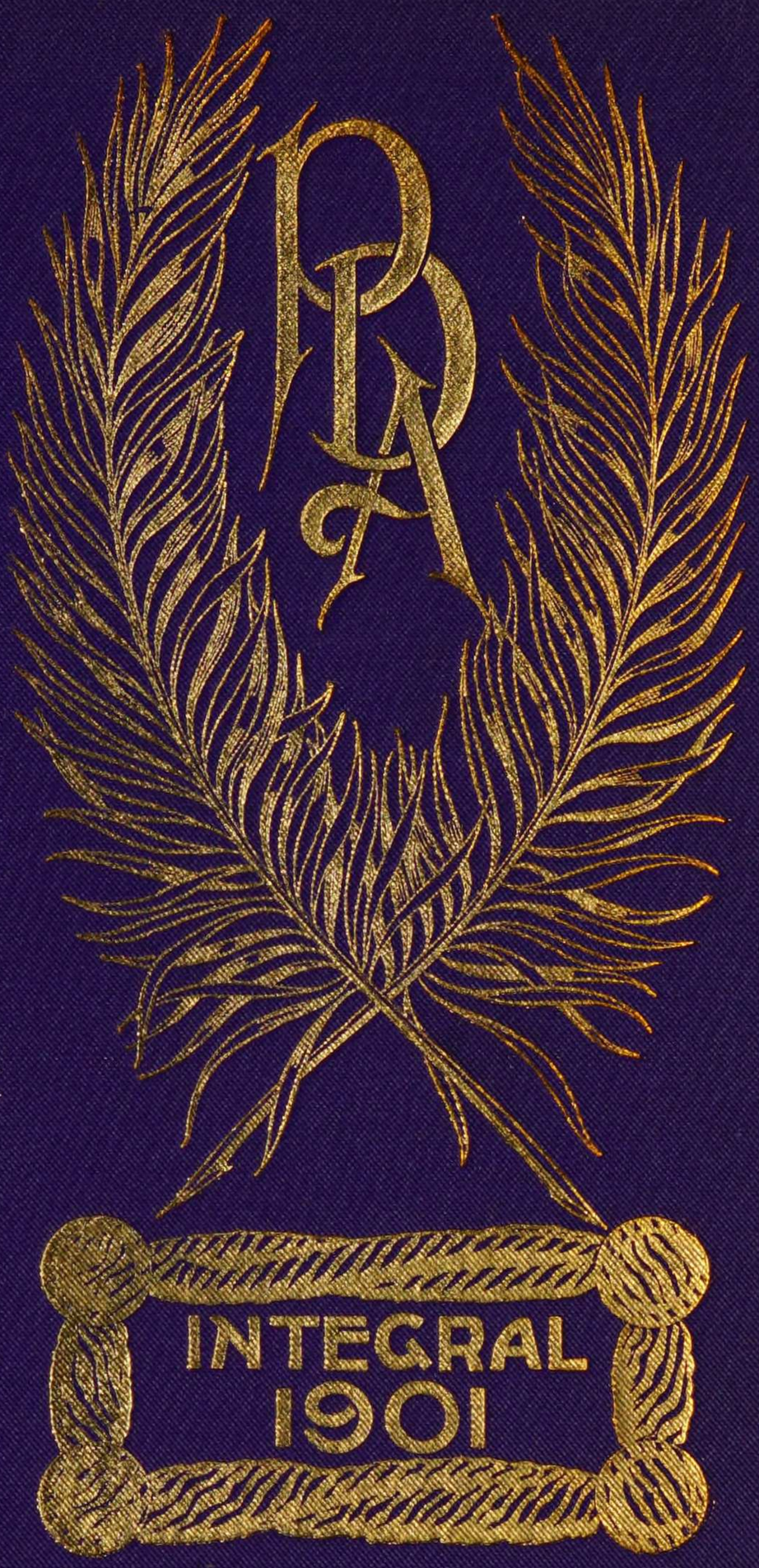
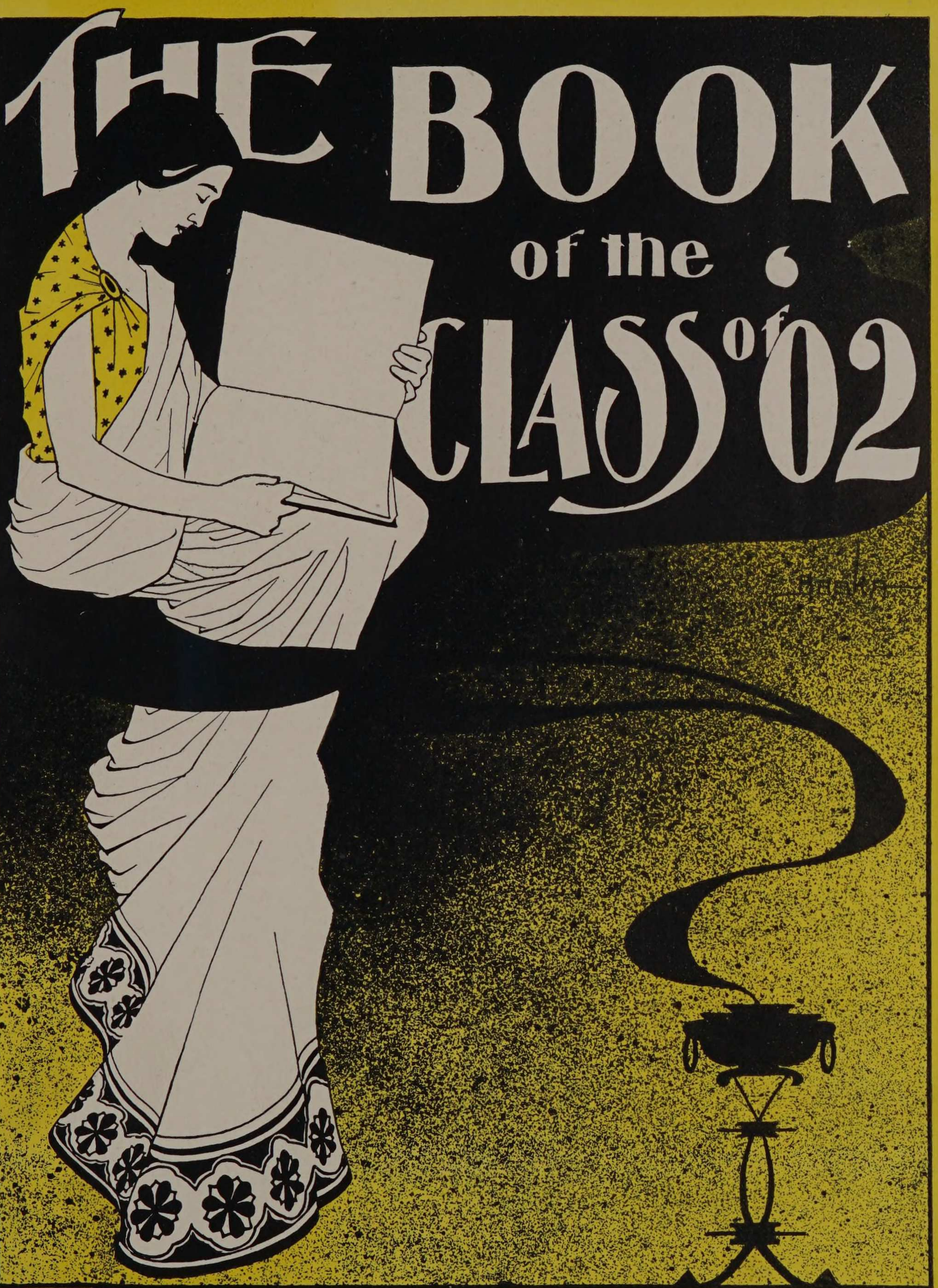

INTEGRAL
1901

THE BOOK of the CLASS of '02



ACKNOWLEDGEMENT



Our heartiest thanks are due to the following artists, who have so kindly helped to make this, our book:

Maurice B. Aleshire
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William Clyde Barbour
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Dedication

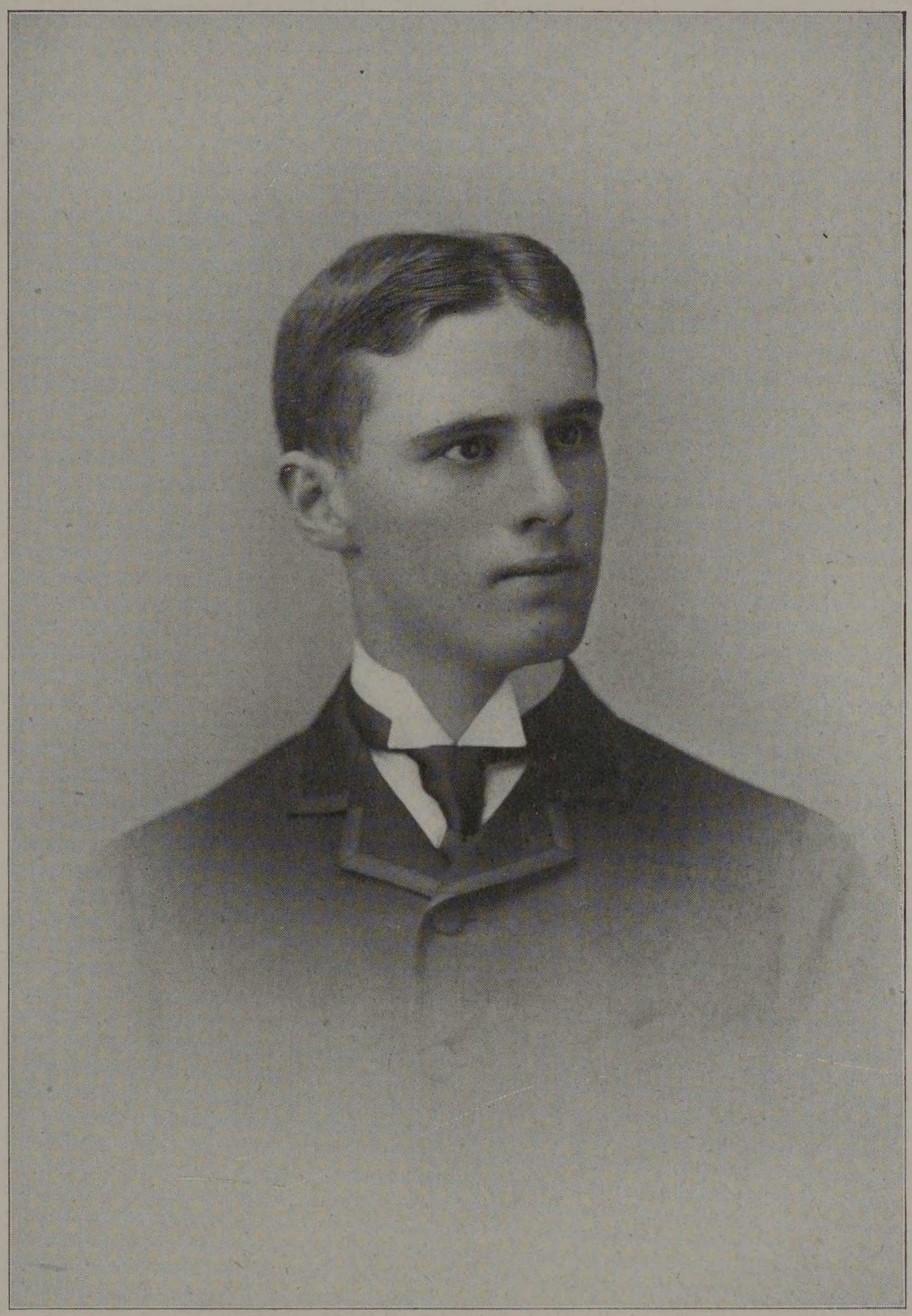
No true harmony is ever lost that has once found expression, and there is no nobler expression of the harmony of a life than an Institution in which is sounded every note in the fundamental scale of human endeavor. We trust that all who look between the covers of this book will find there a faint suggestion of the themes that make up the great masterpiece which is at once the monument and the fit expression of life harmonious in the action of hand and head and heart.

To the Memory of

PHILIP DANFORTH ARMOUR

We therefore dedicate these pages







Memorial Address of P. D. Armour

A majestic oak, upon which we have gazed for years, under whose shade we have found refreshing coolness, by whose roots the flowers of beauty and fragrance grew, has fallen. It is not ours to gather about a ruin and to unite in words of lament, for too much has been given to the world in the life of him we honor. Through him has come to us a new revelation of the power God has lodged in humanity. We must not sorrow, and sorrow only that the oak has fallen; so deeply do the roots of this life run into the earth, so grandly did this life unfold under the influences of heaven. Ours must not be a sigh or a tear save as it is accompanied with a song of thanksgiving. Neither is it ours to gather here, where this great tree shaded so many with its kindly and genial influences and pronounce words of eulogy: for this oak was too massive, too grand, too simple and too sublime to harmonize with our poor expression in words of description or of praise. Least of all, looking up into the open heavens and standing on the spot where this oak ruled in the sovereignty of its expanding beauty, need we apologise for its gnarled and twisted trunk and its knotted limbs, as we seek to remember more kindly influences, the various airs which played through the branches in all the moving seasons, the drifting tides of sunlight which flooded the leaves, and the countless happy memories and inspirations which associated themselves with the tall and sovereign growth ever lifting our eyes and thoughts toward the skies.

It is very hard to part with Philip Danforth Armour. The effect of his going continues. We who remain are like the lesser craft in a great river, which widens to a harbor of departure, over whose surface there has gone out to sea a monarch of the deep. We like to feel the evidences of greatness. It is almost enough that we realize the displacement and movement of the waters upon which our smaller boats must sail. A mighty and kingly thing, a great ship, indeed, bearing many precious things, bound for a far

away shore, has somewhat lifted us by means of an impelled wave coming shoreward, as its own out-going was accomplished. Greatness has been here and gone. A life of importance to the whole business and philanthropic world has vanished from our sight. The harbor lights are aware. The river is not yet calm. It is ours to take hold of the oars a little more firmly; to look a little more closely, and, perhaps, affectionately, at the treasures of the shores which are left, and above all to rejoice that no vastness of the sea, no mightiest storm, no distance of port to which that ship sails, can ever permanently separate us from the unique and majestic thing we loved, or ever take entirely from us the lofty sky and the abysmal sea, deep answering unto deep—with whose mysteries all things are safe, the sea and sky being the symbols of the love of God.

Let us paint him as we knew him here. I dreamed the other night that there was a picture of PHILIP DANFORTH ARMOUR hung in yonder great temple of commerce—the Board of Trade—and all that art might suggest or reflect of the qualities of an unsurpassed commercial genius was placed upon the canvas, by hands of accuracy and power, set to adequately limn and accentuate that countenance. There he stood, master and even monarch, the organizer of great movements, the creator of numberless enterprises, undaunted in apparent defeat, self-controlled in peril, earnest when others faltered, vanquisher of tempests, and ice and storm, the builder of a great fortune, and a beginner of a new era in the development of the resources of America. And I said: "That is not *our* picture." And then I saw another picture, the picture that was created out of the colors which lie in your heart and mine, fellow-students, the picture that comes to us as we bring back the days when he came and lived the happiest hours with us and planned with us for our Institute of learning, and hoped, while he provided for some trembling and fallen one a means of escape from a blighted past and of entrance into a happier future, so that a new life and a new hope were created by his generosity and his courage. I saw the genial, humorous, even witty, bluff, hearty, healthful man in that vision; and I said, "If God will give me power and self-command, we will not lament; we will not apologize; we will simply make the picture out of our memories of the man we loved." Fra Angelico, painting in Florence, found the tears

mingling with his colors while he painted the figures which are immortal amongst the thousands celebrated in the country of religion and art; and it would now be easier far for my heart and for yours to pour out our feelings in tears. I think that all of them would be tears of gratitude; they would not be tears of sorrow. I could not be true to the massive manhood, the granitic character of PHILIP DANFORTH ARMOUR, if I did not realize that his command to us, spoken out of the unknown land, is this: "Let the Sunshine In." It ought to be for us an occasion of grateful rejoicing. It must be an hour in which a better courage and hope shall come into your and my sleepy and weary veins. It must be an hour in which we shall find ourselves face to face with the supreme facts which help to make this picture of this life, with all that he had to fight and all that he had to acquire, furnishing a testimony to the triumph of God's gooddess and God's acting in and through humanity. As a little child he trusted God, at the last as at the first, and he was not afraid.

F. W. GUNSAULUS

The Integral

Published Annually *by the*
Junior Class Armour
Institute *of* Technology

Volume Four

IMPRINTED IN CHICAGO NINETEEN HUNDRED AND ONE AT
THE BLUE SKY PRESS

1901

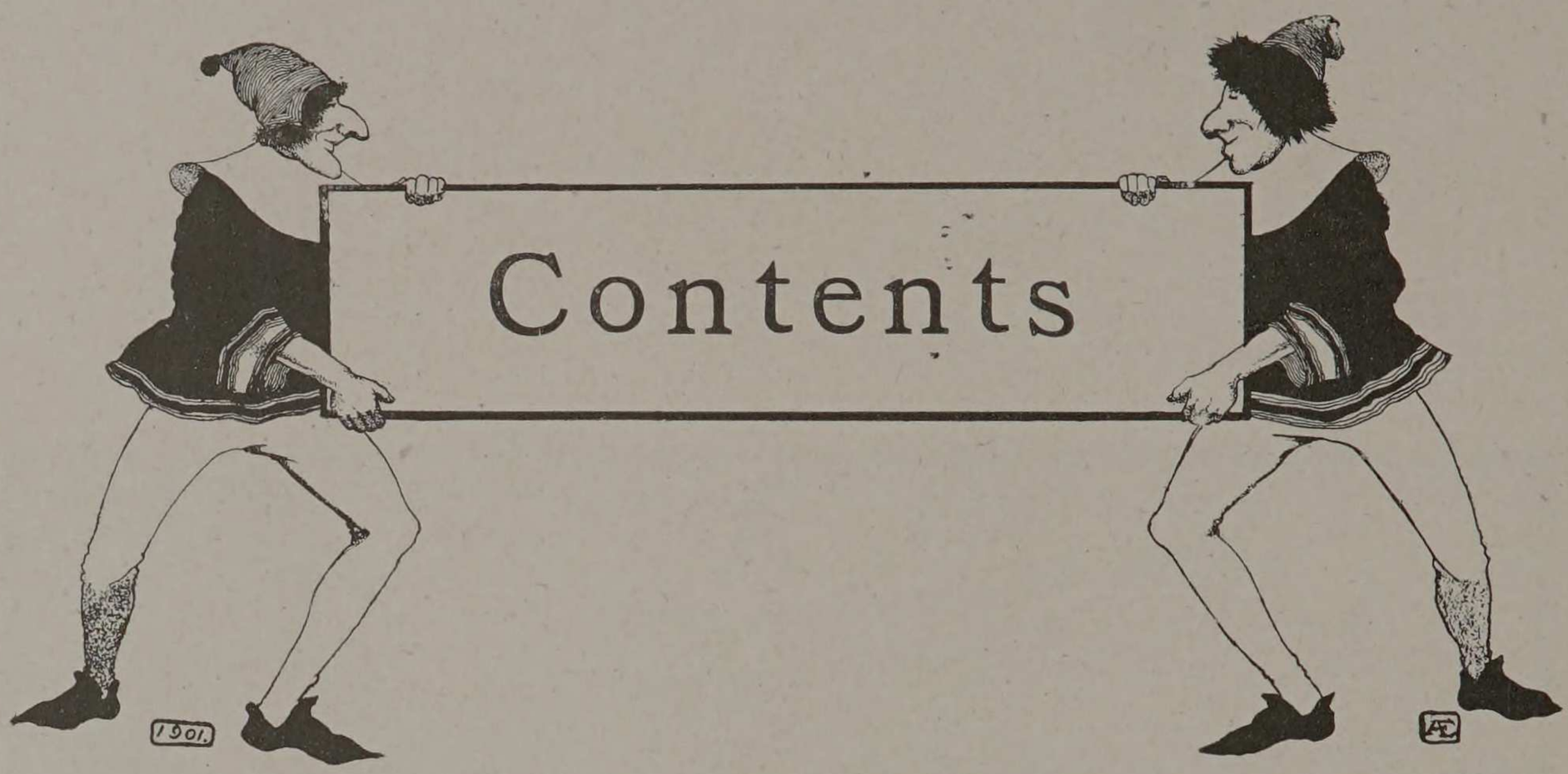
INTEGRAL

1900



By way of foreword, this:

As the representatives of the Class of Nineteen Hundred and Two, we offer this book to our friends in and out of Armour Institute of Technology.



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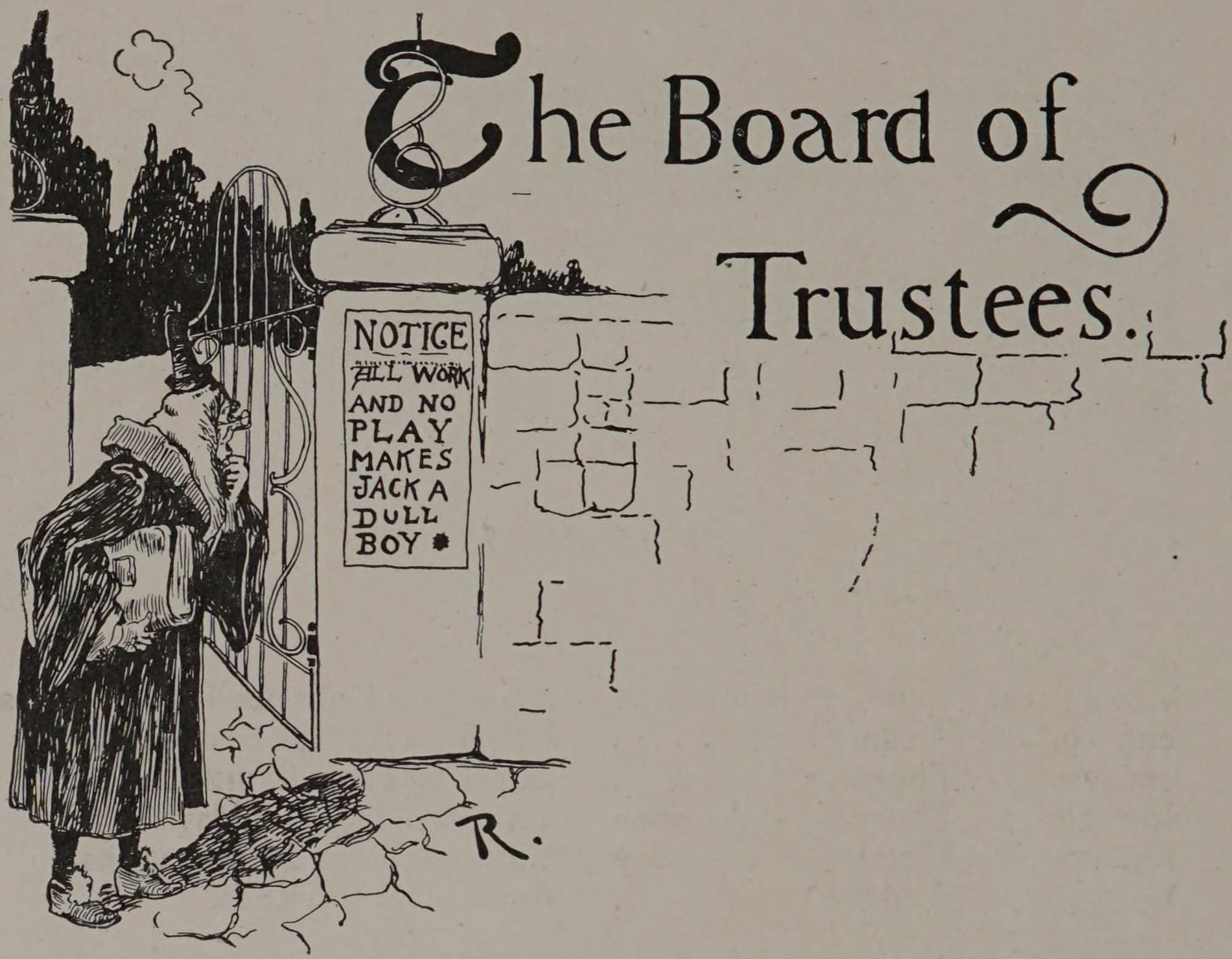


1900

Sept. 13–14.	Thursday and Friday	September Entrance Examinations.
Sept. 19.	Wednesday . .	Registration of Students.
Sept. 20.	Thursday . .	College Year Begins.
Nov. 29–30.	Thursday and Friday	Thanksgiving Hollidays.
Dec. 17–19.	Monday-Wednesday	Autumn Term Examinations.
Dec. 19.	Wednesday . .	Autumn Term Ends.

