (Pennsylvania) High School and Hyde Park High School. As a class athlete he did creditable work, and likewise lent his skill to the Photographic Society.

Ernest Harrison Freeman, Chicago; born in North Topeka, Kansas, September 26, 1876; prepared at the Kansas State Agricultural College and Kansas State Normal School. Won distinction as the designer of the class pin.

Edward T. Harwood, Chicago; born in Orlando, Ill., January 23, 1878; prepared at Valparaiso (Indiana) High School. Vice-president of the class of 1902, and a most loyal member of the T. T. T. Club.

Roy Manwaring Henderson, Phi Kappa Sigma, Chicago; born in Willoughby, Ohio, February 2, 1879; prepared at the Kansas City High School and Armour Scientific Academy. President of the class in 1898–99. His connection with *The Fulcrum* and THE INTEGRAL BOARD, together with his work as leader and Manager of the Mandolin Club, shows an enviable record.

Rollo M. Heskett, Phi Kappa Sigma; born in Green Bay, Wisconsin, February 3, 1871; class treasurer, 1901.

William H. Lang, Chicago; born in Indianapolis, Indiana, July 6, 1880; prepared at Armour Scientific Academy. President of the class in 1899–1900, and member of THE INTEGRAL BOARD.

Frederick George Larkin, Phi Kappa Sigma, Tongaloo, Mississippi; born in Ottery St. Mary, England, February 22, 1880; prepared at Mount Hermon, Massachusetts, and Armour Scientific Academy. Manager of *The Fulcrum*, manager of Glee and Mandolin Club, and president of the class in 1900–1901.

Elijah Lewis, Chicago; born in Linden, Wisconsin, April 30, 1881; prepared at the English High aud Manual Training School. Prominent in class athletics.

Eugene W. Lilienfeld, Chicago, born in Chicago, December 7, 1881; prepared at St. John's Military Academy, Delafield, Wis. Resourceful and energetic in the management of social functions.

Harry Palmer Miller, Tecumseh, Nebraska; born at Centropolis, Kansas, July 11, 1875; prepared in the Tecumseh High School. Prominent member of the Technical Society and Class Track and Basket Ball teams. Noted for the promotion of class spirit and enterprise. Class Treasurer, 1902; Class Secretary, 1901.

Charles MacLean Moss, Chicago; born in Chicago, October 21, 1880;

prepared at Princeton-Yale School and University of Chicago. Literary editor of *The Fulcrum* aud editor of THE INTEGRAL. Active in the promotion of class spirit and in the development of the social side of college life. Class President, 1902.

Lewis A. Sanford, Chicago; born in Calhoun county, Iowa, 1878; prepared at the Cedar Rapids High School. Earnest member of the T. T. T. Club.

Ernest LeRoy Wallace, Chicago; born in Chicago, March 20, 1879; prepared at Armour Scientific Academy and Michigan College of Mines. Conspicuous in the T. T. T. Club, and useful member of the social committee.

John E. Week, Stevens Point, Wisconsin; born in Lake Mills, Iowa, May 26, 1882; prepared at State Normal School, Stevens Point, and Chicago Manual Training School. Diligent member of the Mandolin Club.

MECHANICALS.

Arthur Henry Anderson, Chicago; born in Chicago, October 4, 1876; prepared at English High and Manual Training School. Class Secretary, 1902.

Roscoe Burnett Harris, Chicago; born in Clay City, Indiana, January 11, 1881; prepared at South Division High School. Popular and eminent member of the T. T. T. Club.

Edwin S. Libby, Chicago; born in Portland, Maine, February 18, 1879; prepared at English High and Manual Training School. Valued member of the College Base Ball and Basket Ball teams.

Henry L. Nachman, Chicago; born in Sommerfeld, Germany, March 25, 1879; prepared at Chicago High Schools.

Berkley K. Postlethwaite, Prescott, Wisconsin; born at Prescott, Wisconsin, October 25, 1880; prepared at Prescott High School. Prominent member of Technical Society.

Robert George Reiniger, Jr., Phi Kappa Sigma, Chicago; born in Charles City, Iowa, May 19, 1880; prepared at Charles City High Schoo! and Armour Scientific Academy. Active member of the Photographic and Technical Societies. Assistant editor of THE INTEGRAL, and manager of the Mandolin Club, 1901.

Oscar Scheidler, Delta Tau Delta, Newark, Ohio; born in Newark, Ohio, December, 1876; prepared at the Newark High School, Technical School of Cincinnati, and Armour Scientific Academy. Leader of the Mandolin Club 1900, and charter member of the Zeta Chapter Mu Delta Sigma Fraternity.

Samuel E. Shafer, Jr., Phi Kappa Sigma, Cedar Rapids, Iowa; born July 28, 1878; prepared at the Cedar Rapids High School.


ACADEMY
·N.P.HALL·03·

"Class of 1903," A. S. A.

Officers:

President, BLAKE C. HOOPER

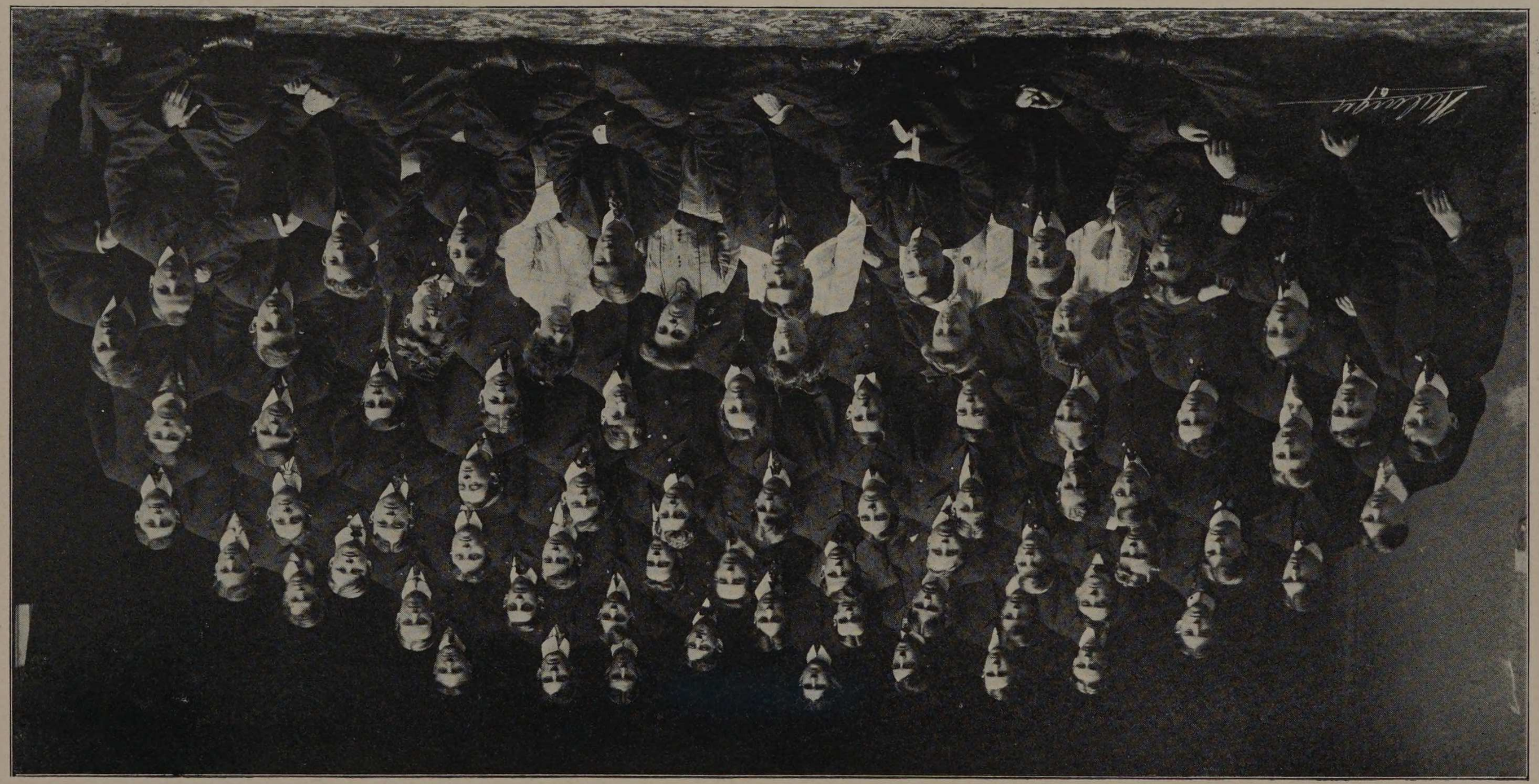
Vice-President, DOUGLAS FERRY Secretary, H. RALPH BADGER

Treasurer, SIDNEY JAMES

Class Colors: Crimson and Gold.

Members of the "Class of 1903."

Abel, F.
Arnold, G. M.
Badger, H. R.
Boemer, A. H.
Born, E.
Bremer, H.
Broughten, L.
Burdick, H.
Chambers, F. A.
Cross, A. J.
Dearborn, O. K.
Doane, G. H.
Ehretsman, J. L.
Elkin, M.
Everheart, W.
Ferry, D. H.
Forsyth, Miss J.
Foster, S.
Furry, W.
Gaither, Miss N.
Geist, A.
Gilbert, R.
Hackett, J. L.
Hamlin, H.
Hayes, C. E.
Heimerdinger, C. C.
Henning, C. S.
Hoffman B. Jr.
Hoffman, B.
Hooper, B. C.
Huleatt, H.
James, S.
Kerber, H.
Kettler, F.
Krowell, A.
Lehman, W.
Lowenstein, W.
Lccius, E. B.
McHugh, C. G.
Maher, L. W.
Maris, A. M.
Marx, J. H.
Matchett, J. C.
Michaelis, F. G.
Osborne, E. B.
Pacyna, A.
Pickett, J. C.
Pierce, Miss F.
Preston, R. M.
Reitler, I. J.
Ringo, Miss E. B.
Rosenfield, L.
Salinger, L. P.
Salsbury, E.
Schermerhorn, W. E.
Schoger, L. E.
Schaffner, P. F.
Shepherd, H. R.
Smith, C. U.
Smith, M. W.
Spencer, E. W.
Stanten, G.
Townsend, J. S.
Twining, H. A.
Vredenburg, C.
Wendt, H. L.
Whalon, T. F.
Wight, R. A.
Wilkens, W.
Wilson, J. P.
Wolfe, E. J.



ASA SENIORS 1903

THE present Senior Class of the Academy has had for the most part an eventful career. It is practically a combination of the class that entered the Academy in 1899 and the one that entered in 1900.

Our Freshman year experienced little else than numerous debates (?) and battles in the good old basement lunch-room, and we who are now Seniors longingly look back to those Freshmen days when class spirit ran high.

In the early part of October, 1900, the class was organized and the following officers were elected: Mr. Bloom, President; Mr. Bodine, Vice-President; Miss Ketmham, Secretary, and Miss Wormser, Treasurer. Not long after Mr. Bloom resigned. Mr. Bodine was elected to his place and Mr. Wooley was elected Vice-President. At the beginning of the Winter term officers were again chosen, the only change being Mr. Polachek for Mr. Wooley as Vice-President. Later the former resigned and Mr. Adler was elected to his place. From this time until the Spring term class spirit was at a standstill. But as the days grew longer and the gentle Summer breezes began to melt the Winter's frost, enthusiasm in the class of '03 rose, and finally culminated in the forming of a baseball team whose equal the Academy has never

seen. Its striking victory over '02 is a never-to-be-forgotten incident of our Sophomore school days.

In the middle of our Junior year the class, with Mr. Ehretsman as President, presented Mr. Brewster with a Christmas present. On February 6, 1902, we reorganized, electing Mr. Blenkinsopp, President; Mr. Hooper, Vice-President; Mr. Guy, Secretary; Mr. Ferry, Treasurer, and Mr. Salinger, Fulcrum Representative. The object of this reorganization was to give a dance to the then Senior class. This we did, and despite the fact that bad weather prevailed on the chosen evening, over one hundred couples assembled at the Oakland Club on the evening of May 23 and danced away many pleasant hours to the strains of Goldsmith's orchestra. This year many of our former members graduated, having taken a three years' course.

At last we are Seniors, and before us we have the busiest year of our existence. Besides intending to give a "Senior Prom" about graduation time, also to leave a most appropriate gift to the school, we are already working out plans to give "A Knight in Armour" for the benefit of our class treasury. This year Mr. Hooper is our President; Mr. Ferry, Vice-President; Mr. Badger, Secretary, being elected in place of Miss Hendrickson, who resigned that office; Mr. James, Treasurer, and Messrs. Vredenburg and Salinger, Fulcrum Representatives. Mr. Badger and Mr. Smith were appointed representatives of the class to THE INTEGRAL BOARD.

We chose our class pin at a very exciting meeting held in December, at which there was an exceptionally large attendance.

Rivalry between our class and that of '04 is constantly growing stronger, and before the year is over many exciting contests between classes are looked for.

In the realm of literature '03 has set its stamp of success. Our representatives to The Fulcrum have acquitted themselves with great honor both to the class of '03 and to the school at large. This year the class has furnished the three members of the Academy Debating Team,

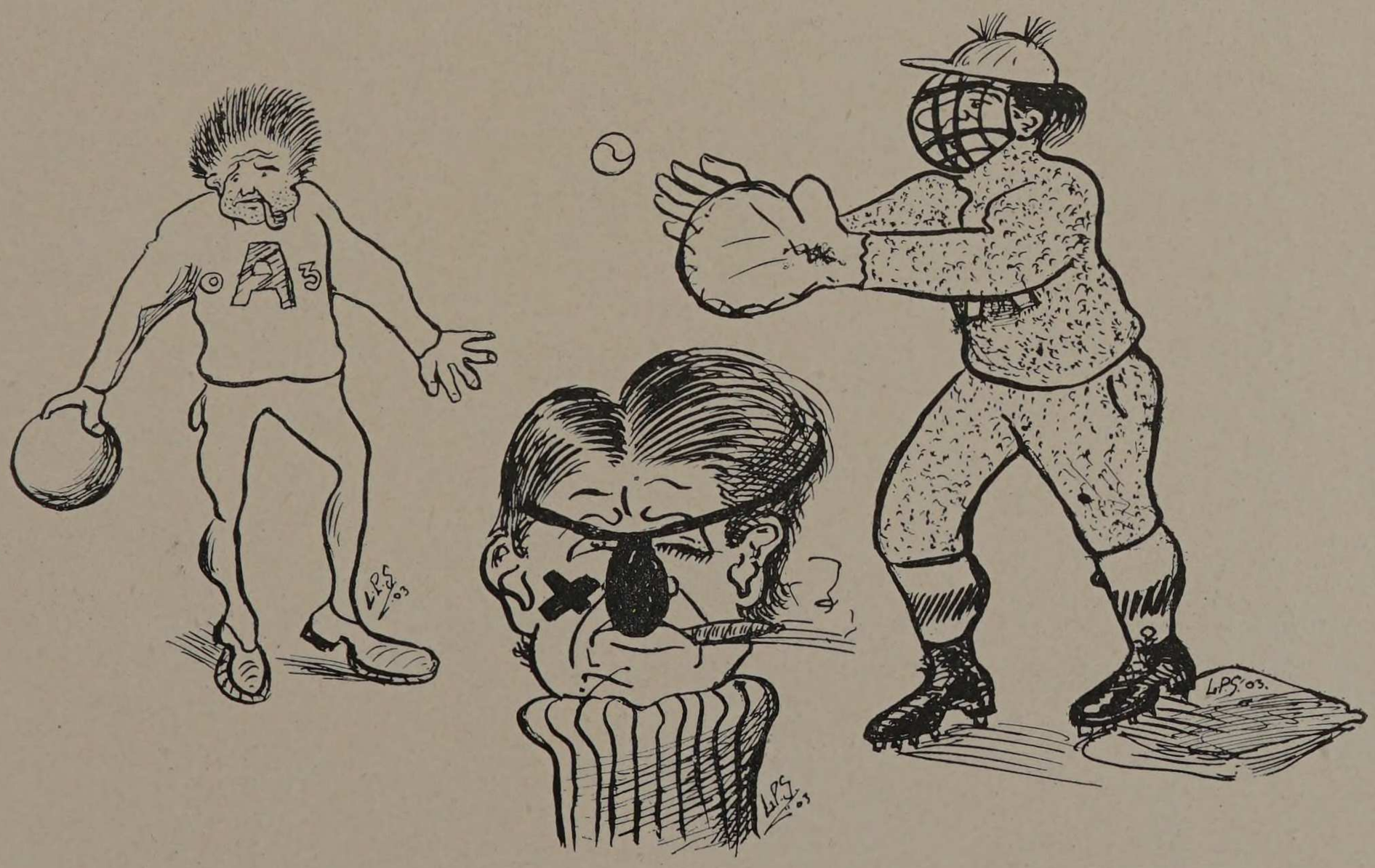
which has already defeated Northwestern, and which is now hard at work preparing for Morgan Park.

'03 will be the last class to graduate from Armour with representatives of the fair sex among its number. When we are gone co-education in Armour will have become a dream of the past. Our "sextette" of girls is all that is left to remind us that boy and girl once dwelt here upon equal footing.

We, the class of 1903, so soon to bid farewell to thee, Oh! Armour! extend our sincere thanks both to the Faculty and to our fellow students for the many kindnesses that they have shown us. It is with a feeling of regret that we leave these beloved halls. But ever will we carry with us a fond and lasting love of our Alma Mater.

Take down the history of the Armour Academy, scan its pages as carefully as you will, and nowhere in it will you find a trace of a class that has been so successful in everything as has the Class of '03.

H. R. Badger, '03,
Class Historian.



Class of '04, A. S. A.

Officers.

W. R. Robbins, President.
M. Q. Brunton, Vice President.
W. Trinkaus, Secretary.
H. W. Martin, Treasurer.
R. Harrold, Sergeant-at-Arms.
J. Nihleau, Fulcrum Representative.
J. A. Benjamin and H. S. Wilson, Integral Representatives.

Class of '04, A. S. A.

D. Babcock.
J. A. Benjamin.
L. Beveridge.
L. C. Brintnall.
M. Q. Brunson.
T. Brush.
M. Buehler.
R. D. Buell.
P. N. Collins.
T. E. Collins.
L. S. Cone.
W. A. Covert.
K. N. Critchfield.
H. M. Cummings.
H. S. Duryee.
R. A. Duff.
C. Edelstein.
A. Eisner.
W. F. Geist.
H. V. Glos.
M. Goldsmith.
S. G. Grace.
J. S. Hull.
B. G. Haglind.
G. S. Whitehead.
R. L. Harrold.
J. B. Hofheimer.
N. P. Henry.
H. A. Ingram.
F. J. Lander.
E. H. Levi.
W. C. Lockwood.
M. S. Levy.
T. D. McCreery.
S. McHenry.
A. E. Manheimer.
A. E. Martin.
H. W. Martin.
E. T. Miller.
J. Monahan.
W. C. Morgan.
H. P. Matthay.
P. W. Munson.
J. E. Nilean.
H. M. Orschel.
H. Ostergren.
K. G. Ostergren.
C. S. Packer.
N. Perkins.
V. S. Riesenfeld.
W. Robbins.
P. H. Rice.
G. H. Sammons.
F. G. Schmick.
J. W. Schram.
O. H. Schrader.
T. G. Slawson.
R. L. Slosson.
W. W. Solomon.
H. Sontag.
M. L. Strauss.
S. A. Souther.
L. Simonson.
D. S. Thompson.
J. F. Tichy.
W. Trinkaus.
M. Vanderkloot.
M. P. Vore.
M. A. Ward.
E. G. West.
H. S. Wilson.
H. Wright.

History of Class of '04, A. S. A.

ABOUT a year ago Mr. Brewster suggested to his Freshmen algebra class that they form a class organization. The idea was received with enthusiasm by the boys and they set to work to form what is now known as the class of '04. Mr. Brewster was kind enough to preside over the first two or three meetings and help set the class firmly on its feet. In appreciation of his kind work we have elected him an honorary member of the organization.

Mr. Forsyth was elected the first class president, in which capacity he served during the spring term. The boys realized that a constitution was a necessity in order to have a well-governed organization and thereupon appointed Messrs. D. Babcock, H. Martin and O. Schrader to draw one up. At the next meeting they submitted to the class a constitution which, after being amended a little, was accepted by the class. In writing it the committee showed themselves to have a thorough knowledge of a class organization. This is about all of importance that happened in the history of the class last year.

Soon after the beginning of this school year a class meeting was called for the purpose of electing new officers. Mr. Wm. Robbins was elected president. We have started in this year to make our class organization a model and well regulated one. The purpose of it, as expressed in the preamble of our constitution, is "to bring about a closer acquaintance and to uphold its standards against all opposition."

It was decided this year to charge dues every term, and considering that only one term's dues have been collected, the class is, finan-

cially, very well situated, having almost fifty dollars in the treasury. The class colors are blue and white.

There are large attendances at every meeting, and whenever there is a question before the class there is sure to be some lively discussions. This shows that we have a great deal of class spirit. But while we have class spirit we do not allow our school spirit to lag behind. At every foot-ball, base-ball and basket-ball game and at the debate the '04 class turned out in large numbers. We are also well represented on all the athletic teams.

Preparations are now under way for the dance, which, according to the custom of the school, is to be given to the graduating class. It is our intention to make it the most brilliant and successful dance in the annals of Armour Scientific Academy. The dance will, most likely, take place about April. We also intend to have an '04 theater party later in the year.

The membership is constantly increasing, and the prospects are that we will have the largest and best organized class of any that has graduated from Armour Scientific Academy.

JACK A. BENJAMIN.

The Academy in Retrospect

GREAT men, like great mountains, can best be appreciated at a distance. To realize fully their graudeur and majesty, one must stand many paces from these towers of Nature. So, also, to judge properly of institutions it is better that time should have elapsed to rectify judgment. And as one looks back, each change seems to be strickingly significant.

In retrospect, the Academy furnishes a good subject for contemplation by an Alumnus.

In the first place it is interesting to note to what extent the Academy has proved a preparatory school for prospective "tech." students. How large a percentage of an Academy graduating class takes rank the following year in the freshman class of the College ? It is highly pleasing to record that a larger number enters our own College than any other; and this in spite of the fact that two large universities are in the immediate neighborhood. In 1899, the graduating Class of the Academy sent 75 per cent of its men to A. I. T. and, although not all of them adhered to the engineering courses, a goodly number will be recognized at the commencement taking their B. S. degrees. The Class of 1900 also con-

tributed many members to the Freshman Class, which enrolled in College the following fall. While fewer 'oo men went to the "tech." than had gone from '99, a larger proportion of that class remained in college than of the class the previous year. To the credit of the class of 1901, it may be said that it sent more men into the college than any previous Academy class. Nor has 1902 failed to interest its members while in the Academy in the "tech.," and has consequently furnished 40 per cent of last year's freshman class.

These are facts that speak in highest terms of the Academy. They emphasize a truth not generally known, that Armour has the only truly scientific preparatory school in the west.

In the second place, it is interesting to note that while the Academy heretofore was operated on the basis of prescribed courses, covering in almost every case four years' attendance, the requirements for graduation now demand sixty credits, in a measure elective. The abolition of co-education has resulted in further changes, each of which indicates a desire to link the Academy and College courses of instruction more closely to one another.

Finally, an alumnus finds much source of enjoyment in observing that many former Academy students have become leaders in college affairs. Fraternities have found much eligible material in students who have just come up from the lower department. The moving spirits in

setting new projects on foot, are usually men who have received similar training in their Academy days. In class societies "the powers that be" are usually none other than those who figured prominently in Academy enterprises.

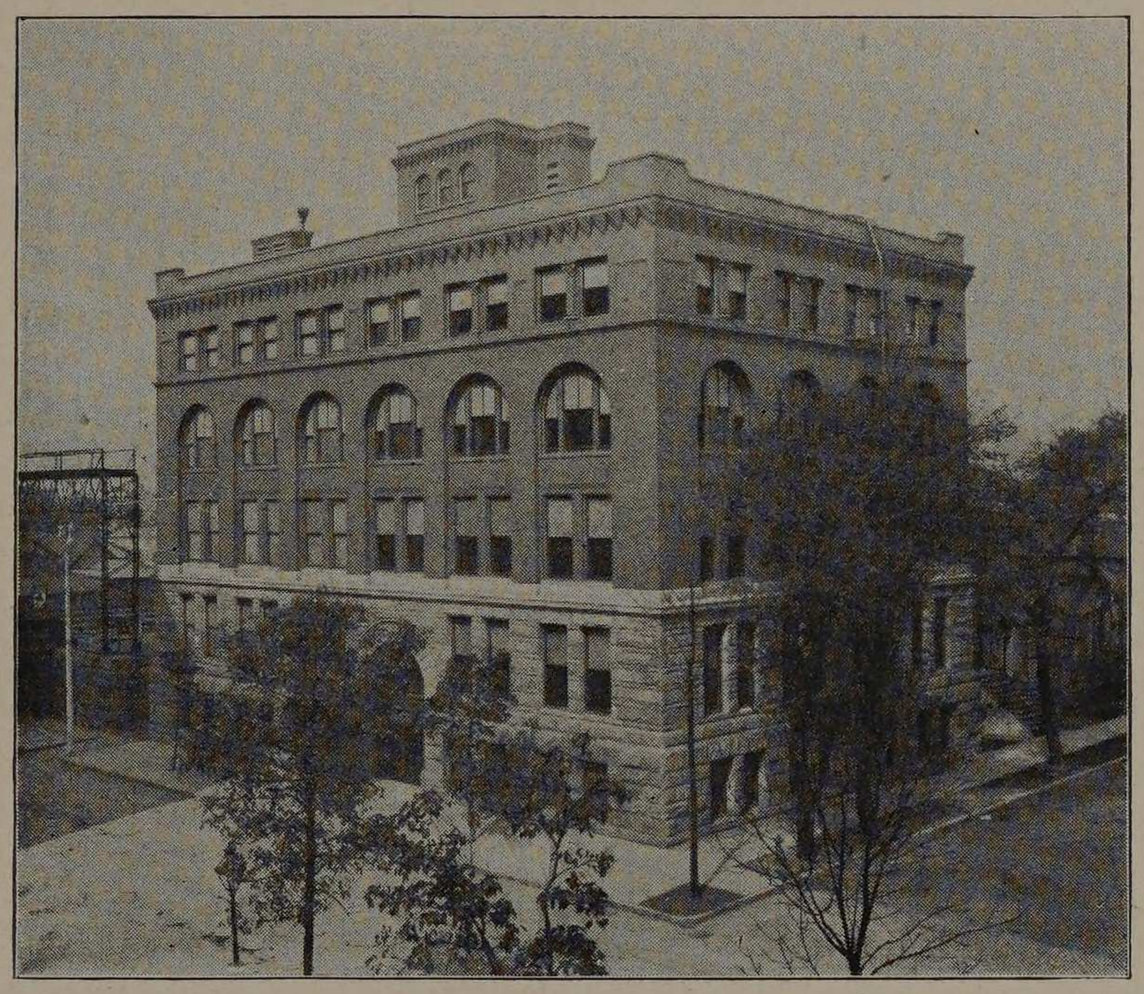
Thus, the class of 1899 has contributed to the student activities of the College such men as W. C. Philips, R. S. Draper and W. C. Matthews, Louis Byrne, Arthur Jens, Herbert Zuckermann, James Crawford and Edwin J. Hiller are products of the class of 1900. To the glory of the class of 1901, are to be ascribed the executive ability of Barton Sackett, the intellectual superiority of R. L. Slimmer, and the athletic prowess of Charles Hermann. Although still in their freshman year, a number of the graudates of 1902 have done credit to the College.

In retrospect, then, the record of the Academy is gratifying.

The Growth of the Institute

THE growth of the Institute during the past two years may be viewed from four different standpoints: the increased rigor and thoroughness of the established courses, the physical changes in laboratories and shops, the broadening of the work of the Institute, and the increased number of students. Students of Armour do not need to be told that the faculty are at all times seeking to make the different courses as efficient as possible. With each new revision it seems that the best possible arrangement has been effected, but, as time goes on, better ideas prevail and a higher standard is established. On the part of the Faculty increased zeal is shown in searching out students who are afflicted with "spring fever," and a cure frequently results. All in all, the scholarship of the college in steadily growing better.

Within the past year the physical changes have been so numerous that alumni have called at the office and asked jokingly for a guide. The old Machinery Hall has now become partly a lunch room and partly a dynamo laboratory. The engine room has been extended the full width of the building in order to give room for the new 75 H. P. compound engine which was built by the Allis-Chalmers Company, at Milwaukee, Wisconsin, and which was installed in April this year.



MACHINERY HALL.

This engine was the largest purchase made by the institute during the present year, and will furnish an abundance of experimental work of an engineering character. The Registrar outgrew his quarters in the basement and moved to the northwest corner of the Mission Building, leaving his old office to be used as a Cement Laboratory. The old Pattern Shop has been refitted as a Hydraulic Laboratory. The Gas Engine Laboratory has been moved from the Mission Building to a fire proof room in the New Machinery Hall. The room in the Mission Building left vacant by the removal of the Dynamo Laboratory has been refitted as a Drafting Room for Juniors and Seniors.

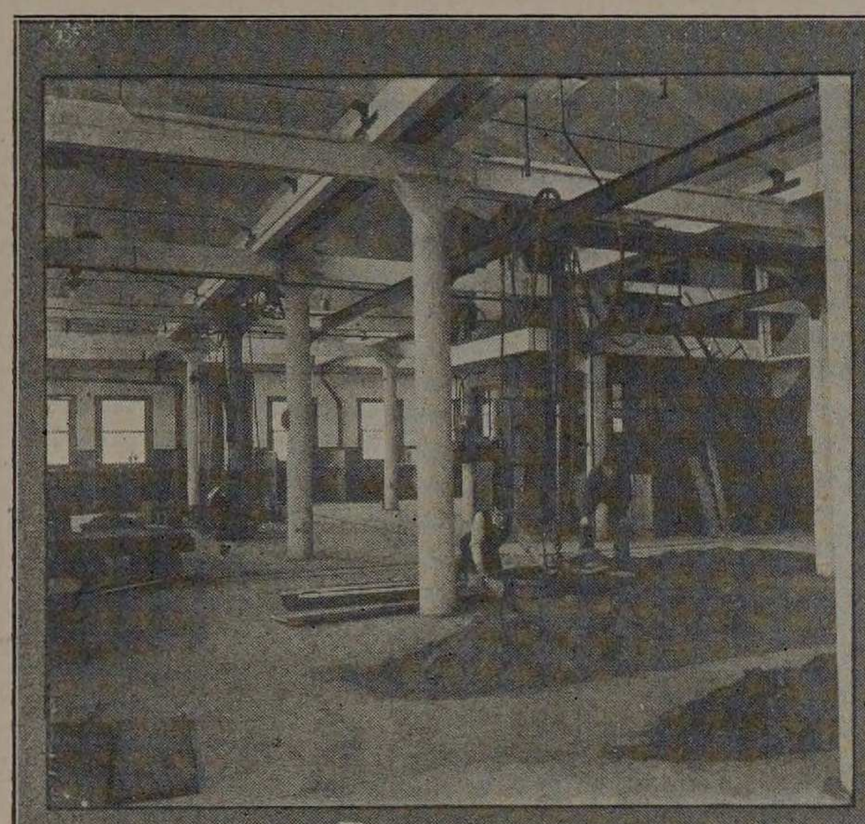
The building of the New Machinery Hall is the greatest step Armour has lately made. In general appearance it is like the main building, being built of pressed brick and red sandstone. It is four stories high and has a shop on each floor. On the first floor is the Forge and Pipe Fitting Shop, on the second floor the Machine Shop, on the third floor the Pattern Shop, and on the fourth floor the Foundry. It is needless to describe in detail the equipment. Suffice it to say that Mrs. P. D. Armour and Mr. J. Ogden Armour expended nearly $200,000.00 in erecting and equipping this building. Those best prepared to give an opinion, as the result of careful observation and travel, say that nowhere in this country or in Europe is there a shop building connected with a technical school more carefully planned, better equipped, or better adapted to its purpose than our new Machinery Hall.