1901

Jan. 2.	Wednesday . .	Registration of Students.
Jan. 3.	Thursday . .	Winter Term Begins.
Feb. 12.	Tuesday . . .	Lincoln's Birthday; a holiday.
Feb. 22.	Friday . . .	Washington's Birthday; a holiday.
March 25–27.	Monday–Wednesday	Winter Term Examinations.
March 27.	Wednesday . .	Winter Term Ends.
April 3.	Wednesday . .	Registration of Students.
April 4.	Thursday . .	Spring Term Begins.
May 30.	Thursday . .	Memorial day; a holiday.
June 13–14	Thursday and Friday	Spring Term Examinations.
June 17–19.	Monday–Wednesday	Commencement Exercises.
June 24–25.	Monday and Tuesday	June Entrance Examinations.
Sept. 12–13.	Thursday and Friday	September Entrance Examinations.
Sept. 18.	Wednesday . .	Registration of Students.
Sept 19.	Thursday . .	Autumn Term Begins.



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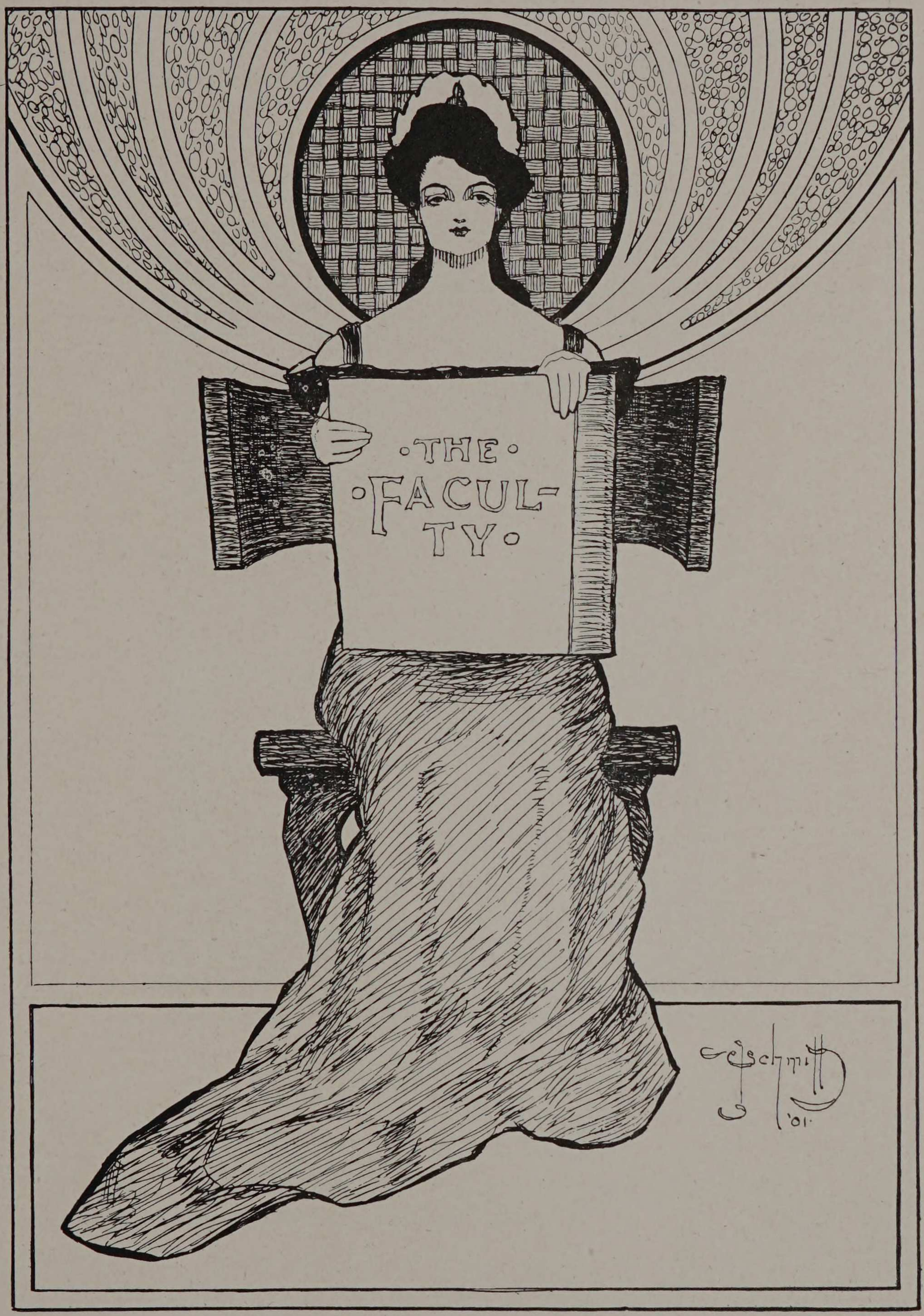
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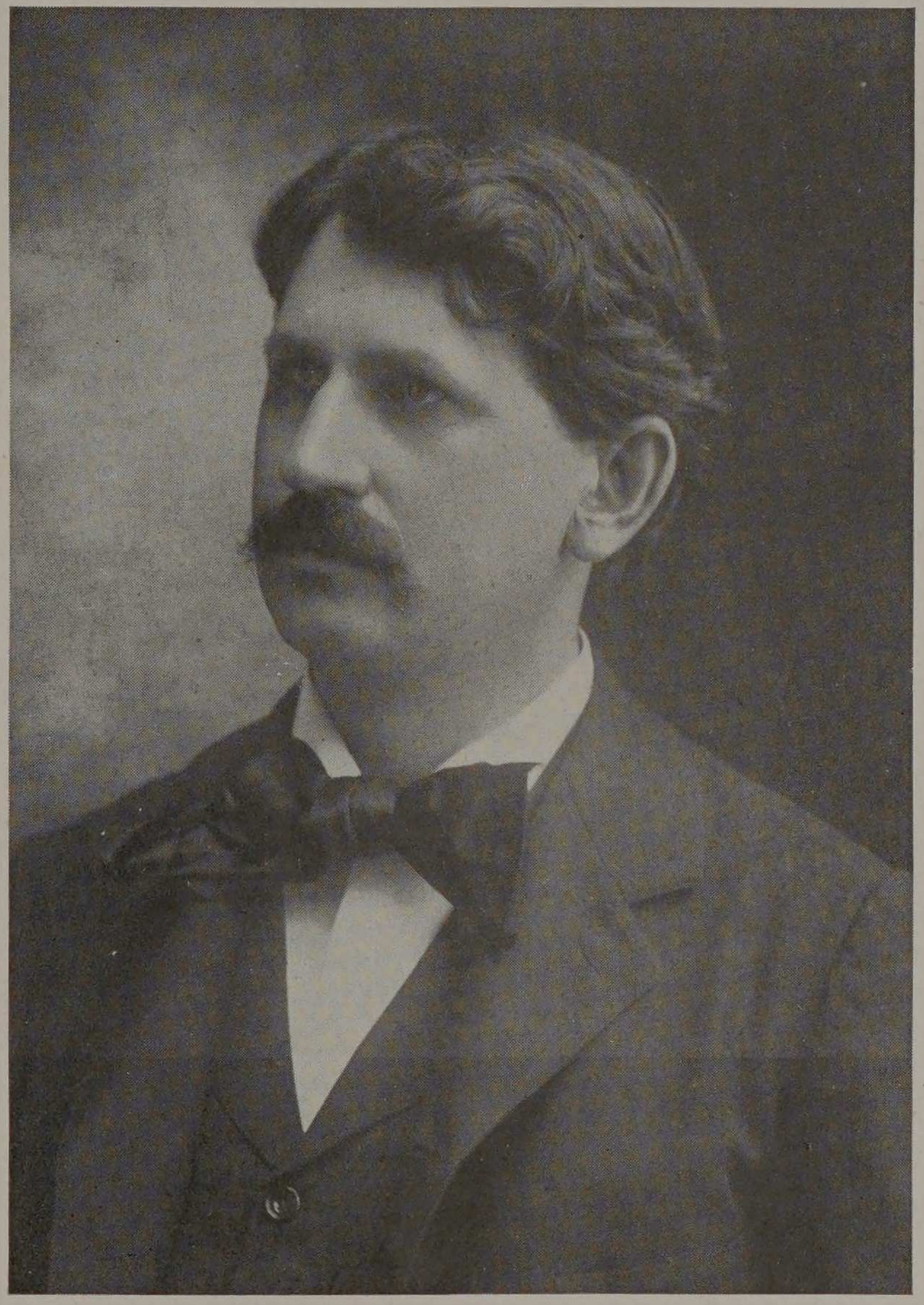
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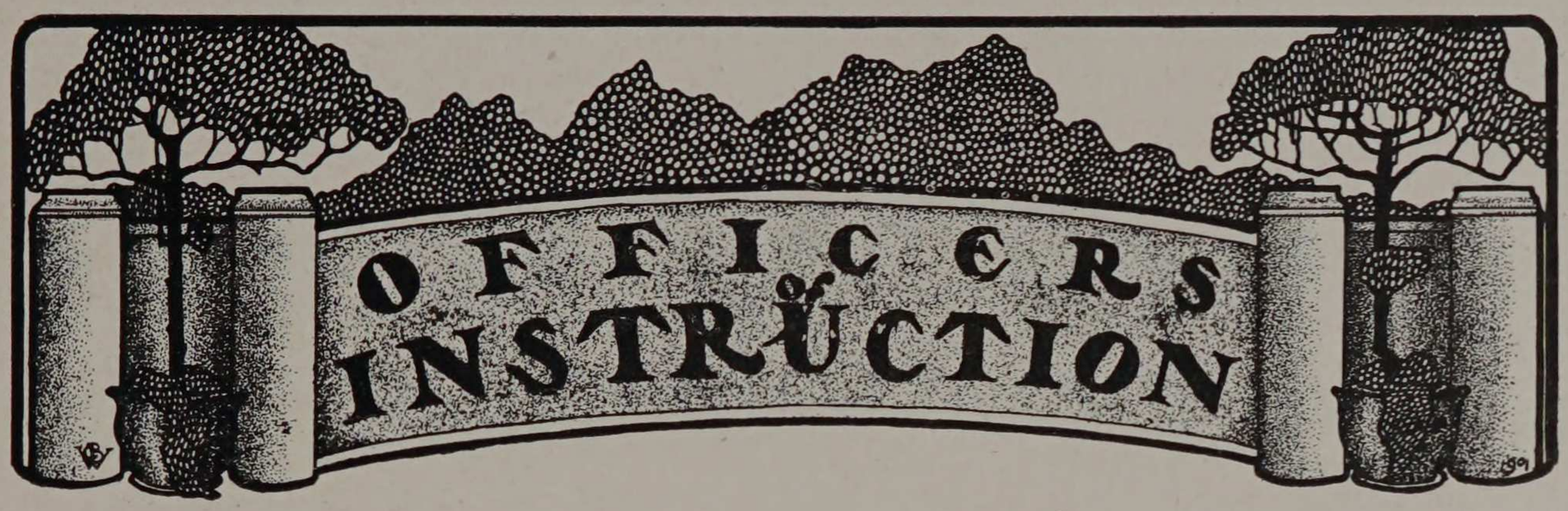
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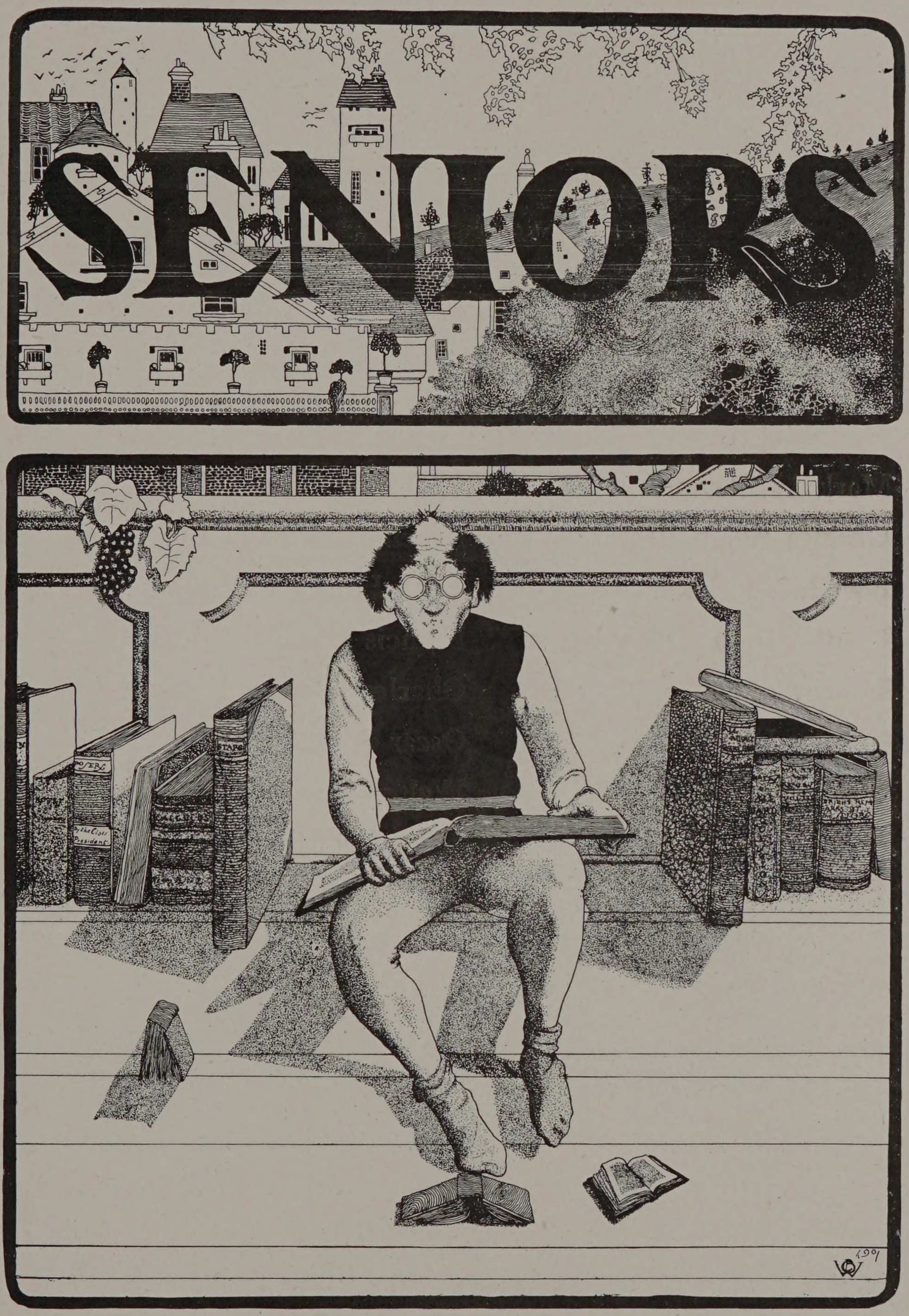
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SENIORS
1901

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Charles Adam Victor Axen
Earl Head Baker
Frank Hugo Bernhard
Louis Cohen
Charles Edward Eustice
Walter Irving Lewis
Fritz Albin Lindberg
Walter Everett Miller
Alden Charles Noble
John Henry Parker
Francis Gladheim Pease
Charles Warner Pierce
Oscar A. Rochlitz
Walter Raymond Ruegnitz
John Burnett Swift, Jr.



Lindberg *Baker*

Bernhard

Axen *Eustice*



Rochlitz *Pease*

Cohen

Arnold *Pierce*

History of the Class of 1901

"Be good and you will be lonesome."

Lonesomeness is proverbially the lot of the Senior. Whether this is due to his inherent goodness or his exalted dignity is a question which must be answered by each class according to their own conception of the sublime infinitude of the cosmic entity. To the ingenious Freshman, the pinnacular isolation of the Senior is a promised land of ripened grain rising from an overwhelming sea of verdancy. But think not that a Senior is seedy—he is toilworn.

On account of the newly acquired self importance of the Sophomore, he views with somewhat diminished awe the dazzling effulgence of the corruscating Senior. Alas that this should be so; but such is ever the case. No truly great man was ever without his detracting calumniators. The Juniors have supposedly reached what may be considered their years of discretion, or at any rate, having cut their milk teeth, strive by exemplary (?) conduct to atone for heretical thoughts of bygone years.

We, with the unbiased judgment and unprejudiced eye of Seniority, recognise our great worth and the immensity of our loneliness. We are thrice solitary. We are lonesome in our goodness—goodness knows! In the vastness of our intellect we occupy a position of distinguished loneliness amidst the plebian mediocrity of our daily associates.

We were erstwhile a puissant organization but now we,

the Fifteen, mourn the thirty who also ran. Read the BLUE SKY and consider what we have lost. When you read the Fulcrum remember that we made that. Forgive us; we knew not what we did!

We do not wish to brag. We could tell of hard fought battles bravely won; battles with other classes, battles with the Profs, from the lowest to the highest; and never have we met our match or trailed our colors in the dust. Alas for the men who fought at our side but now are far away. Yet why should we mourn? Is Pease not still with us whom we have taught to say "By gosh?" And Roughhouse Cohen the 110lb. champion? Hast heard of the Seven Seas? Behold Lewis, the man with the seven A's. Surely a crowning blessing.

But we must close. With swimming eyes we say farewell. Already we are beginning to speculate upon what the future may have in store for us. But, wherever we may be cast, let each and every one of us strive to reflect credit upon this college which has guided and aided us in mastering those subjects which shall help us to be successful engineers and helpful *men*.


VAUDEVILLE
GIVEN BY THE JUNIORS
'02
SAUSAGES
BEER
S.C.
1901

The Junior Class

Color

Royal Purple

Yell

Koax koax ko boom li ka ba
Armour Juniors
Rah, Rah, Rah

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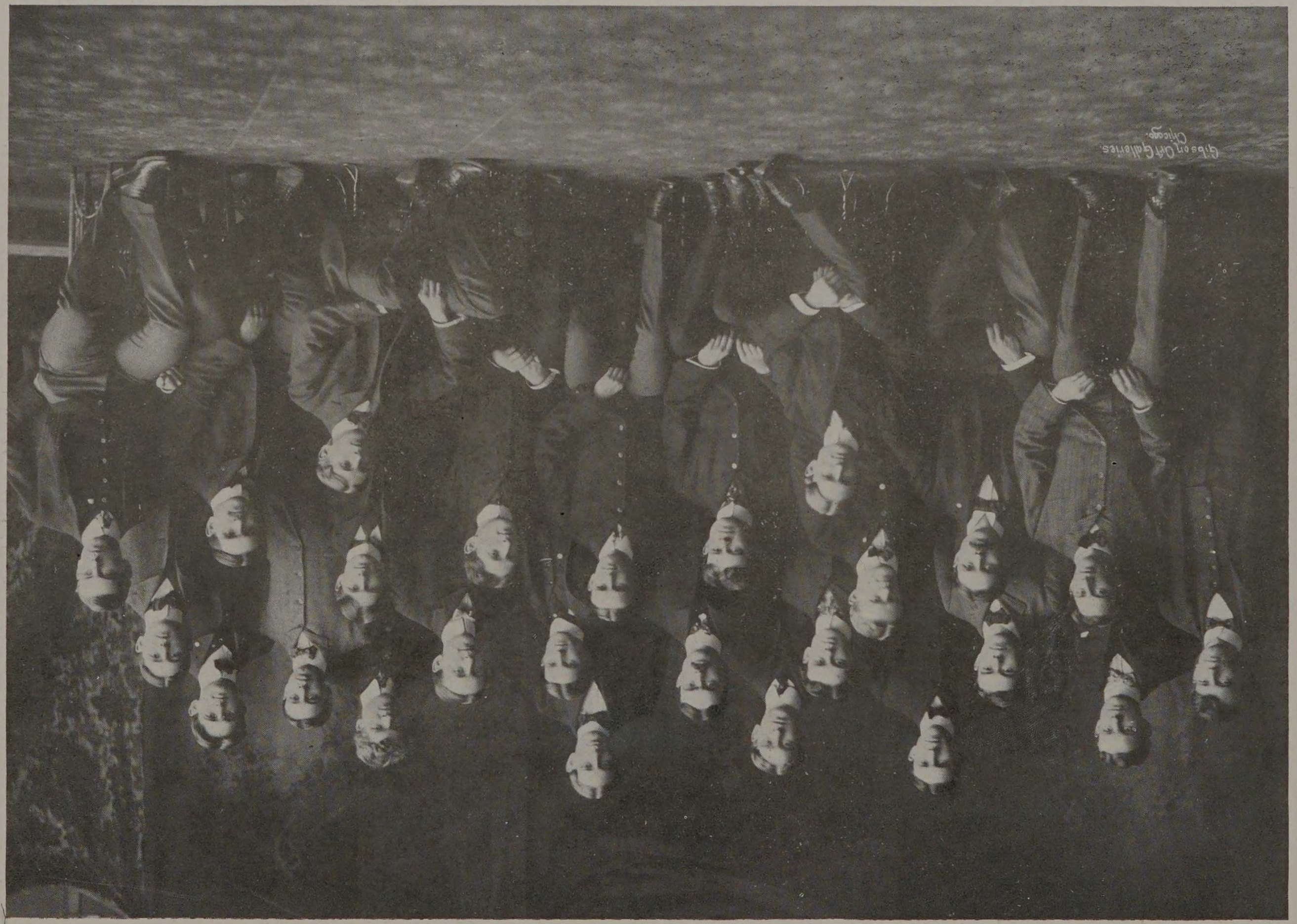
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E. H. Freeman, "
E. T. Harwood, "
R.M.Henderson, "
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H. L. Nachman, "
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Junior History

Here's to the class of "Naughty Two."
Here's to the Purple
Here's to who?

The hand of the scribe trembles, as he realizes that from the point of his fountain pen, must flow the history of such an illustrious class as that which will leave Armour Tech in 1902. The main characteristic for which we were noted during our Freshman year was slumber, for it was impossible for even the most active members to stir us into anything which had even the semblance of activity, and we lay inert in our chrysalis waiting for the time when we should come to realize that college life involves something more than mere attendance at lectures and recitations.