FORGE SHOP
MACHINE SHOP
MACHINE SHOP
WOOD SHOP
FORGE SHOP

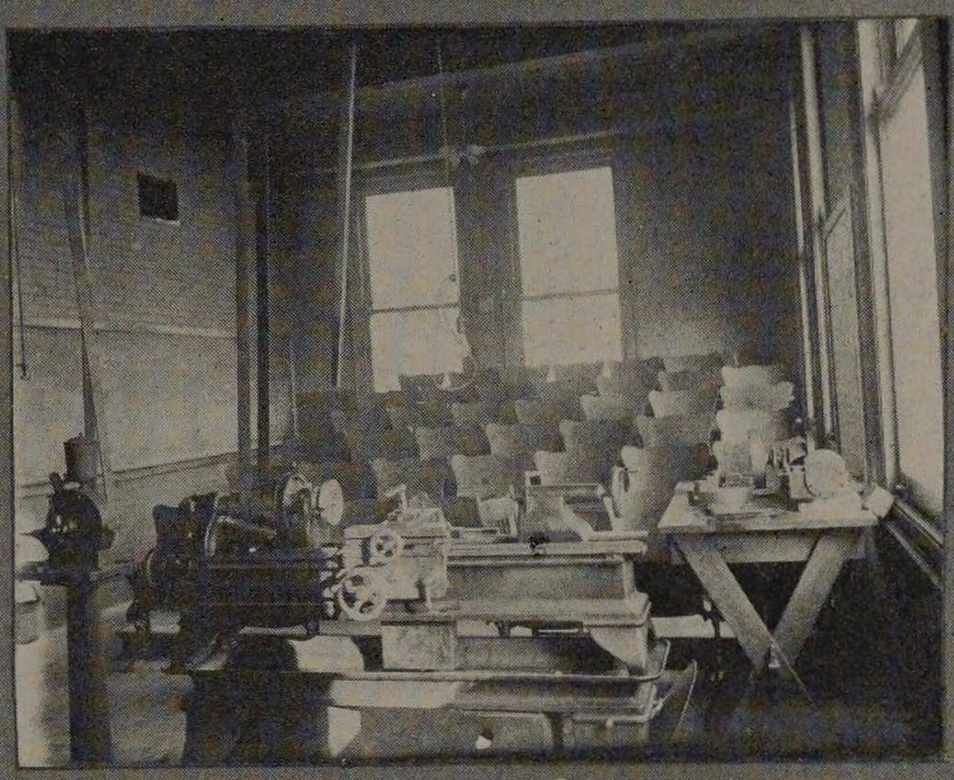
One educational feature noticed by observant visitors, one which undoubtedly will be imitated elsewhere, is the presence of demonstration rooms in connection with the shops. Each room is equipped so as to be serviceable to the adjacent shop, *i. e.*, the demonstration room on the forge shop floor is equipped with an anvil and a down draft forge, the one on the machine shop floor has an engine lathe and a bench tool grinder, the one on the pattern shop floor has a pattern maker's lathe and bench, the one on the foundry floor has the flasks and all necessary equipment to demonstrate the art of molding. The new feature involved in this plan is the introduction of shop equipment into the class room. Formerly a class room teacher had an advantage over a shop instructor in that he could address a large class as one man. He lacked, however, equipment. The shop instructor had equipment but his environment kept him from teaching more than a few men at a time.

Each instructor was weak where the other was strong, and strong where the other was weak. By the equipment of class rooms with the machinery of the shop so that the shop instructor may have the advantage of the class room and the shop at the same time, shop instruction will be greatly improved. Leading educators who have examined the plan pronounce it the greatest advance in shop instruction that has been made in recent years, and predict that other colleges will soon be forced to follow the lead of Armour in this matter.

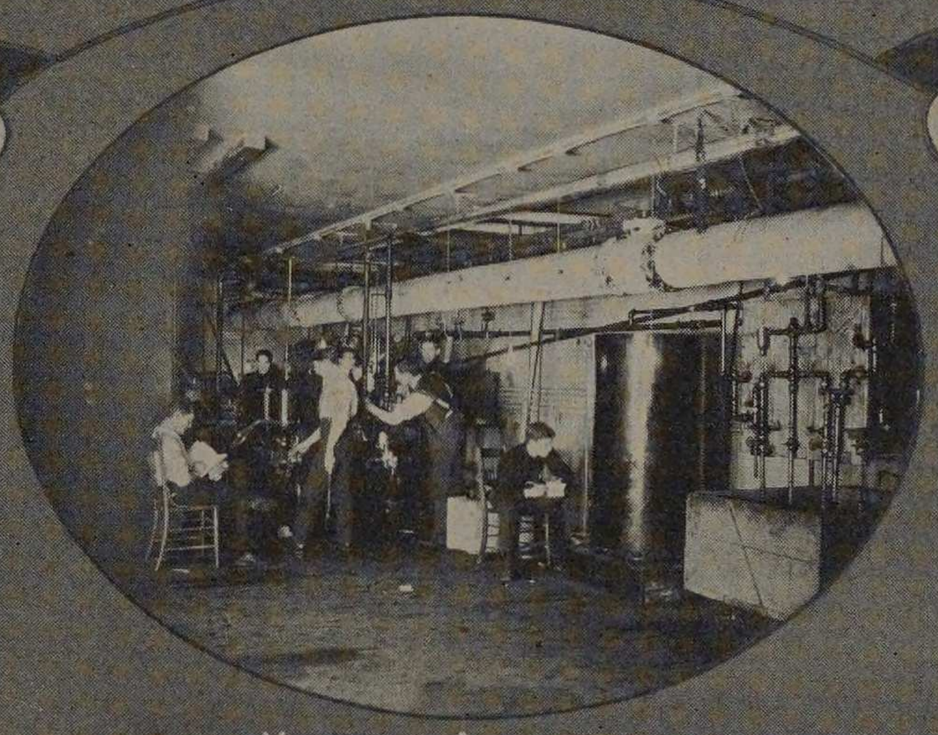
Young men who desire the advantages of a technical education are



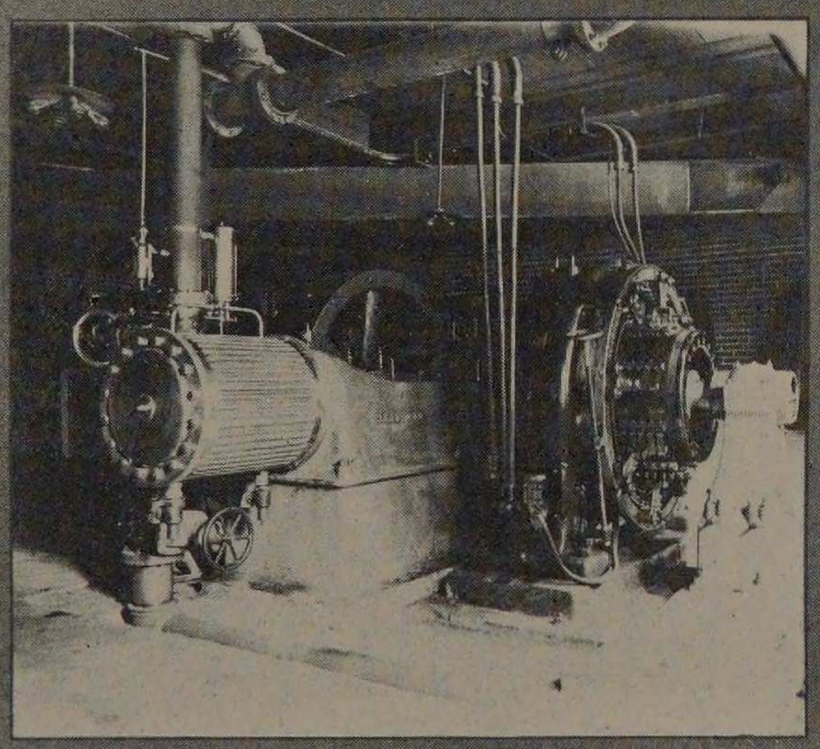
FOUNDRY



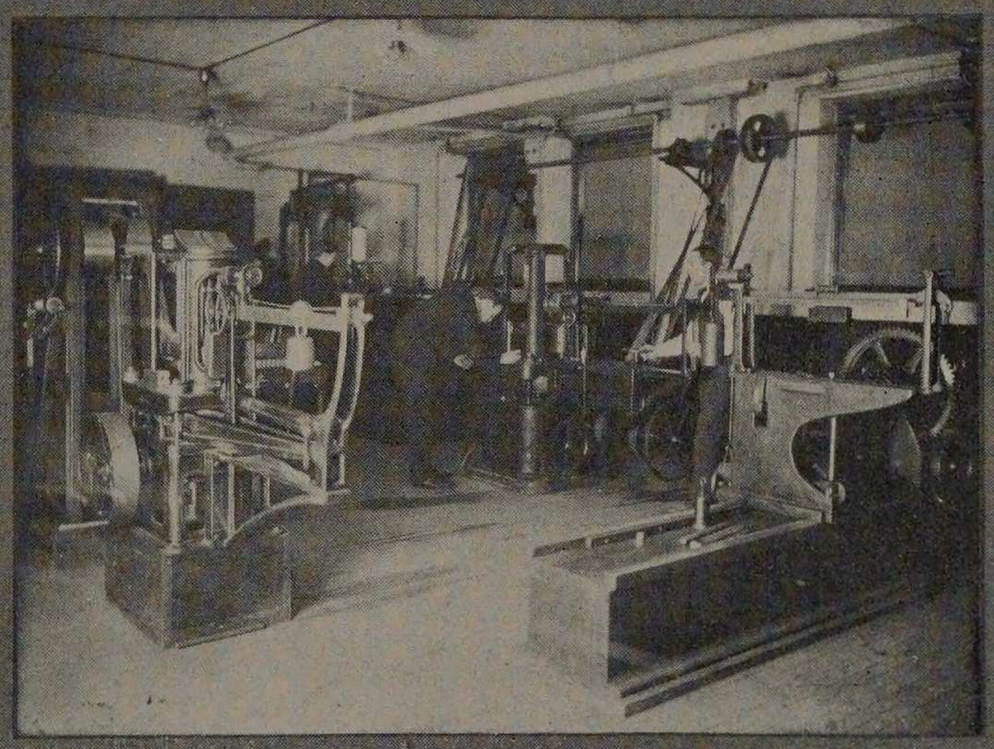
DEMONSTRATION ROOM



HYDRAULIC LABORATORY



BALL & WOOD ENGINE



TESTING LABORATORY

easily placed in three groups. The first group consists of those who can command the time and money for regular day instruction and can make their education a matter of the first consequence. Until the present year the influence of the institute reached only this class. A second group consists of those who are compelled to work during the day and have only their evenings in which to acquire an education. In order to reach this group Evening Classes were organized in October, 1902. No systematic group of courses leading to a degree were offered, but, instead, a series of short ten weeks' courses containing the essential information sought by the students. The main demand was for electricity, drawing, chemistry and practical shop and laboratory courses. A third group consists of men who desire a technical training but cannot attend either day or night classes. There can be no well founded reason why instruction should not be sent to them. By means of a scheme of co-operation with the American School of Correspondence, the influence of the Institute is now extended through the individual members of the Faculty to any one who desires technical knowledge and is within reach of the mails.

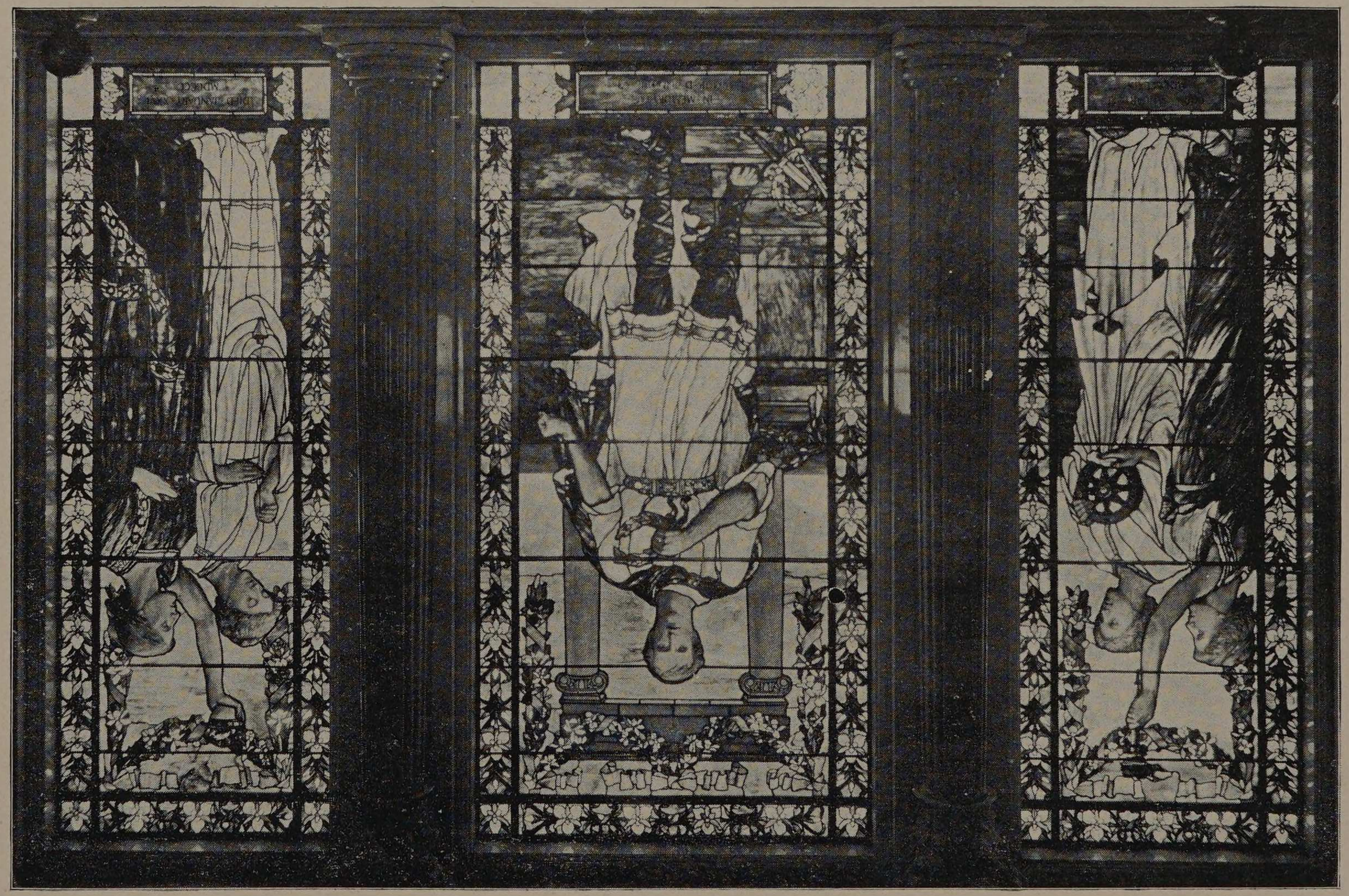
From this survey it will be seen that within the past year the influence of the Institute has been extended beyond those who can come to us and spend all their time, to those who can come to us only in the evening and even to those who cannot come to us at all. Instruction by correspondence is certainly not as effective as

evening resident work, and evening resident work is not as effective as day work. However, there seems to be no good reason why an earnest student should be deprived of that grade of technical instruction which is within his reach. No one of these three grades of work interferes in the slightest degree with the other two. By extending the work in these two new lines the Institute is blazing a way which other institutions are beginning to follow.

In the matter of attendance the Institute can offer some interesting figures. Taking a survey of the past four years we see that the total enrollment in the college in 1898–99 was 134, the next year 178, the following year 223, and last year, 1901–2, this number was increased to 353. During the autumn term of 1902–3 the number was 410. For the same years the enrollment, exclusive of the Domestic Arts and Sciences, and inclusive of the college, academy and specials, was, in 1898–9, 505, the following year 559, the next year 639, and last year, that is, in 1901–2, this number had increased to 822. The total enrollment for the autumn term of 1902–3 was 1,007. When the enrollment reached 400 a careful examination was made of the records in the office and the following facts noted. The 400 students selected their courses as follows: Architecture, 25; Chemical Engineering, 59; Civil Engineering, 62; Mechanical Engineering, 104; Electrical Engineering, 150. By classes they were divided as follows: Seniors, 32; Juniors, 61; Sophomores, 120; Freshmen, 187.

As to residence, 245 came from Chicago, 50 from Illinois outside of Chicago, 30 from Iowa, 11 from Wisconsin, 7 each from Michigan and Indiana, 6 each from Kansas and Nebraska, 5 from Colorado, 4 each from Ohio and Minnesota, 2 each from Florida, Missouri, Arkansas, Tennessee, Texas and Montana, one each from New Jersey, Oklahoma, Maryland, Washington, Massachusetts, Pennsylvania, California, Canada, China, Japan, Sweden, Italy and Germany. Attendance in the college compares favorably with the attendance in other well known schools. In 1901-2, there were in the United States 114 technical schools. Of these only 13 were larger, and just one-hundred were smaller. Of the smaller schools, there were Rose Polytechnic, the Rensselaer Polytechnic, the Michigan School of Mines, the Case School of Applied Science, and the Engineering Departments of the State Universities of Missouri, Pennsylvania, California, Kansas and Nebraska. One more comparison. The enrollment in the Senior and Junior colleges of the University of Chicago for the autumn term 1902-3 was 1442, of these 829 were women, leaving 613 men as undergraduate students. During the same term, our College of engineering enrolled 410 men. Comparing our undergraduate masculinity with that of the University of Chicago, we find that we are a trifle more than two-thirds as large. That Armour has developed largely in the past two years can not be doubted; that she will continue to grow is the firm belief of her friends.

MEMORIAL WINDOW.



The Memorial Window

The splendid window which has been reared as a memorial to Philip D. Armour, Junior, by his fellow employees and now graces the main hall of the Armour Institute of Technology, is a work of surpassing beauty and demonstrates to what a degree of perfection the art of making glass windows has attained. It was drawn and executed by Mr. Edwin P. Sperry, who is the Artist-in-chief to the "Church Glass and Decorating Company, of New York City." In his youth, Mr. Sperry was a student in the Art School of Yale College at New Haven and later studied in New York and Paris, having such eminent instructors in the latter place as Boulanger and Lefevre. Upon returning to America, he became associated with Mr. L. C. Tiffany and spent ten years collaborating with him. Many churches, halls and Libraries are enriched by the results of their labor.

The window is seventeen feet wide by eighteen feet high, and is divided into three panels, with an entablature of Carrara marble. It is said that there are over a million separate pieces of glass in the composition.

The subject of the center panel—"Success" is a most difficult one to portray, but Mr. Sperry admirably expresses the idea that success is something for which no man can wait, and if attained, must be grasped and conquered by brain force and energy alone! The life of the young

man Philip Armour is typified in the figure of physical manhood, who is represented taking the crown of triumph from the altar of fame, after having fought his way through every obstacle and attained his end. The beautiful female figures in the side panels personify heat, light, gravity and motion, showing that having these powers under his control, man may use them to the furtherance of his welfare and benefit. On the altar from which "Success" is taking a laurel wreath are inscribed the words: "Famam Factis Extendit" (He extended His Fame by His Deeds).

The presentation address was made by Mr. George J. Brine, and was as follows:

"We gather here to-day to do honor to one whose memory is in all our hearts, to signify our appreciation of the example and achievements of a young man who was lately not only our employer, but our fellow laborer as well.

We bring to the Armour Institute of Technology, as a testimonia of our regard, the beautiful widow which is about to be unveiled. We ask that it may stand within the walls of this seat of learning as a monitor to all who may come hither to acquire a knowledge in those arts and sciences which tend most to benefit mankind. And upon this occasion it is peculiarly appropriate that, in this institution, founded and endowed by his illustrious father, Philip D. Armour, whose time and money and enthusiastic interest were most liberally bestowed, and by whose loving and generous family it is now munificently maintained,

there should stand this worthy memorial of the son whose career in its design and execution is most fittingly typefied.

The memorial we offer symbolizes what all hope to attain; SUCCESS. It is the voluntary and loving contribution of those who recognized the worth of Philip D. Armour, Jr., as a man; who felt the cheering and encouraging influence of his example, and who appreciate the high standard maintained by him in the pursuit of those things which make most for the attainment of success. How just is the rule which demands that life be measured by deeds and not by years, for each man knows and realizes that deeds are the things that live, that his deeds, his aspirations and his struggles all become ineffaceable monuments of his career.

Man succeeds in the race of life, not as an individual only, but in co-operation with others, through the example he establishes and by the spirit which he manifests. Rightly appreciated and accurately understood, the one word "Success" is the comprehensive epitaph for which every living soul should struggle.

Success is never rightly measured by the computation of material wealth alone. Business integrity, unwavering fidelity, regard for the rights of others, indomitable industry, and a spirit of manly rectitude, must all bring affirmative testimony to make the victor's wreath a fitting symbol of any human career. That Philip D. Armour, Jr., made manifest these virtues and left an example worthy of the highest emulation, we who knew him well and who appreciate his sturdy character, are here to-day to bear our unstinted testimony.

In the career of Philip D. Armour, Jr., there was conspicuous achievement, for, although the summons came to him in the springtime of his young manhood, his record was full of honor and rich in worthy deeds. In no sense can it be said of him that he went in and out before us as the representative of wealth accumulated by the honest industry, the clear foresight and the careful prudence of others that he fitted into a niche carved by more willing or more skilful hands. He recognized that his best heritage was moral courage, the unflagging spirit of true industry, and an inflexible purpose to do well those things which came to him "Along the lines of duty as they fell."

He began his life work before he had reached his majority, at the bottom round, and later filled the conspicuous place in the great enterprises which he was engaged only by mastering their every detail, by comprehending their full scope, and by realizing that ultimate and honorable success was attainable only by assiduous and intelligent attention to the work that came to him. He did not hesitate at hardships nor falter in the face of difficulties. He moved resolutely forward with unswerving purpose to the accomplishment of those results which always characterize energetic attention to duty well performed. He regarded life as a field within which every one was under obligation to accomplish the best that was in him and he recognized that reward belonged to him who should perform his work faithfully, patiently and hopefully.

We never can be content either with ourselves and our conditions unless we feel that we are making the best of them; and it was with this

view that he, in whose honor we offer this memorial to-day, regarded the purpose of his life. It was in a manly spirit he assumed the burden common to all of us who were his associates, and without ostentation he carried himself in a manner that endeared him to us all. Such a life is worthy of even a more beautiful and more lasting memorial than this which we now offer, because such a life is an inspiration and a help.

And so there come to us all, from the example of him whom we remember as a friend, the recollections of his broad spirit, of his courtesy, of his affability; and with affectionate loyalty to the memory of him whose kindly deeds we gratefully recall, we fervently trust our modest tribute may help to encourage and lighten the way of many struggling and earnest hearts."



Phi Kappa Sigma

Delta Tau Delta

Mu Delta Sigma


ΑΖΑΔΑΒΩΧΥΣΠΞΜΚΘΖΔΒ
Α
ΓΕΗΙΛΝΟΡΤΦΨΑΑ·ΑΓΑΕ
MDCCCL
ΦΣ
Κ
STELLIS AEQUUS DURANDO

Dreka, Phila.

Phi Kappa Sigma

Chapter Roll.

Alpha—University of Pennsylvania, 1850.
Delta—Washington and Jefferson College, 1854.
Epsilon—Dickinson College, 1854.
Zeta—Franklin and Marshall College, 1854.
Eta—University of Virginia, 1854.
Mu—Tulane University, 1858.
Rho—University of Illinois, 1892.
Tau—Randolph-Macon College, 1872.
Upsilon—Northwestern University, 1872.
Phi—Richmond College, 1873.
Psi—Pennsylvania State College, 1891.
Alpha-Alpha—Washington and Lee University, 1872.
Alpha-Gamma—University of West Virginia, 1896.
Alpha-Delta—University of Maine, 1898.
Alpha-Epsilon—Armour Institute of Technology, 1898.
Alpha-Zeta—University of Maryland, 1899.
Alpha-Eta—College of Charleston, 1901.
Alpha-Theta—University of Wisconsin, 1901.
Alpha-Iota—Vanderbilt University, 1902.
Alpha Kappa—University of Alabama, 1903.
Alpha Lambda—University of California, 1903.

Alpha Epsilon Chapter

1897

James R. Sloan
William F. Sims
Edwin S. Church
Charles Malcolmson

1898

Harry A. MacClyment
Charles H. Roesch
George H. Patten

1899

Sumner E. Bippus
Ernest C. White
Edd. V. Starkweather
Will D. Matthews
William J. Gordon

1901

Robert J. Raley
Walter E. Miller
Robert F. Fry
Alden C. Noble
Thomas W. Stevens

1903

Will H. Dunlap
Roswell S. Lander
H. B. Rawson
Fred O. Seymour
Ellis C. Soper
Grafton Stevens

1905

Royal I. Baird
Francis A. Emmons
Clarence P. Hatter
Charles H. Hermann
Clarence I. Jones
Hugh McLennan
Roy T. Pryor
Charles M. Raley
Ruluff L. Slimmer

1900

George A. Feindt
Frank Y. Low
Charles A. Garcelon
George F. Hayden
Charles S. Longnecker
Dean Harvey
Erle S. Roos

1902

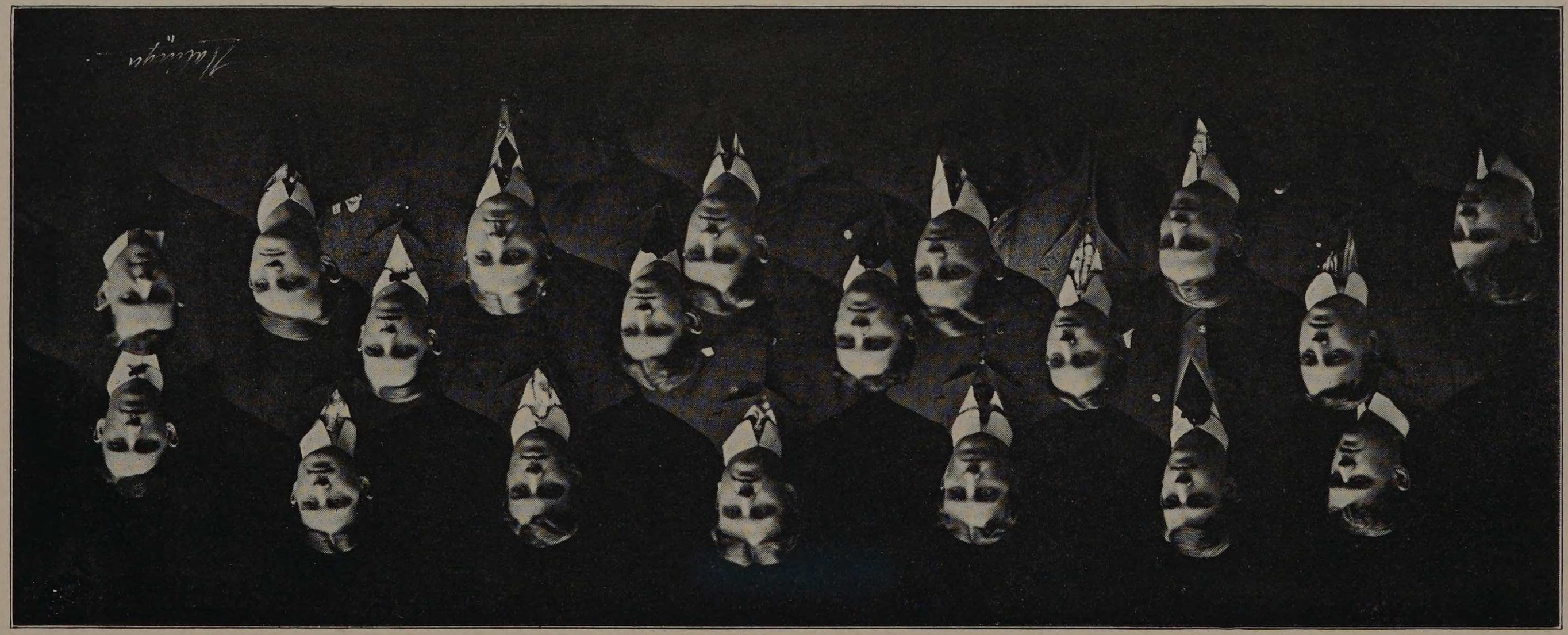
Marion W. Briggs
Henry G. Brown
Ward O. Collins
Rollo M. Heskett
Roy M. Henderson
Robert R. Jones
Fred G. Larkin
R. G. Reiniger, Jr.
S. E. Shafer

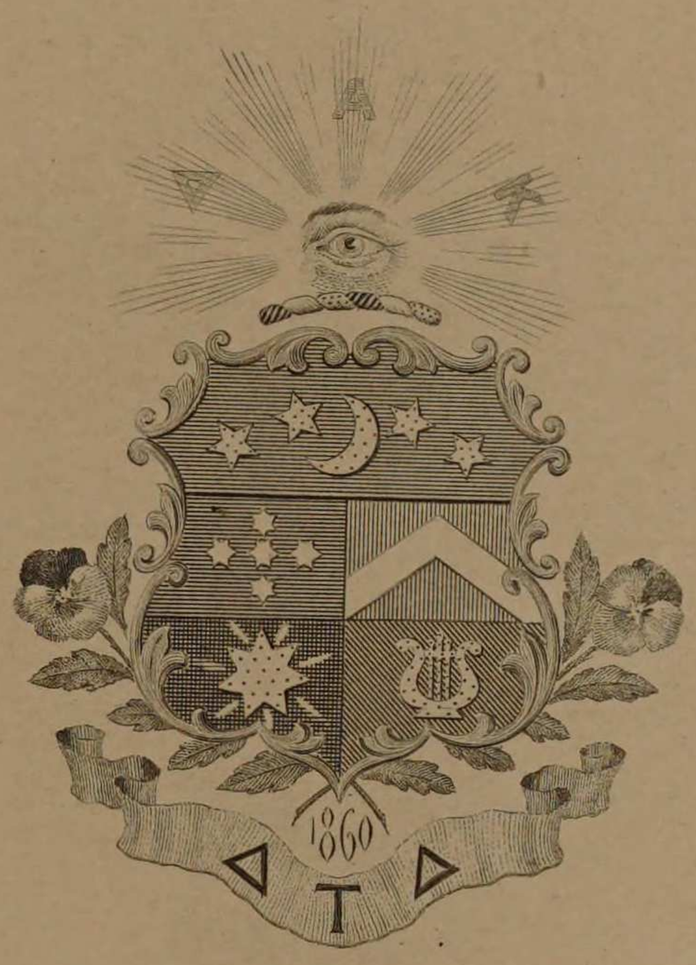
1904

Allen B. Benedict
Arthur P. Bogle
James A. Crawford
Roydan N. Davis
Don R. Frary
Fred W. Indermille
Arthur M. Jens
R. E. Williams

1906

Norman W. Cook
George N. Crawford
Everett G. Deming
Hugo L. Goetz
Roy E. Jens
Charles W. Stone
Robarts O. Walker
L. R. Townsley





Dreka, Phila.
(Copyright)

The Delta Tau Delta Fraternity

Chapter Roll.