The summer vacation after the Freshman year came quickly to a close and most of us found ourselves back at the Institute. But, although some of our members had left, the class of '02 was stronger than before in unity and activity.

After the greetings and handshakes were over, we had a class-meeting, and at this meeting signs of life were manifested. Activity became the watch-word—the Sophomores were in everything. It became their duty to publish the Fulcrum, and they choose an efficient staff and, through the management of Field and Larkin, the Fulcrum was a financial and a literary success. Athletics were taken up and the Sophomore Track Team held the championship of the College. The '02 burgee was flaunted in the face of every class and was never taken nor allowed to trail in the dust. Class spirit and college spirit were fostered and nurtured in every way possible, and it is of this feature of our Sophomore year that we are especially proud. We gave a "Smoker" at "The America," thus inaugurating a pleasant custom of the Sophomore year, and as to the good time there enjoyed, only the members of the class and the little cob pipes with their purple ribbons can tell. A banquet

was also given at "The Union," where a happy crowd dined beneath the purple lights which added solemnity to a most joyous occasion. On account of our activity in trying to promote class spirit and college loyalty, President Gunsaulus tendered us a breakfast at Kinsley's. We will all remember the happenings of the night preceding that breakfast; long after our hairs are gray. How Calculus was justly tried, condemned, electrocuted and his corpse burned, just as the rays of the morning sun commenced to illuminate the scene; how we then adjourned to breakfast where "Prexy" had prepared the "fatted calf." Then the yacht ride, and last of all the merry breaking up and we were "Sophs" no more.

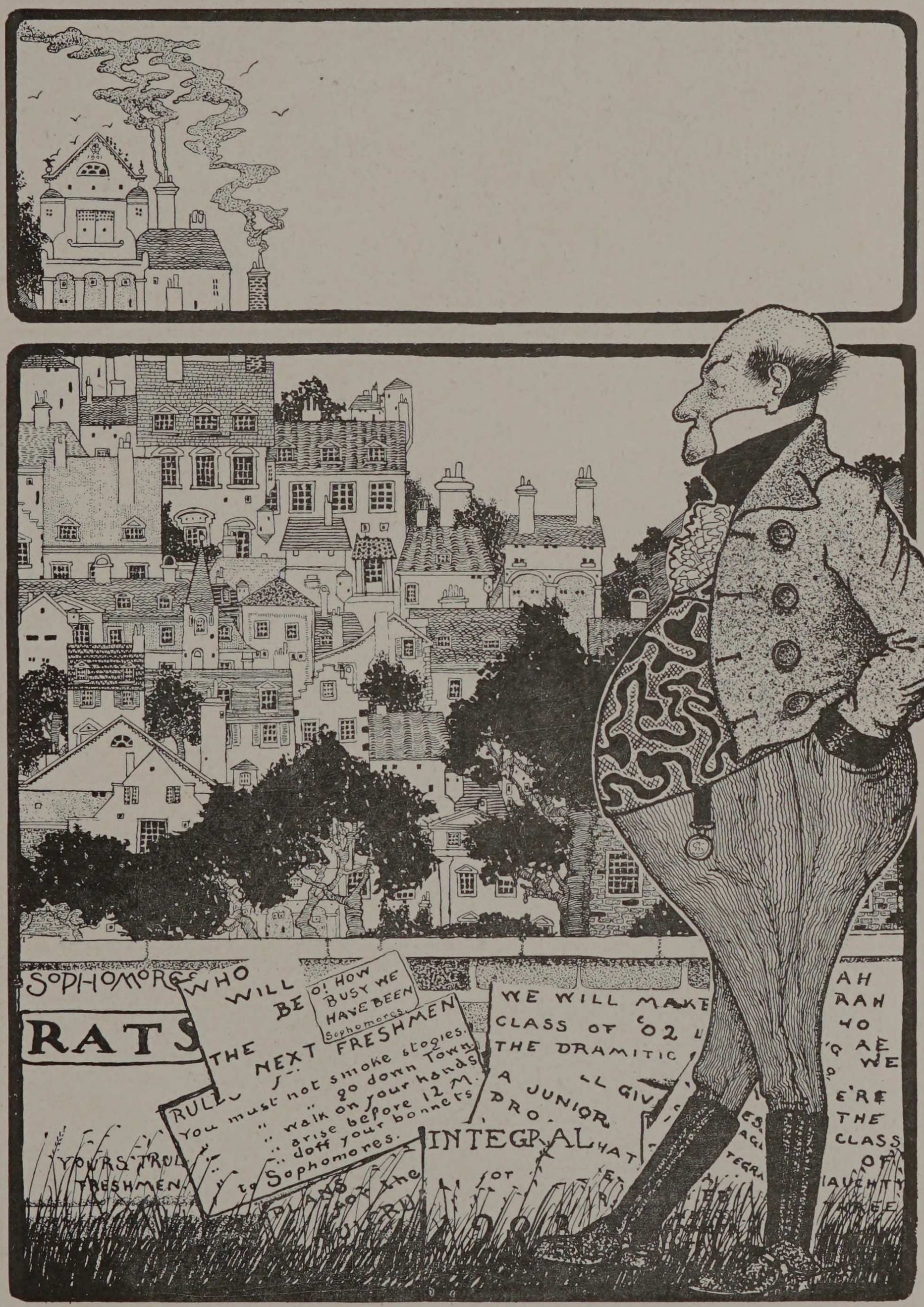
The bright morning of September 19, 1900, found us again assembled in the old familiar halls. Again greetings were exchanged, and again some of the familiar faces were gone, faces which had become dear to us through the two years of association, and it was with a sigh of regret that we bade farewell to Francis Field, Leroy Hunter, Walter Putnam and Ward Collins.

The spirit of activity which was present with us as Sophomores was still present, and through our efforts a reception was tendered the Freshmen by the upper classmen. The event was a complete success in every way, and one which would tend to give an incoming student a good opinion of those among whom he had taken up his work.

We also inaugurated the "Junior Promenade" with the most enjoyable affair of its kind ever given in the city.

The publication of this book is a Junior undertaking; and as to its success you judge for yourself.

Here our history must stop till time has proceeded farther; but, in conclusion, we wish to say that we are proud of our class, and whatever the history of our Senior year may be, we have already collected many pleasant memories, which will furnish grounds for pleasant retrospection, when we are separated and have gone out into the world.


SOPHOMORES WHO WILL BE THE NEXT FRESHMEN
RATS
RULES
You must not smoke stogies.
" go down Town
" walk on your hands
" arise before 12 M.
" doff your bonnets
to Sophomores.
YOURS TRULY
FRESHMEN
O! HOW BUSY WE HAVE BEEN
Sophomores
PLANS FOR THE
WE WILL MAKE
CLASS OF '02
THE DRAMITIC
A JUNIOR
DRO-
INTEGRAL
AH AAH
'O AE WE
E'RE THE CLASS OF

Sophomore Class

Colors

Green and White

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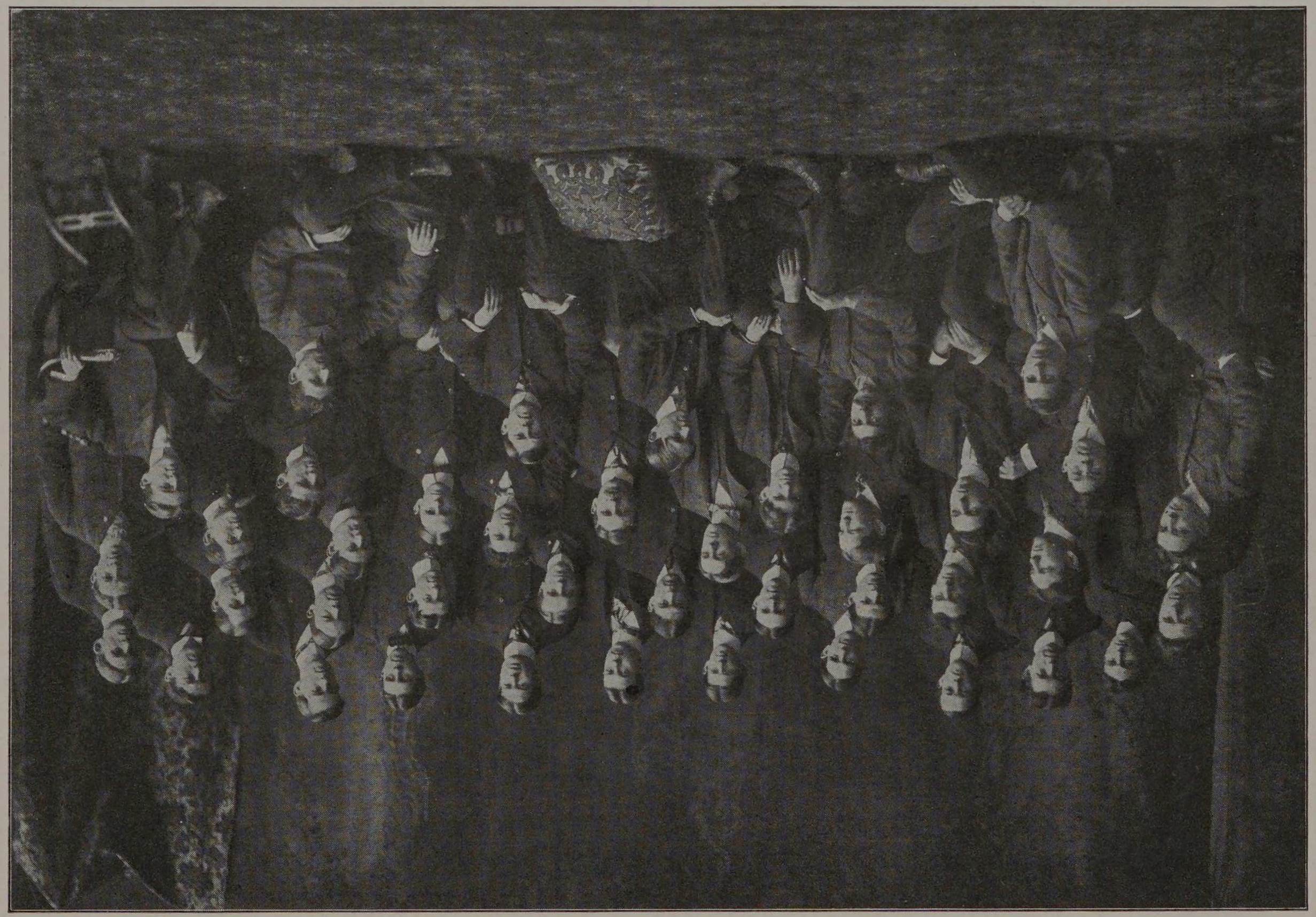
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'03 Class History

If you should meet old Father Time, slap him on the back and say, "What do you know old man?" he would probably reply after a moment's thought: "Let me tell you of a wonderful coincidence that took place not long ago. In the Fall of '99 there happened to come together in the halls of Armour Tech the greater part of the talented and brainy young men contained within the borders of this fair land of ours. Distant climes, as though influenced by an unseen hand, added their youths of learning to this assemblage. I do not know what brought about this chance meeting. Kind fate, perhaps.

When we, the heroes of this tale, entered the Tech we became known as "Ye Freshmen." For over a year ours was a life of most wonderful development, and now in 1901, as a mark of our increased wisdom, we have left the pranks of infancy to children, who, after much preparation, are following in our footsteps as "Freshies" while we have reached the distinctive rank of "Sophomores." The present Freshmen have, at our hands, been made to view with respect each upper classman.

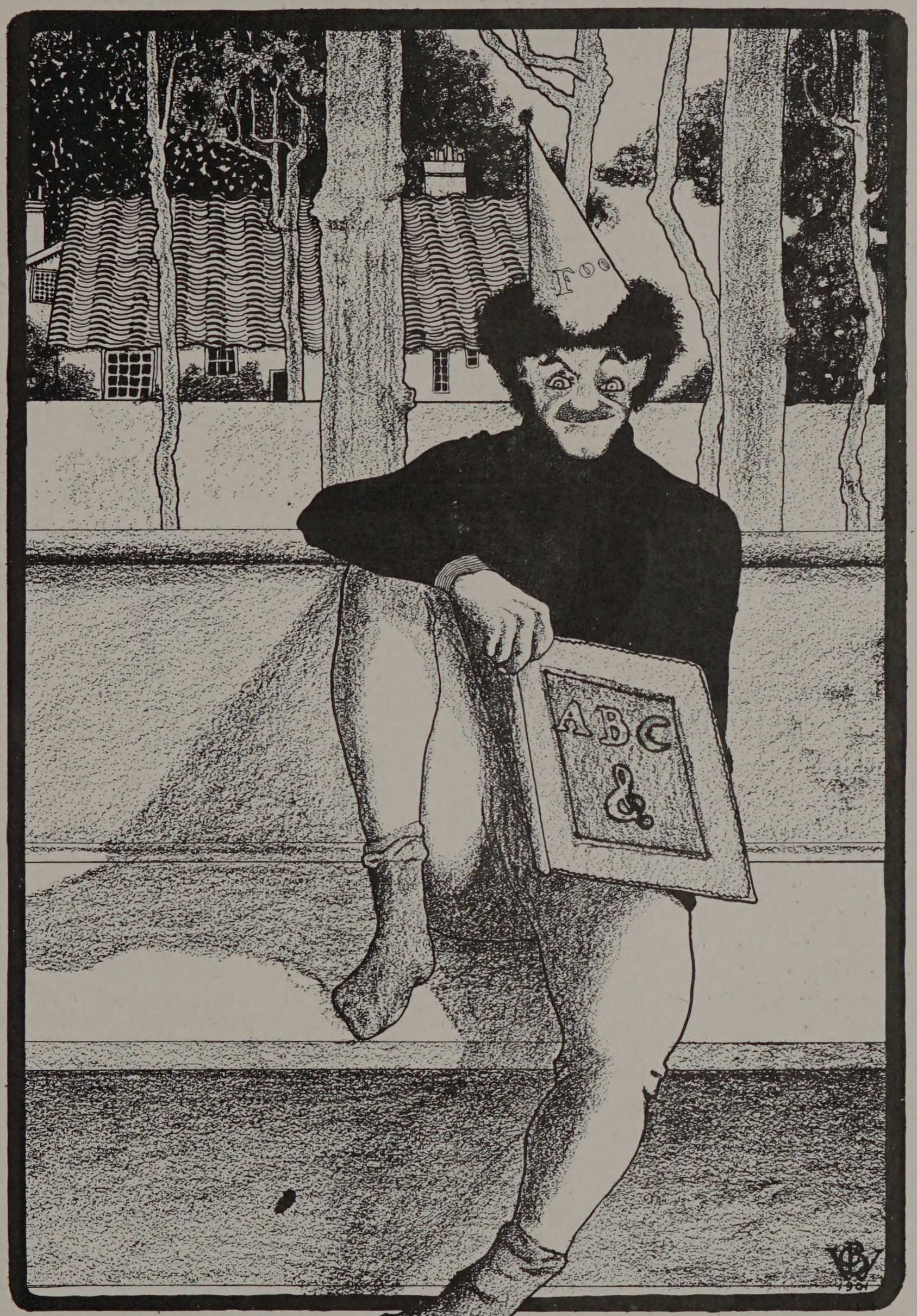
One dark night last November some of our brave classmates climbed to the rickety flag-pole and flung to the breeze the streaming banner of '03. It being one of our rules of conduct to always obey the faculty, when they suggested that our flag was causing the Freshmen to pine away in humiliation, we sympathetically removed the cause of the "Freshies'" tears as soon as it had waved over the Institute the requisite number of days.

Heretofore in the history of the college, the students, in the words of "Wakely, the Prex," "needed no rules by which to be governed," but when the present large and unruly "Freshman" class entered the "Tech" it was plainly seen that a code was needed, still keeping in mind our silent obedience to the faculty, we enacted certain suitable statutes which we posted in certain conspicuous

places about the campus. That these rules are obeyed is plainly seen by the conduct in the halls. Those poor little Freshmen hands and timid hearts have ever been as nothing against our brawn and tact.

Not alone in class spirit have we excelled but have set and maintained a high standard in technical work. And now in closing

Les ut join hands sister classes,
And thoroughly pledge it to be
Our life-long, devoted allegiance
To our dear Alma Mater, A. I. T.



FRESHMEN

Drawn by W. C. Barbour

Class '04 Tech

Colors ; Scarlet and White

Yell: Hullababoo, balla, ballore !
What's the matter with '04 ?
Raise a racket
Smash and crack it.
We're all right
Whoop

Officers

President, A. M. Jens — Vice-President, A. B. Benedict
Secretary, Gordon Wilson — Treasurer, E. Hiller

Fulcrum Representative, W. C. Ruegnitz
Integral Representatives, F. K. Indermille and A. H. Lewis
Business Committee, Byrne, Zuckerman, Coy, Parker and Indermille
Social Committee, Crawford, Frary, Clawson, Davis and McArthur

---

Freshmen

Alfred D. Alexander
George I. Anthony
Julius R. Armstrong
John L. Barnum
Allen B. Benedict
Arthur P. Bogle
Arthur J. Brown
Sidney D. Brown
Andrew R. Brown
Arthur Buie
C. Howard Burleigh
Louis J. Byrne
Charles L. Campbell
George Christophel
Frank C. Clark
Henry W. Clausen
Ernest L. Clifford
Frank A. Coy
Fred L. Collins
Roscoe K. Compton
James A. Crawford
Roydon N. Davis
William H. Dean
Henry A. Drefflein
Melville S. Flinn
Emil Farkas
Don R. Frary
Horace H. Griggs
Earle W. Grover
Harold L. Hamilton
Charles H. Hammond
Ray W. Hammond
Thomas J. Hancock
George J. Harbauer
Harry A. Hart
Harry W. Higman
Edwin J. Hiller
Walter W. Hoops
Walter G. Hoy
Frank B. Hutchinson
Fred W. Indermille
Augustus W. Jackson
Arthur M. Jens
Arthur E. Joslyn
Aaron G. Koch
Morris J. Knapp
Arthur H. Lewis
Isaac Lewis
Emil L. Lundgren
Charles A. Miller
Zack M. Marr
Frank Marchese
Albert C. McArthur
Edward McBurney, Jr.
William A. Nelson
John C. O'Neill
Worthington F. Parker
Edson K. Pier
Orson R. Prescott
Ralph C. Proudfit
William F. Rech
Daniel Roesch
Frederick J. Root
Walter A. Rue
William C. Ruegnitz
Charles C. Sampson
Frank W. Samuelson
John S. Schroeder
Pierce V. See
Perry L. Shankland
Arthur D. Smith
McCoy Smith
Rupert H. Strang
Charles T. Torry
Clinton D. Wadsworth
Albert J. Walker
Charles A. Watkins
James M. Watt
George O. Webster
Jacob Weil
Donald E. Willard
Roy E. Williams
William G. C. Wilson
Harry M. Wood
Herbert Zuckerman


Gibson Art Galleries.
Chicago.

Freshman Class History

The history of an ordinary Freshman class generally begins by lamenting the lack of history, or by telling how lonesome they were when they first struck the school, but we are THE FRESHMAN CLASS, and consequently, we have been making history ever since our organization last September. Perhaps, though, we cannot be entirely credited with this—may be it is merely the twentieth century manifesting itself. Glorious thought! The greatest class in A. I. T. and the greatest century in the history of the world, starting in together and making a blaze of glory that makes Samuelson's clothes look as dull as a chemistry lecture by comparison. For we are the twentieth century class without a doubt. The Seniors and Juniors are mere left-over remnants of a bygone age, and it is certain that no self-respecting century would queer itself at the start by beginning with a crowd like the present Sophomores, so the honor is safely ours. In the classic language of Billy Shakespeare, "We've got it cinched." Just cast your eye down our ranks and note the many distinguished people among our number. There is Lundren, the six-foot quintessence of knowledge, the instructor of Profs., who knows it all and knows he knows; there is O'Neill who converted the features of the prettiest Sophomore in the bunch into a blackish red mass where you couldn't tell the bicuspids from the maxillary muscles; Zuckerman, the sleeping beauty, the dispenser of bottled hospitality; Judson, the animated ha ha, the leader of orchestras; and Sampson, who gets jealous when anyone makes love to his descriptive plates. See

also, among our lesser lights, 'Andsome Allan, alias Beauteous Benedict, the breaker of chocolate-colored hearts; Hutchinson, who can and will act any roll from "Zaza" to "Hind Legs of Elephant, act IV.;" and all the others who make up our class, and then can you, dare you wonder why we have already secured the respectful admiration of all beholders.

There is but one disappointing feature in all the history of our class, and that is the surprising lack of responsiveness shown by '03. They have been a horrible failure. It is true that they hoisted their cheese-cloth colors on the school flag-pole, and then laughed at our manly if unavailing efforts to get them down, but this piece of humor flattened out considerably when they received the bill for having a new halyard put in—$15—no more, no less. They also issued some yellow proclamations once upon a time and then waited to see if the Freshmen would be considerate enough to obey them. The Freshmen treated them with proper scorn, and the fact was brought to light that the "procs" were not the only thing connected with '03 that had a streak of yellow. We challenged them to a foot ball game—and they got cold feet.

Our athletic prowess and our ability to manage gorgeously brilliant social functions are too well known to require further comment here; so here we beg permission to close. Our description of the class of '04 has been rather a bird's eye view (if it were possible to get to a position higher than that occupied by our class) than a detailed drawing; but who shall pretend to describe exactly the power of the whirlwind or the brilliancy of the diamond; for our part we shall be quite satisfied if we have given you but a glimpse of that class which is:

First in rough house,
First in classes
First in the twentieth century.



Alumni

" Up in the temple of fame they dwell
These students of other days,
Each in a niche he himself has won
By easy or arduous ways.

And some are so high
They seem stars in the sky,
And some are here to stay:
But afar or near
There's a smile of a tear
For the struggling ones of to-day."

GRADUATES OF 1897

At the First Annual Commencement, on June 16, 1897, the Institute conferred the following degrees in course :

Hall Reed Chapman, B. S. in E. E.
McCormick Manufactuaing Co., Des Moines, Ia.

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

Clarence Everett Freeman, B. S. in E. E.
Associate Professor in Electrical Engineering, A. I. T.

Benjamin Howell Glover, B. S. in E. E.
Engineer Underwriters Bureau. Fire Protection Engeering.

F. Benson Hall, B. S. in E. E.
Testing Department, Sergent Co., Chicago, Ill.

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

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

Neal McIntyre Loney, B. S. in M. E.
Mechanical Engineer, Pennsylvania Co., Fort Wayne, Ind.

Gerald Mahony, B. S. in E. E.
Manager the Lakon Co., Elkhart, Ind.

Charles T. Malcolmson, B. S. in E. E.
Electrical Engineer, Dept. of Machinery and Electricity. U. S. Commission to the Paris Exposition in 1900, Paris.

George Leo Matt, B. S. in E. E.
Electrician, Boys' Industrial School, Lancaster, Ohio.

Edward D. O'Brien, B. S. in E. E.
Department of Public Works, Bureau of Streets, Chicago, Ill.

Robert Vallette Perry, B. S. in M. E.
Mechanical Engineer, C., B. & Q. R. R., Chicago, Ill.

Isidor Prenner, B. S. in E. E.
Electrical Engineer, American Carbide Co., Holstine, Ia.

Ralph Herbert Rice, B. S. in E. E.
Graduate Student, University of Chicago.

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

Max Salamson, B. S. in E. E.
The General Electric Co., Schenectady, N. Y.