SOUTHERN DIVISION.

Alpha—Vanderbilt University.
Pi—University of Mississippi.
Phi—Washington and Lee University.
Beta Epsilon—Emory College.
Beta Theta—University of the South.
Beta Iota—University of Virginia.
Beta Xi—Tulane University.

WESTERN DIVISION.

Omicron—University of Iowa.
Beta Gamma—University of Wisconsin.
Beta Eta—University of Minnesota.
Beta Kappa—University of Colorado.
Beta Pi—Northwestern University.
Beta Rho—Leland Stanford, Jr., University.
Beta Tau—University of Nebraska.
Beta Upsilon—University of Illinois.
Beta Omega—University of California.
Gamma Alpha—University of Chicago.
Gamma Beta—Armour Institute of Technology.

EASTERN DIVISION.

Alpha—Allegheny College.
Gamma—Washington and Jefferson College.
Rho—Stevens Institute of Technology.
Upsilon—Rensselaer Polytechnic Institute.
Omega—University of Pennsylvania.
Beta Lambda—Lehigh University.
Beta Mu—Tufts College.
Beta Nu—Massachusetts Institute of Technology.
Beta Omicron—Cornell University.
Beta Chi—Brown University.
Gamma Gamma—Dartmouth College.
Gamma Epsilon—Columbia University.
Gamma Zeta—Wesleyan University.

NORTHERN DIVISION.

Beta—Ohio University.
Delta—University of Michigan.
Epsilon—Albion College.
Zeta—Adelbert College
Kappa—Hillsdale College.
Mu—Ohio Wesleyan University.
Chi—Kenyon College.
Beta Alpha—Indiana University.
Beta Beta—De Pauw University.
Beta Zeta—Butler College, University of Indianapolis.
Beta Phi—Ohio State University.
Beta Psi—Wabash College.
Gamma Delta—West Virginia University.

Gamma Beta Chapter

ESTABLISHED MAY 10, 1901.

Fraters in Urbe

H. R. Harbeck,
J. P. Allyn,
A. K. Higgins,
R. M. Albright,
C. A. Lawrence,
A. E. Seyl,
O. A. Kreutzberg,

Fraters in Universitate

1903

C. T. Brimson,
E. E. Edgecomb,
W. C. Matthews,
J. H. S. Mueller,
G. W. Niestadt,
G. B. Robinson,
J. F. Strickler,

1904

C. L. Campbell,
F. A. Coy,
W. H. Dean,
H. A. Hart,
G. Manierre,
W. F. Parker,

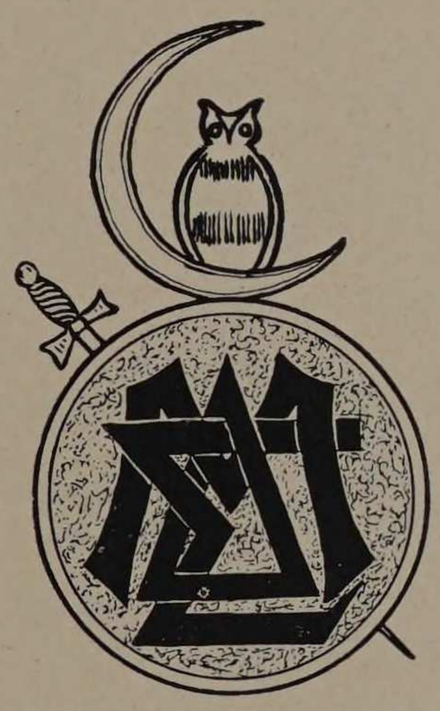
1905

K. W. Bartlett,
A. E. Ferguson,
D. E. Willard,
A. F. Ederer,
H. L. Mead,
M. H. Wright,

1906

J. H. Osinga,
F. Towl,





Mu Delta Sigma

FOUNDED IN 1884.

Chapter Roll

Supreme Chapter,		Grand Rapids, Mich.
Alpha	Established	1884, Grand Rapids High School.
Beta	"	1894, Kalamazoo High School.
Gamma	"	1895, Milwaukee East Side High School.
Delta	"	1895, Albany, N. Y. High School.
Epsilon	"	1897, Milwaukee West-Side High School.
Eta	"	1898, Milwaukee Academy.
Zeta	"	1898, Armour Scientific Academy.
Kappa		Jackson, Mich. High School.
Theta		Muskegon, Mich. High School.
Iota		Madison, Wis. High School.

Zeta Chapter of Mu Delta Sigma Fraternity

ESTABLISHED 1898.

Fratres in Academia

'03 Blake C. Hooper
'03 Harold A. Miller
'04 George H. McCarthy
'04 Douglass H. Ferry
'03 Guy N. St Clair
'03 Clarence U. Smith
'04 William Robbins
'04 Mott Q. Brunton
'03 Joseph P. Wilson
'03 Emory W. Spencer
'03 Leon F. Webb
'03 Edward B. Lucius
'03 William Wilkins

Fratres in Universitate

'99 George S. Robinson
'99 William C. Philips
'00 Donald E. Willard
'00 M. S. Flinn
'00 Arthur M. Jens
'00 James A. Crawford
'01 Charles H. Hermann
'01 Roy A. Malcolm
'02 George N. Crawford
'02 Robert O. Walker
'02 Ralph G. Tiffany
'02 Hugo L. Goetz

Fratres in Urbe

'98 Chason N. Brooks
'98 Harry R. Harbeck
'98 Ralph P. Harlan
'98 William Lang
'99 Morton H. Eddy
'99 Frank C. Heusner
'99 Eugene C. Johnson
'00 Frank Walters
'00 Floyd O. Clisbe
'01 Clarence J. Mayer
'01 Harley M. Beers
'01 Leslie M. Beers
'01 Anthony E. Seyl
'01 Edward A. Walters
'01 Arthur Goetz
'01 Bertram O. Buckhanan
'01 Clarence S. Dexter
'01 Charles A. Fitzpatrick
'02 Claude L. Freeman
'02 Thomas E. Merrill
'02 Edward Church
'03 Clair Damphlett
'03 Arthur C. Mower



SOCIETIES

Radical
Technical
Chemical
Y. M. C. A.
Delta Debating



Radical History

IF this veracious history had been started a year or so ago, it would more justly have merited the title of "Confessions of the Radical X Club," for in our younger days, we were undoubtedly a wild and rough-house bunch at times. As it is, however, we may now justly lay claim to a bona-fide "History"—for a history is a record of achievements, and we have achieved much.

'04 Radicals

E. J. Hiller
F. W. Indermille
J. A. Crawford
W. C. G. Wilson
H. G. Zuckerman
A. M. Jens
R. N. Davis
A. B. Benedict
A. C. McArthur
A. H. Lewis
W. H. Dean
D. R. Frary
W. W. Hoops
L. J. Byne
C. H. Hammond
M. S. Flinn



The earlier exploits of the Radical X's are specially distinguished by the qualified insanity and the unqualified nerve displayed therein. Among them looms up the night when an attempt was made to carve the class number of Naughty-four on a large block of nickel ore across the street from the entrance to the Institute. By some fatality, the copper on the beat failed to connect with the knockout drops, as per program, and the bunch was raided just as the work was nicely started. Then followed a wild chase in which thirteen boys fled in thirteen different directions and the cop seemed to be pursuing them all, occasionally firing random shots from the gatling gun that he wore. When the smoke finally cleared away and the scattered host reassembled, it was found that the list of killed and wounded amounted to one—who was shot in the imagination and was suffering untold agony from the wound —so the shattered forces were withdrawn from the battle and retreated in good order to a place that was violating the midnight closing laws to an extent that might have attracted the attention of even a member of the police force, had he been awake.

But while experiments such as these are extremely interesting in their own way, they do not accomplish very much of a substantial nature, either socially or scholastically, and the efforts of the Radicals in at least one of these branches of human endeavor cannot be ignored. The dances given by the Radical X Club for the last two years have been EVENTS in the social calender of Armour Institute. Last year, when the Class of Naughty-three, for reasons which true charity will not permit us to inquire, failed to do their duty by the Integral, the Radicals offered to assume the responsibility which their upper classmen had shirked and get the book out; and though they were not permitted to do so, they still deserve great credit for their willingness to undertake this work in the interests of Armour Institute.

'05 Radicals

C. H. Herrmann
C. P. Hatter
F. A. Emmons
M. H. Wright
D. E. Willard
C. M. Raley
R. N. Towl
Harry Marshall
A. E. Ferguson
R. G. Culbertson
H. W. Bryant
A. E. Seyl
W. K. Kretsinger
Roy Malcolm
F. M. de Beer
W. E. Rupe
B. H. Sackett
R. W. Lowenthal
J. H. Ellett



The largest undertaking which the Radicals have to their credit, however, is the production of the comic opera, "Co-eds Courageous," at Steinway Hall, last June. It is needless to go into details regarding this affair, but we will mention in passing that the libretto and music were the work of two members of the Club, and the production was generally conceded to be a success.

Since the Club was organized in 1901 by members of the Class of 1904, divisions in the Classes of 1905 and 1906, each consisting of thirteen men, have been added to the list of members, and next year will find us with our full quota of Radicals, fifty-two, and with that number the Club will continue to live and thrive.

Writing a real history of the Radical X Club is a matter of some difficulty, as the history of the Club and that of Armour Institute are almost identical. The great object of the Radical X's has always been to boom things at Armour, and whenever an event of special importance takes place they are pretty sure to be concerned in the same.

The Club has always endeavored to help and encourage all enterprises that would redound to the credit of their school or class and, at the same time, get as much fun out of existence as circumstances and life at a Tech school would permit, and the results of their efforts have confirmed their belief that they have succeeded.

'06 Radicals

E. H. Ellett
E. G. Deming
C. W. Stone
G. N. Crawford
E. F. Hiller
L. R. Levings
R. O. Walker
L. R. Townsley
H. L. Goetz
T. S. Allen
R. E. Jens
A. G. Rockwell
Robert Neilson



The Technical Society

E. Jennings Heinen, President
H. M. Wood, 1st Vice-President
D. Roesch, 2d Vice-President
H. M. Hamilton, 3d Vice-President
Howard G. Stillson, Secretary
F. Blinkensop, Treasurer

Membership.

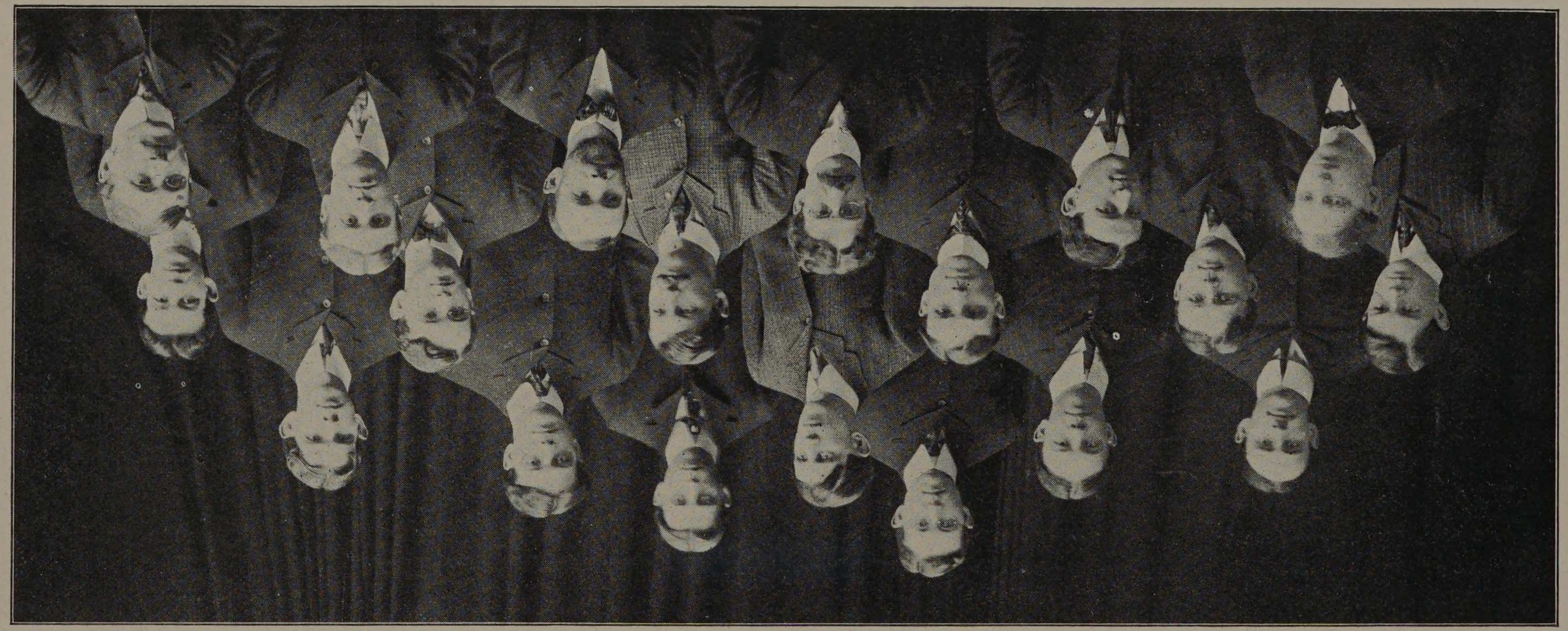
Our Honorarium (in Picture)

C. E. Freeman, '97, Head Dept. Elec. Engineering
R. V. Perry, '97, Instructor Elec. Engineering
R. H. Rice, '97, " " "
Bernhard, '01, " " "

E. J. Heinen, '03
E. D. Merry, '03
S. B. Sherman, '03
F. V. Battey, '03
H. Housen, '03
F. R. Collins, '04
H. L. Hamilton, '04
C. E. Sampson, '04
D. Roesch, '04
W. G. Hoy, '04
Fred Blinkensop, '04
E. W. Conchois
A. E. Ferguson

J. E. Lanning, '03
W. C. Phillips, '03
H. G. Stillson, '03
A. Wagner, '03
J. H. S. Mueller, '03
R. S. Draper, '04
O. P. Prescott, '04
H. M. Wood, '04
F. C. Clark, '04
W. K. Krietsinger, '05
F. G. Michaelis
C. C. Saner
A. C. Whitney

W. P. Bear



Technical Society

THE Technical Society stands for what is best in the line of helps for the young engineer. From its ranks have gone forth some of the strongest men of our institution. From the impetus given them results a keener reception, an ability to recite facts in a coherent manner.

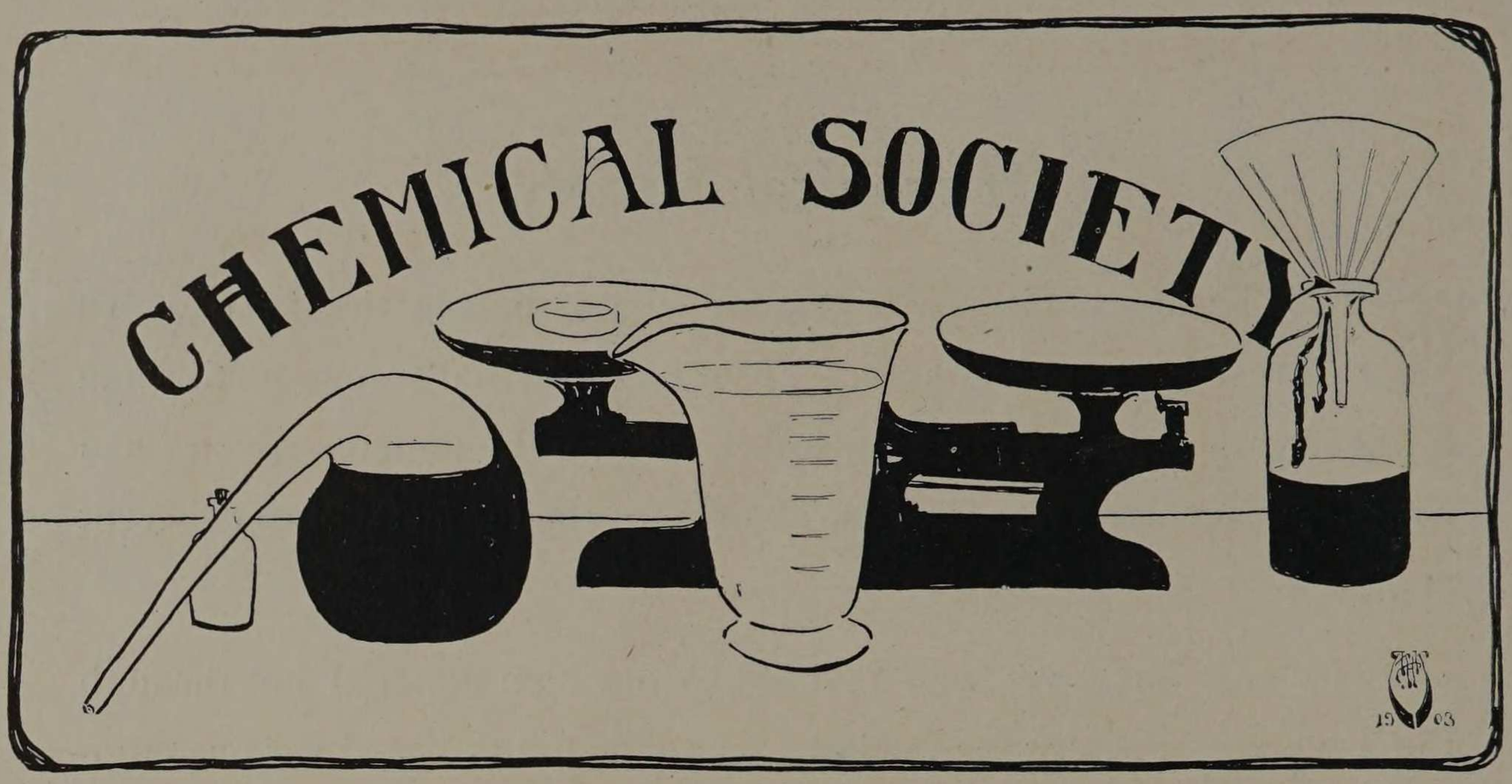
Not only have we been favored by our own material but through the Technical Society the Institute, as a whole, has heard various engineers and other prominent men.

The Advisory Board endeavors to pick upon those whom it feels will be of benefit to the student body.

The strength of the Society can be estimated from the able way in which it handled the "Engineering Journal," the first strictly technical publication issued by the student body of Armour Institute of Technology.

That the Society will continue to grow is evident from the interest taken in it by the officers of the institution, which now makes it possible to have a regular lecture hour devoted to the Technical Society, for the purpose of hearing student or outside lecturers.

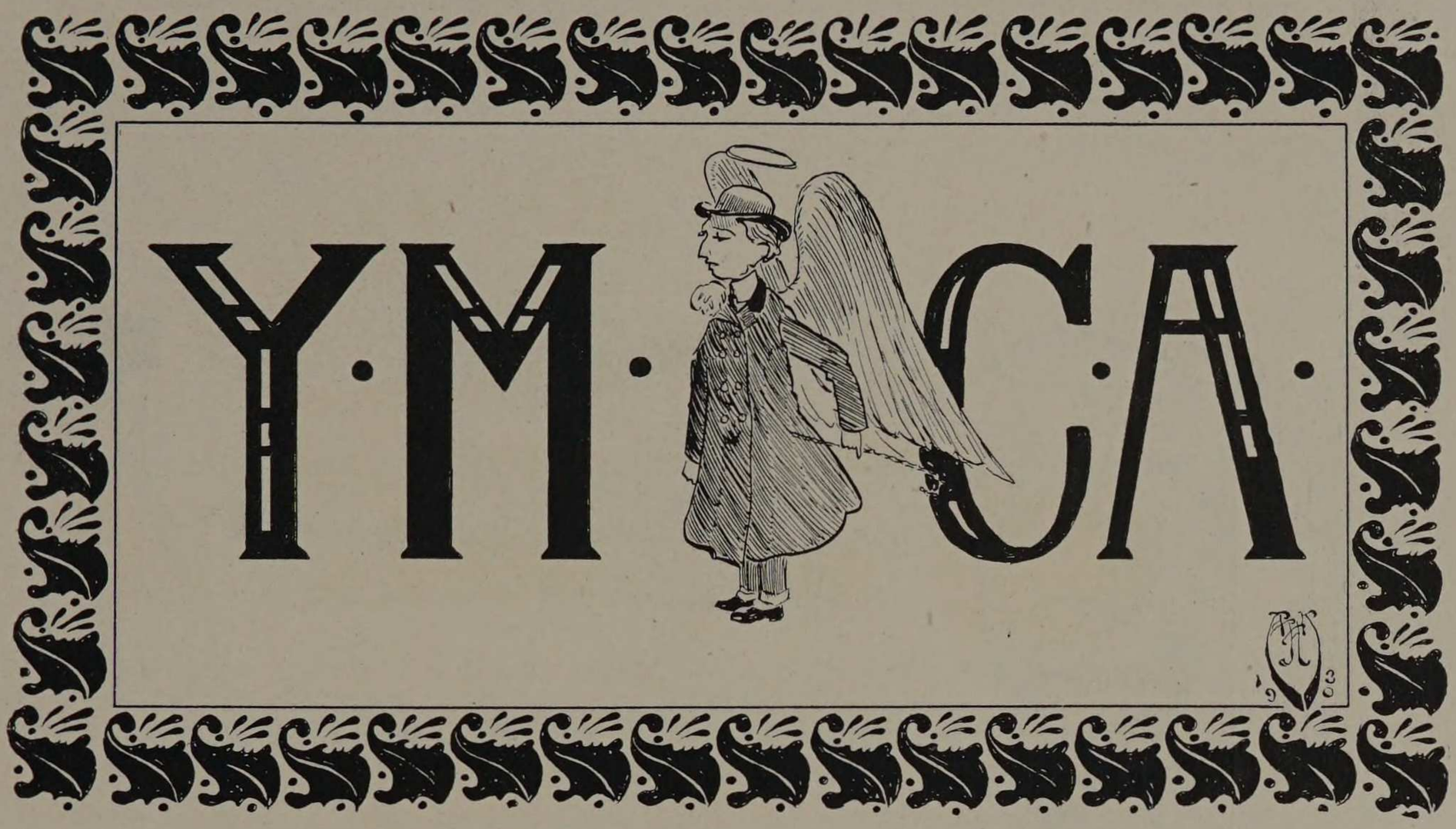
The upper classmen have, perhaps, always given strength to the Society, and may those coming do their part as well as their predecessors.



THE facts of all experimental sciences are practically reinstated in advanced form every ten years. This is notably true of Chemistry. Its conceptions are being modified and applied in new and strange ways so rapidly, that nothing less than systematic efforts will keep the student in line with the progress of his science.

Recognizing this, our students of Chemical Engineering have associated themselves in an effort to scrutinize current technical literature for all facts of interest to them. Each student undertakes to note the important article in some particular journal, during a short period. He brings these subjects briefly before the members of the club, giving the facts necessary to make the reference useful.

Besides this list of references, there is presented at each meeting a carefully prepared paper on some subjects of special Chemical interest. By means of these papers, and the discussions following them, the students obtain a wider perspective of the field of theoretical and applied Chemistry. It is also hoped that under these circunstances the dry bones of Class-room work may be seen as the necessary and symmetrical framework of a beautiful, interesting, and useful science.



OFFICERS:

Roy S. Spalding, President
G. W. Fiske, Vice-President
D. M. Green, Recording Secretary
A. R. Gray, Department Secretary
Charles W. Leigh, Treasurer

COMMITTEE OF MANAGEMENT:

Prof. Wm. T. McClement, Chairman
Dr. F. W. Gunsaulus
Prof. Chas. W. Leigh, Treasurer
A. Ralph Gray
Benj. H. Glover, Alumnus
Dean Harvey, "
Roy S. Spalding
D. M. Green

THE organization of the Young Men's Christian Association at Armour Institute of Technology, dates back to the fall of 1899. Mr. Wm. J. Parker, Minnesota '97, Student Secretary for Chicago, called a meeting of the students in the Mission, and at this meeting Mr. A. C. Mineer was elected President, he has been succeeded by J. F. Strickler, F. B. Battey, A. R. Gray, G. W. Borst, and Roy S. Spalding.

The membership during this time, has increased from six to over seventy; two Bible classes and Religious meeting are held each week. Besides the Annual Freshman Handshake, social features of a desirable kind are held at intervals during the year. The "House" is open afternoons and evenings; the piano and magazines together with ping pong and other games, furnish recreation for the members.

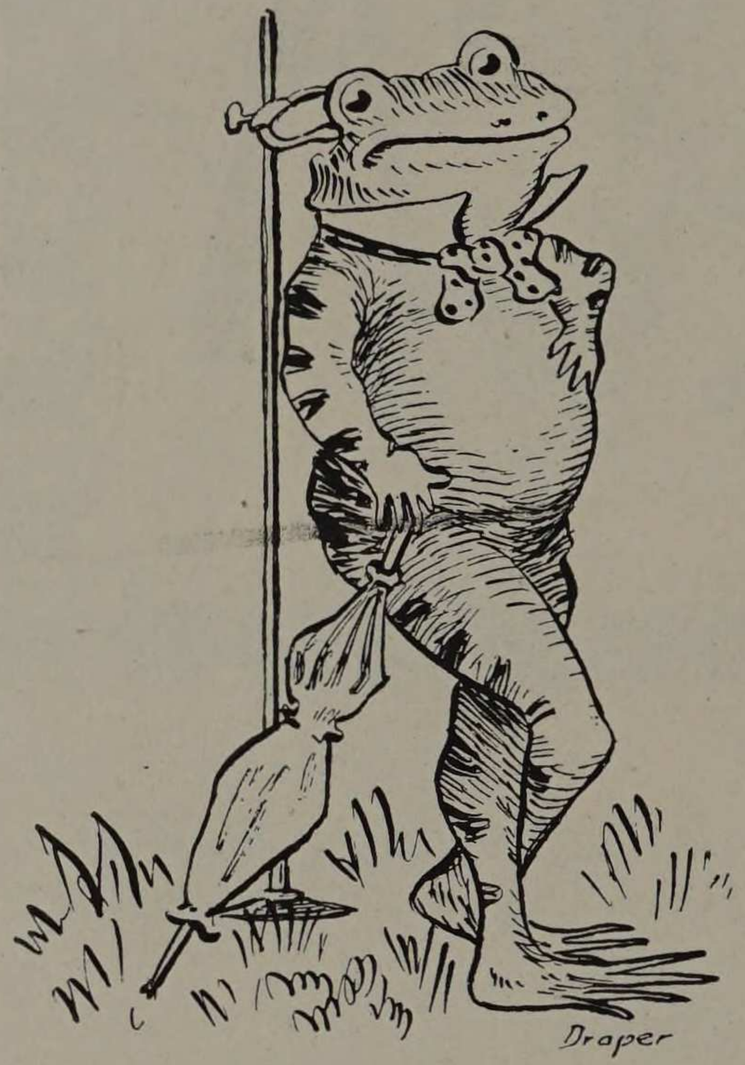
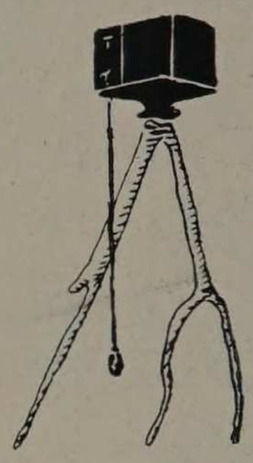


Photo Society of A·I·T



Officers

E. J. Smith, President

Dane Green, Vice President

A. V. Small, Secretary

D. Roesch, Treasurer

E. D. Merry, Custodian

Photographical Society

THE Photographical Society of Armour Institute of Technology are at present located in their new rooms in the Mission building. The use of three rooms with electric and gas lighting is afforded its members. Two of these rooms are equipped as dark rooms; one for printing and enlarging, and the other for developing.

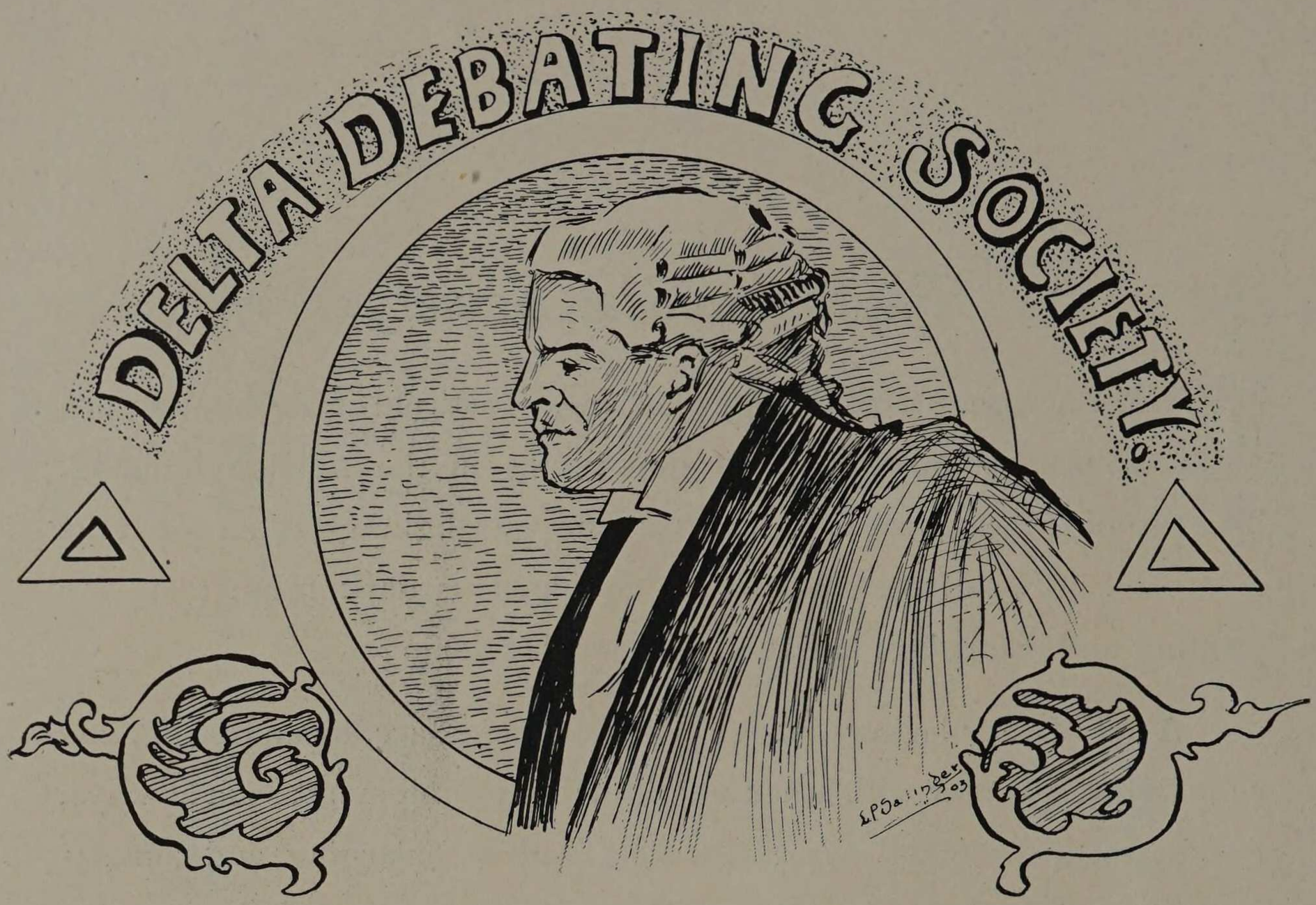
A set of fifty lockers, an enlarging camera, arc, incandescent, and ruby lights, together with other apparatus and equipment; such as trays, graduates, wash-boxes, chemicals, etc.; used in enlarging, and contact-printing, will be found in the first room.

In the second room are arc and incandescent lamps for copying and lantern slide work, and also a series of ruby lights and boxes, giving a wide range of ruby intensities.

The society is in a prosperous financial condition and hope soon to add at least one fan-motor for drying purposes, and a new enlarging lens.

Although they have been somewhat delayed in getting settled in their new quarters; the Society hopes to hold its fourth annual exhibit in the spring.

All students of A. I. T. are welcome to the Society and may become members by complying with the rules and regulations.



President, Clarence Vredenburg

Secretary, Arthur Scott Dearborn

Treasurer, Harry Hamlin

Student Representative to Inter-Academic Debating League,

D. H. Ferry

Faculty Representative, Professor F. Monroe Tisdel

THE Delta Debating Society has now reached the third year of its existence. With a constantly increasing membership and a successful debating team it has most effectually fostered an interest in debating in the Institute. Debates and mock trials have been held in Science Hall before interested audiences. During the autumn term a course in debating was given by Professor Tisdel to a class of fifteen,

which dealt entirely with logic and increased the effectiveness of the organization.

The trials for the debating team of 1903 were held in Science Hall, Friday, December 5, 1902. Professor Tisdel and Dr. Scherger sat as judges. By their decision the debating team was composed of H. Ralph Badger, Leo P. Salinger and Clarence Vredenburg, with Arthur Scott Dearborn as the alternate. Under the schedule of the Inter-Academic Debating League this team was to meet Northwestern Academy's debating team on the subject, "Resolved, That the City of Chi-

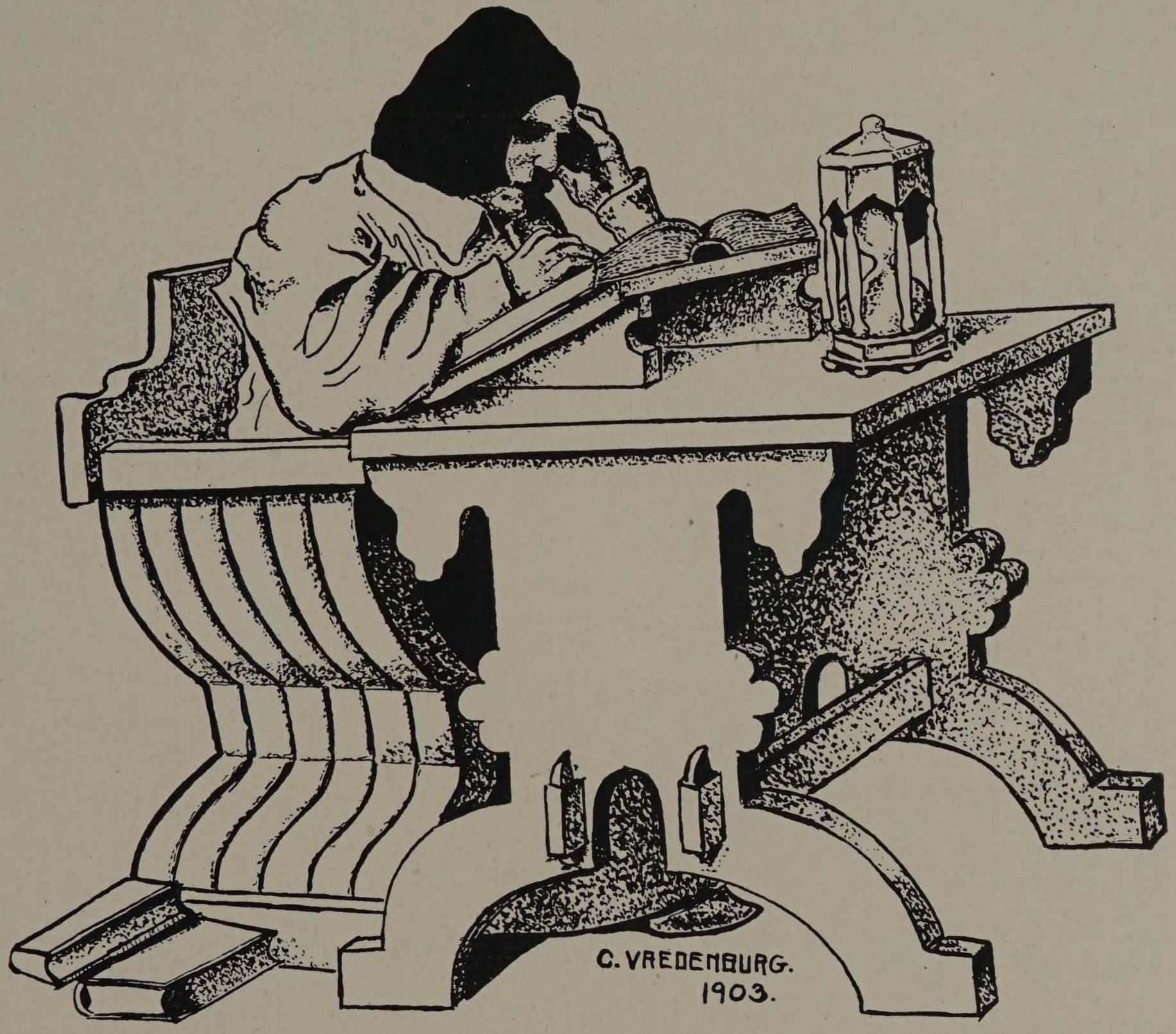


SALINGER. VREDENBURG. BADGER.

cago should own and operate her street railways." Armour had the affirmative, Northwestern being allowed the choice and selecting the negative. For two months the men were under the tutelage of Professor Tisdel, Dr. Scherger and coaches Wormser, Sackett and Falk. Two private debates for the purpose of seasoning the men were held with the Alumni team, Barton Sackett, Lester Falk, President Freshman Debating Club of Chicago University, and Leo. F. Wormser, Sophomore Debating Team of Chicago University, which two years back successfully defended the negative of the question against the University Secondary School. Entire days were spent at work in the libraries. Scores of voluminous works on municipal questions and

numberless magazine articles were consulted. Council reports and civic documents were perused, entailing a detailed study of the financial condition of Chicago and her street railways. The Team attended meetings of the city council, interviewed prominent city officials, wrote letters to different cities and collected rare statistics. The result was that when on the evening of January 30th, 1903, before a large audience in Armour Mission, the Team met the Northwestern Academy debaters, N. W. Draper, Colce Frenis Green and Arthur H. Smith, it won a well-earned victory, presenting forcefully a clear, well-organized case to the judges, Dr. W. H. Pulsford, Professor Joseph Parker Warren and Professor H. P. Chandler. It was the occasion for an enthusiastic outburst of Armour spirit and the debaters were borne down the aisles on the shoulders of cheering students. By this victory the debating team of Armour Scientific Academy earned the right for debating for the Inter-Academic Championship of Cook County.

On the evening of May 1, 1903, the debating team met a similar team from the Academy of the University ot Chicago, at Morgan Park, in Armour Mission, before a large and enthusiastic audience. The Morgan Park team was composed of Messrs. Leisman, Claude Schofield and Horace Baker. Owing to their coaching at the hands of H. P. Chandler, of Chicago University, the Morgan Park debaters were well prepared. The question was, "*Resolved*, That the cabinet system of government is preferable to the congressional system." Morgan Park upheld the affirmative and Armour the negative. The judges were Judge Richard S. Tuthill, Judge Abner Smith and Judge Stein. Dean Chase, of Morgan Park, officiated as chairman of the evening. By the decision of the judges Armour won. It was a hard earned victory, and one in which debaters and students alike took pride. For the first time Armour Scientific Academy won the Inter-Academic Debating Championship of Cook County. Amid resounding cheers the winners were presented with the first banner ever given by the league. Those who, by their advice and help, had a large part in the victory, were Professor George L. Sherger, Professor I. Monroe Tisdel, and Leo F. Wormser, the graduate coach.



INTEGRAL
MDCCCIII

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DON R. FRARY

Ass't Editor

WILLIAM H. DEAN

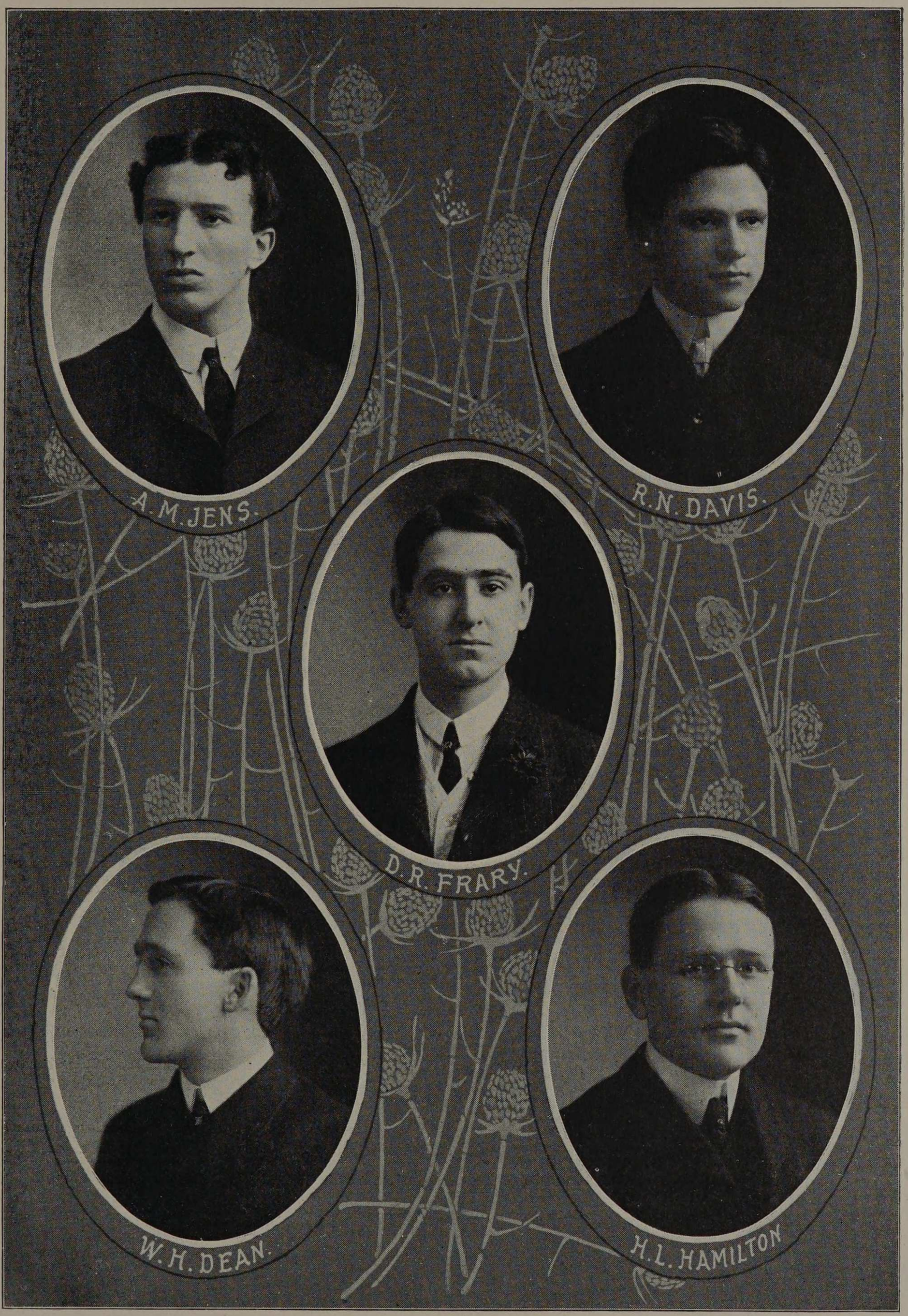
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THE FULCRUM
L.C. HUTCHINS

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1902---1903

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John R. Smith, Literary Editor

Frank A. Emmons, Athletic Editor

Jack Bracket, Darts and Arrows

Charles H. Herrman, Academy

Morgan H. Wright, Social Editor

Roy N. Towl, Exchange

Harry B. Marshall, Advertising Manager

Franklin de Beer, Ass't Advertising Manager

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Clarence P. Hatter, Publication Manager

Fulcrum Staff, 1901---1902

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William H. Dean, Literary Editor

Don R. Frary, Social Editor

W. F. Parker, Athletic Editor

R. W. Hammond, Business Manager,

Fred. W. Indermille, Ass't Business Manager



The Fulcrum

THE FULCRUM is now entering the third quadrant of its sixth year of active life. The paper as issued by the class of 1905 has materially departed from the spirit and principles of its predecessors, the greatest change being in the method of management. Heretofore it has been the custom to have an editor-in-chief and a business manager. Under this arrangement there were practically two heads, one who prepared the paper and the other who handled the money. So in arranging to take up the paper the class of 1905 did not believe that any business, and this paper was to be conducted on business principles, should have two equally important heads, so established the office of managing-editor, who was to assume the entire responsibility of the paper. Besides editing the paper he was to keep all moneys and reports of the paper. No doubt this would heap more work on the managing-editor, but we thought this would be offset somewhat by the smoother running of undertaking and by enlarging the staff of his assistants. Consequently we increased the number of these assistants from four to ten. Each department of the paper has its editor, who is in turn held accountable to the managing editor. This plan, we are

glad to say, has worked exceedingly well and would recommend its adoption to all succeeding classes.

Again, we have departed from a custom of some of the previous boards in that we do not permit articles in our paper which "knock" on the Institute or Faculty or any of its proceedings.

Every article pertaining to the actions of the above-named must bear the stamp of approval of Doctor Gunsaulus. The writer has known of instances where the too previous publication of certain actions to be taken by that has caused the Institute much trouble and money. The whole idea and attempt of the present staff is to make the paper a newsy periodical. We want the paper filled with such matter as will appeal to all the students, both College and Academy.

Furthermore, the class of 1905 had intended to publish the paper promptly twice a month, but unlooked for questions and objections were raised as to its advisability, so that the board will only publish thirteen issues instead of the sixteen as intended.

Although the sales of the paper are not what should be expected of a school of the number of students as Armour has, the paper is doing very well financially, and we want to thank very cordially all those who have supported the paper, especially our faculty.

Armour Engineering Journal

Published by the Technical Society

J. Edward Lanning, '03, Editor-in-Chief

Harold L. Hamilton, '04, Business Manager

Stanley B. Sherman, '03, Ass't Business Manager

ASSOCIATE EDITORS:

Howard G. Stillson, '03

E. Jennings Heinen '03

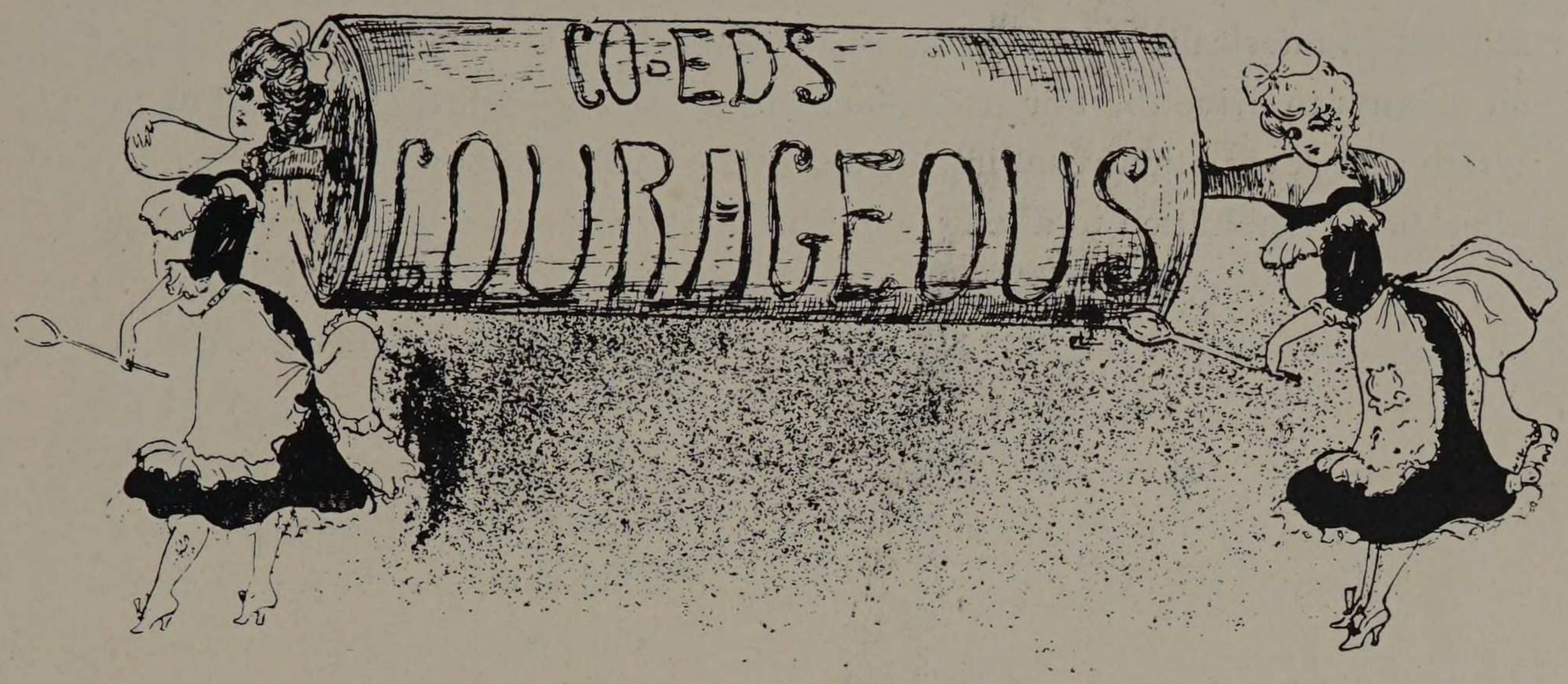
O. Raymond Prescott, '04

Armour Engineering Journal

THE appearance of the Armour Engineering Journal with the first of the year is an occasion to be remembered, as it marks the culmination of the hopes and plans entertained by the founders of the Technical Society. It is extremely fitting that the first number of such a journal should appear at the close of the first decade in the History of the College of Engineering. It marks a period in the growth and development of such an Institution as ours, and is an achievement of which the students and faculty may well be proud.

With the increasing facilities for individual research work, offered by our newly equipped shops and laboratories, the College of Engineering is entering upon a new era in its development. It is coming to occupy its true position as a center of Technical knowledge, in all that the term applies. Technical education, itself; is on the upward trend as never before, but withal, the College of Engineering is rapidly forging to the front. A clear mountain lake, fed by sparkling springs and babbling brooks, becomes rancid of taste and evil of smell unless it have an outlet. And so it is in our College communities. No matter how much good may accrue from lecture hall or laboratory, it stales without the proper outlet. This outlet is provided through the press, and the press is represented best by an Engineering Journal peculiar to our interests, and having its home within our gates. The energy displayed by the promoters of the Journal is to be commended. It fills a long felt want, and comes to occupy a place deserving its best efforts.

MUSIC



A Three-Act Lese Majeste perpetrated by Gordon Wilson, who is to blame for the book. and Allan Benedict, who is responsible for the music, aided and abetted by the Radical X Society, the Glee and Mandolin Clubs, and sundry others. Also Guy C. Pierce, whose ideas of stage direction the performers will endeavor to carry out.

"Of all sad words of tongue or pen,
The saddest are these: 'It might have been.'"

Many things, both wise and otherwise, have been attempted at Armour Institute, and each has met with success or failure according to its merits, but never has an enterprise been more recklessly started or more brilliantly carried to a successful finish than was the production of "Co-Eds Courageous" by the Radical X Club. Arrangements for the production of the opera were well under way before either the book or the score had been begun; rehearsals were started before the first act was completed; and the last song to be finished was handed to the performers at the dress rehearsal two days before the night of the play, but in spite of hurried work and extraordinary difficulties the final result was a most agreeable surprise to all concerned, whether as spectators or participants.



PAULINE. JESS.

The plot of the opera dealt with a problem which has worried greater schools (numerically) than Armour Institute, to-wit, the Co-Ed. It told of an attempt to drive the fair sex from the classic walls of A. I. T. and of the wrath and devastation resulting therefrom. It also told of how the Faculty, after being submitted to a long and thorough course of shipwreck, starvation, bombardments with cooking school doughnuts, and other indignities, came at length to the conclusion that "the insidious influence of the goo-goo eye" might, after all, be outweighed by the presence of lovely woman —and the absence of chilled-steel pie bombardments.

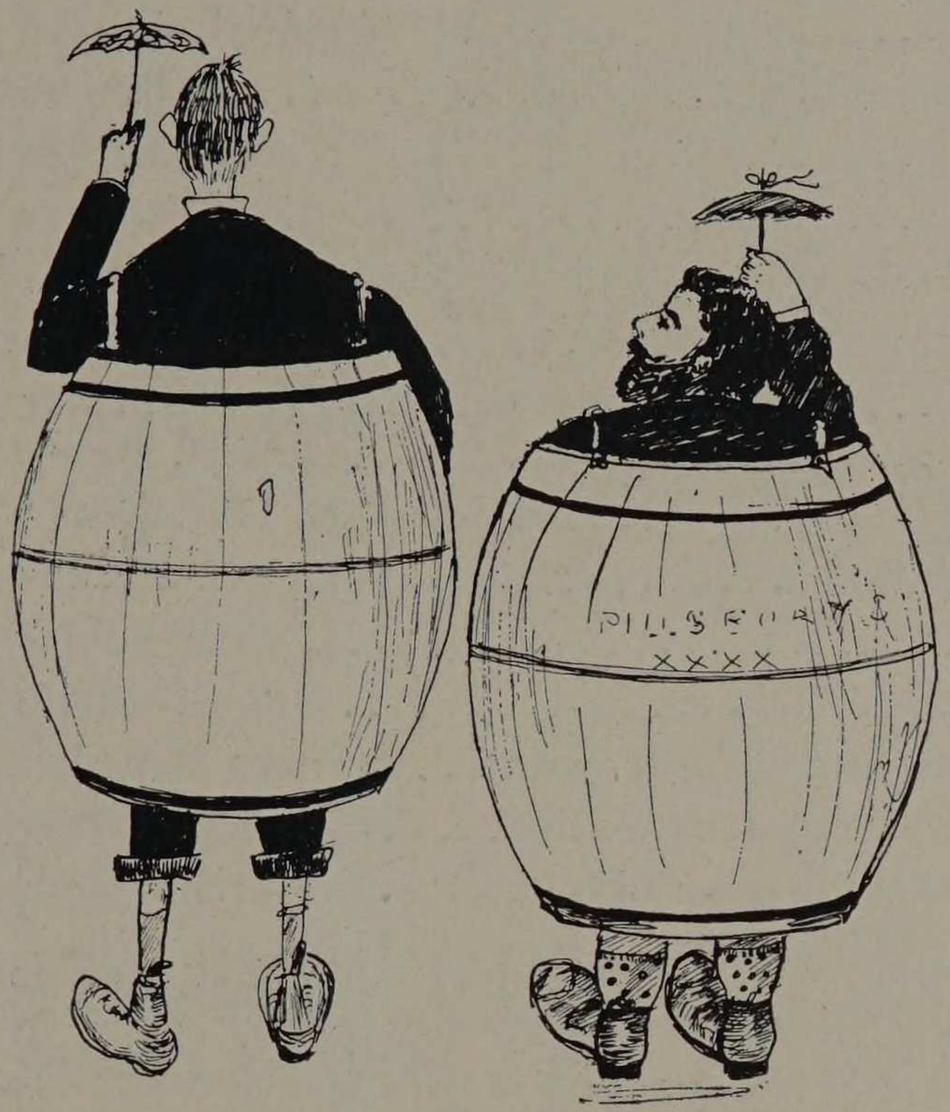


MRS. GROGAN. NEVERADA.

The book was first-rate and showed an originality which might be emulated by more pretentious productions in the realms of light opera. Wilson is a very modest young man and only a favored few knew his abilities as an author. Even those few were equally surprised and the public at large were greatly astonished at his work. The music was fine and was a revelation even to those who were already familiar with Benedict's ability as a composer of bright, catchy airs. The songs were encored time after time, and it is really a pity that they should have been destined to be heard at only one perfomance as many of them merited a much wider popularity.

The acting and singing among both principals and chorus was excellent and reflected great credit upon Mr. Guy Pierce, who had coached the entire cast for the performance. Several of the principals, especially Miss McGrew and Messrs. Cox, Leighton and Miller, are possessed of exceptionally good voices, though the production as a whole owed much of its charm to the good work done by the chorus. Their work in the "Opening Chorus," "The Jolly Young Engineer," and the "Good Night" song in the second act was most enjoyable, while the "Double Sextet" of teachers

and Freshmen attracted almost as much favorable comment as did the original sextet in "Floradora." Frank Hutchinson, ex-'04, as Miss Neverada Chants, made a special hit, for Hutch is not to be beaten in tragic comedy or comic tragedy, while his "make-up" was a perfect work of art in itself and greatly aided him in his realistic presentation of the "Maiden of Twenty—Times Three." Ross Cox, as Dean Balderdash, was also very good in his character representations. Miss McGrew, as "Pauline," and Miss Benedict, as "Jess," made hits as the leaders of the Co-Eds and received loud applause for their songs.



BRAINY. BALDY.

The orchestra, who were all Armourites, led by Benedict, did splendid work and attracted a great deal of attention from outsiders who were not as yet fully acquainted with the magnificent versatility of the Armour student. In fact, we may safely say that no other orchestra in the country could have been depended upon to do full justice to Benedict's music.

Taken as a whole, the affair was most successful and enjoyable and a great credit to everybody concerned. The gratitude of the Institute is due to all the performers and the management for the time they spent and the pains they took to make the opera the success it was, and, lest we forget here follows the Roll of Honor, that is to say, the complete cast of characters, the names of the orchestra, and, finally, the management.

Cast of Characters

Professor Balderdash, Dean of Armour Institute.....Ross Cox
Professor Brainerd, Principal of Armour Academy.....Guy Clifford
Professor Westbrook, an impecunious young instructor, in love with Pauline.....Hugh G. Leighton
Professor Freelunch, inventor Wireless Telegraph.....H. Brown
Professor MacLemons.....Harry Wright
Professor Dumbbell.....J. F. Stickler
Mrs. Grogan, proprietor of the Cafe du Comet, and Professor of Kitchen Etiquette at Armour Institute.....Gordon Wilson
J. Ogden Armour, Jr. } Students .....Ernest W. Miller
Lincoln Parke ..... } Students .....Don R. Frary
Miss Neverada Chants (Vintage of 1842).....Frank B. Hutchinson
Frank, the Janitor of Armour Institute.....Ward O. Collins
L. Bumgren, Boy Wonder of '04.....J. F. Strickler
Co-Ed Bugler.....Olive Cattelle
Jessamine Starbright, Pauline's chum and aide-de-camp...Frances Benedict
Pauline Van Astorgould, wealthy and popular Co-Ed.....Helen McGrew

Students, Professors, Co-Eds, Telephone Girls, etc.: Edna Simpson, Clara Falter, Millie Hartman, Clara Eisendrath, Norma Harpole, Wilma Cox, Ethel Indermille, Irene Vreeland, Mabel McAdams, Harriet Wilkes, Saida Brunk, Olive Cattelle, Louis Byrne, G. W. Borst, Fred Indermille, Robt. Wheeler, W. C. Haigh, Harry Wright, Don R. Frary, J. F. Strickler, R. M. Rhinehart.

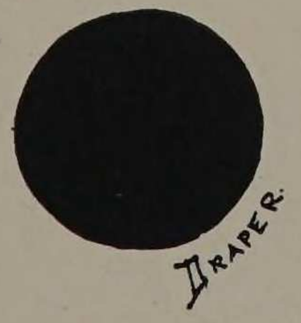
The Orchestra

First Violins—Sydney V. James, Willard E. Rupe, S. Vincent Norton. Second Violins—Eugene Hiller, F. A. Put, M. J. Moss. Violoncellos—Edwin J. Hiller, C. P. Hayes. Viola—Wm. Taussig. Bass—C. S. Wheeler. First Cornet—R. L. Slimmer. Second Cornet—K. W. Bartlett. Flute—Guy Middleton. Clarinet— ————. Trombone—J. M. Johnson. Drum and Traps—B. H. Sackett.

Executive Staff for Radical X Society

Business Manager.....C. P. Hatter
Advertising Manager.....B. H. Sackett
Stage Manager.....Guy C. Pierce
Properties.....Don Willard, Ralph Lowenthal
Electrician.....R. S. Torrence
Musical Conductor.....A. B. Benedict

Glee Mandolin and Banjo Clubs



Glee and Mandolin Clu5s

1901-1902

THE Glee and Mandolin Clubs' last year under the management of Reiniger and Hoops, enjoyed a very successful season. Although only two concerts were given, and no trip was made by the clubs their work was entirely satisfactory. The first concert was given at the Chicago Beach Hotel for the guests and their friends. The second at the First Baptist Church, for the benefit of the Baptist Hospital.

Benedict deserves praise for the efficient manner in which he handled the Glee club, and every one knows Tamaso's ability as a director. This year on account of lack of material for the mandolin club, the clubs have been given up.

Glee Club

A. B. Benedict, Leader and Director

First Tenors:	Second Tenors:
H. G. Leighton	C. C. Saner
H. S. Ashley	L. H. Stem
G. M. Johnston	R. R. Plumb
	W. P. Bear

First Basses:	Second Basses:
G. W. Borst	R. S. Draper
D. R. Frary	W. S. Taussig
H. B. Marshall	R. B. Harris
J. F. Strickler	W. A. Ratcliffe
L. J. Byrne	

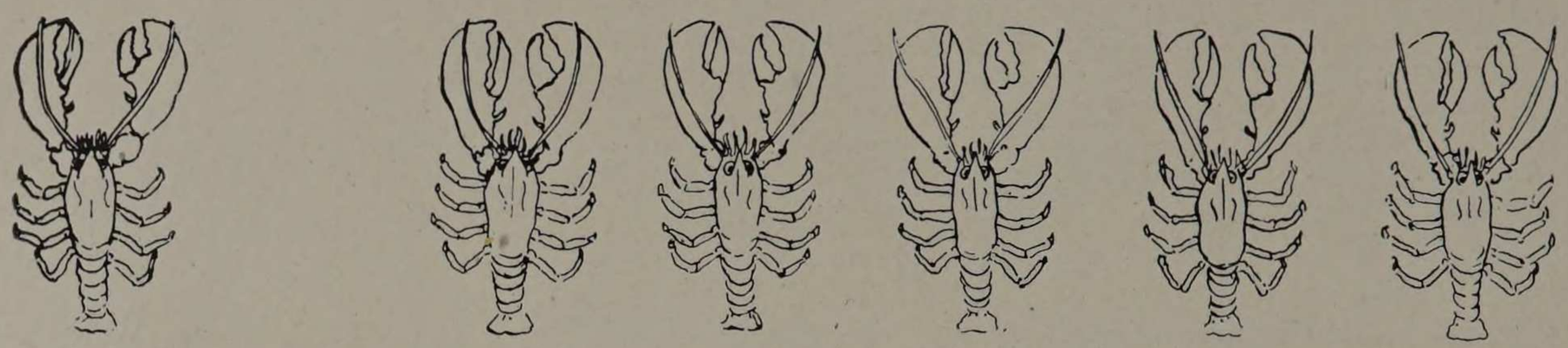
Mandolin Club

W. W. Hoops, Leader — Signor Tomaso, Director

First Mandolins:	Second Mandolins:	Guitars:
W. W. Hoops	Engbloom	J. E. Weeks
L. R. Levings	Goldsmith	Gordon
R. A. Nielson	Barker	S. J. Robison
W. S. Bates		
F. A. Emmons		

Cello, E. J. Hiller


SOCIETY



THE BALLADE OF THE LONESOME LOBSTERS

What shall we do through the dreary day—
Where shall we flee from these cheerless halls—
How can we memory drive away;
That many a happier time recalls !
The girl-less gloom on our spirit palls—
Life is as dull as dull can be.
Hence from these light-forsaken walls !
There's nothing doing at A. I. T.