Frank Delbert Sheibley, B. S. in E. E.
Testing and Insp. Dept., Chicago Rheostat Co., New York.

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

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

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

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.
Inspector, Bureau of Insurance Information, Minneapolis, Minn.

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

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

Richard H. Gay, B. S. in E. E.
Assistant Engineer, U. S. Senate, Washington, D. C.

Edwin George Hindert, B. S. in E. E.
Electrical Engineer, General Electric Co., Schenectady, N. Y.

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

Edward W. Leeper, B. S. in E. E.
Chicago Underwriters' Association, Chicago, Ill.

Harry A. MacClyment, B. S. in E. E.
Motive Power Depart., C., B. & Q. R. R.

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

George E. Morris, B. S. in A.
Jenny & Mundie, Architects, N. Y. Life Bld'g, Chicago, Ill.

Edwin Harry Nagelstock, B. S. in E. E.
Electrical Engineer, General Electric Co., Schenectady, N. Y.

George H. Patten, B. S. in E. E.
Electrical Engineer, General Electric Co., Schenectady, N. Y.

Charles Harrison Roesch, B. S. in E. E.
Electrical Engineer, Cambria Steel Co., Johnstown, Penn.

Harry Joseph Slaker, B. S. in E. E.
Electrical Engineer, U. S. Mint, Philadelphia, Penn.

Warren E. Weinsheimer, B. S. in E. E.
Dept. of Machinery and Electricity, U S. Commission to the Paris Exposition in 1900, Paris, France.

GRADUATES OF 1899

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

Alfred Samuel Alschuler, B. S. in A.
Treat & Adler, Architects, Chicago.

William Henry Beattys, B. S. in E. E.
Electrical Department, Sargent & Lundy, Chicago, Ill.

Sumner Ellis Bippus, B. S. in E. E.
Colorado Springs Electric Lighting Co., Colorado Springs, Colo.

Arthur James Burr, B. S. in E. E.
Instructor in Mathematics, Armour Institute, Chicago.

Sidney Thomas Corey, B. S. in E. E.
Central Union Telephone Co., Chicago, Ill.

Louis Elliott, B. S. in E. E.
Electrical Engineer, Sprague Electric Co., Chicago, Ill.

Samuel Clarkson Fiddyment, B. S. in E. E.
Cosmopolitan Electric Co., Ashland Block, Chicago, Ill.

Albert Homer Goodhue, B. S. in M. E.
Mechanical Engineer, A. H. Barker & 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.
With F. W. Horne, American Machinery, Yokohama, Japan.

Ray Simeon Huey, B. S. in E. E.
Electrical Engineer, Harthy Motor Co., Elgin, Ill.

Ernest Conover Johnson, B. S. in E. E.
Jewel Electrical Instrument Co., Chicago, Ill.

Morris Wisner Lee, B. S. in M. E.
Depart. of Machinery and Electricity, Paris Exposition, 1900.

Charles Tobias Lewis, B. S. in M. E.
Mechanical Engineer, Great Northern Ry., St. Paul, Minn.

Louis Frank Mahler, B. S. in E. E.
De Laval Steam Turbine and Electric Co., Stockholm, Sweden.

Oscar Bernard Marienthal, B. S. in A.
Architects' Office, Board of Education, Chicago.

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

Charles Sumner Morse, B. S. in E. E.
Mechanical Engineer, K. C.,St. J. & C.B.R.R.,St. Joseph, Mo.

Elmer H. Olson, B. S. in E. E.
Bridge and Building Dept., Illinois Central R. R.

William Blanxius Pavey, B. S. in M. E.
Mechanical Engineer, Swartzchild & Sulzberger Co., Chicago.

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

Horace Swett Powers, B. S. in A.
Architectural Draftsman, U. S. Commission to the Paris Exposition of 1900, Paris, France.

Chauncey Owens Rawson, B. S. in E. E.
The Standard, Boston, Mass.

Bela de Rimanoczy, B. S. in E. E.
Engineering Dept., Chicago Edison Co., Chicago, Ill.

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

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

Ed Vincent Starkweather, B. S. in E. E.
Inspector, Insurance Survey Bureau, Chicago.

Clarence Lyle Tarbell, B. S. in M. E.
C., B. & Q. R. R. Shops, Hannibal, Mo.

Otis Norman Terry, B. S. in M. E.
C., B. & Q. R. R., Chicago.

Frederick Wight Twitchell, B. S. in E. E.
Parlin & Obendorff, Canton, Ill.

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

Ernest Cantelo White, B. S. in M. E.
Serrell & White, American Machinery, Paris, France.

GRADUATES OF 1900

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

Lyford Conrad Bradley, B. S. in M. E.
Swift & Co., Union Stock Yards, Chicago, Ill.

Mrs. Mildred Wadsworth Campbell, B. S. in C. B.
With Ralph Modjeski, Consulting Engineer, Chicago, Ill.

Andrew Thompson Creelman, B. S. in E. E.
Inspector, Chicago Fire Underwriters' Association.

William Tucker Dean, B. S. in E. E.
General Electric Co., Schenectady, N. Y.

Charles Henry Fisher, B. S. in E. E.
The Gulf Co., Belle Isle, Louisiana.

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

Herman Walter Graff, B. S. in E. E.
Westinghouse Electric and Mfg. Co., East Pittsburg, Penn.

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

Herman Hausmann, B. S. in E. E.
Illinois Steel Co., C. E. Dept., South Chicago, Ill.

George Fowler Hayden, B. S. in E. E.
Inspector, Chicago Fire Underwriters' Association.

Charles Sumner Longnecker, B. S. in E. E.
W. E. Mack & Co., Chicago.

Frank Yates Low, B. S. in E. E.
General Electric Co., Schenectady, N. Y.

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

Max Sklovsky, B. S. in E. E.
Schwartzchild & Sulzberger Co., Chicago, Ill.

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

John Henry Tousley, B. S. in E. E.
Simplex Railway Appliance Co., Chicago.

Frederick Peter Walther, B. S. in E. E.
Inspector, Chicago Fire Underwriters' Association, Chicago.

Vernon Spencer Watson, B. S. in E. E.
With R. E. Schmidt, Architeet, Chicago.

Frederick William Zimmerman, B. S. in E. E.
Great Northern Railway, St. Paul, Minn.



Drawn by W. C. Barbour

The Class of 1901 Armour Scientific Academy

Class Yell

Who can?
We can,
'01 Acad
Can.

Class Colors—Blue and Gold

Class Roll

LEO FALK WORMSER, President — MILDRED HARTMAN, V-Pres.
JENNIE MARGARET HODGE, Sec. — CHARLES H. HARTMAN, Treas

Bach, Adele Ida
Brookhart, Elinor Haviland
Falter, Clara Elizabeth
Hodge, Jennie Margaret
Holland, Edna Evalena
Simpson, Edna Louise
Weinberg, Sylvia
Hartman, Mildred
Kacin, Walburga Lucy
Spitz, Rachel Beulah
Malcolm, Edythe Hammond
Beers, Harley Minard
Beers, Leslie Minoe
Buchanan, Bertram Oliver
Cole, Clifford C.
Couchois, Edmund W
Delano, Lewis Alfred
Dexter, Clarence Sawyer
Culbertson, Roger Goodwin
Hauck, Fred August
Hermann, Charles Henry
Fischer, Carey Carlton
Kepler, Jr., Richard Jasper
Lowenthal, Ralph Matthew
Lowenthal, Paul Herbert
MacDonald, John Joseph, Jr.
Macoy, Jr., Earl H.
Maher, Eugene Edward
Malcolm, Roy Alexander
Martin, George Henry
Raley, Charles Milton
Rosenheim, Benedict Maurice
Sacket, Barton Hill
Drummond, Alfred John
Slimmer, Ruluff L.
Walter, Edward Arthur
Whitney, Harold Thornton
Wormser, Leo Falk
Lennartz, Garfield Paul
Stem, LeVere Haleaway
Freeman, Claude Louis
Seyl, Anthony Edward
Strube, Edward Daniel
Willets, Ray Douglas
Fitzpatrick, Charles James
Holman, James P.
Sinclair, Nel J.
Mead, Harry Levi
Menkin, E. F.
Redman, Rawson A.
Park, Samuel J.
Hammacher, Howard F.


Gibbons Art Gallery
Chicago
—1901—

History of the Class of 1901—Academy

It has become a time honored custom to proclaim through the "Integral" the valorous deeds of the Academy graduating class; but the acquirements of the class of 1901 have been so great and its fame has become so widespread that only a few of the most noteworthy acts can be mentioned here. The entrance of this class was dissimilar from that of others in only one respect—it carries with it a profound significance, namely, that this class would be to the Institute what Schlitz beer has been to Milwaukee. From the very first day the presence of the class was felt—especially at the bureau of information. But the summer which intervened between the spring of the first year and the opening of the second wrought a wonderful change upon the members of the class of 1901. An inquisitive, strange set had been transformed into an energetic class which immediately organized into what has become the strongest and most loyal class which Armour Academy can count as her own. The constitution which united this class into an organization is a masterpiece of parliamentary manipulation and has been used as a model by every succeeding class. In its second year the class played an important part in the athletics of the school, winning and retaining the Institute base ball championship and losing the basket ball supremacy of the Academy by the small margin of one point. But physical superiority did not cause mental brilliancy to be neglected, for in that memorable year there were delivered at the meetings of class Phillipics whose excellence has caused them to go down into history as standards of intellect and oratory.

But the close of the second year did not mean a completion of the class' splendor for the third year was another stepping stone by which the class ascended to success. Space does not permit an enumeration of the many triumphs propagated by 1901, but one act above all others deserves mention. It was the inception of school spirit in Armour Academy and loyalty to Alma Mater. At all

events, field, gridiron, diamond, cinder path or assembly hall the cheers of 1901 were loudest when a step was taken in advancement, and its hisses were strongest in downing any movement which carried with it injury to the Institute's welfare. But 1901's realms of victory extended beyond the walls of school and reached out into brilliancy in the execution of social functions. This was demonstrated when the class tendered to the Academy Seniors a dance, whose equal had not been reached and whose superior is still to be ound. This was the last step in causing even the haughty Seniors to acknow.edge their inferiority. 1901 was declared by *all* superior to *all.*

With such a past the class entered upon its last year. None disputed the claims of the Seniors but a few Juniors and they were one night silenced and sent into oblivion. Every manager and captain of an Academy team could boast that he was a member of this noble class, while sororities and fraternities consisted almost entirely of Seniors. A repetition of the last year dance, crowned with additional splendor, was one of the class' last memorable acts. The Academy had adopted the colors of this class as her own and, in fact, to use the words of an observer, "The Academy was the class and the class the Academy."

On the day when the school must sadly and unwillingly depart with the presence of the class, there will be left behind, as a tribute to the school, a memorial which will in the future be spoken of as the souvenir of the most notable and praiseworthy class—the class of 1901 Academy.

Societies

List of Societies

Phi Kappa Sigma
Delta Tau Delta
Photographical
Technical
Chemical
Foreigners' Club
Y. M. C. A.
Republican Club
Chess Club
Dramatic Club
T T T Club
Integral
Fulcrum
Radical Club
Omicron Kappa Pi
Mu Delta Sigma
Beta Pi Sigma
Alpha Delta Sigma
Sigma Delta
Sigma Kappa



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,	1855
Eta	University of Virginia,	1855
Tau	Randolph-Macon College,	1872
Upsilon	Northwestern University,	1872
Phi	Richmond College,	1873
Psi	Pennsylvania State College,	1890
Alpha-Alpha	Washington and Lee University,	1893
Alpha-Gamma	West Virginia University,	1895
Alpha-Delta	University of Maine,	1898
Alpha-Epsilon	Armour Institute of Technology,	1898
Alpha-Zeta	University of Maryland,	1899

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

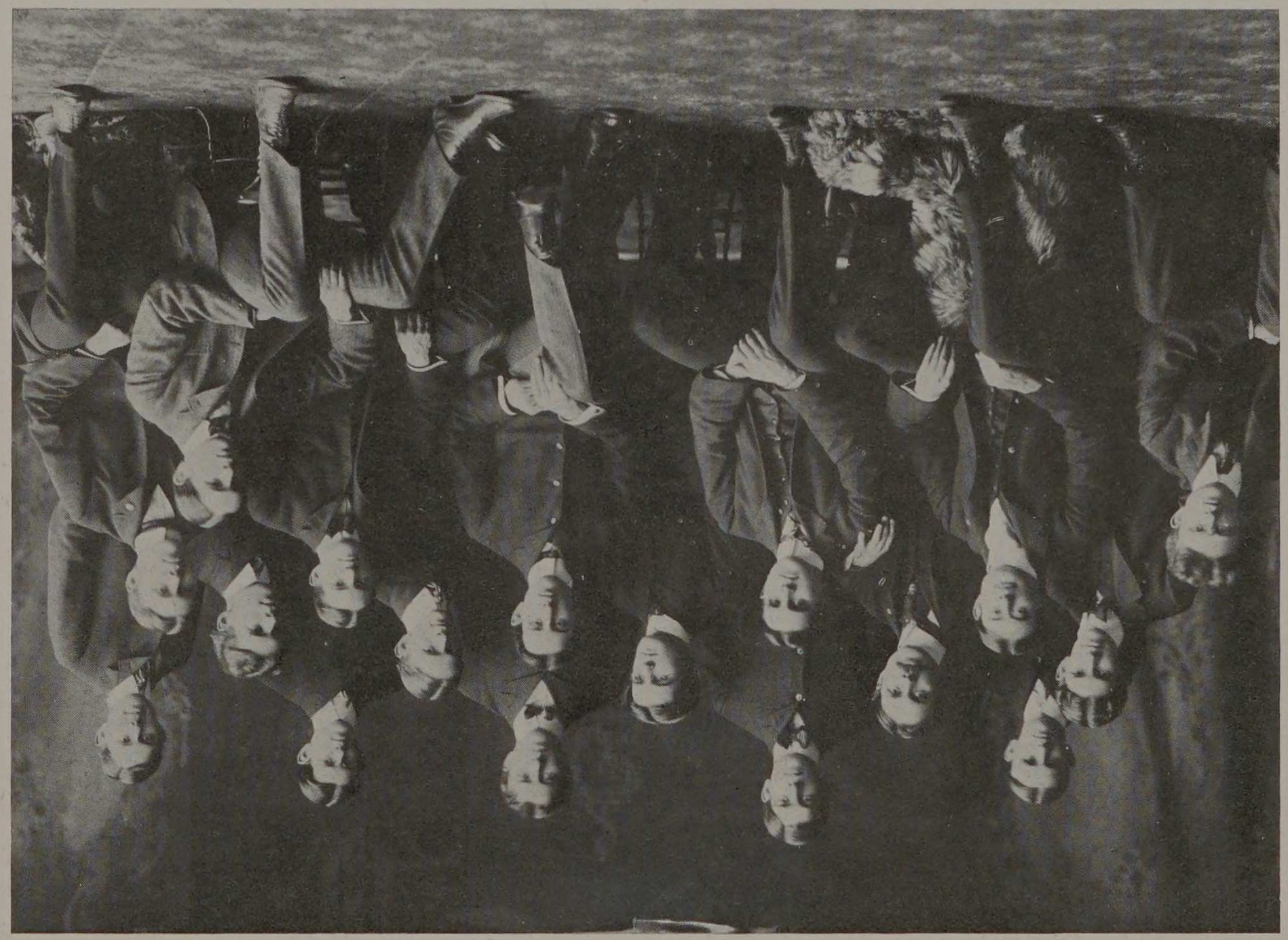
1900
George A. Feindt
Frank Y. Low
Charles A. Garcelon
George F. Hayden
Charles S. Longnecker
Dean Harvey
Erle S. Roos

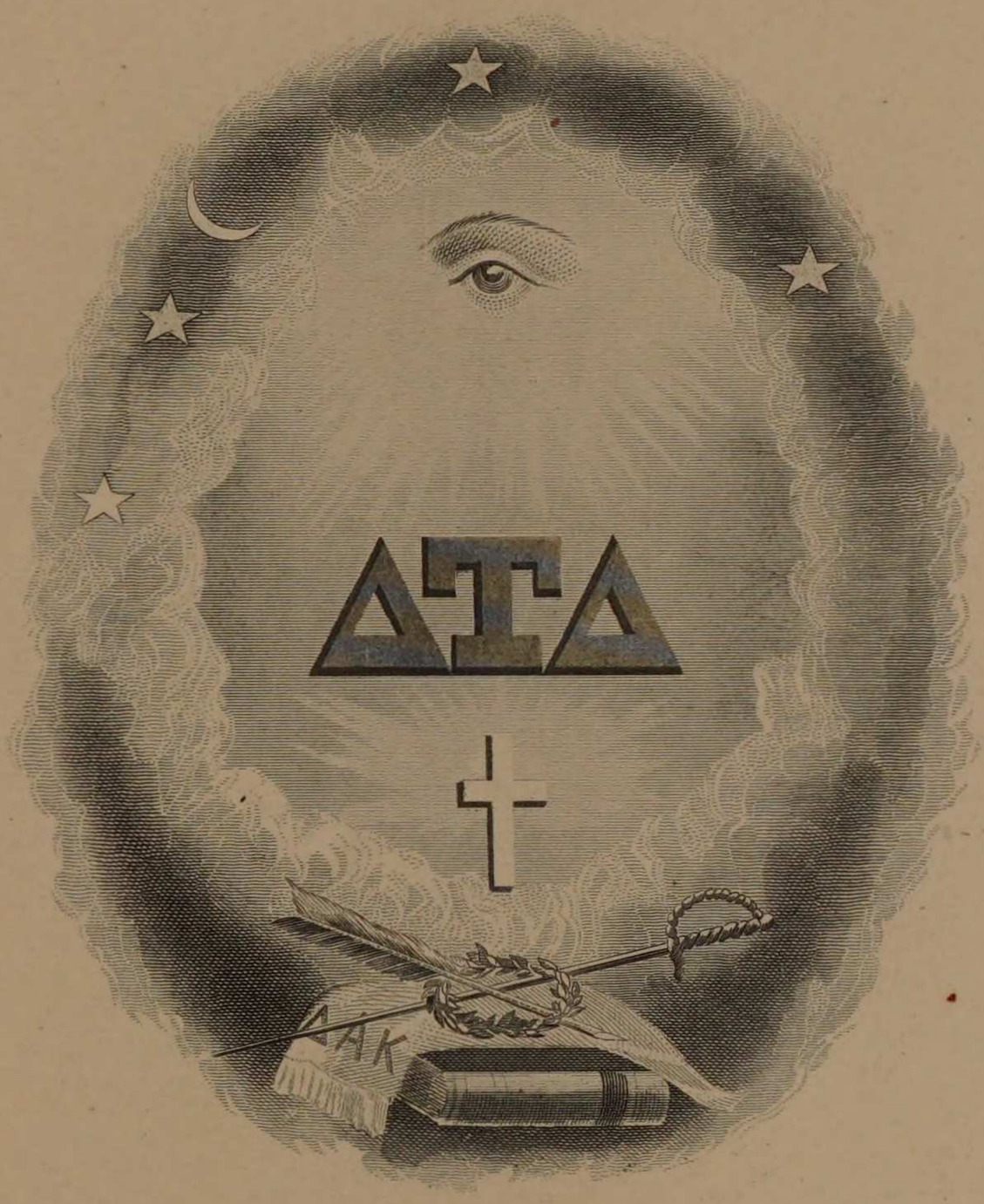
1901
Robert J. Raley
Walter E. Miller
Robert T. Fry
Alden C. Noble
Thomas W. Stevens

1902
Marion W. Briggs
Henry G. Brown
Ward O. Collins
Rollo M. Haskett
Roy M. Henderson
Robert R. Jones
Fred G. Larkin
R. G. Reiniger Jr.

1903
Will H. Dunlap
Roswell S. Lander
H. B. Rawson
Fred O. Seymour
Ellis C. Soper
Grafton Stevens

1904
Arthur P. Bogle
James A. Crawford
Royden N. Davis
Don R. Frary
Fred W. Indermille





Dreka, Phila.

Delta Tau Delta

CHAPTER ROLL

Southern Division

Lambda	Vanderbilt University
Pi	University of Mississippi
Phi	Washington and Lee University
Beta Epsilon	Emory College
" *Theta*	University of the South
" *Iota*	University of Virginia
" *Zeta*	Tulane University

Western Division

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

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*	De Pauw "
" *Zeta*	Butler College
" *Phi*	Ohio State University
" *Psi*	Wabash College
Gamma Delta	University of West Virginia

EASTERN DIVISION

Alpha	Allegheny College
Gamma	Washington and Jefferson College
Rho	Stevens Institute of Technology
Upsilon	Rensselaer Polytechnic Institute
Omega	University of Pennsylvania
Beta Lamba	Lehigh University
" *Mu*	Tufts College
" *Mu*	Massachusetts Institute of Technology
" *Omicron*	Cornell University
" *Chi*	Brown "

Gamma Epsilon Chapter

(Established May 10, 1901.)

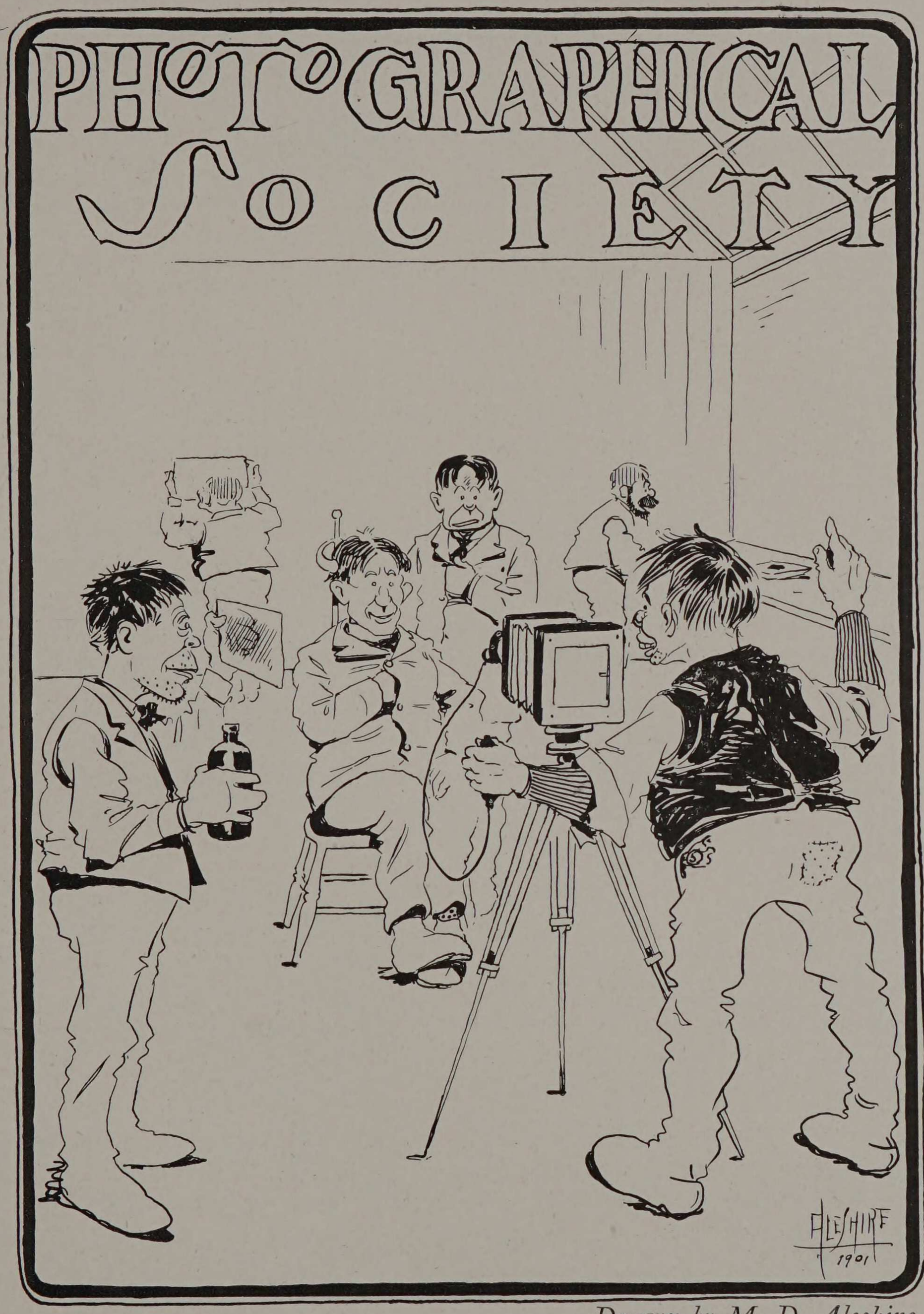
Colors—Royal Purple, Old Gold and White
Flower—Pansy

Yell—Rah! Rah! Delta,
Delta Tau Delta,
Rah! Rah! Delta Tau,
Delta Tau Delta.

ROLL

'02	'04	'03
S. L. Smith	W. F. Parker	W. C. Matthews
O. Scheidler	R. W. Hammond	J. F. Strickler
H. R. Harbeck	H. A. Hart	G. W. Niestadt
V. S. Persons	C. L. Campbell	J. H. S. Mueller
In City	Z. M. Marr	C. J. Brimson
D. C. Dyer	A. D. Smith	E. E. Edgecomb
		R. M. Albright
		G. B. Robinson





Drawn by M. D. Aleshire

The Photographical Society

The Photographical Society of the Armour Institute of Technology is an organization of students of both the College and the Academy for the promotion of the photographic art among its members. The home of the Society is at 3348 Armour Avenue, where may be found an equipment for study in special lines which has no superior in the city. Some of the features of this equipment are: A commodious dark room, an electric negative drier, a large locker room, a full outfit for the study of Flash Photography, a large copying camera, and also large assembly rooms where demonstrations are made, and talks are given from time to time by practical photographers on practical photographic work.

The society holds an annual exhibit of the work of its members in the halls of the Institute and has been very successful both from the artistic and technical standpoints.

The Society has the hearty support of the Faculty to whom it is indebted for many favors. There is no reason why the Photographical Society, with even very ordinary support from the student body, should not be the strongest social and instructive organization at the Institute.

OFFICERS

PROF. L. S. WILLIAMS,* Pres. S. E. SHAFER, Vice-President
R. E. WILLIAMS, Secretary G. B. STEVENS, Treasurer
JAMES O. MULVEY, Custodian

MEMBERS

C. V. Axen, '01	W. D. Marshall	Mr. Stillman
William Bear	James O. Mulvey	Mr. Strang, '04
M. W. Briggs, '02	Earl Merry '03	Jacob Weil, '04
A. J. Drummond	R. G. Reiniger, '02	R. D. Willets, '01 A.
Mr. Hamilton, '04	S. E. Shafer, '02	Prof L. S. Williams
R. J. Lessler, '01 A.	Mr. Slimmer, '01 A.	R. E. Willims, '04
A. H. Lewis, '04	D. Sinclair, '01 A.	Prof. McClement
E. Lundgren, '04	G. B. Stevens, '03	R. A. Malcolm '01 A.

*Deceased



Drawn by W. B. Johnstone

Technical Society

OFFICERS AND MEMBERS

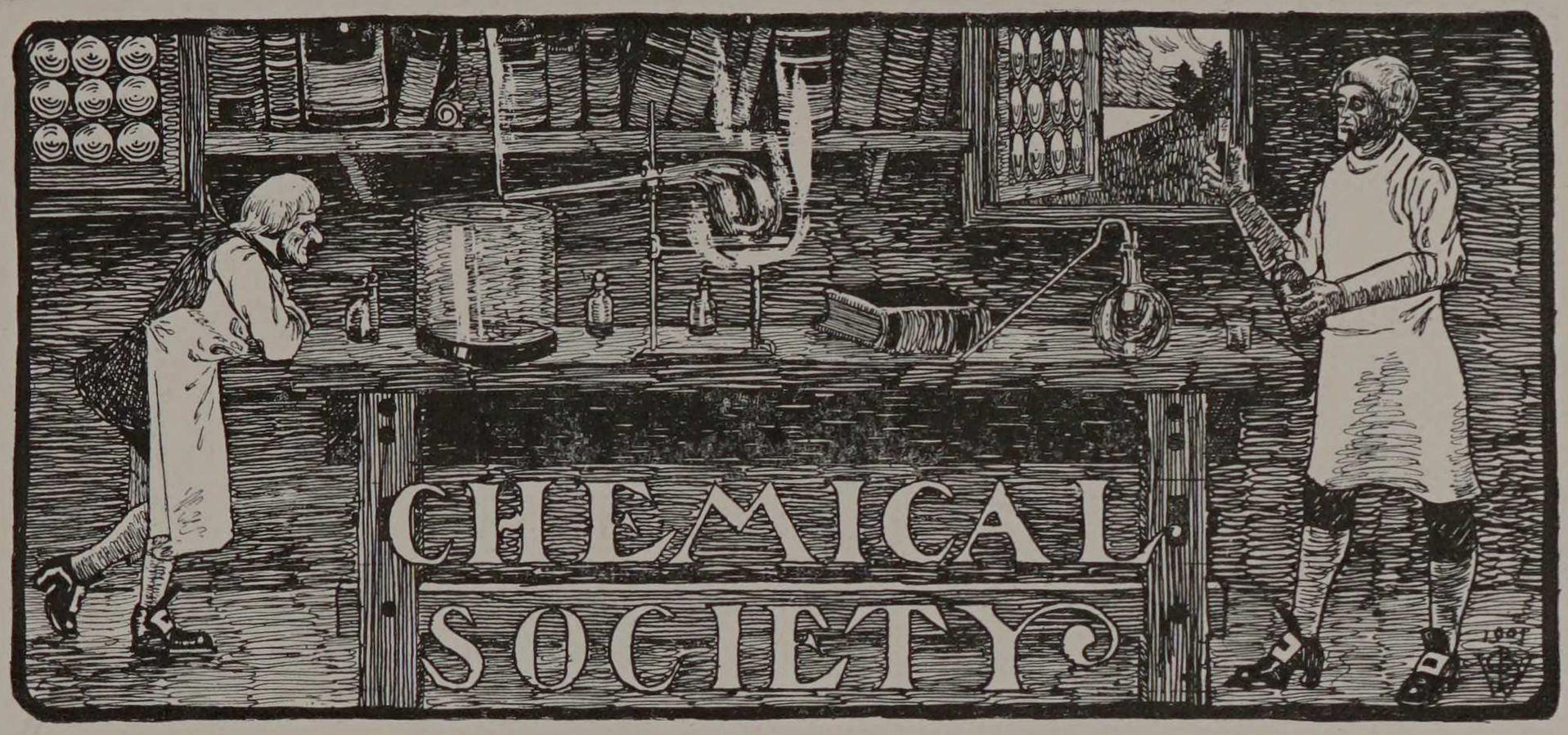
W. W. Felt, President

C. C. Sampson, Secretary — H. P. Miller, Tresurer

S. L. Smith, Critic — G. Pierce, First Vice-Pres.

J. R. Armstrong
M. F. Baird
F. H. Bernhard
L. Cohen
W. H. Dean
T. S. Ellett
W. W. Felt
H. R. Harbeck
H. L. Hamilton
E. J. Hiller
H. J. Hanson
A. C. Joslyn
E. Merry
H. P. Miller
B. N. Postlethwaite
W. C. Phillips
S. L. Queen
H. B. Rawson
R. S. Reiniger
C. C. Sampson
S. L. Smith
H. Stillson
W. S. Taussig
J. E. Weeks
J. Weil
H. Zuckerman





The course in General Chemistry seeks to train the student in scientific habits of thought and work, and give him a knowledge of a considerable number of the facts and laws of the science. The work is so designed as to furnish a somewhat complete outline of descriptive chemistry, and at the same time furnish a foundation for a further study of the subject.

Engineering students take a course in qualitative and quantitative analysis, and then apply analytical methods to the valuation of fuels, oils, alloys, and gases, and to such problems as combustion and boiler feed water.

The course in Chemical Engineering offers in analytical chemistry—blow-piping and assaying, mineral analysis and the chemistry of iron and steel; as a training for manufacturing chemistry—inorganic and organic preparations; a two years' study of the application of chemistry to industrial processes; water analysis and the treatment and disposal of sewage; the most important metallurgical processes, and the chemical generation and utilization of electrical currents.

To conclude, it may be well to say that, in consideration of the interesting and complicated problems to be considered, many of which are beyond the scope of the ordinary curriculum, the Chemical Society has lately been formed.

Prof. W. T. McClement.
Assist-Prof. R. W. P. Noble.

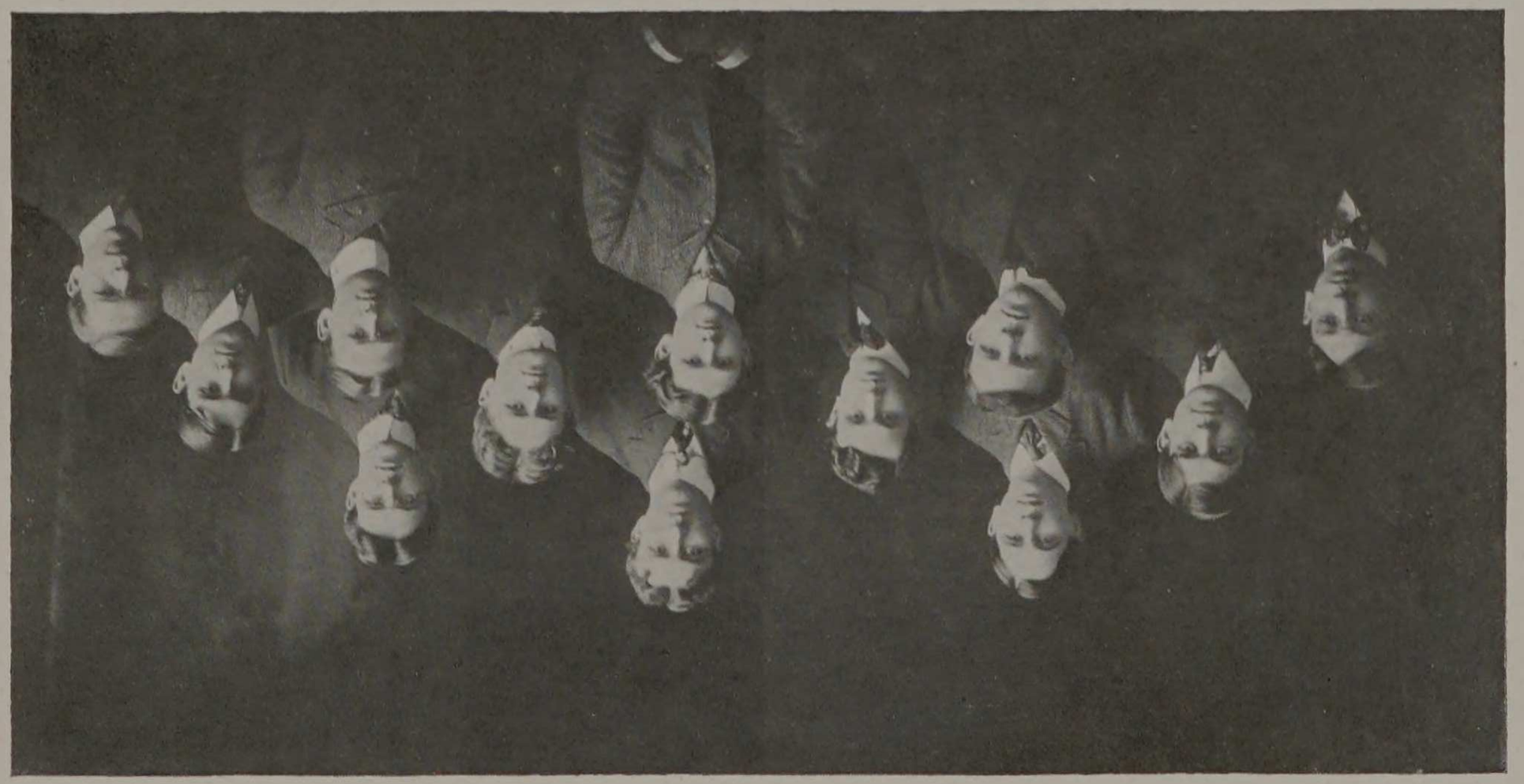


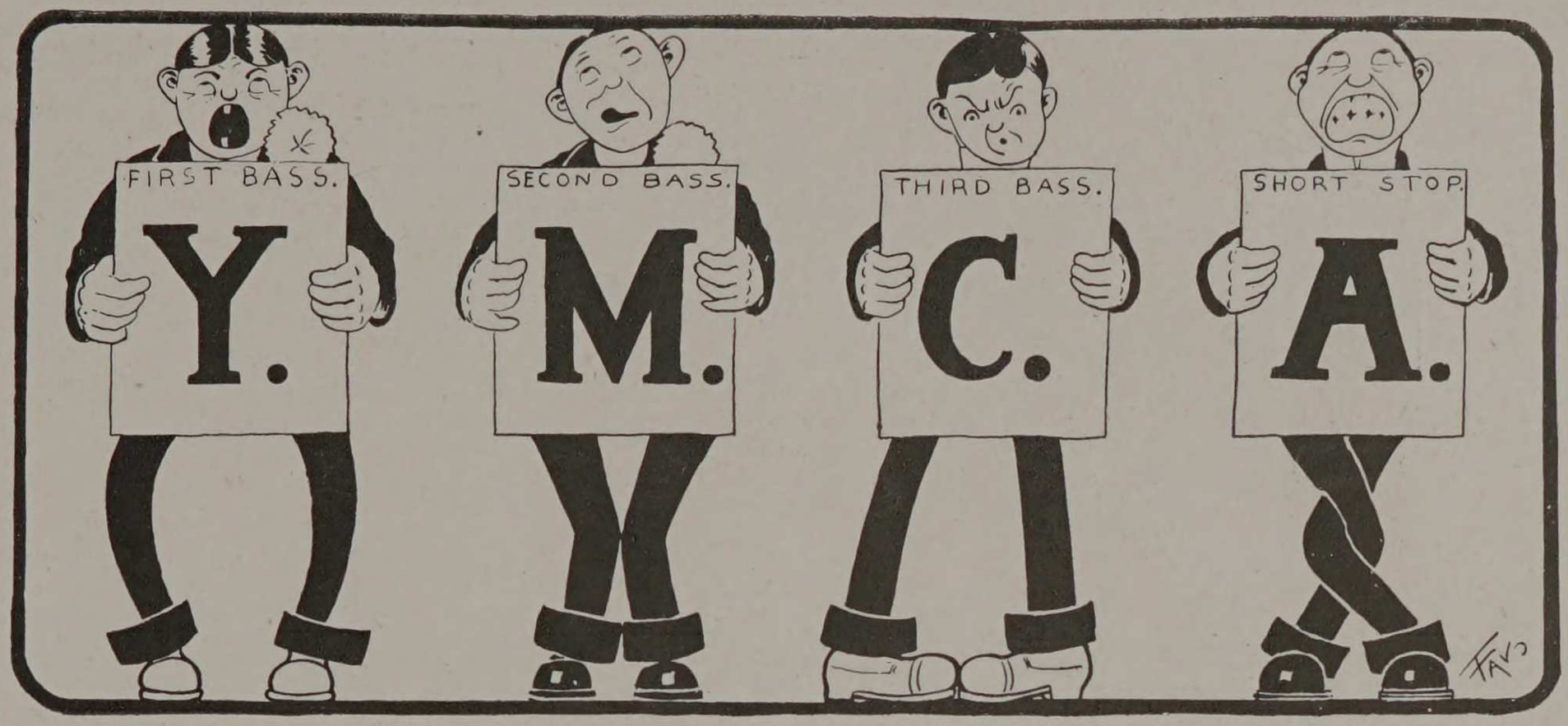
Radical Club

A prominent feature of every large college in the country is its social, class organizations. While our school connot be classed among the largest in the country, still there is no reason why we should not have our own class societies and good times. Having this idea in mind, a group of thirteen Freshmen organized the Radical Club, having for its object the entertainment of its members in every way.

It is the intention of the founders to perpetuate the club by taking in thirteen members from each incoming class. Meetings are held at least twice a month. They have as their motto: "Eat, drink and be merry, for to-morrow ye study."

The members are: Davis, McArthur, Byrne, Crawford, Frary, Hoops, Benedict, Wilson, Hiller, Indermille, Zuckerman, A. Lewis and Jens.





This Association, although organized only a year ago, has demonstrated by its growth and helpfulness that it is to be a permanent organization. The Armour Association is closely allied to the Central Y. M. C. A. of Chicago, and members of the College Association. Religious meetings are held weekly and have more than doubled in interest and attendance since the beginning. There is also offered to the students an excellent course in bible study which has been found exceedingly helpful. Every student interested in Christian work should avail himself of the advantages of the Association and the fellowship of its members.

A Reception Committee will meet students at the opening of each term to aid new students in selecting rooms and boarding houses. Students will also be furnished with the annual Y. M. C. A. Hand Book of useful information about the Association College and city. Direct inquiries to the President.

OFFICERS TO MARCH, 1901

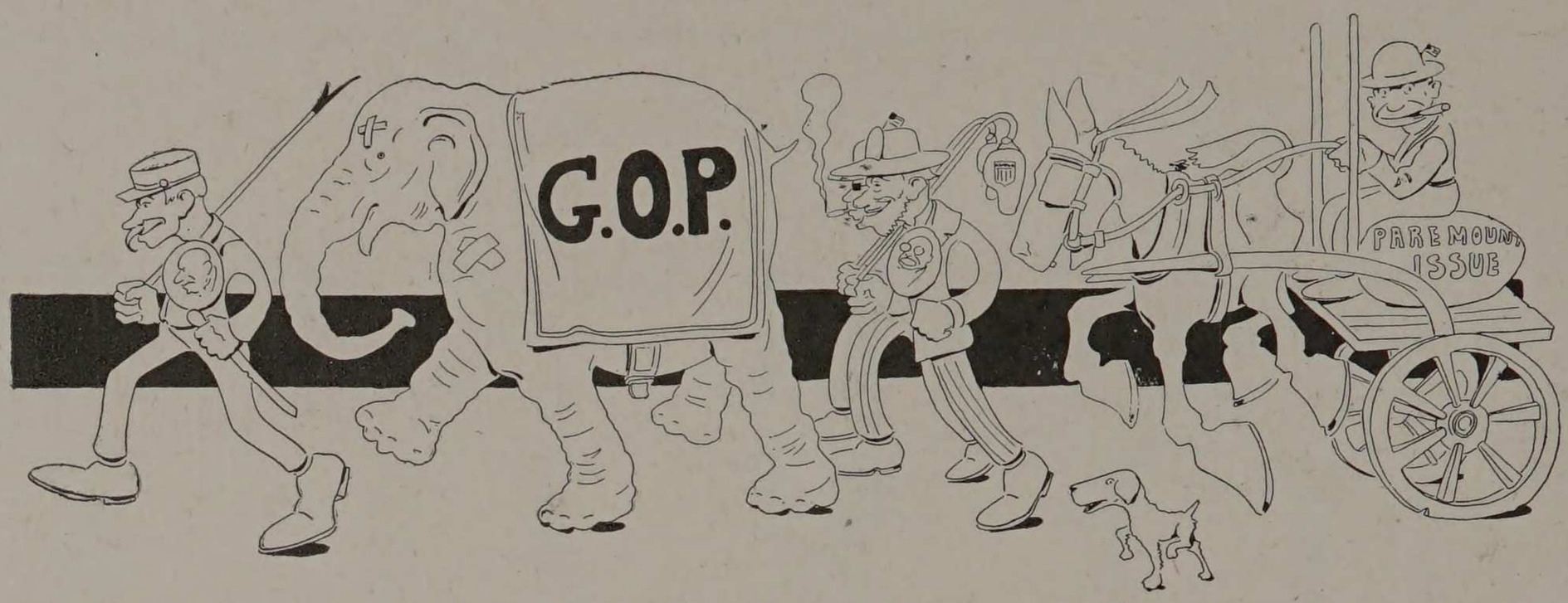
J. S. STRICKLER, President — E. EDGECOMB, Sec'y & Treas.

OFFICERS TO MARCH, 1902

F. V. BATTEY, President — RALPH GRAY, Sec'y & Treas.

"The work of our branch of the Association is to show students that the Christian is the man who stands for honor, generosity, cleanliness and manliness in every line of life. These are the ideas brought to our men just at the time of life when they are most receptive; when science, logic and metaphysics have perhaps shaken their faith in the dogmas of childhood. Such work is eminently worth doing."

WILLIAM MCCLEMENT,
Prof. of Chem. A. I. T.



The Armour Republican Club

OFFICERS

G. B. ROBINSON, Pres. T. S. ELLETT, Vice-Pres.

W. C. MATTHEWS, Secretary and Treasurer

C. McL. MOSS, Wearer of the White Hat

H. P. MILLER, Bearer of the Sacred Portrait

THE DRUM CORPS

Fife

R. G. Reiniger

Drums

R. B. Harris R. M. Albright M. F. Baird

Club Colors

Same as Cuba

Badge

Yellow Ham Rampant on cake of White Soap

Song

Beer ! Beer ! Glorious Beer !
Pour it out into a tub
For we can drink gallons
With jolly good cheer
We are the Armour
Republican Club.

The Armour Republican Club

Membership Roll

Everybody but "Aldie" and Judson

Well, you should have seen them. The whole blooming works turned out to march for old High Tariff Mack, and it was a hot gang.

First came our huge President with a yellow ham, large enough to feed the crowd. Then came the band wagon with our poor, hungry-looking Seniors, who were too near starved to death to stand the strain of walking round the block.

Then came the Drum Corps, who kept good time as a rule, but occasionally forgot to pound, when a good specimen of Chicago beauty was in sight. Then came the gang. Such a pandemonium of noise as was continually "wafted upon the bowling Autumn breeze," from this crowd, has not been heard since Mark Anthony was bitten on the nose by Cleopatra's pet parrot. Well, we marched a few thousand miles and there turned into a bean-house for a Chop Suey sandwich.

This was the end of the great parade. We are sure that the sight of our red hats and broad smiles and our dusty shoes served to convince many a hard-hearted "Demmy" of the evil of his ways. Well, anyway Mack was elected, and we all turned out to hear about it on election night. And we certainly owned the town, and we didn't get "pinched" either.

Long live the Armour Republican Club and its big leader!



DRAMATIC CLUB



THE FLIRT AND THE FRANCHISE.

King Haldermain the 43rd, of Myconia	Rochlitz
Lord Ehrenstraggle of Englewood	Swift
Count Imrai Von Stubbs	Albright
General Clausenburg	Reiniger
Maggio Runi, the Court Fool	Robinson
H. P. Chansasruba, an Anarchist	Crawford
Princess Maybelle	Brown
Countess Ziska	Lindberg
Maybell's Voice	Hammond
Edythe	Sackett
Mawde	Lowenthal

Courtiers, ladies, soldiers, servants, supes, etc., etc.