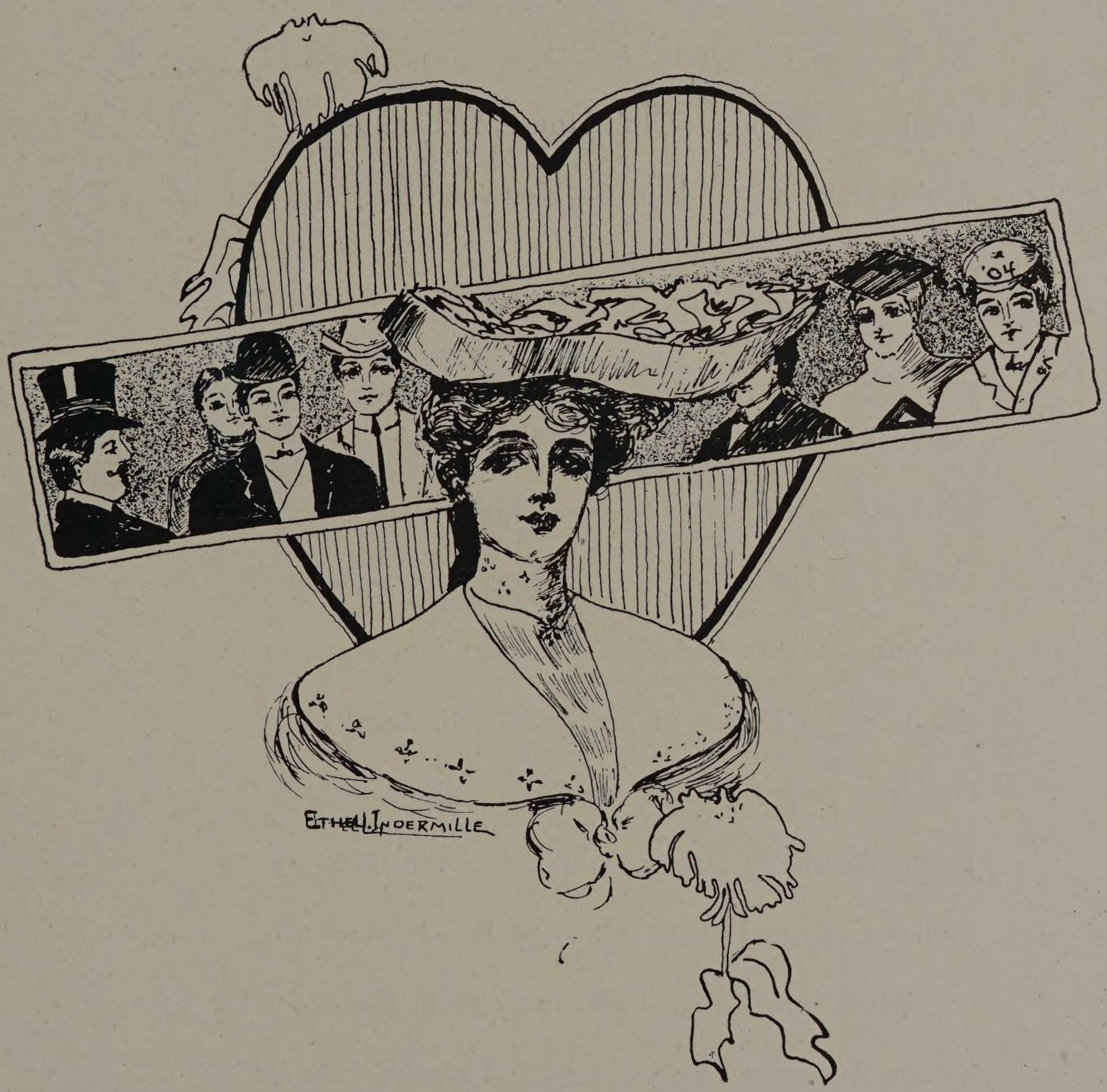
We wander around in a listless way—
The echoing lonesomeness appalls.
In Tech. and Academy both, we pray
For a blissful vision of skirts and shawls.
Each torpid hour like a tortoise crawls—
Life is as dull as dull can be—
We're tired of the click of billiard balls;
There's nothing doing at A. I. T.

The beer and the pipes are pushed away
For nothing can kill the care that galls;
The Sophomore says its the devil to pay:
The poor little Freshman sits and bawls.
In the library, none make social calls—
Life is as dull as dull can be
We're ripe for revolt, with riots and brawls !
There's nothing doing at A. I. T.

L'ENVOI.

Coeds, return! Your duty calls;
Life is as dull as dull can be
Lighten the gloom that around us falls!
There's nothing doing at A. I. T.

January 26, 1903. GORDON WILSON.



What We Have Done

1901

Senior Academy Dance—Chicago Beach, June 13

Omicron Kappa Pi Dance—Chicago Beach, June 21

Y. M. C. A.; Students' Social—Library, Sept, 27

Freshman Smoker—Club House, Indiana Ave., Dec. 1

Alpha Delta Sigma Dance—Kenwood Institute, Dec. 26

1902

Radical Dance—Oakland Club, Jan. 24

Senior Academy '02 Dance—Oakland Club, Feb. 21

Delta Tau Delta Dance—Chicago Beach, April 11

Freshman Tech. Dance—Oakland Club, April 11

Sigma Delta Dance—Chicago Beach, April 25

Omicron Kappa Pi Dance—Metropole, May 2

Junior Academy Dance—Oakland Club, May 23

Senior College Dance—Chicago Beach, June 6

"Coeds Courageous"—Steinway Hall, June 10

Senior Academy Dance—Chicago Beach, June 11

Y. M. C. A. Hand Shake—Library, Sept. 26

Freshman Smoker—S. S. Turner Hall, October 24

Radical Dance—Rosalie, Dec. 6

1903

Omicron Kappa Pi Alumni Dance—Colonial Club, Feb. 12

Freshman Tech. Dance—Forum, Feb. 27

Junior Academy Dance—Rosalie, Mar. 14

Minstrel Show—Mission, March 20

Phi Kappa Sigma Dance—Colonial Club, April 17

"A Night in Armour"—Mission, April 24

Junior Prom—Colonial Club, May 29.

How we Stand

Social affairs at Armour have decidedly fallen into a rut. There never was such a lack of doings before in the existence of our institution as there has been in the present year. It is very noticeable and much to be deplored. Such things, you know, are a great relief, mixed up with weeks and weeks of hard work, and it is beginning to look as though Armourites would have to hunt for their "reliefs" outside of school circles.

There is only one explanation so far as is at present discernable. It is the loss of our co-eds and the reaction from the large number of entertainments of former years. Let us hope that when we have gotten used to nothing but fellows that things will brighten up a bit and will have a little stunt on the side now and then.

The Freshman Smoker

From their childhood days the Freshman had heard of the Smoker they were to receive when they came to Armour. A smoker at which *they* could smoke right before the Doctor and their teachers, now! A smoker at which they were to meet the older fellows, and didn't have to stand in a differential attitude, saying "yes, sir" and "no, sir," but could even speak when they were not spoken to.

It was to be a smoker at which they were to hear the famous Benedict warble on the ivories; to weep when Hiller touched their heart-strings with the sympathetic cello; and to go into ecstacies when Taussig, our tender and never-to-be-forgotten Baritone and *Violinatone*, performed. They were also to hear Hoops tighten his strings and overwork the mandolin.

The evening came. The Freshmen came, the Seniors came, the Sophs. and Juniors came, the Profs. came, the Doctor came, Alf. Hodge came, everybody came, even Alderson came. Hurrah!

We had smokes and music, smokes and speeches, smokes and songs, smokes and more talks, smokes and noise, smokes and boxing; then, ah! thanks to the kind Sherman, a climax—supper, and smokes and talks, smokes and noise, etc.

Radical X Dance

The start of the season's social affairs was marked by the brilliant dance given by the Radical X Club.

The affair, given for the members of the Club, a few invited friends, and the cast of "Co-Eds Courageous," was held at Rosalie Hall on December sixth, nineteen hundred and two, Goldsmith Orchestra favoring the music.

The assemblage was a brilliant one. The ladies, many and beautiful, resplendent in magnificent gowns, gave a most pleasing appearance. The crowd was sociability itself, as every one seemed to know every one else, and while it could not be called an "Old Armour" dance every one enjoyed themselves.

A most pleasant evening was spent by all present, and the dance could well be considered a grand opening of the season and another achievement to be added to the glory of Radical X.

The Freshman Informal

The dance given by the Freshman class, on February 27th, at the Forum, was a decided success. The committee, which consisted of Messrs. Deming, Stone, Nielson and Rockwell, was well supported by the rest of the class, who did their share of the work in advertising the dance.

The dance was attended by a large number of Armour alumni and people from other schools. Armour functions still maintain their popularity and draw the good crowds which have always been the distinguishing feature of our dances.

The dancing started at 8:55, and the floor was continually filled with dancers, while cooling drinks were served in the parlors of the hall. Soon after twelve the crowd began to disperse, and at 12:30 the dancers were flying homeward in their carriages. A. R.

Minstrel Show

Another Integral Benefit! And we feel assured that we are safe in saying that it was as good as the last one. It was Armour's first minstrel show, and now we have found out our abilities in that direction. Such a bunch of good looking coons is hard to collect. And the chorus work! Superb!

Benedict, as always, gathered the orchestra from our midst by hard work and trained them well. Jens ought to be a theatrical manager, and Hatter—a man with a voice like his ought never to waste his years in a technical school.

The sketches were really good, but the stage manager had a strike among his helpers and great pains and much time was spent on the last setting. Jimmy Crawford is our star monologue artist for a certainty, and de Beer and Robinson were so natural that some one sent them a square meal. The elevator in Townsley's and Walker's sketch made a great hit.

The Gang.

Ends

Hardin	Partridge
Hannan	Carpenter

Interlocutor
Hatter

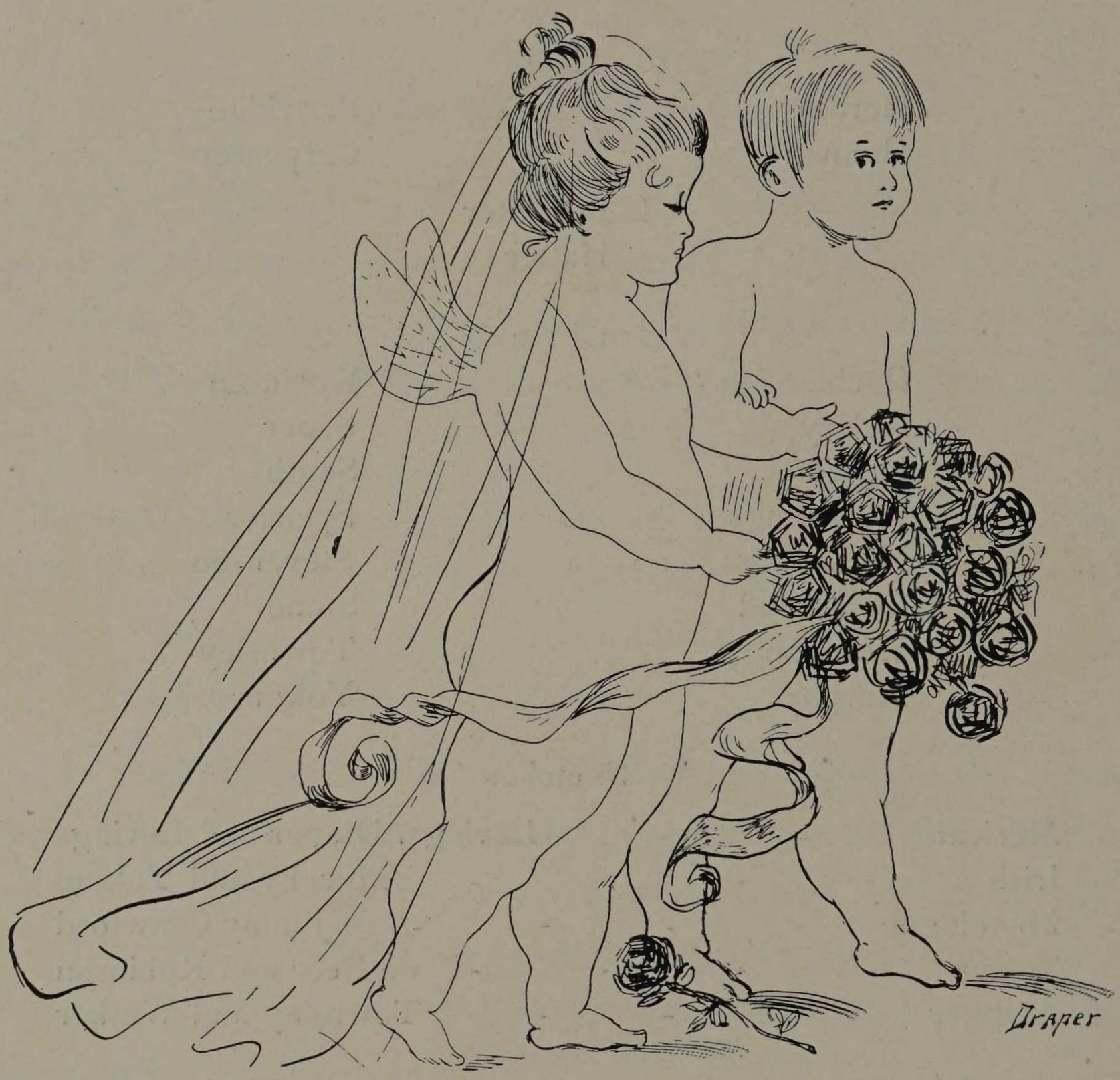
Circle

Buchler	Robinson
Kelsey	Saner
Henry	Smith
L. Levings	Spencer
M. Levings	Stevenson
Lockwood	Stone
Morrison	Townsley
Murphy	Yokum

Sketches

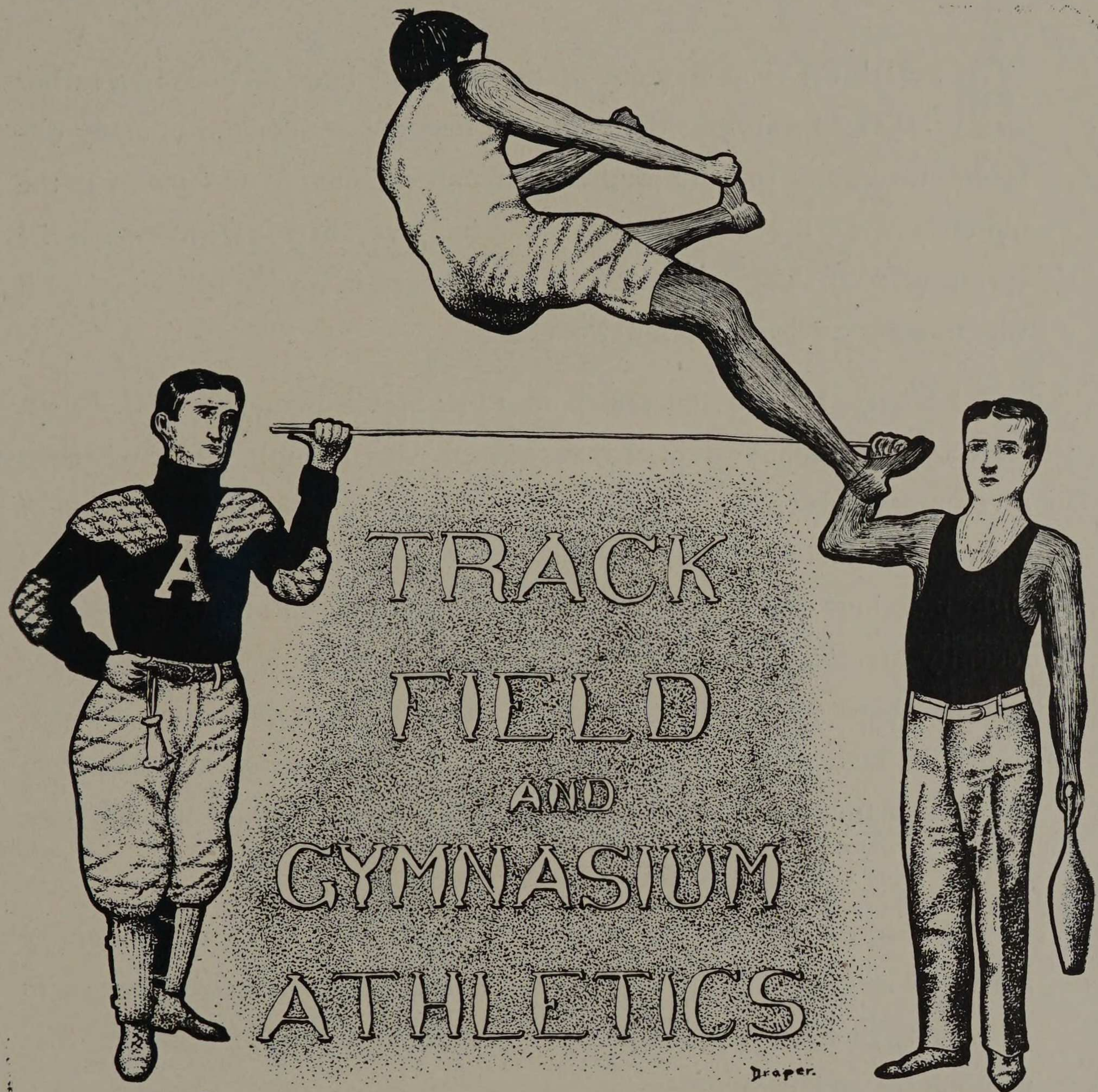
Musical - -	Levings, Draper and Levings
Irish - - - -	Murphy and Yokum
Monologue - - - -	Jimmy Crawford
Tramp - - - -	de Beer and Robinson
Another - - -	Townsley and Walker

Manager - - -	A. M. Jens
Assistants - -	C. P. Hatter, R. S. Draper



A MARRIAGE IN OUR MIDST.

(This is not a Photograph.)



TRACK FIELD AND GYMNASIUM ATHLETICS

Draper.

Our Athletics

ATHLETICS at Armour up to 1901 had been financially a rather shaky venture. Money to run teams was obtained in many different ways, and in spite of these difficulties some of the teams in the old days were the best that Armour has ever had. However, in the spring of 1901 things athletic at Armour were in a very bad way and it was thought advisable to make a change.

Largely through the efforts of Prof. McClement and T. S. Ellett, ex-'02, our present system of management was brought about whereby a voluntary subscription of one dollar per term is added to the tuition of each student, and athletic affairs are managed by a board of control of eight members (up to present year there were seven on this board, but recently Mr. Thomas, gym. instructor, has been made a member. He has also been placed over managers of all teams), one from trustees, two from faculty, two from college, two from academy, and one from gym. department, who elect managers for different teams, buy supplies, etc., etc.

During the school year of 1901–02 the returns from the voluntary fee were large enough to run the teams well, but the interest seems to be waning in spite of the efforts of the Athletic Board of Control. Let us hope for an improvement.

Athletic Board of Control

First Board

Trustees—F. U. Smith

Faculty—Profs. McClement and Raymond

College—A. M. Jens, L. J. Byrne

Academy—C. D. Dallas, C. H. Herrmann

1901---1902

Trustees—F. U. Smith

Faculty—Dean Alderson, Prof. McClement

College—A. M. Jens, Robinson

Academy—Dallas, Walker

Athletic Board of Control

1902—1903

President—L. J. Byrne

Vice-President—D. H. Ferry

Secretary—D. R. Frary

Treasurer—F. U. Smith

Members.

F. U. Smith

Prof. D. F. Campbell

Prof. C. W. Leigh

Dr. H. B. Thomas

L. J. Byrne

D. R. Frary

D. H. Ferry

A. Krowell


F. U. SMITH.
PROF. LEIGH.
DR. THOMAS.
L. J. BYRNE.
D. R. FRARY.
D. H. FERRY.
PROF. CAMPBELL.
A. KROWELL.

Tech. Foot Ball

THE development of our football team this year over that of last clearly shows what we could do if we had the advantages of other colleges. That is more time, more room and a regular coach.

The team which played through the season of '02 without losing a game and being scored upon only once, and then by a drop kick, was, with a few changes, the same one that came out so badly in the season of '01.

The cause for the difference lay in the fact that this year we had a coach, Ryan, and that last year's team was the first one that Armour has had since 1899. The '01 team was captained by A. M. Jens and managed by Brimson, and under the circustances the team which they developed was creditable.

A good advance was made by the football squad this year under L. J. Byrne as captain and A. M. Jens as manager. The schedule is not a large one but that very fact shows what the team was made of to be able to win games with practically no hard practice between. Much was due to coach Ryan, and in appreciation of his efforts a gold watch fob was presented to him by the Athletic Association.

With the same material for next season's team we may hope for the best.

Tech. Football Team, 1902

L. J. Byrne, Captain — A. M. Jens, Manager

L. E.—Crawford, Levings.
L. T.—Emmons, Davis, R. Jens, Stone.
L. G.—Hermann, Pierce, Davis.
C.—Blenkinsopp.
R. G.—A. Jens.
R. T.—Indermille.
R. E.—Hatter.
Q.—Seyl, Frary.
R. H.—W. Byrne.
L. H.—L. J. Byrne.
F.—Wright, Stone.

SCHEDULE

Chicago Scrubs	0	Armour	11
Ft. Sheridan	0	"	6
Lewis	0	"	6
Augustana	5	"	12

Tech. Football Team, 1901

A. Jens, Captain. — Brimson, Manager.

L. E.—Farkas, Beers.
L. T.—Emmons, Hermann.
R. H.—Wagner, Parker.
L. G.—Buie.
L. H.—L. J. Byrne.
C.—Rawson Lowenthal, Leighton.
Q.—Frary, Malcolm.
R. G.—Kreutzberg, Robinson.
R. T.—Indermille.
R. E.—Week, Hammond.

COLLEGE FOOTBALL SCHEDULE, 1901.

De La Salle	0	Armour	11
South Division	5	"	5
Lewis	10	"	5
Chicago Dentals	15	"	0
Rock Island	0	"	0



Tech. Basket Ball

THE basket ball team of '01–'02 was well up to the high standard set by the former Tech. teams. With Indermille as captain, playing his usual steady game at left guard, with Jens and Hermann doing star work in the forward berths, and with Ruegnitz to fill the center position and help out all around, the team put up a game that kept all their opponents on the jump. For the first part of the season the right guard position was held down by Koch, but he was unfortunate in his studies and after Christmas retired in favor of Kretsinger. Lundgren and Culbertson also earned their emblems by good work when called on. A good schedule had been arranged by Crawford and a majority of the games were won, the contest with the University of Wisconsin being lost by a narrow margin, 20–14, chiefly because the Tech. had had no practice games beforehand. The two games with Lewis were divided, each team taking the one in their own gym. The second, played in our gym., was a farce, the boys walking over Lewis to the tune of 45–21. The team was entered in the A. A. U. championship tournament but went out the first day, it being the first time they had played on a strange floor. They ended the season brilliantly, however, by defeating Central Y. M. C. A., the winners of the A. A. U. championship, in their own gym., by a score of 38–34

The team of '02–'03 was unfortunate from the outset, but, nevertheless, has kept up Armour's prestige. Indermille had been re-elected captain. and all the old men were back as well as some excellent new material, and things looked rosy for a star aggregation. But in the last football game of the season Charley Herrman was so badly injured that he was out of basket ball for the rest of the year. When, shortly after, Crawford resigned the managership and Indermille left school Ruegnitz was elected to fill Indermille's vacancy, and Kretsinger took up Crawford's work. A few weeks later Ruegnitz also left school and Kretsinger was chosen to fill his place. The boys, however, went through the season in fine shape, taking both games from Lewis, and keeping up their good work with the rest of their schedule by winning the last game from Central Y. M. C. A.

Tech. Basket Ball Team

1902—1903

R. G.—Indermille, Malcolm,
L. G.—Kretsinger,
C.—Ruegnitz, Lundgren,
R. F.—Carpenter,
L. F.—Jens, Herrmann.
Manager—Kretsinger.

SCHEDULE.

Tech.—19 vs. Wheaton—27. At Wheaton, Dec. 13th
" —16 vs. C. Y. M. C. A.—60. At Central, Dec. 20th
" —20 vs. Fond du Lac—32. At A. I. T., Jan. 9th
" —24 vs. Lewis—22. At Lewis, Jan. 21st
" —61 vs. Crescent Five—20. At A. I. T., Jan. 24th
" —38 vs. Lewis—15. At A. I. T., Feb. 4th
" —19 vs. W. S. Y. M. C. A.—26. At A. I. T., Feb 17th
" —30 vs. Physicians & Surgeons—24. At P. & S., Feb. 28th
" —39 vs. Port Washington—51. At P. W., March 6
" —15 vs. Monmouth—30. At Mon.
" —21 vs. Monmouth—38. At Mon.
" —27 vs. Central Y. M. C. A.—24. At A. I. T.

Basketball Team, 1901—1902

R. G.—Indermille, Captain.
L. G.—Koch, Kretsinger,
C.—Ruegnitz, Culbertson, Lundgren,
R. F.—Herrmann,
L. F.—Jens,
Manager—Crawford.

SCHEDULE.

Armour	14	Wisconsin	20
"	14	Central Y. M. C. A.	18
"	45	Alumni	17
"	26	West Side Y. M. C. A.	35
"	16	Lewis	16
"	45	Lewis	21
"	38	Central Y. M. C. A.	34



Tech. Base Ball

AT the opening of the Spring Term last year there was issued a general call for base ball candidates. A meeting was held in Science Hall and about thirty candidates turned out. The policy to be followed for the coming season was discussed and the candidates were told what was expected of them if they wished to succeed in making the team.

The season was not ushered in as a brilliant ray of light that eclipsed everything else. Many obstacles confronted the team. For the first time in the history of the Institute the candidates were compelled to face a statute enforced by the Executive Committee, which read: "He who would play base ball must not only be brilliant on the diamond, but must also shine in school work," which meant, in other words, "Flunks cannot play ball at A. I. T." Some of the candidates became very well acquainted with the rule, and as a result of it our wealth of candidates was cut down considerably. But this was not the only boulder in the path. New suits and the necessary equipment were needed and the financial condition of the Athletic Association was rather embarrassing. After some good hard canvassing, however, our loyal students came to the rescue. The team then had clear sailing.

About the middle of April the try-out season was over and eleven candidates were left to represent the Tech. on the base ball field. After a few practice games with the "*Acads*" the team went to Highland Park on April 23d for their first scheduled game. The result (14–0) in favor of the "Tech." was extremely encouraging. With such a start the team entered upon a career that proved a successful and victorious one.

On May 7th the team lined up against our old rivals, and after a hard-fought, exciting struggle of 11 innings we went down in defeat at the hands of Lewis. This was the best attended home game. The team made many trips, and on every occasion, with one exception, came home with the yellow and black flying triumphantly. All in all the year was a very successful one, one, let us hope, that has reflected credit both upon the team and the school. Every member of the team feels that it has been well supported, and they take this opportunity for thanking the school for the way it turned out to the games and for their loyal financial support.

Schedule

April	16		Tech.	9	Academy	6
"	19		"	14	Highland Pk. Acad.	0
"	25		"	8	Academy	4
May	3	A. M.	"	8	U. of C. Reserves	7
"	3	P. M.	"	13	N.-W. Medics	8
"	7		"	7	Lewis Institute	8—11 in'gs
"	17		"	3	Wheaton College	4
"	21		"	5	Lewis Institute	7
"	30		"	4	St. Viateues College	3
June	4		"	5	U. of C. Reserves	7
"	11		"	11	Valparaiso College	1
				—		—
	Total runs made			87	Opponents	55
	Games won			7	Lost	4

Tech. Base Ball Team

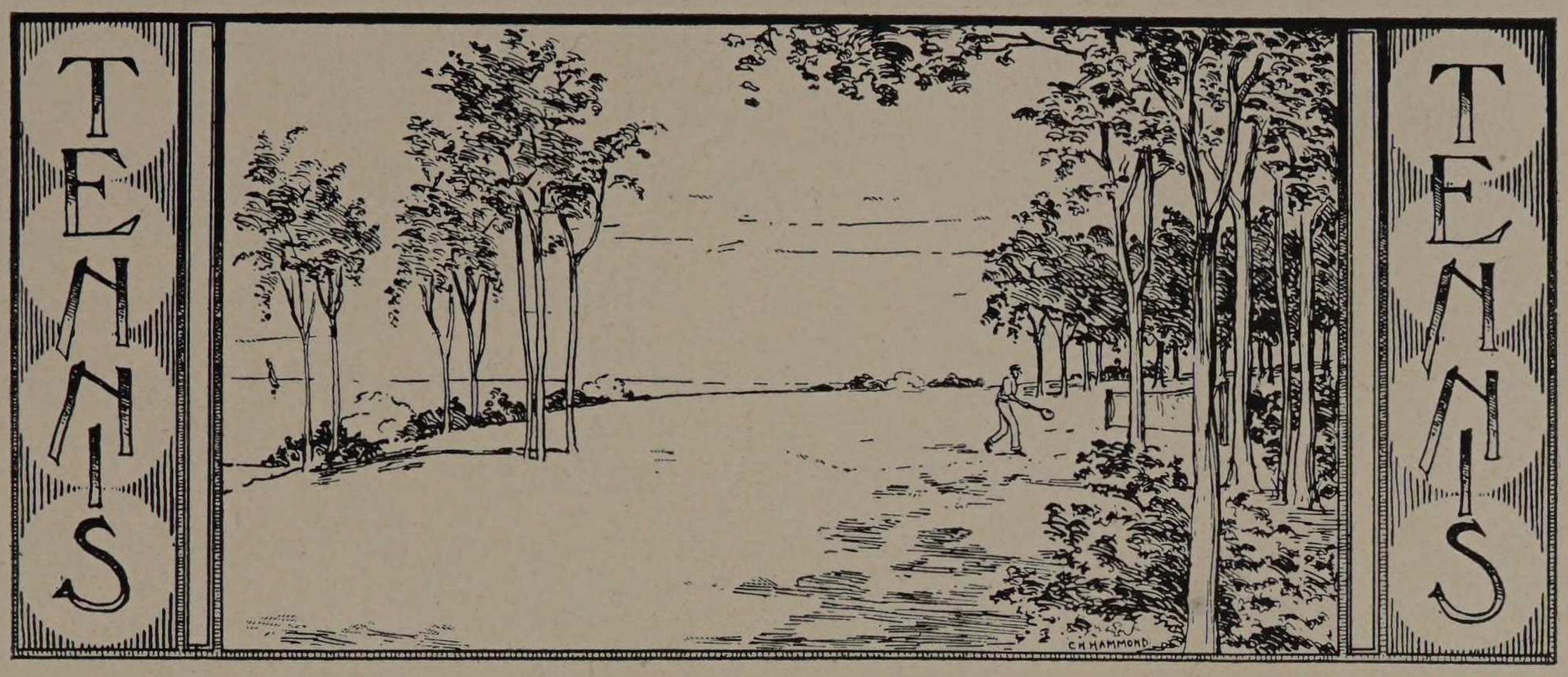
1902

P.—Hannan.
1st B.—Strang
3d B.—Brashares.
L. F.—Davis.
C. F.—Hatter.