Such was the cast of the first dramatic entertainment ever held at Armour Institute of Technology; under the auspices of twe Glee and Mandolin Clubs and the Academy Athletic association. It was given and not repeated.

Comment is rather out of place, for to those who did not see the play all accounts must be inadequate, and to those who did, superfluous. Suffice it to say that anyone who has seen with his own eyes the plotting of Swift and Reiniger, the beauty of Brown, the coquetries of Lindberg, and the cold disdain of Rochlitz's manner; who has heard Robinson, the sweet singer of the Wabash, deliver his touching ballads, and Albright propose to every girl in sight in his most winning, impassioned style, surely life holds no more for him.

For the production itself, the stage settings were perfect; the campus scene was particularly effective in spite of the fact that, owing to laziness on the part of the curtain, the moon was obliged to set very suddenly and by jerks before it cou d be seen by the audience.

The orchestra was under the direction of one Benedict, whose reputation is world-wide—we understand. At all events the organization was a credit to him, and augmented the pleasure of the event many times. The make-up was as follows:

ALLAN B. BENEDICT, Leader

SIDNEY JAMES, First Violin	R. L. SLIMMER, Cornet
VINCENT NORTON, First Violin	CHARLES W. PIERCE, Flute
I. D. MILLER, Second Violin	E. J. MULLOY, Trombone
J. P. BURNEY, Second Violin	LOUIS J. BYRNE, Piano
EDWIN J. HILLER, Cello	MANLEY F. BAIRD, Drums

Of this brilliant aggregation of musicians, many of whom are stars themselves, one, the most prominent was "Edwin," our talented celloist. His sympathetic playing easily won for him and his associates the cheers and applause of the enthusiastic audience.

But in speaking of one accomplished member we must not forget to put in a word for Louis Byrne and Sidney James, a combination which has at various times shown itself to be worthy of much commendation. As we have not time to mention each one individually, let it suffice to say that owing to the earnest efforts of all concerned, the orchestra did its part very creditably, and the managers desire to extend their thanks to those gentlemen not in the school who so generously gave up their time to assist in this production. We refer to Mr. Vincent Norton and Mr. E. M. Mulloy. We also extend our thanks to Mrs. James, who so kindly extended the courtesies of her home to us for practice hours.



'02 One-Year Society

In existence from November 3rd, 1899, to November 3rd, 1900

Motto: "Tempus inter bibos longum." Colors; Claret and Amber

Courier Plenipotentiary and Box-office Jollier Extraordinary
Francis J. Field

Custodian of Keg and Bailiff of Bottles — Edward T. Harwood
Keeper of the Bung Borer — Ernest W. Wallace
Knight of the Pop Bottle — Roy M. Henderson
Supervisor General of Safe Return Home — Harry R. Harbeck
Faculty Representative — Albert E. Smith

Most Efficient Members

Manly F. Baird	Elijah S. Lewis	George Reiniger, Jr.
Marion W. Briggs	E. W. Lilienfeld	Fred Larkin
M. W. Fairweather	Harry P. Miller	Oscar Scheidler
Roscoe Harris	Charles McL. Moss	Johnnie E. Week

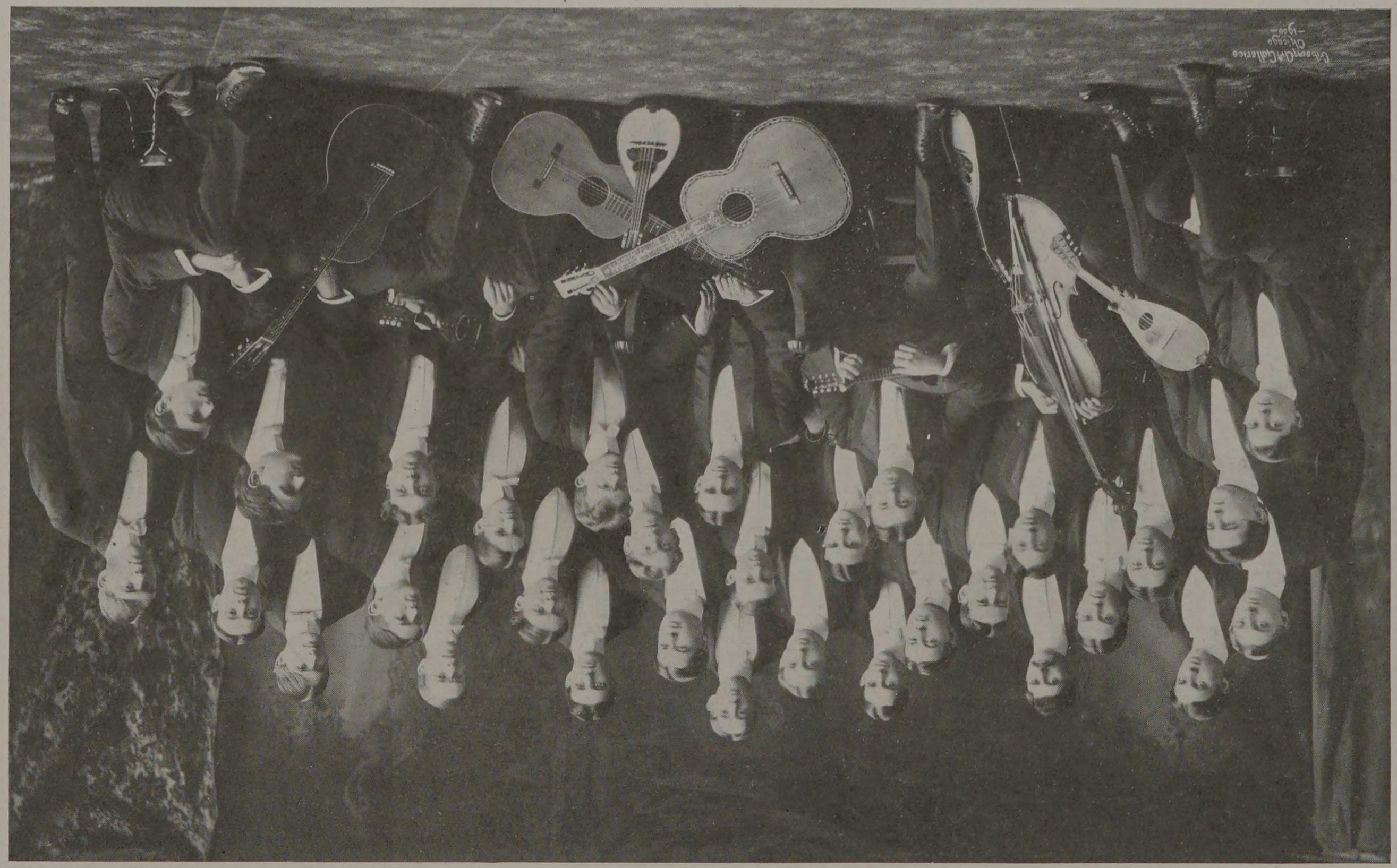
The T. T. T. Club was an organization which had for its object scientific research and occasional social relaxation. Frequent inspection visits were made and many lectures were given by prominent members of the bar.



Drawn by W. C. Barbour



Drawn by Emil Babka



Glee and Mandolin Clubs

Looking back over the closing school year, we pause now and then to give a thought to the various happenings of the year. Dances and smokers and an occasional rough-house are reviewed with pleasure but soon dismissed. Soon, however, the reminder of happy days spent with clubs come before us, and we then point with pride to our peerless musical organization. Without a doubt this is the most powerful organization in the whole Institute. Its popularity is shown by the attendance of the whole student body and their families twice yearly to enjoy a musical concert of merit rendered by a body of students. The clubs have undoubtedly made an enviable record for themselves in Chicago's social circles. Appearing before several social clubs the boys have responded time and again to repeated encores. Prominent among these successes stands Hammond, the soloist, who, in singing, "The Change Will do you Good," forgot and swore in the wrong place much to the discomfort of Robinson. The present management strayed somewhat from the usual program of events in that a comedy sketch was given in the place of the annual fall concert. To say that it was a complete success is putting it mildly for never before in the school history has such a large and select audience gathered to see and hear the boys. Much credit is due the leaders of the clubs, Messrs, Scheidler and Taussig, who have worked hard and faithfully. We hope the next year's club will continue in the good work; not forgetting that there is always room for improvement.

The make-up of the Glee Club is this: Fred G. Larkin, Manager; W. S. Taussig, Leader; G. B. Robinson, R. G. Reiniger, R. M. Albright, R. M. Harris, J. H. Strickler, J. D. Brooke, R. W. Hammond, M. F. Baird, W. I. Lewis, W. R. Ruegnitz, L. R. Levings, E. M. Lilienfeld, C. A. Gray, M. C. Weisskopf and C. V. Bear.

The Integral
1 9 0 1

Charles McLean Moss
Editor

Harry R. Harbeck
Assistant

Robert G. Reiniger
Assistant

Thomas S. Ellett
Business Manager

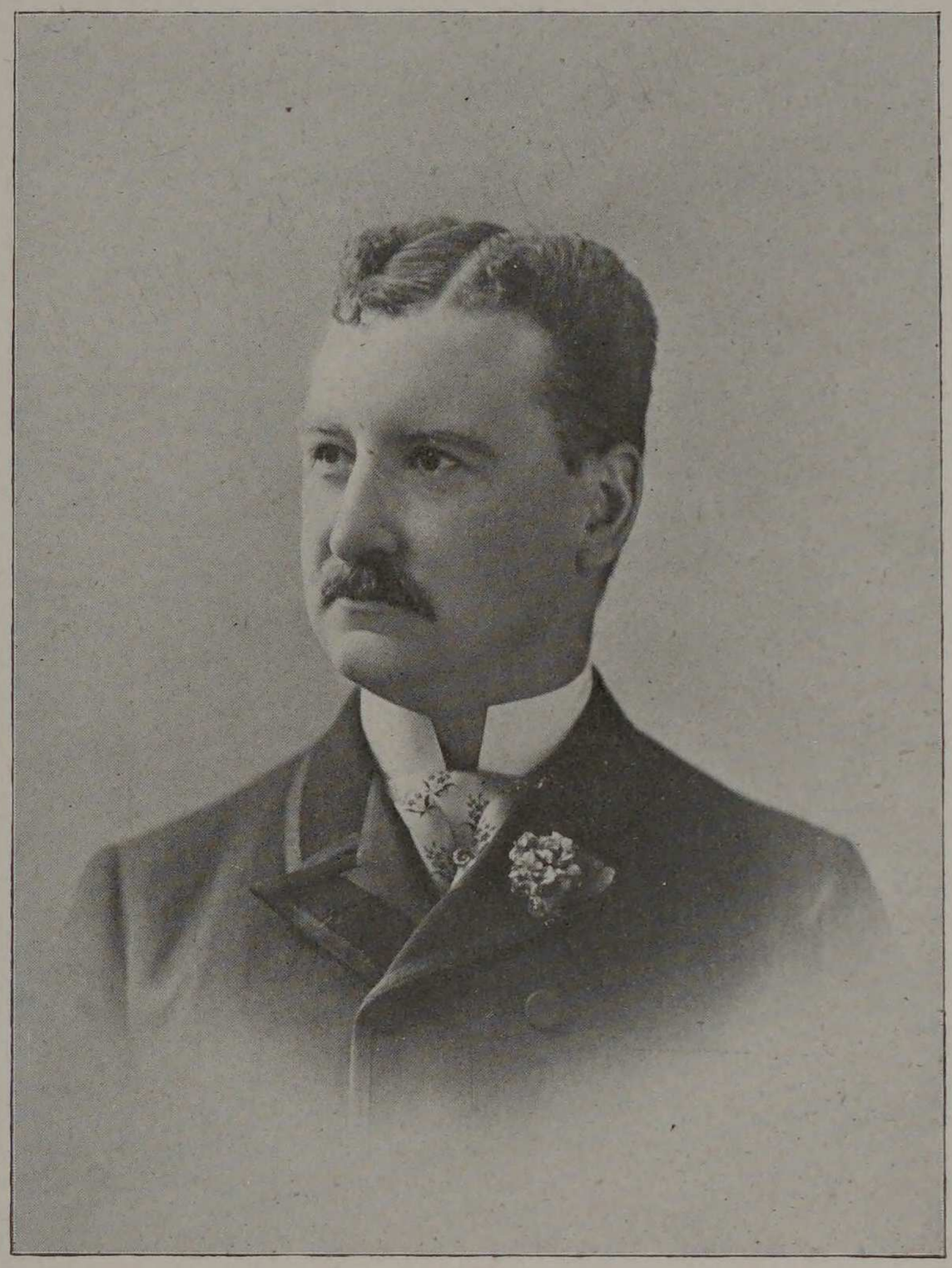
William H. Lang
Assistant

W. W. Felt
Assistant



Mr. D. J. Simpson

Under Mr. Simpson's supervision the present buildings of the Mission and of the Institute were erected. During the construction of the old building, Mr. Simpson was frequently on the ground, and the erection of the new shops and laboratories will again place him in close touch with Institute affairs. We, of the Integral Board, desire to express a tithe of our thankfulness to him, and acknowledge here his kind assistance and encouragement to the management of the INTEGRAL of 1901.



Mr. F. U. Smith

The students of Armour Institute of Technology have found in Mr. F. U. Smith, Secretary of the Board of Trustees, one who is ever ready and willing to forward all student enterprises. He has taken an active and prominent interest in the INTEGRAL, the Athletic Association, the Glee Clubs and all other student organizations. Mr. Smith is a member of the new Advisory Athletic Board, and it is due in large measure to his encouragement that the present athletic policy was adopted.



Drawn by C. H. Wilson

The Fulcrum

Published every month by the students of Armour Institute of Technology 33rd Street and Armour Ave., Chicago. Subscription, 75 cts. per year in advance.

Ralph Mills Albright
Editor-in-Chief

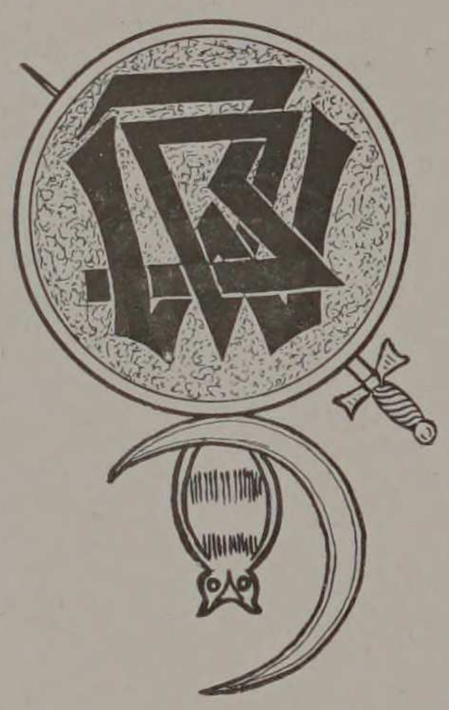
Ellis Clark Soper
Literary Editor

W. C. Matthews
Social Editor

Arthur H. Wagner
Athletics

Will H. Dunlap
Business Manager

John F. Strickler
Asst. Business Manager



Delta Chapter of the Mu Delta Sigma Fraternity

ESTABLISHED 1898.

Fratres in Universitate

William H. Lang
Oscar A. Scheidler
Harry R. Harbeck
James A. Crawford
William C. Phillips
George S. Robinson
Melville S. Flinn
Arthur M. Jens

Fratres in Urbe

Chason W. Brooks
Ralph P. Harlan
Frank C. Huesner
Morton H. Eddy
Eugene C. Johnson
Clarence J. Mayer
Howard H. Hess
Charles T. Young
Donald E. Willard
Edward A. Walter
Albert Crane
George McGavic

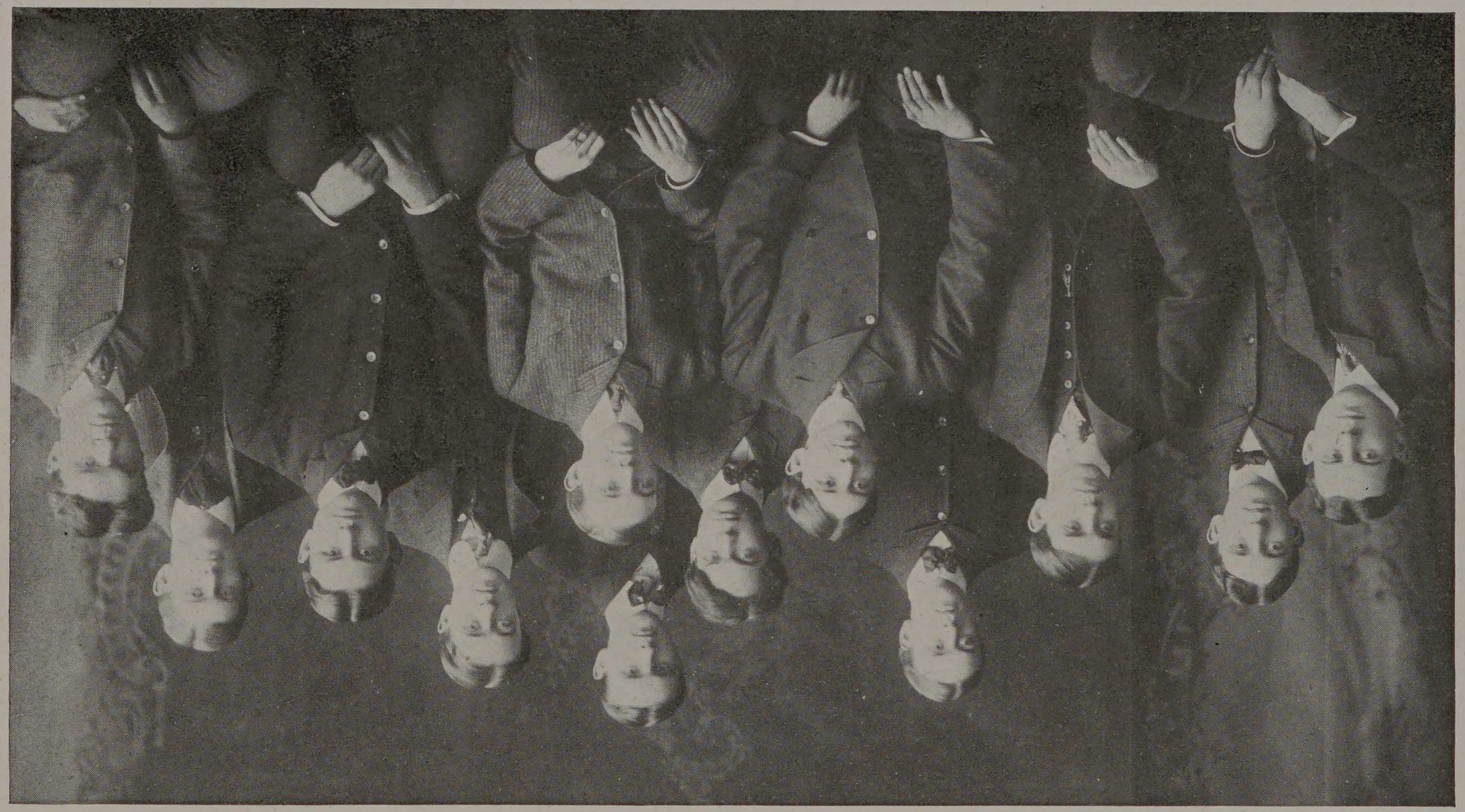
Active Members

1901

Charles Henry Hermann
Clarence Sawyer Dexter
Edward Arthur Walter
Harley Minard Beers
Bertram Oliver Buchanan
Leslie Minor Beers
Charles James Fitzpatrick
Anthony Edward Seyl
Roy Alexander Malcolm
Charles Louis Freeman

1902

George Newell Crawford
Hugo Louis Goetz
Robert Ogden Walker




ΟΚΠ

Omicron Kappa Pi

Founded 1893

CHICAGO ACADEMY

Chapter Roll

Gamma—Lewis Institute
Delta—Armour Academy
Epsilon—South Side Academy
Zeta—Milwaukee Academy
Eta—Milwaukee West Side High School
Theta—Milwaukee East Side High School
Iota—New York State Normal School, Prep. Dept.
Kappi—Potsdam School of Technology, Prep. Dept., N. Y.
Lambda—Lake Forest Academy
Mu—Clark's Classical School, Pasadena, California
Eta Pi—Hyde Park High School
Delta Omega Chi—Cambridge High and Latin School, Cambridge, Massachusetts

NEW CHAPTERS

THROOP INSTITUTE, Passadena, California.
LA GRANGE, Illinois HACKLEIGH HALL, N. Y.

Delta Chapter

Established 1897

Fratres in Urbe

A. L. Hopkins	A. C. McArthur	D. W. Hopkins
L. H. Vaughn	W. D. Ringland	J. R. Bartlett
W. C. Matthews	Jno. F. Oglevee	Horace Hinds
R. A. McNally	Charles G. Vaughn*	Frank A. Coy
D. Earl Nichols	E. P. Whitaker	Paul Wesley Arndt
W. C. Wilson	*Deceased	Harry Anderson

Fratres in Academia

Clifford C. Cole	Henry D. Johnson	Ray D. Willets
C. Donald Dallas	H. Kendall Carter	Conrad Seipp
Chas. M. Raley	Lewis A. Delano	Ruluff Slimmer
Archie G. Rockwell	John J. McDonald	S. M. Earling





Beta Pi Sigma Fraternity

The honor of having an Alpha Chapter was bestowed upon Armour Scientific Academy when a few young fellows clubbed together and formed what is known as the Beta Pi Sigma Fraternity. The colors which have been adopted are crimson and gold.

The charter members are:

E. Heilprin
E. P. Goldsmith
C. Kennicot
C. Lewald
M. J. Silberberg

The initiates are:

L. R. Levings
S. D. Levings



Drawn by W. C. Barbour

Sigma Delta Sorority

ALPHA CHAPTER

Colors

Dark Red

ALUMNÆ

Marian Clarke
Clara Eisendrath
Beatrice Hirsch
Marie McEvoy
Viola Stern

SORORES IN ACADEMIA

Clara Falter
Mildred Hartman
Jennie Hodge
Louise Keuthan
Ethel Miller*
Hortense Miller
Edna Simpson
Sylvia Weinberg
Bernice Wertheimer
Gertrude Wilson
Mary Wright

*Died June 5, 1900



Sigma Kappa Sorority

The Sigma Kappa Sorority was organized in October, 1900. The colors chosen were green and black.