C.—Hill.
P,—Peebles.
R. F.—Kretsinger.
2nd B.—Baird.
C. F.—Slocum.

P. Parker, Capt.


ARMOUR
TECH
1902



WHATEVER may be true of other games at Armour, Tennis is the only sport to which the school, academy and college gives its united support. Strange as it may appear, interest in Tennis is increasing every year. It does not follow that this is at the expense of other sports, but it is accounted for by the fact that the game seems to afford the students of all the departments and classes that measure of recreation and enjoyment for which they crave mostly.

Perhaps it is due to the character of the employment of Armour students, which in itself is more or less strenuous, that they seek Tennis as a relaxation in preference to some of the other popular sports. And yet there is nothing to show wherein Tennis calls for less physical exertion than base ball or foot ball. The difference is that it calls for exertion of another kind, and of a kind best suited to the students, or, at least, of the kind which is most acceptable to them.

Armour is a member of the Western Intercollegiate Tennis Asso-

ciation. C. Herrick Hammond, an Armour student, is vice-president of the W. I. T. A. The school stands high among Tennis players, and last year's tournament was the most successful in the school's history.

It was under the management of Melville S. Flinn, and its conduct generally has encouraged the belief that the tournament this year can be made an event creditable to the institution and to the association. Prizes to the value of $80.00 were provided last year, and the management this year should be able to do as well. The Trophy is a beautiful silver cup, presented by Roy K. Hitchens, and it goes to the man who wins two tournaments. It is held at present by C. Herrick Hammond, winner of last year's tournament.

Armour should have tennis courts of its own, in view of the large and increasing interest in the game. The expense of maintaining them would be small. In the light of the encouragement which has been given by Chicago merchants in the way of prizes, and the high position which Armour occupies among tennis players, evsry effort to promote the interests of the game should meet with a hearty response from the students.

M. S. F.



ARMOUR - LEWIS GAME.

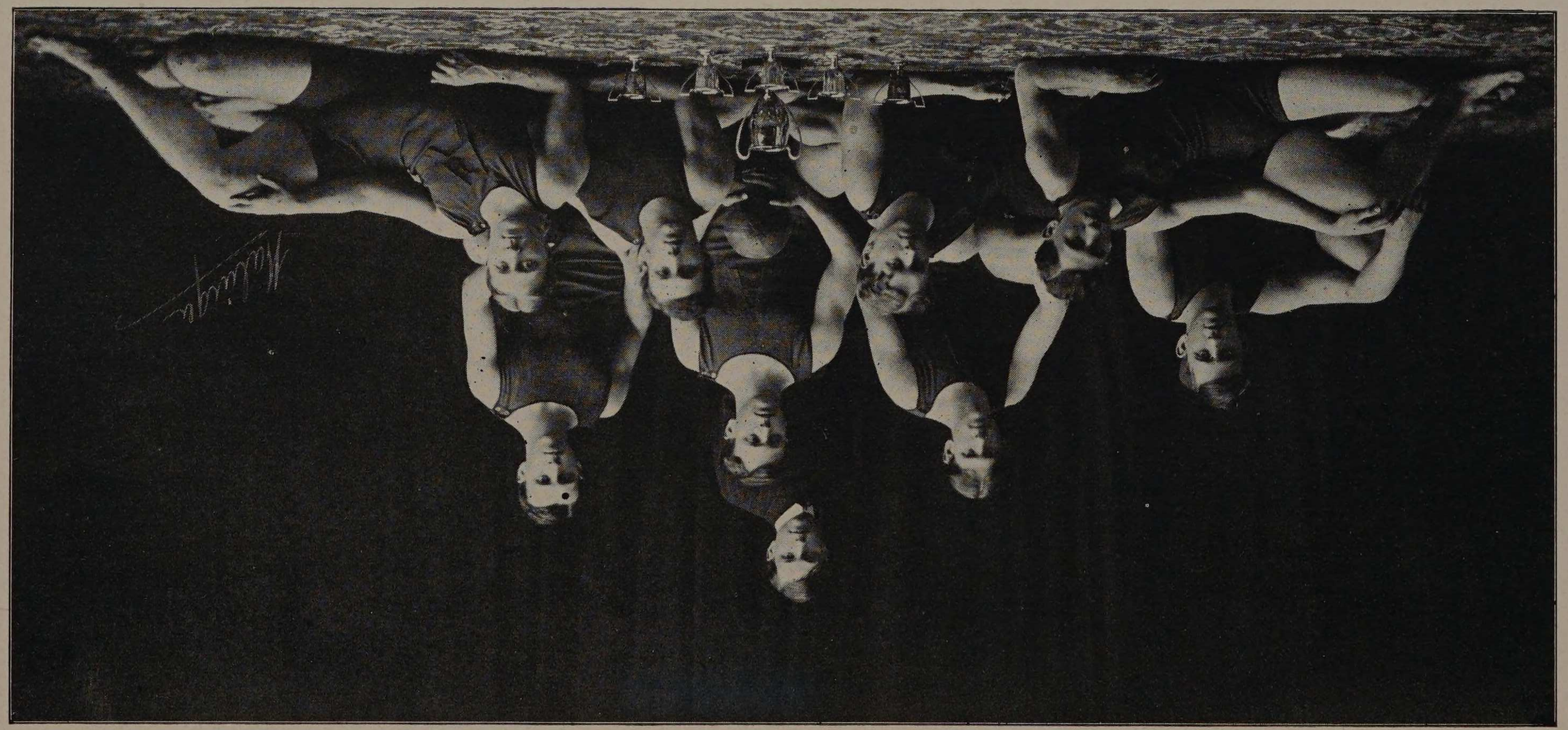
Courtesy of Mr. Chase.

Water Polo

DURING the year of 1902 the Water Polo Team repeated the good work of the team that won the championship of Water Polo and the Relay Race in 1901. The star men of 1902 were C. M. Stone, R. G. Tiffany, K. Slocum and H. L. Goetz. They were supported greatly by L. Broughton, G. N. Crawford, D. Dallas, R. Mathew Loewenthal and E. Elliott. In the series of games at the Coliseum, Lewis Institute defeated English High, Oak Park defeated Lewis, North Division defeated Oak Park and Armour, by defeating North Division, by a score of 3 to 0 won the championship. Armour also had a practice game with Columbia University but met defeat by a score of 1 to 0. In this game Armour had but five men to Columbia's six, which was a great drawback to Armour.

The team has never been defeated or scored upon by any other team during a series of scheduled games for the championship. The good work of H. L. Goetz, as rush, K. Slocum and R. G. Tiffany, as forwards, is well remembered because without these men the team would never have won. C. W. Stone and L. Broughton were the main supports in defending Armour's goal. They always kept the opposing side from scoring.

Rush—H. L. Goetz (Captain).
Left Forward—K. Slocum.
Right Forward—R. G. Tiffany, G. N. Crawford.
Left Back—D. Dallas.
Right Back—C. W. Stone.
Goal—L. Broughton.
R. M. Loewenthal, E. Elliott, Reserve.



Academy Athletics for 1901---'02

The 1901 Foot Ball Team

THE season of 1901 was one of the best in the history of the Academy foot ball teams. It was very satisfactory when it is taken into consideration that the team was greatly handicapped by not having the services of a professional coach. It was not, however, without any coach, for Prof. Leigh made a very able one when his duties permitted him to do so, and it was his coaching which undoubtedly made the team the victors over South Side Academy upon two occasions.

The team was under the management of C. D. Dallas, and was composed of the following players:

L. E.—Levings, Walker.

L. T.—Mansfield.

L. G.—Ratlije, Allen.

C.—Loewenthal, Maris.

R. G.—Jackson.

R. T.—E. Everhart.

R. E.—Gorham.

Q.—Jenks, Crawford.

L. H.—Ferguson.

R. H.—Crawford, Slocum, Aiken.

F.—Alsip, Slocum.

R. O. Walker was captain during the first part of the season but resigned upon request of his parents, and Ferguson was elected in his place.

The schedule resulted as follows:

A. S. A.	5	South Side Academy	0
"	0	Morgan Park Academy	39
"	11	Stearns Academy	5
"	6	Princeton–Yale	6
"	25	De La Salle	0
"	17	Buena Park	5
"	0	Lake Forest Academy	6
"	15	South Side Academy	12
"	6	Northwestern Academy	0
"	6	Englewood High School	0

At the close of the season Wm. Mansfield was elected Captain for 1902.

The 1902 Foot Ball Team

The Academy Foot Ball Team for 1902 had a very hard struggle to hold together throughout the season. The first mishap came when it was found that several of the best players had to be dropped because they were ineligible to play. This seemed to be the signal for the team to go downward instead of progressing. Captain Mansfield did not return to school until after the first game, and consequently the Fort Sheridan game was played without any one as captain. After this game W. Everhart was elected captain. Another reason for the poor showing made by the team was, as has always been the case, a lack of good, thorough coaching. Prof. Leigh tried his best to help the team, but as his work was extremely heavy he could not devote much time to coaching. Later in the season Max Beutner took charge of the team, but it was too late for any good to come of it, so the season ended as it began.

Several games scheduled by the manager, C. U. Smith, were not played owing to the incapability of the players. The games played resulted as follows:

A. S. A.	0	Battery D (Fort Sheridan)	15
"	6	A. I. T.	15
"	5	East Aurora H. S.	27
"	39	De La Salle Institute	0
"	0	South Side Academy	6
"	0	Lake Forest Academy	47
"	0	Northwestern Academy	40
"	12	Morgan Park Academy	18
"	7	St. John's M.A. (Delafield, Wis)	11

The line-up of the team was as follows.

R. E.—Wilkins, Stevenson.
R. T.—McCarthy, Harrold.
R. G.—Broughton.
C.—Foss, Paul.
L. G.—Paul, Foss.
L. T.—Mansfield, Shepherd.
L. E.—Marchetti.
Q.—Ferry.
R. H.—Everhart.
L. H.—Shepherd, Wilkins.
F.—Breuton, Hooper.

At the end of the season Marchetti was elected Captain for the 1903 team and J. R. Lee was appointed Manager by the Board of Athletic Control. We hope to see a far better team next year than there was this year.

C. U. SMITH.



Academy Base Ball for 1902.

The A. S. A. Base Ball Term, for 1902, was one of the strongest that ever was organized in the Academy. It did not have the advantage of a coach but did a great deal of hard work under the direction of Captain Merrill. G. N. Crawford was manager and arranged this schedule, which resulted as follows:

A. S. A. vs. South Division High School, 20–2.
" vs. Olympic Athletic Club, 29–5.
" vs. English H. and M. T. S., 14–3.
" vs. Lake Forest Academy, 14–8.
" vs. Northwestern Mil. Academy, 7–3.
" vs. South Side Academy, 3–9.
" vs. Northwestern Academy, 10–9.
" vs. Morgan Park Academy, 15–8.

Had it been proven that Buchanan, the South Side Academy pitcher, had been a professional, as was supposed, the Academy would have had the pennant of the Inter-Academic League for the base ball championship.

The team consisted of the following players:

C.—Merrill.
P.—Slocum, Mansfield.
1st B.—Harmon.
2nd B.—Mower.
3rd B.—Mitchell.
L. F.—Witmer.
C. F.—E. Everhart.
R. F.—Crawford.
S. S.—Burdick.

Academy Track Team for 1902

There was practically no Track Team in the Academy in 1902. The so-called team had one meet, which it lost to South Side by the score of 46–31 at the U. of C. gymnasium. Levings was captain, and R. O. Walker was manager. There was no out-door team at all,

The prospects for this year are very bright, although the team was beaten by Morgan Park Academy by the score of 57–33, only because of neglected training on the part of the Academy team. A. C. Geist is captain and A. M. Maris is manager. The team lost to South Side Academy on February 28.

C. U. Smith.

Basket Ball in the Academy

Season of 1901—'02.

BASKET BALL has ever been a favorite among the sports in the Academy, and this year showed no lowering in the usual standard of excellence maintained by the Academy team.

In fact, the team was probably better than those of previous years if records are the standard of comparison.

The team lost only one inter-scholastic game during the season, and this through a fluke. The result of the next game with the same school cancelled the score.

With this record, the team decided they had won the undisputed right to claim the championship of the secondary schools in the West. Although having once defeated the champions of the League, the Medill High School, the Academy team issued a challenge to them for a series of games for the championship, but Medill, thinking that the banner looked best in their school, declined the challenge.

Academy Basket Ball Team

1901—1902.

The members of the team are:

Rockwell, - -	Captain and Left Forward
Krowell, - - - -	Right Forward
Noble, - - - - -	Center
Silberberg, - - - -	Left Guard
Heilprin, - - - -	Right Guard
Kaufmann, - - - -	Substitute

Falk, Manager. Reynolds, Coach.

SCHEDULE.

A. S. A. vs. Medill High School, 28–12.
" vs. Lake High School, 43–7.
" vs. Baker Athletic Club, 23–18.
" vs. Young Men's Christian Ass'n, 14–32.
" vs. English High School, 29–31.
" vs. Elgin Academy, 40–31.
" vs. English High School, 35–24.
" vs. River Forest Athletic Club, 17–24.
" vs. Elgin High School, 49–20.
" vs. Wheaton College, 5–42.
" vs. Elgin Academy, 43–18.

Academy Basket Ball
for 1902–1903

WHEN the last Basket Ball season opened the prospects for even an average team were far from good, only one man from the previous year's team remaining, namely, Andrew Krowell. He was made Captain, and under the management of D. H. Ferry, and the coaching of H. G. Reynolds, a team began to grow which has been unequaled in the history of basket ball in the Academy.

This team met and defeated all the high school teams of Chicago and vicinity who would accept its challenge, and also defeated such outside teams as Elgin Y. M. C. A., River Forest Athletic Club, etc., who were supposedly above their class. So the team holds an unstained record, having defeated every team to which it has been opposed.

Besides this, it has a record of a point a minute for every minute of play since the season opened. The sum total of points made by the Academy team are five times those made by its opponents. This fact is largely due to the playing of Captain Krowell, who is rightly considered the best basket thrower in the preparatory schools of Illinois. The points made by Krowell alone are thrice those made by all the opposing teams combined.

The extraordinary record of this Academy team has probably never been equalled, and it has made Armour famous for its basket ball.

Academy Basket Ball Team

1902—1903

Krowell, - - Captain and Right Forward
Rockwell, - - - Left Forward
Johnson, - - - - - Center
Battis, - - - - Right Guard
Benbrook, - - - - Left Guard
Loewenstein, - - - - Substitute
Reynolds, - - - - - Coach
Ferry, - - - - - Manager

SCHEDULE.

A. S. A. vs. Englewood High School, 76–8.
" vs. Austin High School, 38–15.
" vs. Medill (forfeited by Medill H. S.)
" vs. Lake High School, 25-22.
" vs. Chicago Latin School, 46–23.
" vs. Elgin Y. M. C. A., 29–18.
" vs. Calumet High School, 47–15.
" vs. Elgin Y. M. C. A., 43–18.
" vs. Waukegan H. S., (postponed).
" vs. Chicago Latin School, 49–31.
" vs. Englewood Independents (forfeited by Englewood).
" vs. Englewood High School, 51–7.
" vs. Lake High School, 34–23.
" vs. Hinsdale High School, 32–18.
" vs. South Side Academy, 37–14.
" vs. English High School, 39–28.



The Sophomore-Freshman foot Ball Game

American League Park, October 29, 1902.

THE enthusiasm of Freshmen Tuesday, was to find vent in the hard fought battle for supremacy on the gridiron.

Here is the history of the case and how it all came about; merely a matter of record that our children and their children may know of Freshmen Tuesday and the Foot Ball game thereafter.

When '04 were Freshmen, it may be said that there was a new Armour boom. All could feel the awakening of a new spirit and a sense of strength that has not left Armour since. Every one knew that something had changed, but no one knew exactly what. There was no competitive spirit to combat the new life, and it could not make itself known.

But with the coming of '05 matters changed. Here were two mighty spirits, both the children of the "New Armour." Almost equally matched, equally strong in the vigor of their number and always ready to be doing (their teachers?)

As a natural occurrence these two mighty spirits met on the campus, and there fought for the banner till stopped by our city fathers, the cops. Then came the Foot Ball game, the mighty rush on the grounds, the taking down of the Freshmen flag, the raising of '04's banner, and '05's victory.

Thus it came to be that '05 and '06 met on the field of honor to decide which was the stronger of the two in matters of skill, for they were evenly matched in mass plays on the campus.

Ought five, as Freshmen, defeated '04 on the gridiron, and '06, as

Freshmen, defeated '05. Next year, in all probabilty, the Freshmen class will win again, for it would not do for '06 to cast to the winds a precedent of two years standing.

Worthy Seniors and lazy Juniors assembled to see the 1902 game with a few, alas! a very few of our lost co-eds, and the rest of the audience was a howling, fighting mob of Freshies and Sophs.

It is hard to remember much of the game, for the side-show took up half of a spectator's time. The Freshmen were *it*, however. They owned the big flag pole, from which their banner floated jauntily, held aloft by a box kite; they presided over the score-board, which was a work of art; they yelled and howled and kept things moving. The only thing they didn't do was to keep the Sophs. from burning '06 in effigy. And then they won the game, to finish with, as good Freshmen should.

AFTER THE GAME.



"FRESHIE."



"SOPH."

Freshmen Foot Ball Team.

R. E. Jens, captain,	R. T.	Jackson,	R. G.
Levings,	R. E.	Crawford,	L. H. B.
Stone,	F. B.	Slocum,	R. H. B.
Davis,	L. T.	Pierce,	L. G.
Jenks,	Q. B.	Johnson,	C.
Wilson,	L. E.	Walker,	Manager.



Class Games

BEGINNING last year 1901–1902 class games have become a regular part of our school life. The Freshman–Sophomore football game has become an annual affair, looked forward to by all students and attended by large crowds.

Last year all classes participated in a basket ball tournament, which 1904 won by defeating each class team and an all star team. This year '06 has defeated all teams put in the field, both in B B. and F. B. But interest in inter class basket ball games, as in the case of foot ball, seems now to center around the two lower classes.

Results of the Games

FOOT BALL.

1901.

Class '05	11	Class '04	6

1902.

Class '06	16	Class '05	6

BASKET BALL.

1901-1902.

Class '04	43	Class '05	18

1902-1903.

Class '06	25	Class '05	21
Class '06	14	Class '04	7

The Tech. Bowling Tournament

IN the winter term of this school year a bowling tournament was arranged and was participated in by four teams, one team from each class of the college. The tournament consisted of 27 games, each class rolling 9 games with each of the other classes. The games were rolled on Levy's alleys, at Forty-seventh street and Calumet avenue, and a silver cup was presented by Mr. Levy to the class winning the greatest percentage of its games. The successful class proved to be '06, which assumed the lead at the start and held it throughout the entire tournament. The class of '04 was a close contender for first honors during the early part of the tournament, but the Junior team slumped badly near the close and failed to hold its position. The other classes, '03 and '05, although rolling a good game of ten-pins, were never, at any time, dangerous contenders for first place.

One of the best results of the bowling tournament, and one which it has in common with all inter-class contests, was a tendency to foster class spirit and a loyalty to class organization. In this respect the class of '06 clearly outclassed all the others, and to this fact as much as any other is due their winning of the trophy which symbolizes the Tech. bowling championship of 1903. The other classes, however, showed good loyalty to their respective teams, and every Saturday afternoon during the months of February and March Mr. Levy's bowling establishment was literally taken possession of by a jolly crowd of college boys, and the merry music of falling pins was completely drowned in the class and college yells.

Our first bowling tournament has passed into college history as an eminent success, and we hope that it may be repeated each year, fostering a wholesome class rivalry and increasing in interest from year to year.

The teams which represented the various classes were composed of the following:

'03.	'04.
Mueller (Captain).	Peebles (Captain).
Strickler,	Jens,
Taussig,	Frary,
Lanning,	Wickersham,
Stillson.	Robison.

'05.	'06.
Lewy (Captain).	Ellett (Captain).
Smith,	Mulholland,
North,	Goetz,
Mead,	Edwards,
Ferguson.	Wallenberg.

The standing of the classes at the close of the tournament was as follows:

Class.	Games Played.	Won.	Lost.	Percentage.
'06	27	18	9	.667
'03	27	13	14	.481
'05	27	12	15	.444
'04	27	11	16	.408
	225			

Leading individual averages:

Peebles, $167\frac{2}{2}\frac{3}{7}$

Mulholland, $166\frac{1}{3}\frac{0}{6}$

Ellett, $155\frac{2}{2}\frac{2}{5}$

Goetz, $155\frac{1}{1}\frac{1}{5}$

High individual averages, 3 games, 180 or better:

Peebles, 193⅓, 186⅔

Strickler, 183⅓

Mulholland, 181⅔

High individual scores, 1 game, 210 or better:

Mulholland, 246, 211

Peebles, 242, 215, 221

High team score, 1 game, '06, 891

High team average, 3 games, '06, 797⅓

MISCELLANEOUS

A Musical Fancy

BY LOUIS C. MONIN.

THE finite is forever attempting to remain in tune with the infinite. But only the best of mortals have been able to attune their lives to the harmony of the spheres. Most men succeed in this only at rare intervals of their discordant strenuousness, and many are out of tune all their life. Those who blow their horn the loudest are generally



farthest from chiming in with the sweet melody of the season's greetings, and while they pretend to lead the band they are in reality disturbing the measure and the rythm of the concert by accentuating their personal note, either at the wrong moment, or with a fortissimo mal place.

The world is indeed like a great orchestra, where, according to his whims and his capacity, every one is playing a different instrument, believing it to be the most important of all. Of course, we will wish to play the first violin, but on looking the field over and considering the difficulties we are finally glad to be kept at work playing second fiddle. One man is interested in the kettle-drum and the money market; another likes to breathe the flute in the solitude of a moonlit summer

night. One sets out on life's journey with a flourish of trumpets, while another prefers to put as many strings to his bow as he possibly can. Only very few become soloists, the favorites of the gods—the mass of mankind has to practice ensemble play while Fate is beating time. Happy he who has learned to count faithfully the bar-rests when it behooves him to keep silent, and who is keeping time throughout the entire score.

At every cradle the Fairy announces the key in which life's battle hymn is to be sung. The rich, the healthy, the beautiful, the strong, and the smart, chant it in the major key. The others are compelled to play it in one of the minor keys. Yet the best musicians assure us that the latter express better by far the emotions of love or of faith.

Sometimes the keys change during a lifetime, usually from the major to the minor key, rarely the other way.

Life starts out with an *allegro* and a two step movement, going on *crescendo* in a waltz or march tempo until in middle life the song deepens and broadens into a symphony; repetitions occur, stops and discords appearing in the harmonies, and *andante* or *majestuoso* the performance continues until the last bar is reached. It is not wise to indulge in a *presto* for too long a time, as this is bound to stop short and unexpectedly, leaving the sense of completeness dissatisfied. It is always best to let some peaceful *adagio* follow. Where there is no "Leitmotif," no guiding principle, the theme is apt to go astray in preluding and endless variations.

And there they rush, men, women and children, like so many notes, climbing up and down the do, re, mi, fa, etc., the leader of social standing, of fame or of wealth, and attaining a higher pitch and

and a more penetrating power the farther up they mount. Some are able to settle firmly along one of the established lines; others stand in the intervals, between folly and wisdom, between poverty and luxury.

How comfortable that prominent citizen is looking while sitting on the broad veranda of his summer home and looking over the park and the meadows, all his own, does he not remind one of the whole note with the sustaining mark over it (𝅝)?—fat, round, heavy, important. Mrs. Prominent, with butler, maid and footman, is she not like another one of those sustained notes with a few short ones near her to give her prestige (𝅗𝅥 𝅘𝅥)? Business men and professional men resemble so many crotchets (♩) in a composition—not too swell nor too insignificant. The pretty girl, all flounces and frills, a semi-quaver (𝅘𝅥𝅯) dancing lightly alone or in pairs (𝅘𝅥𝅯𝅘𝅥𝅯) in the human opera. Here and there a kind Providence adds a little to life, granting a title or an inheritance fitting the owner like the dot after the quaver (♪.) that enhances it value.

Yet, high or low, fat or lean, with *flats*, sorrows, or *sharps*, joys, in front of them to guide their ways, the same fate awaits them all. Towards the close of life the Fairy smiles, "*Lento* and *diminuendo*," until the great Leader of the universal orchestra gives the signal for the final cadence, and an angel writes "Finis" when the last chord has died out.

John Elmer Week

THE report that John Elmer Week, an Armour graduate, class 1902, had been treacherously murdered in Mexico, came as a great shock. No one was ready to credit it until confirmation came from the family some five days later.

Week and Sanford, classmates, were employed by the Compania Minera de Penoles Matini, Durango, Mexico, on a line of power transmission at Zamora, each having a number of Mexican linemen under his charge. On March 3rd, they were working several miles apart and about twenty miles from any Americans, when one of the men with whom Mr. Week had had some difficulty, stabbed him in the back, and in a very few minutes he bled to death, long before Sanford could reach him.

Immediately upon receiving a personal dispatch from the manager of the Company by which he was employed, stating that it was reported that their son had been fatally injured, the parents started, Mar. 4th, upon the five days trip to Mexico. But before they had reached the journey's end they were met at El Paso by Sanford with the body, which was then taken to Stevens Point, Wisconsin, the home of his parents, where the funeral was held March 16th.

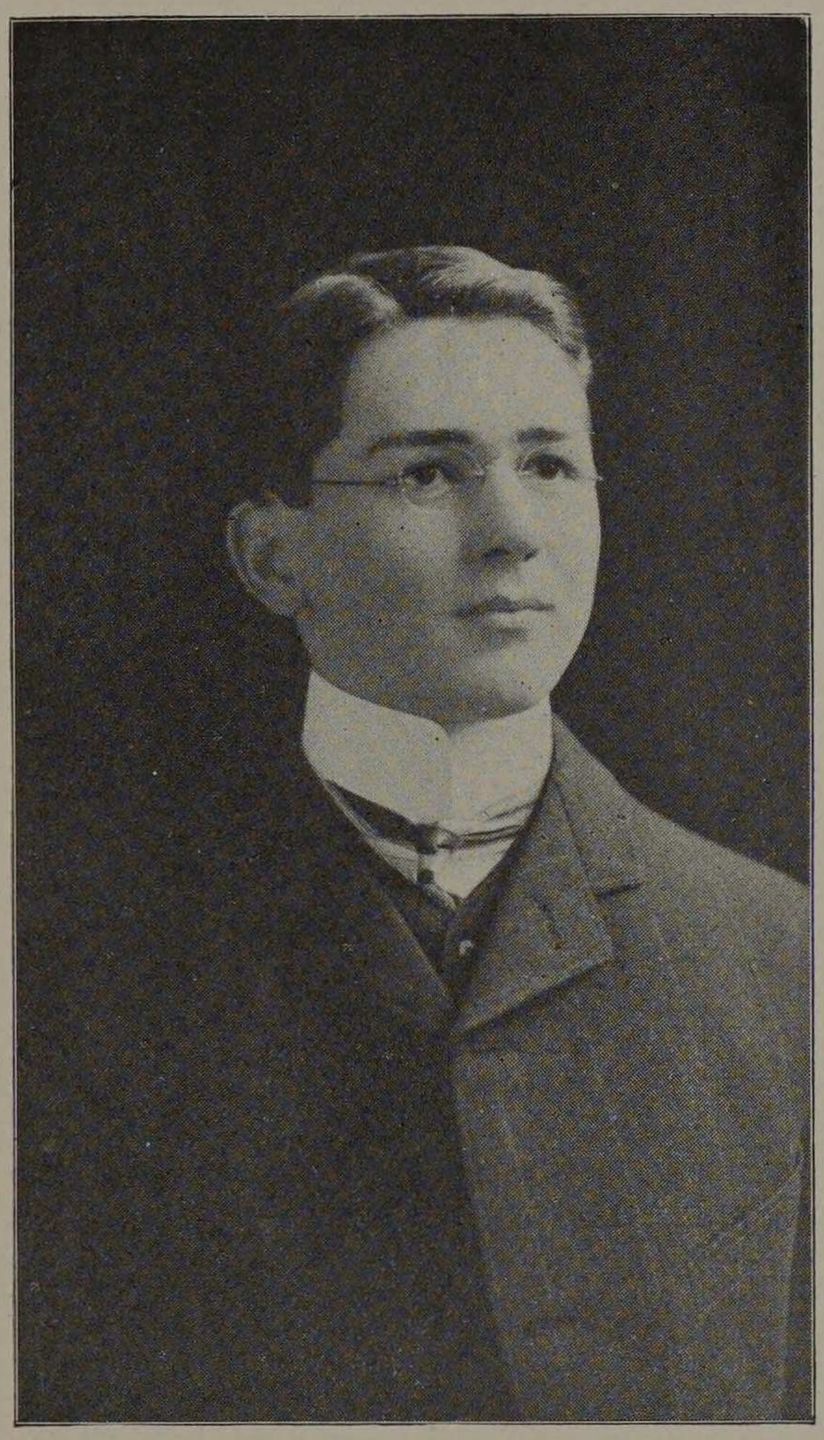
His death brought deep sorrow to his many friends, who were horrified at its sudden and awful manner, and grieved at the cutting short of a brilliant career. With an early start in the work for which he had prepared and the brightest of prospects, great things were pre-

dicted for him by his friends. The school was proud of its youngest graduate. The fact that he was only twenty years of age at the time of his graduation from the course of electrical engineering as one of the brightest students is some evidence of his ability.

He was also active in the various student enterprises, both athletic and social, being a member of foot ball, basket ball and water polo teams, the Glee and Mandolin clubs, the "Tech." society and the Delta Tau Delta fraternity.

He was especially fitted for all athletics, having a fine physique and remarkable physical development and strength. He passed with credit the physical and all other examinations for entrance, both to West Point and Anapolis, and had recently received an appointment to the naval engineering corps at Anapolis. He would have entered on his new work in a short time.

By his sunny disposition, impulsiveness, and good nature. he made many friends, and all the school mourns his loss.

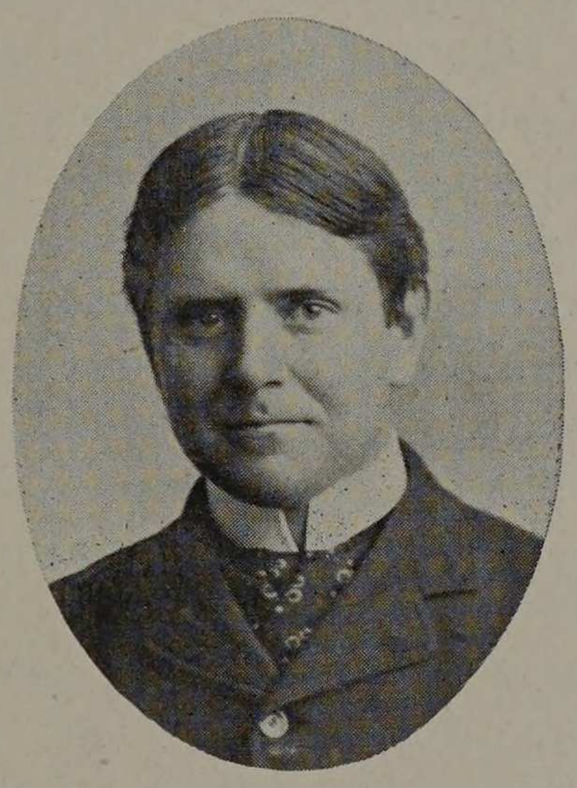


JOHN ELMER WEEK.