The members are:

Misses E. R. Adams
E. B. Hirsch
G. E. Mayer
A. J. Frank
L. R. Boyer
A. Baker
C. Schram
A. Wormser

Alpha Delta Sigma

Alpha Chapter

Colors—Purple and Gold

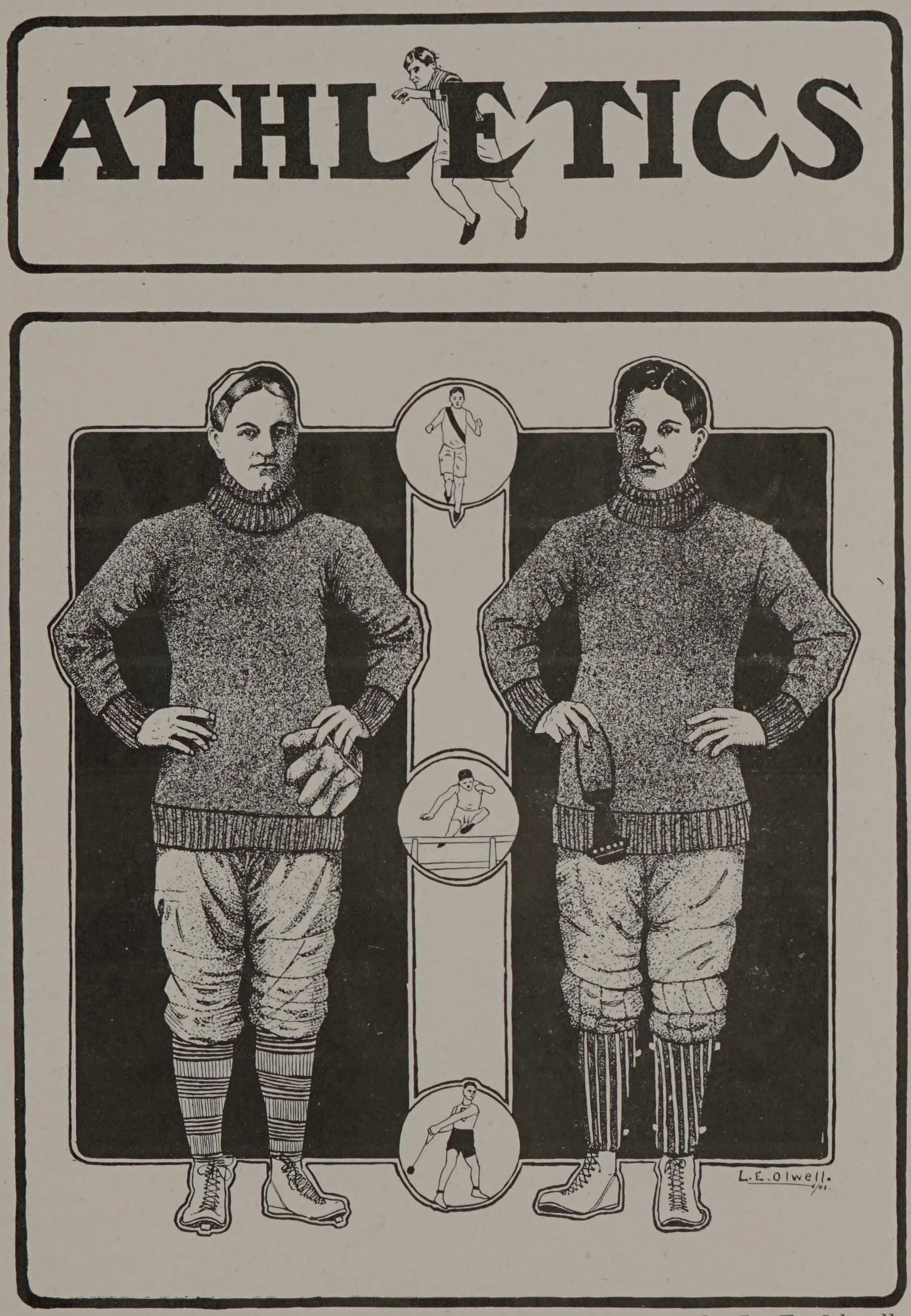
Alumni:

Mary Gunsaulus
Sylvia Goodman
Jessie Nichols

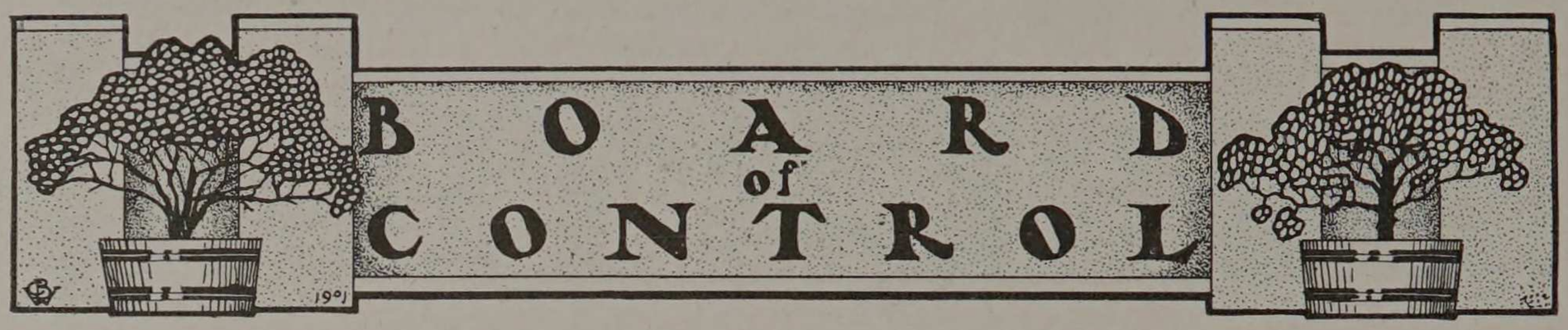
Sorores in Academia:

Florence Brown
Wilma Cox
Gertrude Eldridge
Katrina Fairlee
Ethel Hoops
Florence Mandel
Alice McLennan





Drawn by L. E. Olwell



The Board of Control, comprising in its membership a larger representation than could promptly transact the athletic affairs of the Institute, dissolved to make way for an advisory board.

W. R. Ruegnitz, President

W. T. McClement, Treasurer

W. R. Ruegnitz, Tennis Mgr.

T. S. Ellett, Water Polo Capt.

A. C. Noble, Tennis Captain

W. E. Miller, Basket Ball Capt.

G. W. Niestadt, Base Ball Capt.

W. I. Lewis, Basket Ball Mgr.

W. C. Phillips, Base Ball Mgr.

G. B. Robinson, '03
O. A. Rochlitz, '01
L. J. Byrne

H. P. Miller, '02
A. M. Jens, '04
S. B. Sherman

M. F. Baird



Report of the Chairman of the Students' Athletic Board

In order to provide funds for the support of the teams that were represented in the College and Academy Boards of Control, a movement was started by Prof. McClement and T. S. Ellett to find a means to get the student body, the faculty and the former students of Armour Institute of Technology to contribute a fund sufficient to meet the needs of the teams represented in the boards of control. It was desired that the fund be collected in such a manner as to do away with the old method of collecting money from the students in the halls and especially to prevent the sending of dunning letters to our friends on the outside.

Acting along these lines, Prof. McClement addressed letters to the managers of athletics at the leading universities. In response letters were received giving an outline of the policies at Yale, Columbia, Michigan, etc. The reply from Yale seemed to best meet our needs.

The information secured, it was decided to place the matter before the students in a general mass meeting, and permission was secured from the dean to hold a meeting in Science Hall where Prof. Alderson called the meeting to order and a motion to elect T. S. Ellett chairman, was carried. Those students that were most interested in the movement were called upon to address the meeting, including the captains and managers of the athletic teams.

It was moved to adopt the following resolution:

Resolved, That the chairman appoint a committee of three, of which he shall be a member, to submit to the students at another meeting recommendations as to

(1) The amount of fees to be collected.

(2) Manner of collecting the fee.

(3) Formation of an advisory board and a constitution to govern the action of such a board.

The committee was advised to secure through the aid of a member of the board of trustees and a member of the faculty, the co-operation of the trustees and faculty.

The meeting adjourned to be called later to act upon the report of the committee to be appointed by the chairman.

Action of the Committee

The committee appointed was as follows:

T. S. Ellett, Chairman
F. H. Bernhard, A. I. T.
Leo Wormser, A. S. A.

Mr. F. U. Smith, being consulted, strongly favored the measures taken to place athletics upon a firm basis and promised the committee his active support.

Prof. McClement forwarded the movement in every possible manner.

The captains and managers of the athletic teams met at the Institute, and from the reports and outlines submitted, it was estimated that a fee of one dollar, paid each registration day, would meet the most pressing needs of the teams.

The committee, having received this information and encouragement, a second mass meeting was called by the chairman to report upon the progress of the committee.

The following report was read by Mr. Leo Wormser:

Recommended that a fee of one dollar be paid at the beginning of each regular term by those members of the

Faculty, Alumni and Student body who wish to become members of the Athletic Association. Said fee to be paid to the Registrar at the Registrar's office.

It was further recommended that as those members who had paid their fee should decide upon the disposition of the same; that the Constitution should be submitted at a meeting to be called after the registration for the spring term had closed, and further, that only those members who had on or before April 10th paid their fees should vote to accept the report of the committee or to amend the same to meet the approval of the Athletic Association.

The report was accepted. Meeting adjourned.

An explanatory card was mailed to the Alumni and distributed to the students by Prof. Alderson and Prof. Raymond; in addition it was placed upon the table in the hall; 228 members deposited their fees at the Registrar's office.

T. S. ELLETT

New Athletic Board

The students forming the new athletic association assembled in Science Hall and elected the following as the officers of the advisory board:

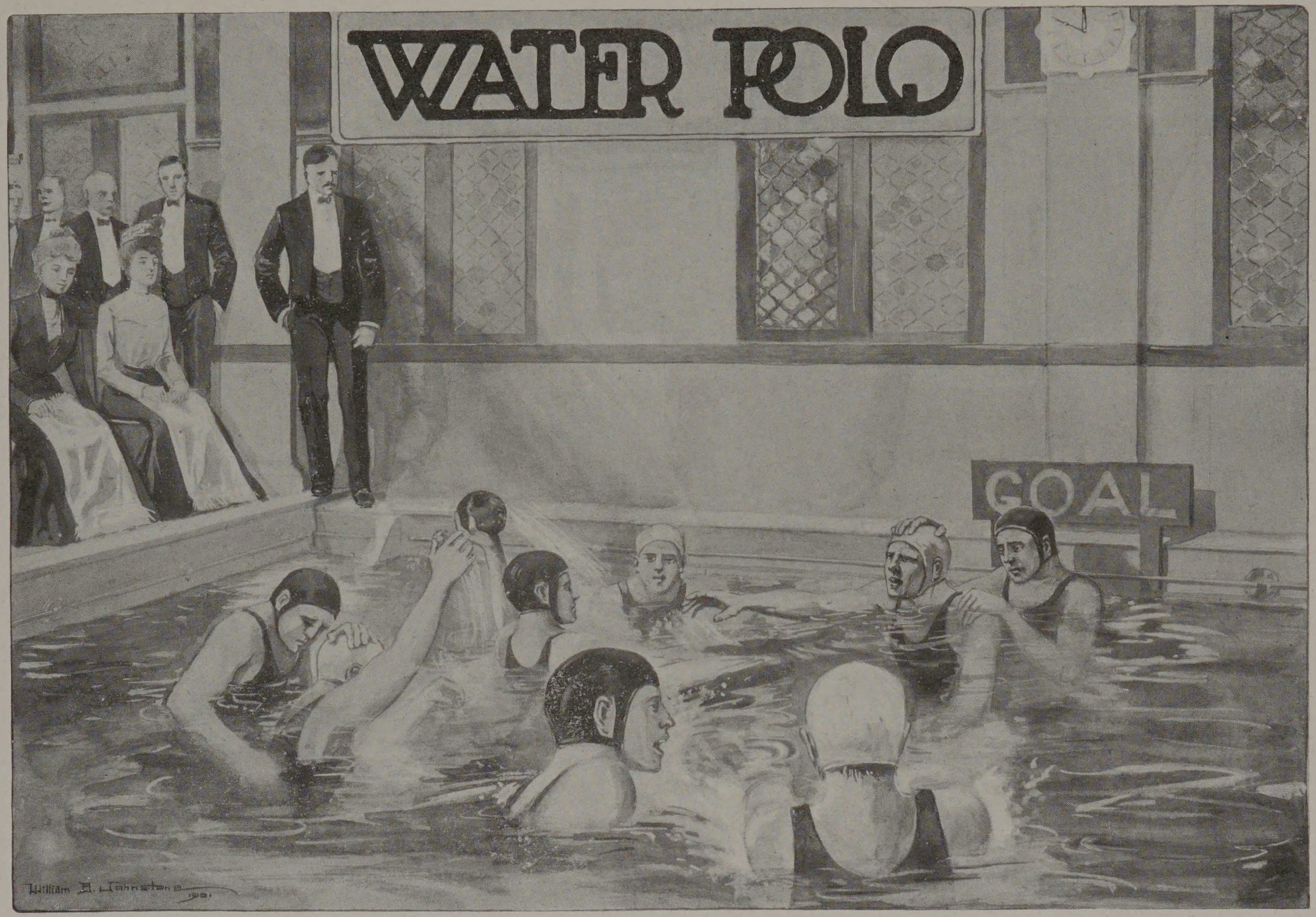
C. Dallas

F. U. Smith
H. M. Raymond
L. J. Byrne
W. T. McClement
A. M. Jens
C. H. Hermann

The old board of control in the Academy and College in its old form was too large to transact the affairs promptly and contained members not as active as they should have been, but it is to be regretted that they ceased to exist upon the advent of the new board. They should continue to encourage and promote athletics under the guidance of the Advisory Board.

The selection of the board is a happy one, Mr. F. U. Smith and Prof. McClement being the foremost in forwarding the interests of the movement. Prof. Raymond has the complete confidence of the Academy.

The student members of the board have been intimately connected with athletics without exception.


WATER POLO
GOAL
William B. Johnston 1901



Water Polo Team

T. S. Ellett, right forward
L. Byrne, right back
H. Goetz, rush
F. Indermille, goal
J. Week, left back
A. Goetz, left forward

SCHEDULE

1901

Armour, 4 *vs.* H. P. H. S., 0
Armour, — *vs.* H. P. H. S.,—
Armour, 3 *vs.* O. P. H. S., 0
Armour, 0 *vs.* O. P. H. S., 0
Armour, 1 *vs.* C. A. A. Jr., 1
Armour, 0 *vs.* C. A. A. Jr., 2
Armour, 2 *vs.* N. Reserves, 0
Armour, 1 *vs.* N. Reserves, 0
Armour, 0 *vs.* C.A.A.,Reg., 0
Armour, 0 *vs.* C.A.A.,Reg., 2
Armour, 1 *vs.* N. R., 0

RELAY RACE

Armour (won) U. of C. Lewis

Water Polo

To Prof. P. Rowland of the C. A. A. belongs the credit of the success of the Armour Institute of Tech. Water Polo Team. The men with few exceptions were green at the game, and Mr. Rowland pronounced them the poorest material to start with that he had ever coached.



The team, by winning every game played except the game against his own team the C. A. A. has shown what an efficient coach can do with the right material.

The season opened this year with Ellett, Week, Byrne and Kampfer of last year's college team, and Lowenthal, and Dallas of the Academy.

Indermille, Jens, A. Goetz, Hugo Goetz and Beers proved to be the best of the new material. Jens' strained knee placed him on the side lines.

He will develop into a star back or goal. Captain Ellett, before the Coliseum series, resigned and the college team disbanded for the rest of the year, leaving a record that excells that of any athletic team that has ever represented Armour.

A. Goetz entered an Academy team in the Colliseum meet and won every game without being scored upon.

A. S. A. Water Polo Team.

*T. S. Ellett, right forward	Dallas, left back
A. Goetz, left forward	H. Beers, Goal
H. Goetz, Rush	R. Lowenthal, substitute
Lowenthal, right back	B. Rosenheim

*Ellett registered in the Academy for this series.

Basket Ball

Walter S. Miller, Capt., r. f.
Edwin S. Libby, l. f.
Arthur M. Jens, l. f.
W. Carlton Ruegnitz, c.
Fred K. Indermille, l. g.
Aaron A. Kock, r. g.
Roy M. Henderson, sub.
John H. Strickler, sub.
W. Irving Lewis, manager
Reynolds, coach

Such was the make-up of the team which by the end of the season had developed into an aggregation that few could withstand. Of last year's regular team, Miller alone remained, the rest of the team having to be trained up out of new, raw material. But at the head of the team was a born organizer, who besides playing a star forward himself all year, finally developed a center, and a pair of guards whose equal it would now be hard to find.

The team was victorious at the Coliseum, and the banners won there hang now in the halls. The outlook for next year is bright, though it will be impossible to find a man who can fill the gap now left at right forward. It is not alone in basket ball that Miller will be missed, for he has been more prominent and intimately connected with athletics than any man who ever went to Armour. Reckoned by all to be the greatest basket ball player in the United States, his ability as a captain and his power to infuse life into a team, make his loss irremediable. He was the strongest foot ball player and one of the best base ball players in the history of the school; was connected with every other branch of athletics more or less continually; was a member of the board of control for four years, and held the strength record of the school, which was also fourth in the country.

Academy Basket Ball Team

C. H. Hermann, Captain	-	Forward
P. H. Loewenthal	-	"
A. Rockwell	-	"
R. Culbertson	-	Center
H. M. Beers	-	"
R. Malcolm	-	Guard
B. H. Sackett, Manager	-	"
R. M. Loewenthal	-	"

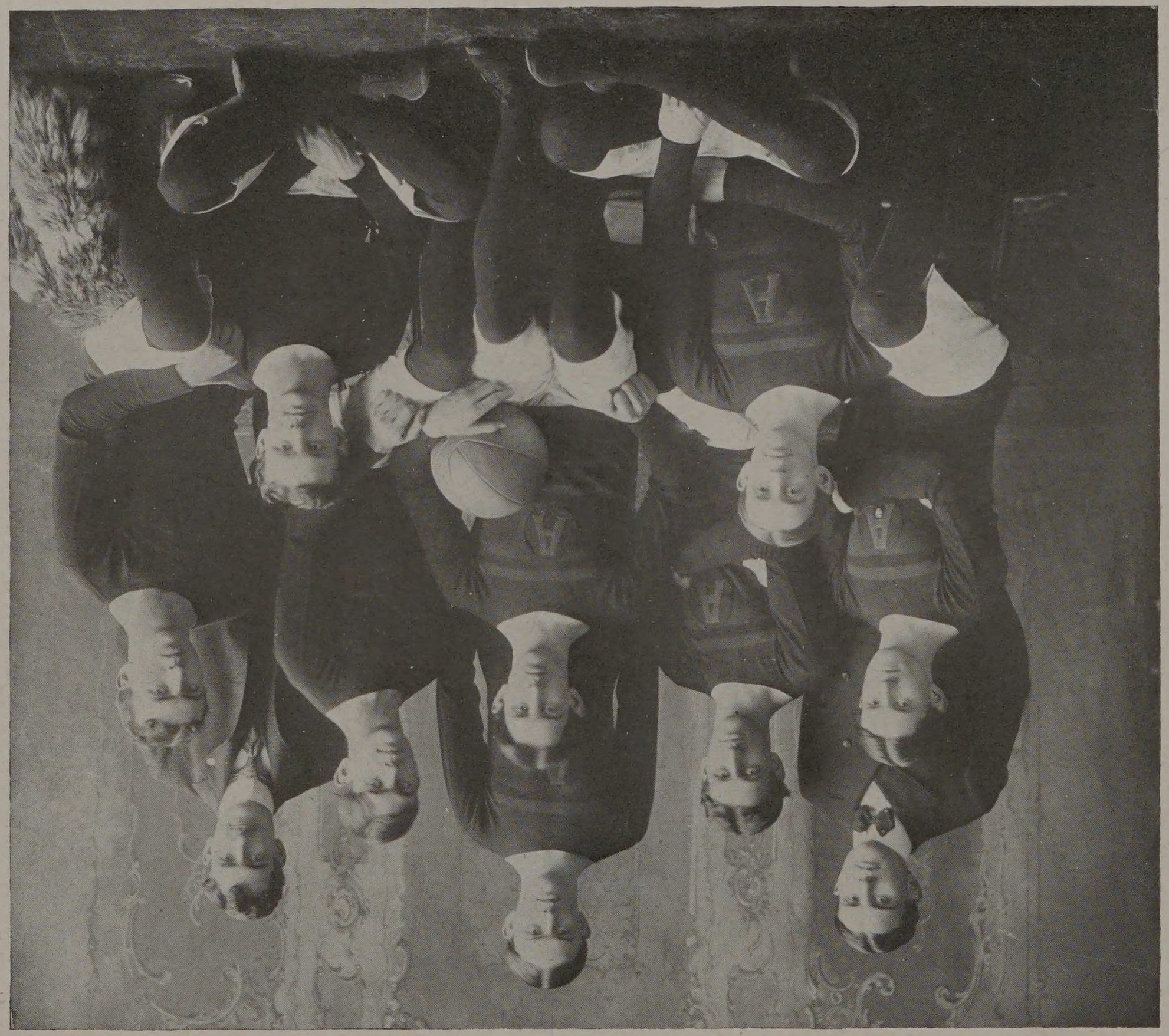
The Academy team has been doing excellent work, although it lost its first two games, owing to lack of practice and coaching. The first game with Elgin High School was lost on their grounds, when Elgin paid off its defeat of the previous year, with the score of 40 to 12, by piling up 26 points to our 12; but we have since wiped out our defeat by a clear-cut victory of 23 to 7.

Our next game was with Hyde Park High School, which defeated us by two points. They promised to give us a return game at the Coliseum; but when both teams were all ready to begin the game, Hyde Park backed out on the plea that there was no banner to play for.

We next met Englewood High School and easily defeated them, the downfall of North and West Division High Schools following in quick succession. We then played the team of Ravenswood Y. M. C. A. (who defeated the team of Yale University by a score of 26 to 12), and met defeat at their hands by a score of 27 to 11 This in itself speaks for the team, and we have the strongest hopes of beating anything in our class, in consequence of which, we have challenged any preparatory school in our State, and with present good condition, we have excellent prospects of winning the State championship.

THE GAMES

Armour Scientific Academy	11	Elgin High School	26
Armour Scientific Academy	11	Hyde Park High School	13
Armour Scientific Academy	9	Armour Technical College	16
Armour Scientific Academy	11	Englewood High School	8
Armour Scientific Academy	17	West Division High School	4
Armour Scientific Academy	23	North Division High School	8
Armour Scientific Academy	11	Ravenswood Y. M. C. A.	27
Armour Scientific Academy	25	La Grange Township	11
Armour Scientific Academy	23	Elgin High School	7
Armour Scientific Academy	8	Lewis Institute	18
Armour Scientific Academy	24	Lewis Institute	12




1901

TENNIS



Drawn by W. B. Johnstone.

Tennis

The Tennis Tournament of last Fall, which was held at the courts of the Kenwood County Club, was one of the most successful in the history of the school. The entry was larger than any previous year, and the standard of play high. Many new players are at school this year, and they are most of them men of considerable skill and experience. Among them may be mentioned Hammond, Watkins and two Samuelsons.

As the book goes to press, our team in the Inter-collegiate, consisting of Messrs. Noble and Hammond, will try conclusions with the representatives of all Western colleges. Mr. Hammond is the new tennis captain, and will select a new representation for next year; this should not be a difficult matter, with all the material in sight. Last year in Mr. Hayden's departure, the school lost a man who was prominently identified with Armour tennis for four years, and this year when Mr. Noble, who has been school champion since '98, leaves, the old guard will be gone, and a new one must be found.