Hugh Guthrie Leighton

HUGH GUTHRIE LEIGHTON was born June 25, 1877, at Jewett, N. Y. On March 1, 1903, he passed away, after an illness of two months. His death was the result of heart disease, which had first showed itself seriously after excessive athletic training received while attending the University of Chicago.

Hugh's early years were spent in study under the teaching of his father in private schools. Up to his eleventh birthday he studied at Yonkers, N. Y. After leaving there he studied in Portland private school and Washburn Academy, Topeka, and in Erie Academy, Erie, Pa., attending each of these schools for one year. One peculiarity in his education is that he did



not begin his study of mathematics, which later proved to be his favorite one, till after he was eleven years of age.

In 1891, when Hugh was fourteen, the Leightons came to Chicago. Hugh's first two years here were spent in West Division High School. After the completion of his second year he attended South Division for a few months but soon changed to Hyde Park. Here he finished his high school course, graduating in 1895.

After staying at home for one year, Hugh entered the University of Chicago. While here he belonged to a young men's social club, known as

the Dragon's Tooth. Later this society was granted a charter by the Phi Gamma Delta fraternity, so that at his death he was a member of this fraternity. Besides this fraternity interest, Hugh was a member of the Glee Club, and proved to be a valuable man in athletics. At the end of his four years he was graduated.

At first it had been Hugh's intention of following up his literary course by studying for the ministry. For certain reasons, however, Hugh changed his mind. While talking with his father one day, the latter suggested an electrical course at Armour. Although Hugh had never thought of entering the engineering profession he now began to think seriously of becoming an Armourite, and after careful study he finally decided upon such a course.

Accordingly, after spending a year studying mathematics with his father, who is a professor in that subject at Hyde Park High School, Hugh enrolled in the '05 class of the Engineering College. From the start Hugh was received with friendly feeling and confidence by his fellow classmates. At our first class election Hugh, though known by but few of the members, was elected Vice-President for the first term. At the beginning of the next term Hugh was still more highly honored by being elected President. This honor was a second time bestowed upon him this year, at a time when Hugh was lying sick in bed. These facts alone are all that are necessary to show the respect which the class had for Hugh and his ability.

Meanwhile, Hugh was not by any means restricting himself to class organization. At the beginning of his course he became a member of the Glee Club, where his ability immediately won him prominence and made him first tenor soloist. Hugh's sweet voice was liked and admired by all who heard him. At the election of officers for the present year Hugh was chosen leader.

Not satisfied that he was already doing enough for the honor of his school and class, Hugh entered the athletic field as a foot ball player, and did his share toward winning many victories for his Alma Mater.

Hugh also managed to find time to interest himself in Y. M. C. A. affairs, having been chairman of the religious meetings up to the time of his death.

Hugh's active religious life began in November, 1891, shortly after reaching Chicago. He united with the Fourth Baptist Church at the age of 14. For the last eight years he has been a member of the Lexington Avenue Church. In 1899, in recognition of his ability, the church authorized him to preach.

His musical career has been a marked success. Up to two years ago, Hugh sang with the Lexington Avenue Choir. Two years ago he started

taking vocal lessons and changed to the St. James M. E. Church Choir. Within the last year he received a position at the H. P. Baptist Church as solo tenor, where he served up to the time of his death.

What more need be said about Hugh and his character? That which has gone before speaks for itself. But one cannot say enough in praise of our departed schoolmate. He had such a sterling character, and such a high conception of life, that we unconsciously look up to him as a pattern.

Hugh was a clear headed thinker, and was well supplied with what is known by Armourites as "horse sense." Among his papers was found one entitled, "My Policy." From lack of space we cannot print it all, but have picked out a few points which, perhaps, show best of all of what the man was made. They are as follows:

1. To keep sacred for study every evening but Friday and Saturday.
2. To attend faithfully and promptly all class exercises.
3. To do my share in class foot ball.
4. To attend faithfully to the Glee Club.
5. To try to get time for class socials by making up my school work ahead.
6. To consider that I have not a moment to be wasted.

Hugh was very ambitious. He always made the most of the material at hand. He was bright, and determined to become well educated. He had the foundation for a fine voice, and though somewhat inconvenienced by so doing, he had it cultivated. In fact, whenever he saw a chance to better himself he seized the opportunity.

"His life was gentle, and the elements
So mixed in him that nature might stand up
And say to all the world, 'This was a man!'"

Where is the Academy of Yesterday?

[With no malicious intent toward Francois Villon and with respects to Mr. E. H. Sothern, whose commendable reading inspired these lines, an Academy alumnus expresses the love of the alumni for Armour recollections.]

I.

I wonder in what Isle of Bliss
Our "co-ed" friends now charm the air;
(By what display of tactfulness
For Armour boys they spread the snare,)
What hearts they harvest and they raid,—
Ah! Time has lured them all away—
We sigh for the fair Academy maid,
Where is the "co-ed" of yesterday?

II.

Alas! where are those loyal hearts and true
With anti-Lewis spirit undismayed,
Who yelled so nobly for the gold and blue,
And helped win laurels that will never fade?
Their rooting's done—their games are played,
For Time has lured them all away—
There's no such ardor now displayed,
Where is the youth of yesterday?

III.

Where are the "sharks" and the Cæsar translators?
Where are dust covered algebras laid?
Let me but hear once again our debaters
In phrases Websterian always arrayed.
Where are the "class"-honors we won at great task?
Ah! Time has lured them all away—
And seeing strange faces at dances, we ask,
Where are the classes of yesterday?

ENVOI.

Alas! Alumni! One by one,
Time has lured you all away—
Your day is over; your work is done,—
Where's the Academy of yesterday?

L. F. W., '01.

The Alabaster Box

(Prize Story.)

BY CLARENCE VREDENBURG.

Author's Note

The author submits this story, believing that the tales closest to the life of the Institute are not always enacted in its very halls, and that the "Armour spirit" is found on other grounds than our campus. Surely the mother, by whose perseverance the son largely owes his education, is a large part of our scholastic life and is most truly endowed with the "Armour spirit." C. V.

Chicago, Illinois, February 12, 1903.

"WELL, Miss Peters, an eddication's powerful tellin'. My George's picked up mighty wonderful since I sent him to the Institute. 'Spect he'll be an injineer some day if my man and me holds out. No tellin'! He's natural bright, George is, — takes after his mother's folks. He knows all about injins and electriz'ty. Goin' to be an electricated injineer. Sometimes, I'm afraid we'll have to give up. We run short in feenancial matters. Sam's no good any more, —got the rheumatiz in his whole body and failin' with the gallopin' consumption, failin' every day."

"H'aint you 'ad no one?" faltered Miss Peters.

"Certain! Doctor's feelin' o' Sam's pulse now. S'pose I'd better get back. He may want some hot water or liniment."

The women turned on the creaking stairs in the dingy hallway, one, small and nervous, to tiptoe to a grimy doorway from which came the odor of antiseptics, and the other, tall and gaunt, to return into her apartments.

"It's all nonsense uv folks workin' out their lives for eddication," she said with an opinionated emphasis to her words.

A few mornings later a nervous knock woke Miss Peters. She opened the door slowly and peered out into the hallway. Presently she distinguished the form of Mrs. Barker.

"Sam's gone," whispered the little woman, and buried her face in a large, red rag she had in her hands.

"Do bear up, Lizzie, and come in," said Miss Peters, drawing her inside and placing a badly scarred chair before her.

"When did 'e go?"

"Three o'clock o' the mornin'. He jest jumped right up in bed and then fell back like a log. But he's gone complete,—sold his body to the clinic."

"What?"

"Yes, t'was Sam's will; he wiiled it to me. It'll nearly pay George's tuition. Sam said it was for me but I'm going to save it for George. Sam wuz opposed to eddication. Sam says, says he, 'Be a self-made man. Eddication don't count fur nuthin'. Look at Hennery Clay and Danerl Webster. I never had any eddication to brag uv and look at me!' Poor Sam, he covld uv improved on his ways."

"Sam wuz right, Mrs. Barker."

"Sam wuz wrong, Miss Peters, if I do say it, although he wuz a good husband to me,—he wuz a good husband to me. But eddication is the thing uv the future and I'm bound my George shall get through. If I can hold out until next summer, he'll graduate. He works mornin' and night, poor boy. And I'm bound to give my best, Miss Peters, like that woman in the Scriptures with the alabaster box."

Mrs. Barker rose to go.

"I'm goin' out to work, Miss Peters. Maybe, I can get in to see you evenin's before you go to bed."

"Do," said Miss Peters. "You remind me so much of a cousin of mine—she's dead now—that it sort of comforts me to talk with you although my views are not like yours."

Despite her promise, Mrs. Barker did not call very frequently during the early weeks of winter. Miss Peters heard her daily start out early to work and, late at night, toil wearily up the creaking stairs to her dark, cold room. When she did come it was only for a few minutes. She always philosophized on education and talked of George. Even Sam, her deceased husband, seemed forgotten in the all-absorbing determination that George

should graduate from the Institute. Miss Peters noticed that factory work had made her pale. She was getting gray about the temples, the lines in her forehead were deeper and her voice trembled at times.

The weeks and months passed with a humdrum existence for the inmates of the flats. Spring came. The snow and ice in the gutters and alleys melted and formed a muddy slush. Day after day it rained. The skies were leaden and the atmosphere chilling. Miss Peters sat in her window sewing, listening to the patter of the rain against her pane and peering into the damp discomfort of the street. When June came Mrs. Barker's visits had ceased altogether. Miss Peters understood she was working very hard and so thought kindly of her.

One night Miss Peters was startled by a sound of several people talking in low voices and coming slowly up the stairs. She opened her door just in time to see a stalwart policeman reach the top of the stairs. Behind him four others bore up a covered, still form, on a stretcher.

"Is this Mrs. Barker's door?" asked the officer.

Miss Peters nodded ascent and gazed in mute horror at the procession. The officer opened the door and entered. The others, bearing their motionless burden, followed. Miss Peters saw them rest the stretcher upon the floor and uncover the white, blood stained face of Mrs. Barker. There was a deep gash in her forehead.

"Oh, how did it happen?" she gasped, clutching the policeman's arm.

"Run into by a street car, coming from work," he replied. "Pretty bad case. Guess it will be fatal."

Slowly they lifted the quiet form and placed it upon the bed. A physician came in and dressed the wounds. Miss Peters hurried about getting warm water and bandages. They worked over the unconscious woman for hours. Only intermittent heart beats gave them any sign of life. Finally, after a long period of waiting, in which Miss Peters bathed the almost transparent forehead, the eyelids slowly opened and Mrs. Barker looked feebly around.

"Lizzie, be quiet," murmured Miss Peters.

"Is that you, Miss Peters?" Can't hardly see, my poor old head hurts so. Awfully good of you to fuss with me. Wish you could send over to

the Institute for George. Don't feel's though I'd last long. I want to see my boy before I go. I'm afraid I wont be able to repay your kindness, Miss Peters."

"Lizzie, dont!" moaned the woman, sinking to her knee at the bedside and clasping Mrs. Barker's thin hand as the dying woman looked at her with moist eyes.

The policeman bared his head and moved away with bowed form.

"Don't feel bad, Lizzie. I'm satisfied to go. George will graduate this week. Won't that be grand? I feel my work's complete. I never could do much in this world, wuz'nt born for society or eddicated, but I felt my work was for George. I did all I could. I always like to think of it as the woman's alabaster box,—she gave the best she had. You'll find a little change in my dress. I saved it by walking home nights. I do hate to go and not leave a thing to George. He'll need something after he gets out of school. You'll look after him, Miss Peters? See he don't go with bad companions. I wanted to will something to him. All I have is myself and I will that. Sam did and I can. Maybe you can get something for my body at the clinic,—give it to George. That'll be my alabaster box..... They are awfully long in bringing him.....I think I see something bright ahead.....It must be.....the holy city..... ....Oh, I'm so.....tired. Good bye .....Lizzie.....good bye. Don't..... forget.....the.....alabaster box."

Slowly a chill from Mrs. Barker's hand crept into the nerves of Miss Peters prone upon the bedside. Startled, she raised herself to see that the death palor had settled over the pinched features.

Suggested Theses of Class of '03

"Design and Construction of Ash Consumer,"

Hansen, Strickler, Edgcomb, Shimizer.

"Pipes and Their Value,"

Phillips, Robinson, Stevens, Neistadt.

"Hardness of Water as Determined from Tension and Compression Tests,"

Quien, Felt, Brimson, Wendt.

"Design and Construction of a Direct Current Static Transformer,"

Sherman, Rawson, Taussig, Mueller.

"Duty Trials of Windmills,"

Weber, Heinen, Wesskopf, Matthews.

"Sparkless Commutation of Alternate Current Machinery,"

Merry, Nelson, Battey, Lanning.

"Efficiency Test of High Speed Vertical Corliss Engine, Direct Connected to 1050 K. W. Static Transformer,"

Wagner, Kabateck, Kaempfer, Babcock.

"Modification and Alteration of Modern Designs of Smoke Separators,"

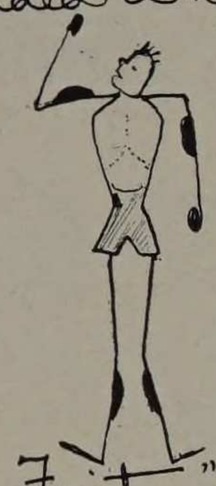
Banta, Stillson, Byrne, Cronin.



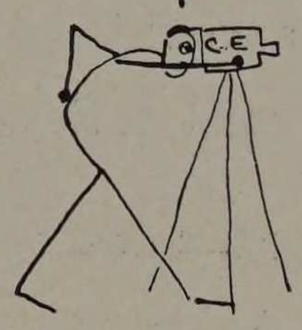
MR. F. U. SMITH, COMPTROLLER OF THE INSTITUTE.

Mr. Smith takes an active interest in all Student enterprises, and is always ready to lend a helping hand when he is needed. THE INTEGRAL is much indebted to him.

Shredded Wheat did it.



Dilly Bean.



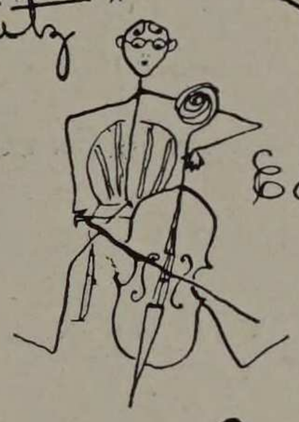
"Divvie Grouch."



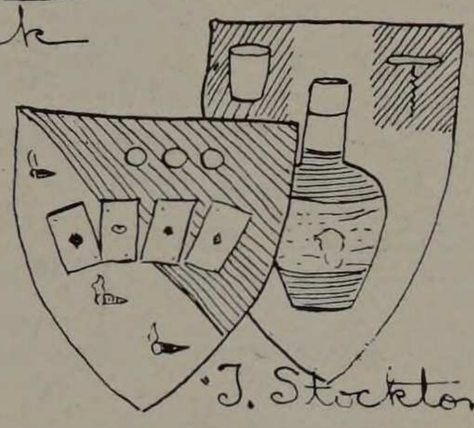


Herrick

Fritz"



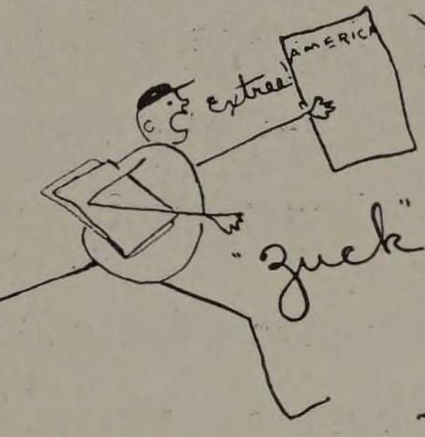
Eddie



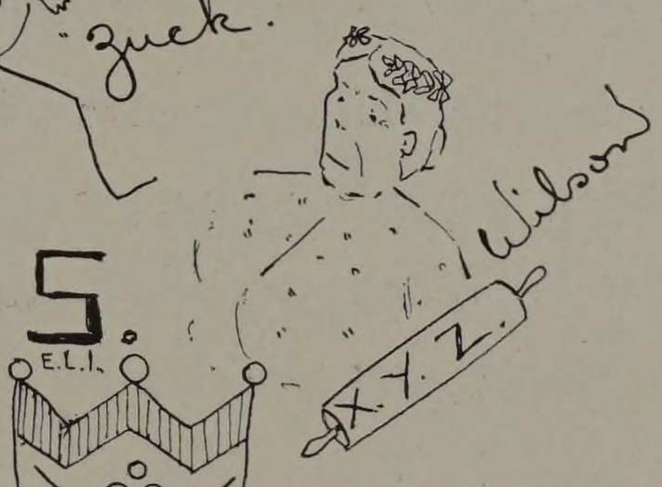
"J. Stockton.

'04

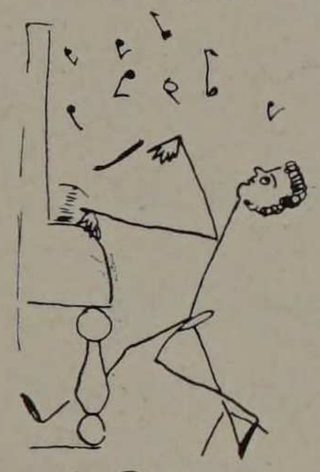
RADICALS.



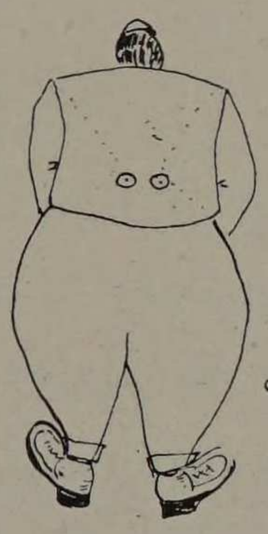
"Zuck."



Wilson



"Benny."



"Pants."

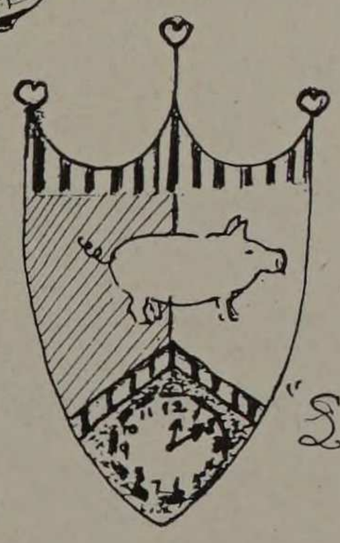
Mile Stone Flint



"Artie".



"Dinni" has an idea.



"Louie"

A Modern Knight of Armour

ONCE der wuz a Miller what lived Indermille, who was pretty fond of what you folks calls a Beveridge but what I calls de Beer.

He wuz a gay old Benedict and had one daughter—a coy Ferry of eighteen summers—and an Alderson.

De daughter, Maher shadow never grow less, wuz in love with a Merry guy, who was Marshall of de town; but der wuz also a Marchese, an Italian noble, dat wuz also tryin' to Roesch her. He was de Deane of de Ladies Cemetery and stood Wright wid de old man.

But de Marshall wuzn't Borne yesterday, and he wuz too Sharp to hang around be-Monin his fate. He was Weiskopf enough to know dat if he Wendt to papa and Baird his Hart, the old man would think him Battey and send him to the tall Wood.

He also knew dat de guy what takes a Knapp never Goetz der.

He wuz no Cole baron, but he wuzn't no tight wad Ederer, so he Mead up his mind to Putt his spare Silver into chocolate Menier and Collins ice cream for Jenny. And as de Marchese hung onto his shekels wid a grip tightner'n a Stillson wrench, she didn't have to look twice to see which wuz Herrmann.

So when de Marchese came Cronin around she wuz Cole as Stone.

He wuz a pretty fair Harper, but his voice was out of Geer and needed a Carpenter. So when he got to spouting a French Ballard or love Carroll, she tried to Stem his Torrance of song by making a face

like one of Hine's 57. In fact, she could hardly Bear the Payne and had to make frequent use of her Kaempfer bottle.

It wuz his turn to get Cross den, and he used his Klapper to give a Knox to de Marshall.

Dat wuz his finish. She Towl him to go, and he Wendt to papa.

When de old boy Herd what he had to say, he got mad as a Hatter, and went cussing and Deming around. "Great Scott," he said, "that Marshall is Lazear than a Chicago street Carr, and if I catch him around here I'll Lynch him if I have to go to de Penn for it."

Papa felt bad. He had Hoops dat his daughter would marry a Noble, even if it did mean his Coffeen up a dowry. If his daughter married an ordinary Marshall it would Roen his name. She might just as well marry a Poor Schumacker.

But he wuz too Smart to tell dis to de Marchese. He said:

"Is your Armstrong?"

"Strong enough for my Marchetti."

"You may fight him with Speers for all I care, only if you want to make his chances any Slimmer you must Banta him into a fight and then Pierce him thro de Hart."

A Saner man would have thought twice about it, but de Marchese wuz as stubborn as a Mueller something worse. Dat night he met de Marshall on de Main street, rushed up to him and accused him of stealing a Paradise.

De Marshall replied by hitting him a few Phillips on de cheek, and den de fight began.

In about three minutes the Marchese wuz laying in de Snow and de Marshall wuz on his way to Jenny to Teller.

"My Darling," he said, "I am a Freeman no more if I Layer round here much longer. The Marchese tried to Cook my goose and I had to Teach him his manners."

"Willey live?"

"I think so, but I must fly! Will you come?"

"I am yours—"

"Quien," he said, and Tooker in his arms.

She wanted time to Draper self in glad rags.

"All right," he said, "but don't be Slocum quick. Der's no time for fare-Wells. We must Ford de Flood on a Campbell and Byrne our Brydges behind us. Der's no turning Back."

Dey traveled all dat night, and de next day dey came to a country church. He hired a Farmer to throw Rice at dem, and he had de great pleasure to Walker up de center isle to the tune of Nancy Leigh.

L. J. Byrne.

Modesty

I sing a song of students, who
Didn't want to be joshed in this book, they're few,
So I don't care if they care, do you.

One said he had a reason good,
He chummed with fellows who never could
Take a thing as a joke; he's from Englewood.

Another tall lad, he's been Radical X-ed,
Said *he* did't care, but when people got next,
The girl would hear of it and she would be vexed.

Another one, "Novelty Dresser," he's classed,
Talked long and talked hard, and then at the last,
Said if that thing went in he'd fix Mike mighty fast.

Then there was another who offered a bribe,
Not money, but "copy," and then he'd subscribe;
He's a red-head, belongs to the "Terrier" tribe.

Another, who hardly belongs in this rhyme,
I won't tell you about him, just guess and take time,
Wanted his name in sure. To expose him's a crime.

And these, 'cept the last, have each just one thing,
Which they don't want outside a particular ring.
Other jokes are all right—"Put 'em in! anything!"

Social

Society for the Prevention of Thirst Among Seniors.



Mainskate, - . Money Gone Kabateck
Chief Buyer, - - Much Joy Weisskopf

ASSISTANTS:

All Other Members.

Look Out, - - Happy Boy Rawson
Entertainer, - - - Ever Ready Weber

Club Motto:

"BOTTOMS UP, BOYS!"

Membership.

The membership is of two classes—Active and Inactive.

Duties of Officers.

Mainskate—It shall be his duty to preside over all meetings of the Society, and make all arrangements for the reception and disposal of members, Active and Inactive.

Chief Buyer—It shall be his duty to provide refreshments on all social occasions. In addition, he must see to it that every active member becomes inactive as soon as possible.

Look Out—It shall be his duty to assist in the disposal of inactive members and would-be interrupters of meetings of the Society.

Entertainer—It shall be his duty to prepare programs of mee tings Said programs to follow, in general, this outline:

Talk by Mainskate.
Invitations by Chief Buyer,
Response of Members.
Recitation—"Across the Bar."
Report of Lookout.
Unfinished Business.
Keg Business.
New Business.
Any Old Business.

By-Laws.

Buy early and often.

They Won't Come Off

When Armour plays at basket ball
Poor Lewis cannot play at all,
And Reynolds holds, besides the ball,
The smile that won't come off.

The tall boy wonder did so well
That o'er the school he cast his spell;
And soon his head began to swell,
The swell that won't come off.

Now if descript the subject be
The student's sure he'll get an E,
And on his gloomy face we see
The scowl that won't come off.

Don't come to class, the professor said,
'Till you've worked your math. and got ahead
And over his stern features spread
The frown that won't come off.

Another

The Sleeping Buie of Englewood saw See asleep and vowed he could.

"I'm getting tired, it makes me sore,
This constant grind is an awful bore."
The desire for sleep he gladly obeyed,
And dreamed he belonged to the Ladies' Aid.

Part of An Alphabet

A—is for Armour, the place where they work;
It doesn't pay there your duty to shirk.
Get down and dig and you may get an A.
That's what makes one happy and gay.

B—is for Bowling, the game of the day;
The Juniors and Freshmen seem to think they can play.
If you spend much time bowling you're likely to see
Your mark will not go much above a low B.

C—is for Calculus, the study that's tough;
Wait till you've tried it, you'll soon get enough.
You'll just have to bone, and lucky you'll be
If your per cent of a maximum is good for a C.

D—is for Dean, whose office is there;
Down by the library, near the foot of the stair.
Don't get a D, for then you will go
Down to the Dean, where you'll sure have to show.

E—is for Excellent, that is what you might think,
But the E's we get here almost drive one to drink.
And we hang low our heads in shame and disgrace,
For an E means we've dropped to the bottommost place.

G—is for Girls, the best of good things,
They may not be angels but they are fast taking wings.
Soon we'll be left forlorn and alone,
With nothing to do but to work and to bone.

L—is for Library, the realm of silence,
That's more important than all of the science
Contained in those books you see on the shelves.
If you *must* say your say, "To the halls with yourselves."

P—is for Pie that is served in that hall
Marked "Dynamo Lab." But that is not all
We get there to eat.
If our *lunch box* contains it we may have a treat
Of chocolate eclairs and coffee and puffs,
Which on the lunchwoman's counter are forbidden
stuffs.

Armour Philosophy

Don't look into my record. Give a hungry man some grub.

A. Jens' Philosophy.

The wisest guy is the one who knows he knows it all—the rest don't count.

E. L. L.'s Philosophy.

Teach thy tongue to say, "I do not know."

Bobbie D.'s Philosophy.

'Tis better to let others talk
And listen, while they say instead
The foolish things you might have said.

E. E. Maher's Philosophy.

Excuses

Variations from the usual form of the nine hundred and ninety-nine excuses—more or less—that are signed each week and read:

"Sickness," "Illness," "Not Well," "Toothache," "Headache," "Earache," and all other aches in the catalogue; "Train Delayed," "Business," "Appointment with the Dentist," etc., etc.

"Lateness," F. A. Emmons

"Ward Heeling," E. J. Carroll

"Had a visit from a *Friend* and could not be at School,"
H. A. Hart

(Good excuse, considering.)

"Went home early to get ready to go out in Evening,"
E. W. Grover

(Next time commence the day before.)

"Stranded on Union Loop," Geo. F. McGuire

"Had appointment climbing Flag-pole," J. C. Brackett

"Forgot; thought I had Descriptive Geometry at that hour,"
R. Kimball

(Descrip. does affect the mind that way.)

"Cloudiness in the Head," H. W. Clausen

"Rainy Weather," F. Marchese

"Ignorance," W. G. Parker

"Politics—$3.00 Job," Chas. Herrmann

(One of our future Aldermen.)

"Heart Ache—'Absence makes the heart grow fonder,'"

F. Marchese

"The Opera," F. A. Coy

"Reasoning with a Freshman," J. C. Brackett

(The next day it read "Illness.")

"Overslept," G. Stevens

"Set the alarm clock at 8:30 instead of 7:30—(by mistake,")

H. A. Hart

(Might be sleeping yet if he had failed to wind the alarm.)

"Business," "Business," "Important Business," "Business,"
"Urgent Business," "Business," "Important Business,"
same, same, A. B. Benedict

(Lack of space prevents our putting in the rest.)

"Had some work to do which had to be done,"

W. M. Mansfield

"Books locked up—filing lock," Chas. Campbell

(Pretty good scheme; we hadn't thought of that.)

That class spirit we hear so much about.

"Implicated in class affairs," D. Lewy

"Representing class interests at ball ground,"
H. B. Marshall

"In Rough-house," N. P. Peterson

A few honest ones left.

"Cut," M. J. Weiskoff

"Excuse, none," H. M. Wood

"No excuse," A. L. Carr

Too True

Peebles—"Holy smoke, Borst! Are you carrying two courses in math.?"

Borst—"No, I'm carrying one and dragging the other."

Rhymes of the Profs

There was once a professor called Mac,
And people who loafed he would sack,
He ran against Tony,
Who worked with a Bony,
And Tony must hump to get back.

There was once a professor named Perry,
Whose footsteps were light as a fairy,
His assignment of text
Was, "Please take the next,"
Which is neither warm nor hot-air-y.

There once was a mister named Leigh,
Who taught us the function dt,
But he's gone to the bad,
For he's married, by gad,
And no longer takes life so e z.

There was once a professor named Campbell,

On his markings you never could gamble,

For we all got D's

And darned few C's

From this most erratic man Campbell.

There once was a professor named Monin,

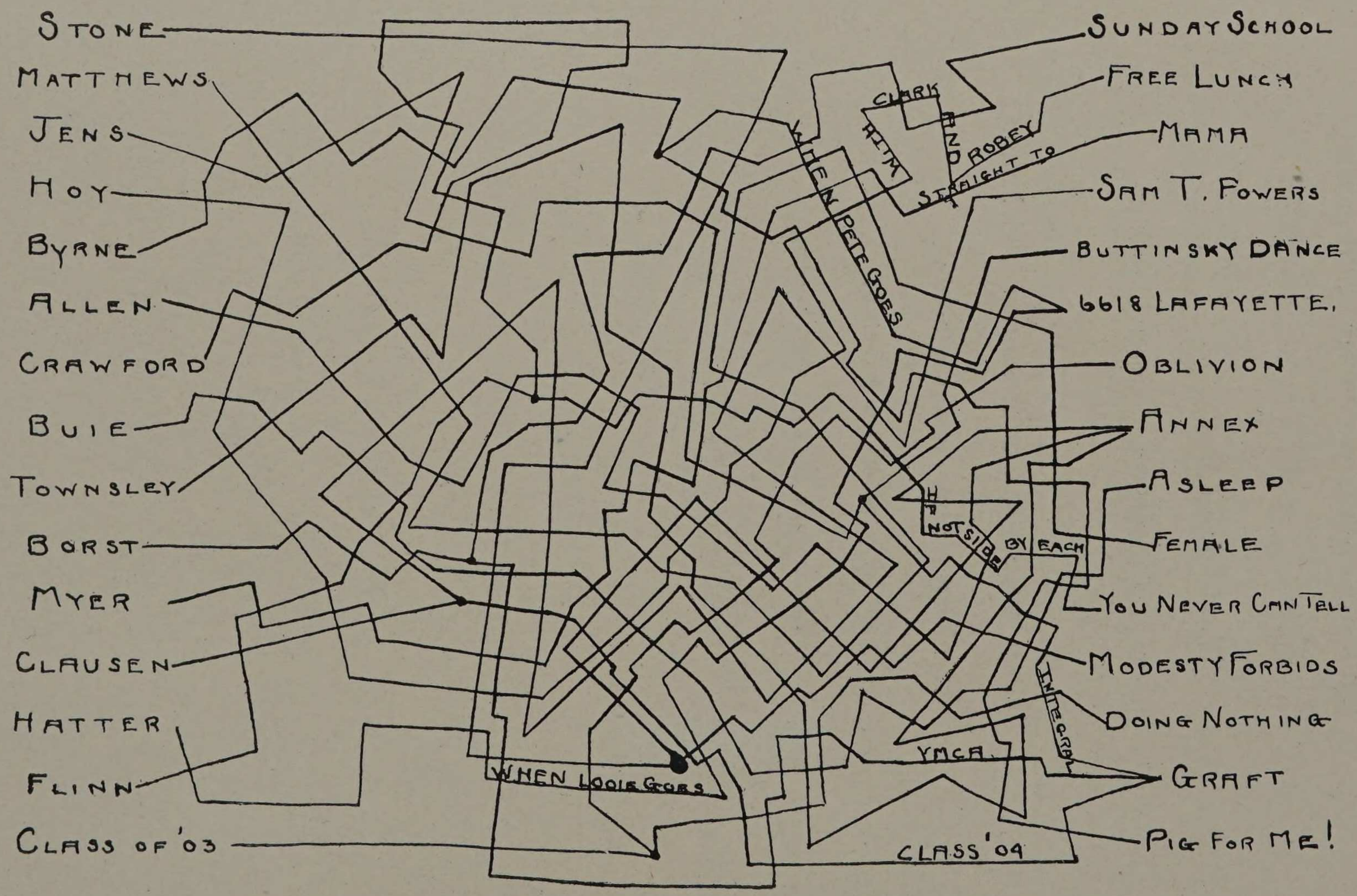
Who kept all his classes a-bonin',

For he started on French,

Which was laid on the bench,

And *philosophy kept us a-gronin'*.

FINISHES,
OR
WHERE TO FIND THEM.



Who Is It?

SCENE:—A Dining Room. Long Table Loaded with Necessaries, Surrounded by Fellows Dimly Seen Through the Smoke. IT Starts Things.

It: Gimme six stacks. That oughter hold me ten minutes. I'm a bad plunger this evening (gets a card). Gee, I'll bet three cents on this card (another card). Oh, fuzz! Look what I draw! Somebody gimme a torch. (He gets a stogie.) O-o what a long one! Do not hold in hand after lighting. (Lights it.) Smell the hard wood? Now I know why it's a long one — so you won't get any up your nose — it's bad enough in your mouth. Take the money! Here's where I get a natural—I've got a fine hunch. Ah, I win! Give me of the money till I feel like it. This is too easy — like taking candy from kids. Oh, I guess business is picking up. This is a fine seegar. I've smoked half an inch and nothing's turned over yet.

I've got a fine story. Give me three blues on that. You wouldn't cheat a poor innocent lamb. I'm goin' to a weddin' next week. I'm livin' on water now. Such a time!

Alright, I'll eat! I don't want to take any more of your money. Here's where I get a square meal. (Gets napkin.) Aint it a nice bib? I always hate this! I will not shut up. I haven't said anything yet. Just for eatings like this I would live on a whole month nothing, etc., etc., etc.

Such A Time

1

This life's a hollow bubble,
Don't you know?
Just a painted piece of twouble,
Don't you know?
We come on earth to cwy;
We gwow oldeh and we sigh;
Oldeh still and then we die,
Don't you know?

2

It is all a horrid mix,
Don't you know?
Business, love and politics,
Don'n you know?
Clubs and pawties, cliques and sets,
Fashions, follies, sins, wegwets,
Struggle, stwife and cigawettes,
Don't you know?

3

And we worry through each day,
Don't you know?
In a sort of, kind of, way,
Don't you know?
But it's all so flat and dead,
Bweakfast, luncheon, dinnah, bed;
That is all when life is said,
Don't you know?

4

Love? O, yes, you meet a gi'l,
Don't you know?
And you get in such a whi'l,
Don't you know?
That you get down on the floah
To adoah and to imploah,
And it's weally such a boah,
Don't you know?

5

Business? O, that's simply twade,
Don't you know?
Something's lost or something's made
Don't you know?
And you twouble and you mope,
And you hang youah highest hope
On, pewaps the pwice of soap!
Don't you know?

6

Politics? O, just a lawk,
Don't you know?
Just a nightmaeh in the dawk,
Don't you know?
You pehspiah all day and night,
And afteh all the fight,
Why, pewaps the w'ong man's wight,
Don't you know?

7

Society? Is dwesss,
Don't you know?
And a sou'ce of much distwess,
Don't you know?
To determine what to weah,
When to go and likewise wheah,
And how to pawt youah haih,
Don't you know?

8

So theah's weally nothing in it,
Don't you know?
And we live just foh the minute,
Don't you know?
Foh when you've seen and felt,
Dwank and eaten, heahd and smelt,
Why all the cawds are dealt,
Don't you know?

9

You've one consciousness, that's all,
Don't you know?
And one's stomach, and it's small,
Don't you know?
You can only weah one tie,
One eyeglawss in youah eye,
And one coffin when you die,
Don't you know?

Songs Some Freshmen Sing.

Crawford—" I'm tired."

Sherburne—" If I but knew."

Cronk Brothers—" There was a man and he had two sons."

Viehoff--" I'm a bloomin' Britisher."

Dempsey's Shack—" The house of too much trouble."

Townsley—" I'm an amateur comedy man."

Bill Smith—" Honey, send home for money."

Heuchling—" Im a bold, bad man."

Shaedlich—" Honey, we won't miss you when you're gone."

Stone—" There is no king but Dodo."

Jackson—" I was born in a bad, bad land."

Deming—" Artie."

Keith—" He may have seen better days."

Wooley—" He's a gentleman boozer."

Yok Chan—" Under the bamboo tree."

Neilson—" I am satisfied with life."

Jens—" I want to be like my big brother."

Lindgren—" Then give us a drink, bartender."

Gridley—" The Arizona kicker."

Goetz—" Dot leetle German band."

Jens, looking for Slocum—" Oh, where has my little dog gone."

Yandell—" Wee Willie Winkle."

Onct

Onct my big brother went to Armour's Institute and he told me a whole lot of things about how it is down there.

Onct there was prof there with a beard that teeched chempistry, or cemetery, and he was the finest feller in school.

Onct there was a guy there by the name of Benny, and he wrote operas with Willie and was a lady killer.

Onct a feller there, named Pete Oughter, talked so fast that he forgot what he was talking about.

Onct a lamb there named Johnny, who always said "Prut" joined the Y. M. C. A. and is going to be a preacher.

Onct there was a prof. there who ate battle ax.

Onct Artie Jens went to bed at eight o'clock.

Onct there was a lofty man there named J. H. S. Mueller, and he was awful proud of his name. He wouldn't let anybody call him Johnny.

Onct the dean wore a red necktie.

Onct there was a bunch of dough-heads named the Class of '03, and they never did nothing from the time they were sophs., and then they didn't do much. They didn't get out no Annual and they didn't have no Junior Prom., and they ain't doin nothin' now.

Onct a sport named Robey fell down because it was slippery and bit his tonge in two.

Onct Zuck got to a nine thirty class on time.

Onct a big feller named Stone started an annex club at Dempsey's and all the Freshmen joined. It got awful popular. Townsley was in it and so was Allen and Neilson.

Onct a poor guy named Phui played foot ball twice and got hurt sixty-eight times.

Onct Grover had to stay after school for throwing chalk in mechanic's class.

Onct the prof. of the machine shop got a job as elevator boy in the new building.

A Fable in Engineering Slang

THE BUMPTIOUS YOUTH WHO TRIED TO BUTT IN.

There was once an Elongated Individual answering to the Cognomen of E. Lenny Longman, who was more Stuck on himself than a Fly on a Sheet of Tanglefoot. In other words, he was a Mogul whose Upper Works consisted principally of a Fine Large Whistle. He was such a Warm Proposition that whenever he stood off to get a good look at himself he invariably burnt a Hole in his Crown-Sheet and had to be Shopped for Repairs. Out in High Sassiety he was It, he thought, but whenever he came into the Ball Room towing a Cargo of Perishable Freight, everyone rubbered and wondered when he broke loose. Now, there was a certain young Maid that the B. Y. had his Eye upon, but couldn't Raise Steam enough to Brace up to her. If she looked at him at less than forty-five Degrees, he would Stop on the Center, and they had to get Busy with the Donkey-Engine to throw him over. Then the Sand would give out and he would Slide the Wheels back down the Grade to where he started from. Finally, he resolved to be Real Brave and find out what was In It for him, so he put on a new Coat of Paint with Gilt Stripes, got a Clear Track and did half-time down to the Dame's Palatial Residence. Then he Cut off Behind the Tank and ran in on the Siding. He did the proper Stunt for the occasion, as prescribed in Madame Squeegee's handbook on "How to Propose," and waited for Gwendolyn to cuddle. But, somehow, his calculations were at fault, for he didn't win. In short, she threw him over, and she didn't need a Donkey-Engine either.

Thereupon, Lenny decided that he would never, never do it again, and became President of the Society for the Suppression of Over-Wise Profs.

MORAL:—Never run by a Danger Signal.

From the Academy

"The gentleman with the auburn hair."—Lay.

Badger—better known as "Hplar Regdab."

Salinger and Swift, the humorists.

Let him talk.—Arnold.

"The smile that won't come off."—Prof. Tisdel.

Coach of the girl's South Chicago High School Basket Ball Team.—Murphy.

"After the battle Washington went to Halifax."—Prof. Scherger.

It's all over now.—The Co-eds.

He's a perfect lady.—Mathay.

"A little knowledge is a dangerous thing."—"Freshies."

"Birds of a feather flock together."—The Mu Delta Sigmas.

Me and Rembrandt.—Maris.

"The Modern Triumvirate."—The Debating Team.

The Two Dromios.—Wachs and Stanten.

Clyde Fitch is also a playright.—Vredenburg.

One out of a thousand.—Prof. Leigh.

"Yes, I play foot ball."—Shepherd.

The two Presidents—Hooper and Roosevelt.

Well, what of him, anyway?—Ferry.

The Quaker lad—Matchett.

"Fear him not, Cæsar, he is not dangerous."—Hamlin.

"I have read Robert's Rules of Order."—Reitler.

The Texas Steer.—Townsend.

"When I was in Paris."—Salisbury.

Just and true to all.—Prof. Raymond.

Advice to the Freshmen

If you want to change your course,
Ask Aldy.
If you want to "ride a horse,"
Ask Aldy.
If you want to make up ground,
If somebodies "graft" you've found,
If you want to turn around,
Ask Aldy.

If you think you're worked too hard,
Ask Aldy.
If profs take you off your guard,
Ask Aldy.
If you think that you are dead,
Or ought to soak your head,
If you want to go to bed,
Ask Aldy.

If you come down in a huff,
Miss Aldy.
If a sophomore treats you rough,
Tell Aldy.
If you don't know where to drink,
If you don't know what to think,
If back home you'd like to slink,
Ask Aldy.

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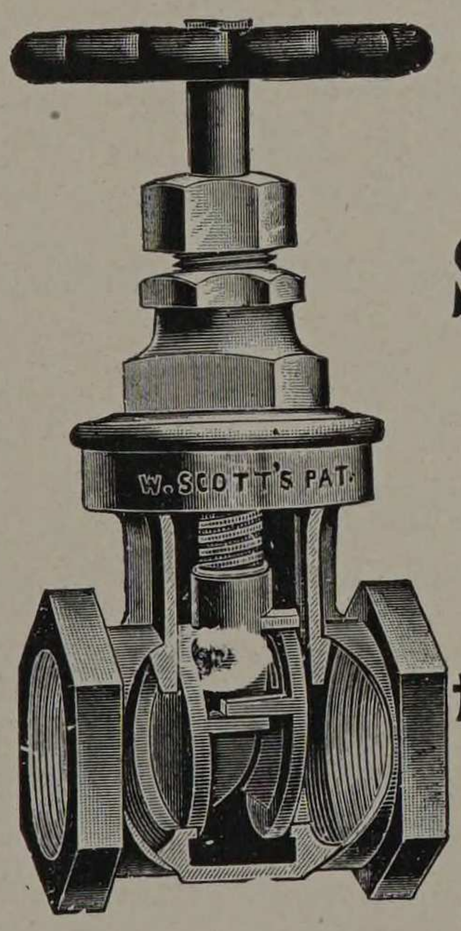
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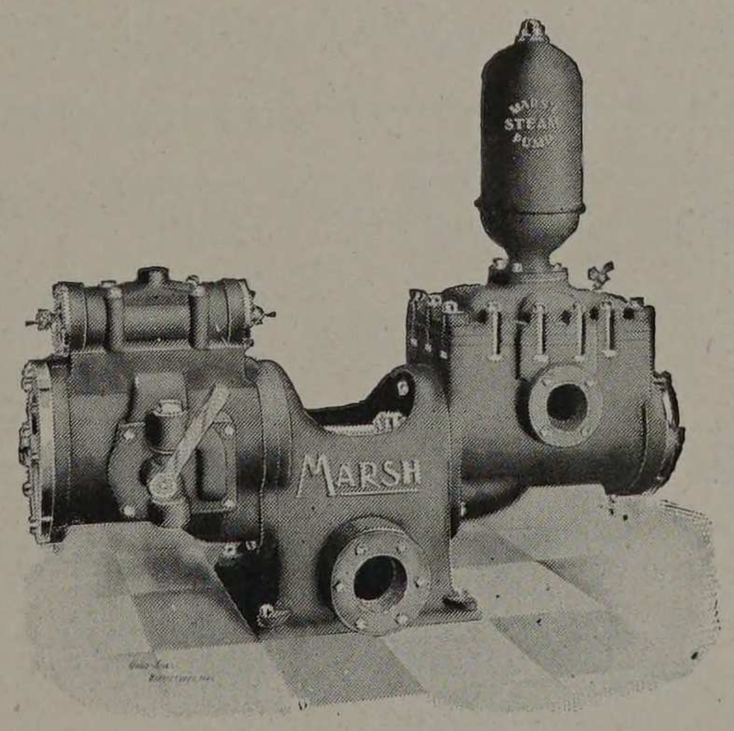
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AIR: "Heidelberg."

Oh Armour School, dear Armour School,
Our hearts o'erflow to thee,
And cherish long that which in song
We pledge to memory.
The seasons go; the years we know
Are fleeing fast away.
But love of you we will renew
When we are old and gray.

Oh Armour School, dear Armour School,
Our alma mater, true,
Thy students raise their tuneful lays
In fealty to you.
Your marble halls, your pictured walls,
Your noble-minded men,
Your shelved books and classic nooks
To us are reverend.

Oh Armour School, dear Armour School,
In silver-tinted glow,
A halo fair of misty air
From peaks to street below,
And shining gleams that ever seem
To be celestial light,
In ling'ring shade we serenade
And bid you soft, good night!

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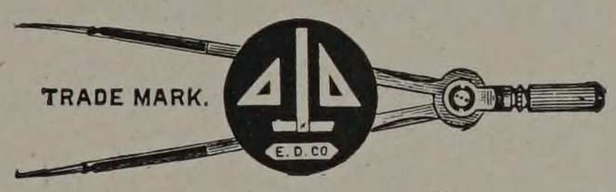
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Ye '03 Alphabet

A—is for Arnold, who on the stoop sat;
He opened his mouth and blew off his hat.
B—is for Badger, his class spirit's great.
He can draw for the INTEGRAL and also debate.
C—is for Co-eds who are soon to depart;
Each will take with them more than one heart.
D—is for Dearborn, with most quiet mood;
He's a nice pleasing fellow with mind very shrewd.
E—is for Ehretsman, in studies precise;
And in everything else his work will suffice.
F—is for Furry, who's true to the letter;
He's as good as the next, and a little bit better.
G—is for Gaither, oh, isn't she sweet!
Her manner is pleasing, her stature complete.
H—is for Hooper and Hamlin combined.
That they're fellows of spirit you'll readily find.
I—'s for Irradiate; true, it's no name,
But is simply a symbol of Armour's great fame.
J—stands for James, who is not a fool,
And when doing business is a modern Walpole.
K—is for Kerber, but do not take fright,
Though his name sounds "dogmatic" he really won't bite.
L—is for Lucius, both bashful and bright,

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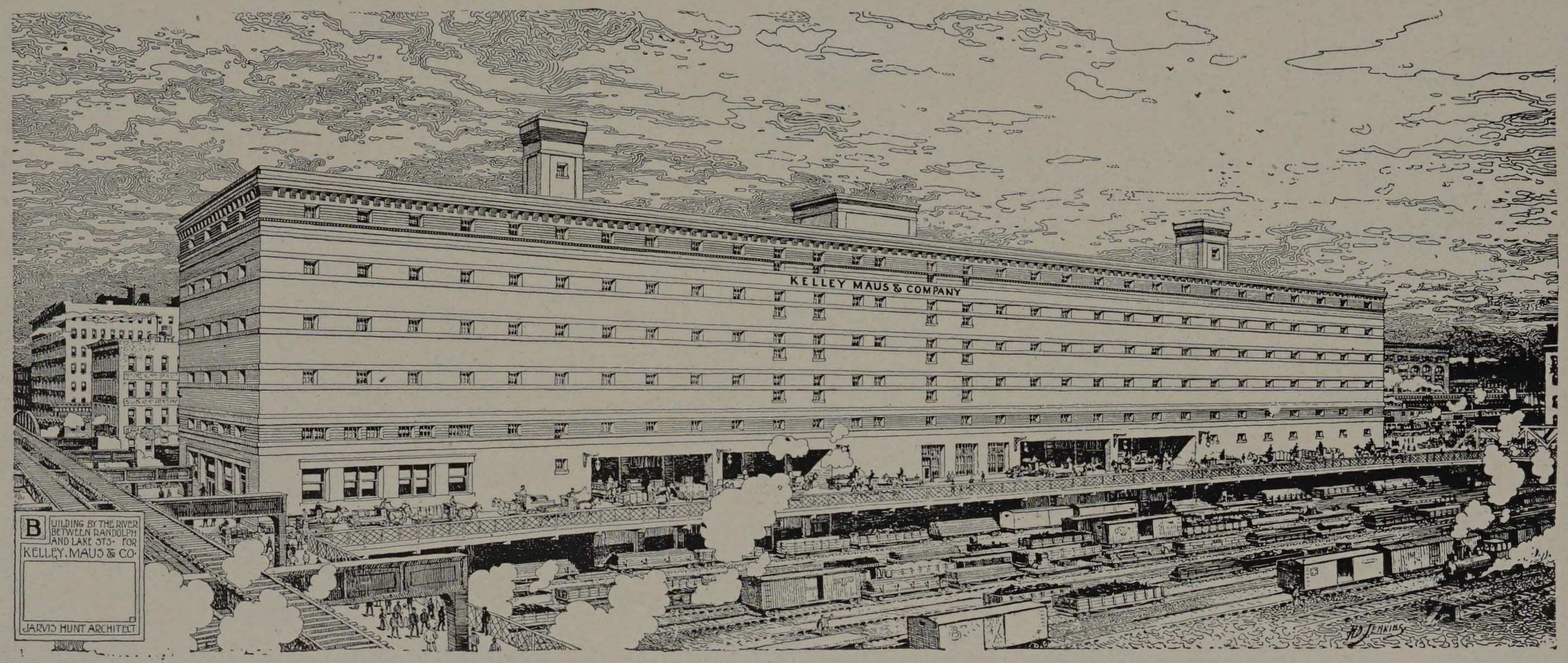
And whoever he does, he does them all right.
M—is for Maher, and Maris, and Marx;
They're all very clever, but none of them sharks.
N—stands for No one. I cannot do better.
There's no name in the class that begins with that letter.
O—is for Osborne—with nature refined;
He's a manager, singer and actor combined.
P—stands for Pierce, a co-ed of six;
She's a winsome young lass, and full of the "dicks."
Q—stands for quis, but I'm not to blame
'Cause no one at school is blessed with that name.
R—is for Ringo and Reitler too.
The former's a lady, the latter a "loo."
S—is for Salinger, a gentleman true;
He's known as an artist and poet, too.
T—is for Townsend, from Texas he came.
In a few years to come he will be known to fame.
V—is for Vredenburg, a debater, 'tis true,
But he's also a playright and an artist, too.
W—is for Whalon, Wilson and Wendt,
All of whom on their studies are bent.
The first of the three, as you'll readily see,
Is famous for taciturnity.
The other letters are U, Y and Z,
But their application is a difficulty,
For the reason that, as I'm sure you will see,
There's no one at school who has one of the three.

(Poet's License No. 184.)

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Wanted—A few flunks.—Wooley.
Wanted—A more clever fellow than myself.—Straube.
Wanted—An introduction to a young lady with matrimonial intent. —Fry.
Wanted—My match in beauty.—Swenie.
Wanted—Some hair dye.—Levings.
Wanted—Some nice little boy to play with me.—Bach.
Wanted—A lunch counter in Chem. Lab.—Stone.
Wanted—Some one to watch me so I will behave myself.—Lynch.
Wanted—More hair dye.—Ellett.
Wanted—A cure for insanity.—Livingston.
Wanted—A conductor and a few fares.—Carr.
Wanted—Co-education without segregation.—Deming.
Wanted—More time to play.—Elkire.
Wanted—Harder descrip. plates.—Houghton.
Wanted—An assistant to work my chem. experiments.—Chase.
Wanted—Some brain food.—Bardwell.
Wanted—Still more hair dye.—"Pink" Allen.
Wanted—A free ticket to Kankakee.—Leininger.
Wanted—Some new plays for me to light.—Torrance.
Wanted—Some one to do my descrip. plates for me.—Crawford, Walker.
Wanted—Some one to go to the show with me.—Townsley.
Wanted—Something to kick about.—Gridley.
Wanted—Some one to listen to me.—A. Woldenborg.
Wanted—Something I don't know about.—Morrison.
Wanted—Some Quaker Oats.—Hiller.
Wanted—More work to do.—Kuhn.
Wanted—A class in descrip.—Slocum.
Wanted—Some one to love.—Davis.
Wanted—Some one to tell stories to.—Jenks.
Wanted—My mamma to take care of me.—Robinson.
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I.

Lou'y Monin was the name of a dear little man
Qui parle à nous la langue francaise;
Not a girl or a boy who did not enjoy
Le Conversation dans son societié,
But now we're away from dear Armour so gay,
Lamenting our absence so sore,
We will try to reconcile our condition, and smile,
But we shall never see dear Armour any more.

CHORUS—Adieu, dear Armour.
We will never see dear Armour any more,
We'll go away one summer day,
And we'll never see dear Armour any more.

II.

Tisdel of great wit, with a critical hit
Would slam us, and cram us, and slay;
Burke, Byron, and Burns, and Shakespeare by turns,
Were served hot and cold, or any old way.

CHORUS—

III.

Georgie Scherger was the name of a man historical,
Who fed his flock on tales of classic lore;
But his story now is told, to a class of warriors bold,
And we will never hear them told any more.

CHORUS—

IV.

There's blushing John Albert and stately Charlee,
Who've made it so hot in g'ometree;
With rectangled quads, and "lines to B,"
We've had enough to drive us to "C."

CHORUS—

V.

With Hic, Haec and Hoc, and Ovid id est,
Miss Wright has robbed our nights of rest;
With Schlagen den Kind upon dem Kopf,
Miss Lang has taught us Deutsch as spoke.

CHORUS—But, dear me, all this is past,
And out and out we go, a lass, a lass.
Adieu Armour, Adieu Armour,
And out and out we go, a lass, a lass.

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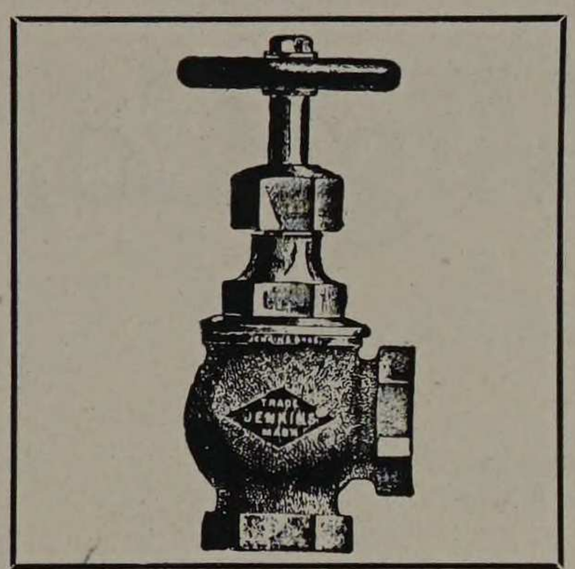
Freshman's Essay

AUTHOR'S NAME WITHHELD.

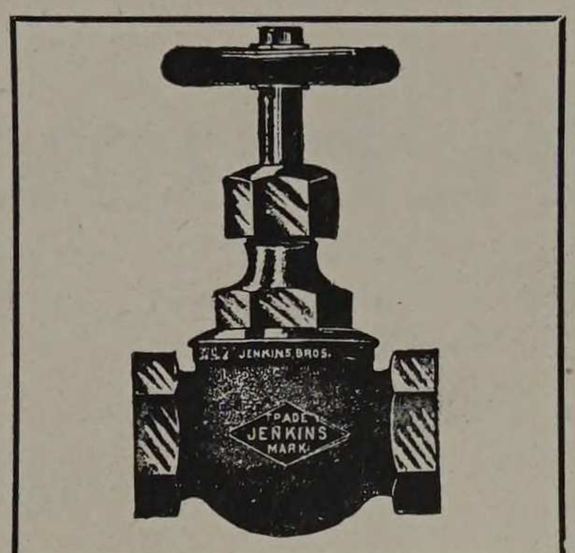
"Hens is curious animals. They don't have no nose, nor no teeth, nor no ears. They swaller their vittals whole and chew it up in their crops inside of them. The outside of hens is generally put into pillars and feather dusters. The inside of a hen is sometimes filled with marbles and shirt buttons and sich. A hen is much smaller than a good many other animals, but they'll dig up more tomato plants than anything that ain't a hen. Hens is very useful to lay eggs for plum pudding. Betcher life I like plum pudding. Skinny Bates oncet eat so mutch plum pudding that it set him into collery. Hens has got wings and can fly when they are scart. I cut my Uncle Williams hens head off with a hatchet and it scart her to death. Hens sometimes makes very fine spring chickens."

Original

There was a young man from St. Paul,
Who went to a fancy dress baul.
In the midst of the dance
He fractured his pance,
And had to go home in a shaul.



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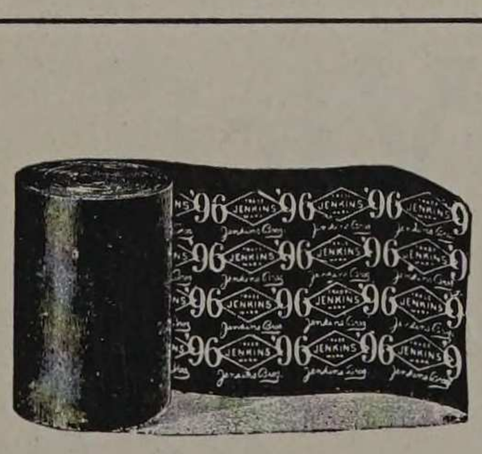
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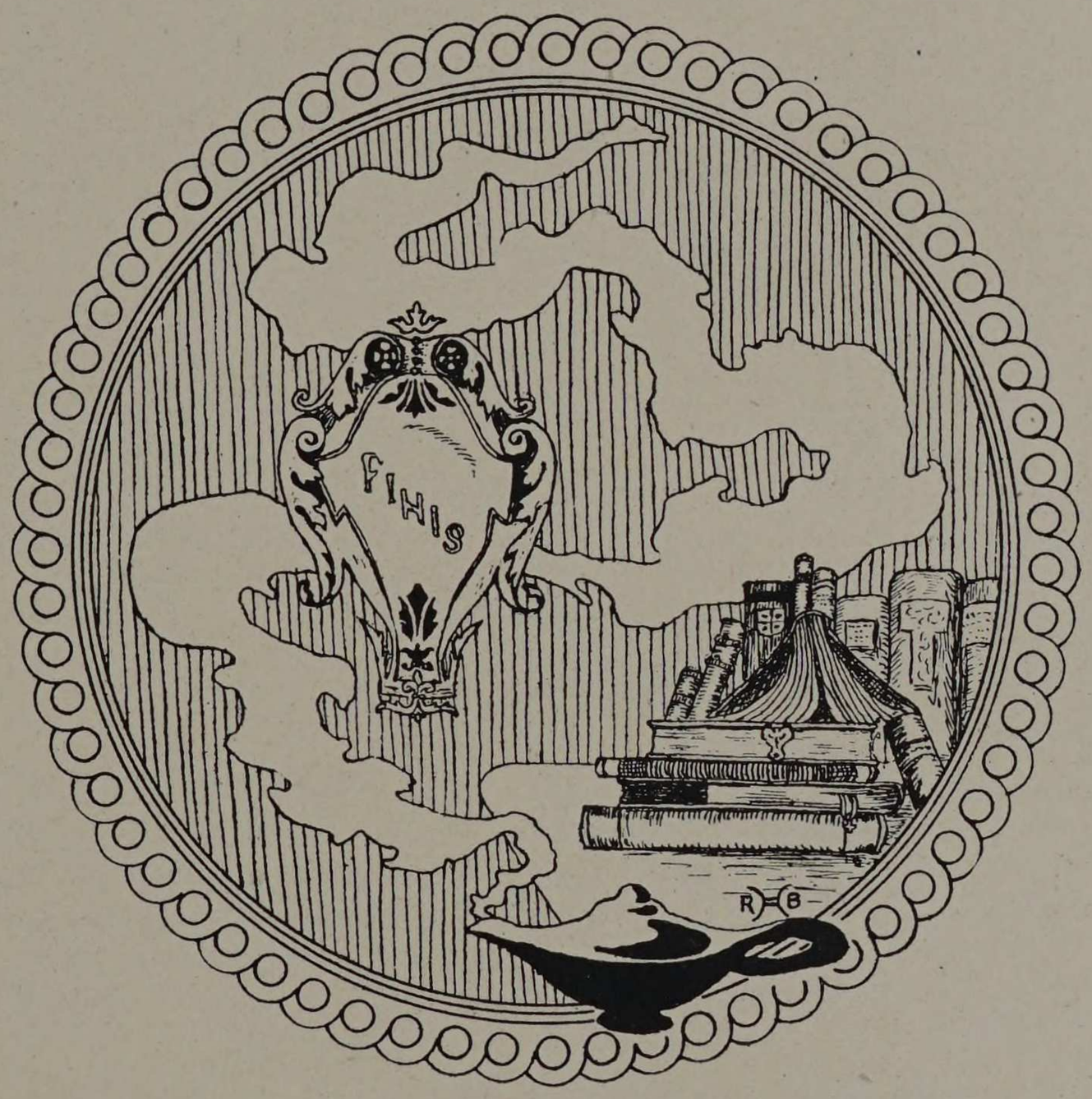
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