Faculty-Senior Base Ball

On May 24th the fiercest contest of the season took place between the members of the Faculty and those of the Senior class. The final score was 15 to 14 in favor of the Seniors, but that was a mere detail. Brewster was in the box for the Faculty and pitched a fine game, being ably supported by his catcher, Lee. Alexander's game at first was unexcelled, and McClement at third repeatedly drew roars of applause from the thronging multitude. Raymond and Thomas did a few acrobatic stunts in the line of summersaults and hand-springs, and the fielders took good care not to interfere with anything. For the Seniors, Miller pitched well, holding his hard hitting opponents down to five safe drives. The heavy end of the batting order was right there; Pierce, the Texas whirlwind, having his eye on the ball in beautiful style, Noble getting to base every time after the first, when he foolishly supposed that four balls was not three strikes, and Miller who brought in many of the runs. The umpiring was more than remarkable; it was sublime; and it was nothing if not firm. Mr. Smith is of course incorruptible, and Mr. Little is so used to disallowing his tenants' kicks there in the flats, that protests fell on deaf ears. The game finally ended in the Senior's favor, after Brewster was made to realize that he could not bat every other time.

Faculty	Seniors
Lee, catcher	Pierce, center field
Brewster, pitcher	Noble, short stop
Alexander, first base	Miller, pitcher
Raymond, second base	Ruegnitz, left field
Thomas, short stop	Rochlitz, catcher
McClement, third base	Swift, first base
Dickinson, right field	Lindberg, second base
Hurd, center field	Lewis, third base
Freeman, left field	Baker, right fied

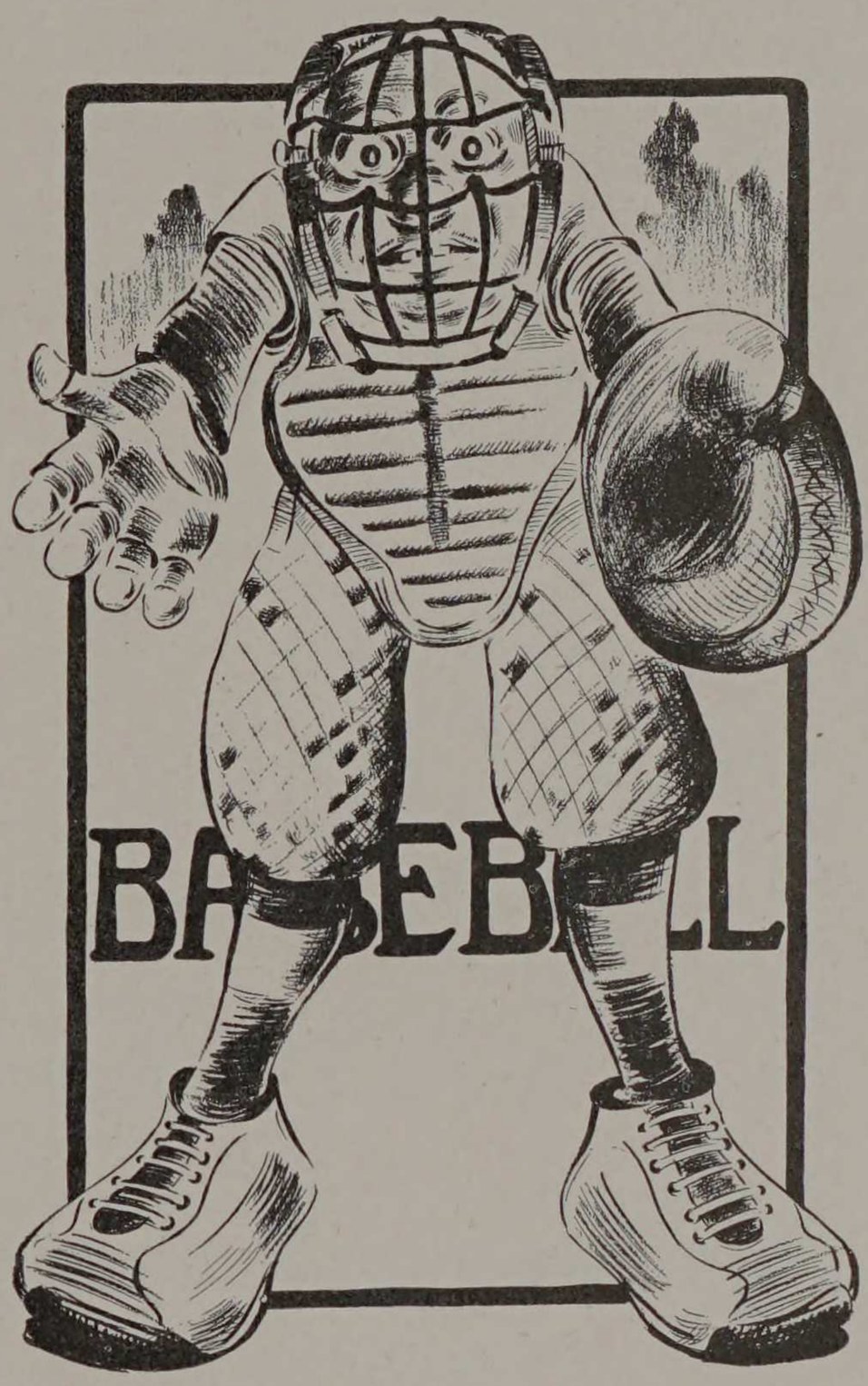
Academy Board of Control

When the College dropped foot-ball and track athletics, owing to lack of time, the Academy strove to uphold the fame of Armour in this branch of school life. Accordingly a meeting of the Academy was called and the Academy Athletic Association organized. The Board of Control had innumerable difficulties to overcome, but it kept bravely at its task and finally came out on top. The Academy joined the Inter-Academic League, and it is now on the high road to victory, and hopes to be able to cope successfully with anything in its class, as it has done heretofore.

Those entrusted with the management of Academy athletics are:

R. M. Lowenthal	'01	President
E. A. Walters	'01	Vice-President and Captain of the Base-Ball Team
P. H. Lowenthal	'01	Secretary
Prof. J. A. Brewster		Treasurer
C. S. Dexter	'01	Recorder, Manager of the Base-Ball Team and Representative to the Inter-Academic League
H. T. Whitney	'01	Captain of Foot-Ball Team
C. H. Hermann	'01	Captain of Basket Ball Team
B. H. Sackett	'01	Manager of Basket Ball Team
H. M. Beers	'01	Captain of Track Team
L. F. Wormser	'01	Manager of Track Team
L. M. Beers	'01	Representative of the Class of 1901
G. N. Crawford	'02	Representative of the Class of 1902
W. Lowenstein	'04	Representative of the Class of 1903
C. C. Hopkins	'04	Representative of the Class of 1904

Base Ball



Last year for the first time since the spring of 1897, Armour was represented by a base ball team. In spite of innumerable difficulties, the chief of which was the lack of money, a team was organized and equipped with suits and materials by the manager. The team, however, was not strong in the pitching department, and as there was no coach available it was compelled to play out the season with a team much weakened by lack of practice and confidence. The infield, save for a few lucid intervals when Miller covered short was remarkable for its porousness, and the batting was uniformly feeble. The team was not wholly to blame for it was absolutely unsupported by the School, and the result was exactly what might be expected. Not only did the school fail in support, but what is a hundred times worse, the team was censured to a man; and their efforts only spoken of with ridicule. Thus while a few were striving to redeem the base ball fame of Armour the majority (of which some were members of the team itself) only made the task the harder by piling obstacles in the path, and the season came to an inglorious eonclusion

The Schedule

April 13th, Oak Park H. S., at Oak Pk.
April 20th, Hyde Park H. S., Wash. Pk.
April 24th, Chicago Dentals at grounds.
April 26th, Physicians and Surg. at Ar.
May 4th, St. Ignatius Col. at Armour
May 8th, Lake Forest Univ. at Armour
May 11th, Open
May 15th, St. Ig. Col., at St. Vincents
May 18th, Open
May 22nd, Lewis Institute at Lewis
May 25th, Univ. of Chi., Marshall F'd
June 1st, Open
June 8th, Lewis Institute, at Armour

Academy Base Ball

Anthony Edward Seyl, Captain; George Newell Crawford, Mgr. The career of the Academy base ball team, while not an unbroken line of overwhelming victories, is still sufficiently glorious to deserve mention. A long and glowing account doubtless reposes somewhere in the editorial archives but it is not visible to the naked eye. In consequence of this fact, and some others, namely, that the subject is apropos of athletics in general, that Crawford, the manager, is a member of the illustrious gallery of immortals, and lastly that the printer man has it already set into type,—we append here the Class of 1902 Academy.

CLASS OF '02.

MR. GOLDSMITH, President
MISS DODSON, Secretary
MR. SEIPP, Fulcrum Rep.
MR. CRAWFORD, Rep. A. Ath. B.
MR. WALKER, Vice-President
MISS MILLER, Treasurer
MR. SMITH, Sergeant-at-arms
MR. ROCKWELL, Athletic Mgr.

Misses Adler	Mr. Crawford	Mr. Menkin
Cox	Dallas	Miltonberg
Dodson	Eseman	Morgan
Fairlee	Falk	Morrill
Felsenthal	Flood	Noble
Goodman	Frum Veller	Pitte
Hoops	Goldsmith	Pugh
Wright	Hancock	Rockwell
Mandel	Heilprin	Seipp
McLennan	Kaufman	Silverberg
Miller	Kennicott	Smith
Nickerson	Levings	Way
Wertheimer	Lewald	Walker
Mr. C. F. Cole	Manchee	Williams



Drawn by M. B. Aleshire

Bowling

In the trail of the advance and enlivening of the whole athletic system at Armour, comes an awakening in his line as well. Some time last fall, a Bowling Association was organized, an alley was procured near the school and the sport sprang at once into popular favor.

Many times in the Winter and Spring a choice collection of bowlers might have been seen parading over toward the long, smooth plank-walk. A great many of the students attained considerable proficiency in the art of hurling the large, smooth, round—with a thumb-hole, anp some good records were made. The bowlers are, however, very reticent as to their pursuit and no photographs of the men in action are obtainable.

While still the newest sport at Armour, bowling has the element of interest and suspense, and seems to be making a strong bid for notice and popularity.


William H. Johnston
1901

Armour Scientific Academy Foot Ball Team

Though beginning the season with anything but good prospects the Academy Foot Ball Team developed an exceedingly strong aggregation and one which made an excellent showing. At the beginning of the season only one or two of the last year's team had returned to the school and things looked dull, but new material, catching the genuine Armour spirit, recruited, and the team, under the able management of Mr. C. S. Dexter, 1901, considering the meagre coaching, progressed rapidly and finished the season well enough to tie the Lewis Institute team numerically and defeat it really.

Mr. Harold Whitney, 1901, was elected captain, but owing to disablement, was replaced by Mr. Anthony Seyl, 1901. The team consisted mainly of men playing for the first season with the exception of Parker, formerly of Hyde Park; Seyl of English High; Fitzpatrick of Michigan Military Academy, and Freedman of Northwestern Academy.

The line-up of the team was:

Ends—Farkas, Crawford, Maher, Levings and Dexter. Tackles—Seyl, Malcolm and Byrne. Guards—Fitzpatrick, O'Connor and Rockwell. Centers—Lowenthal, O'Connor. Quarter-backs—Freedman and Crawford. Half-backs—Parker, H. Beers, Walker, Whitney. Full-backs—Hermann, Beers.

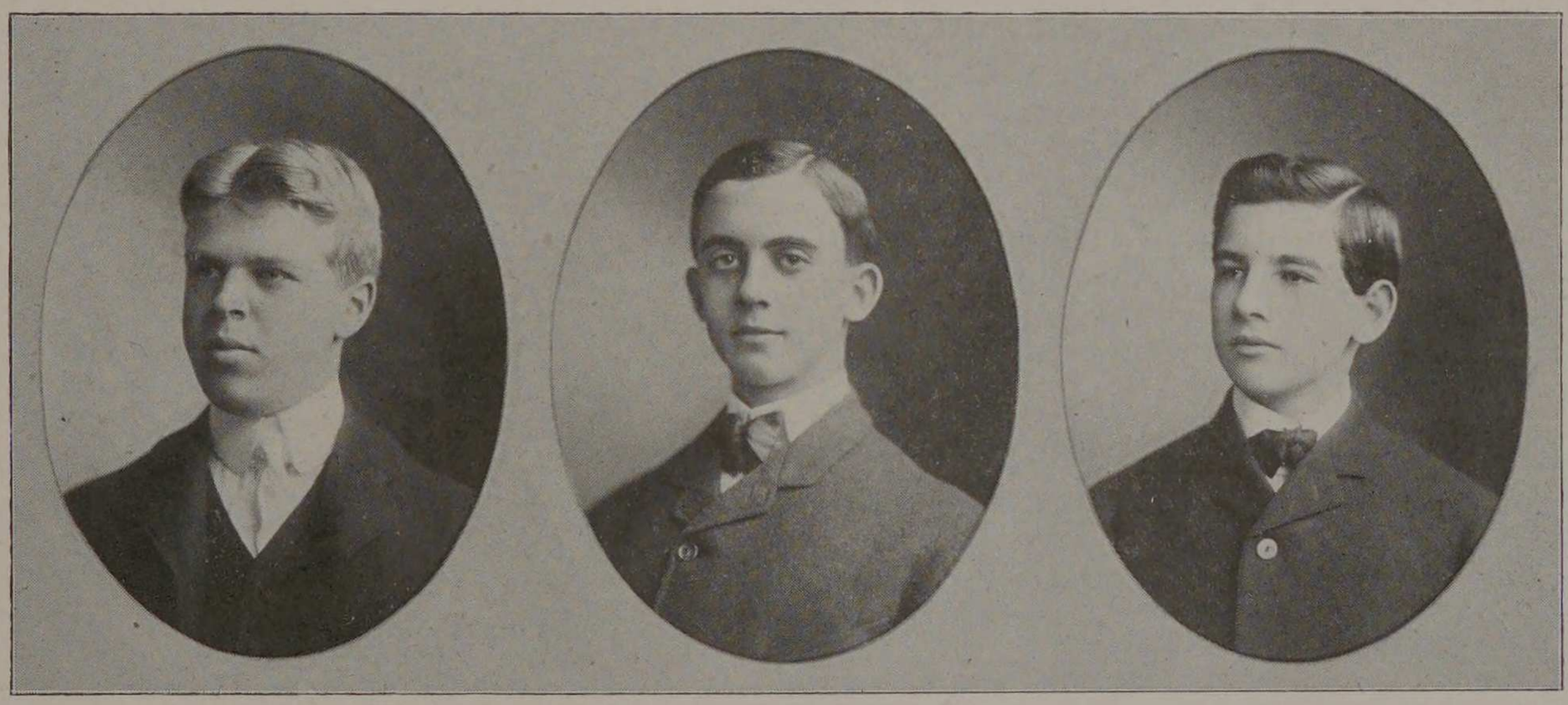
The record of the team follows:

Armour	Scientific	Academy	27	—Longwood Athletic Assn.	0
"	"	"	0	—East Aurora High School	0
"	"	"	5	—Morgan Park Academy	12
"	"	"	10	—Stearns Academy	0
"	"	"	0	—South Side Academy	28
"	"	"	6	—Northwestern Academy	0
"	"	"	5	—St. Charles Athletic Ass'n	0
"	"	"	12	—Chicago Athnaeum	0
"	"	"	0	—Lewis Institute	0
"	"	"	65	Opponents	40

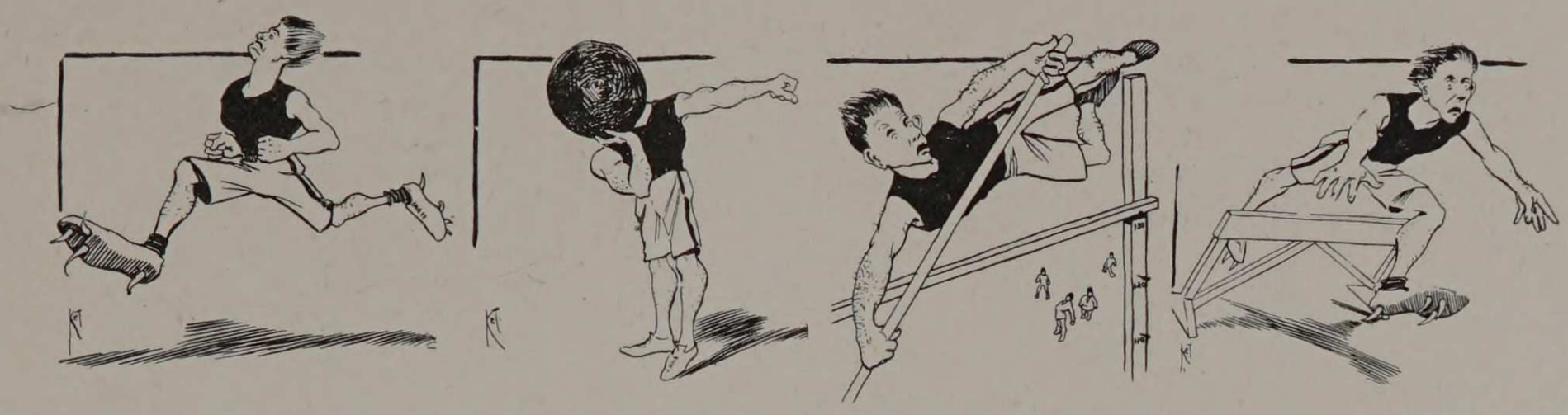
Games won, 5. Games lost, 2. Games tied, 2.



ACADEMY FOOT BALL TEAM



ACADEMY REPRESENTATIVES ON THE INTEGRAL BOARD



Academy Track Team

H. M. Beers, Captain L. F. Wormser, Manager

The Academy Track Team of 1900 was the first to organize strictly independent of the college, and was, therefore, admitted to the Inter-Academic League. In the annual outdoor meet, Armour finished in third place, which, in consideration of existing conditions, was fairly good.

This year the trials for the team were held at the University of Chicago Gymnasium, and encouraging results were obtained. Meets were arranged, and the honor of the school has been maintained by such men at Beers, McDonald, Maher, Levings, Hermann, Ferguson and Fisher.

In the recent meet with English High, the team was overwhelmingly victorious, by a score of 61 to 24. This work was remarkable, as it was the first meet this year for Armour, and the records are good in spite of the margin of competition. The East Aurora meet was also won by the Academy at the score of 68 to 63.



Drawn by Elizabeth Salishury

SOCIAL EVENTS

S. KAISER.

1900

May 11. Alumni dinner, Laperouse, Paris.

June 15. Senior Hop, Drafting room.

June 8. Glee and Mandolin Clubs' Concert and dance at Assembly Hall.

November 28. Phi Kappa Sigma Thanksgiving Hop at Boulevard Hall.

December 7. Integral Benefit at Assembly Hall.

December 29. Alpha Delta Sigma Annual Dance.

1901

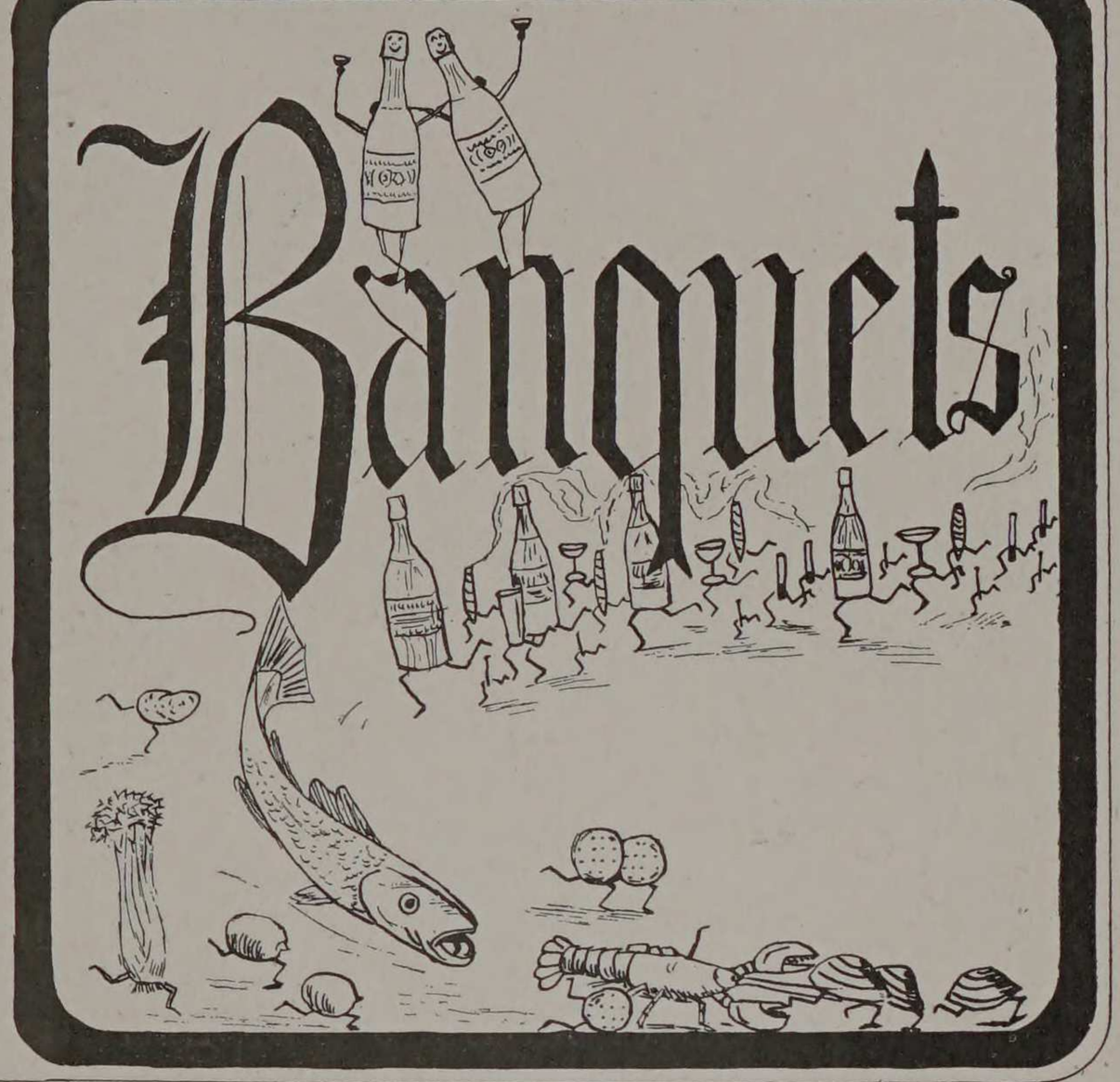
February 8. Junior Frolic No. 1 at Schafers.

March 8. Comedy Sketch by the Dramatic Club at Assembly Hall.

March 15. Omicron Kappa Pi Dance at Mr. Seipp's.

May 17. Sigma Delta Dance.





1900

June 13. Technical Society Banquet, Union Hotel.
June 14. Phi Kappa Sigma Banquet, Union Hotel.
June 15. Alumni Banquet, Union Hotel.
June 16. Sophomore Banquet, Union Hotel.

1901

Jan. 2. Mu Delta Sigma Banquet, Victoria Hotel.
June 7. Freshman Banquet, Victroia Hotel.

The Junior Prom.

An innovation was inaugurated in the social life of Armour Institute by the brilliant function given by the Junior class at the Chicago Beach Hotel April 12, 1901. For social elegance this event is unsurpassed in the annals of the college, and it is doubtful if any other college in the country can boast of ever having obtained any greater success socially.

One hundred and twenty-five pretty girls, clad in all the splendor of beautiful gowns, and as many stately forms in full dress, the sweet strains of a dozen musicians, all resplendent in the dazzling glare of a myriad of incadescent lamps, combined to make this fairy-like scene. Up to 9:30 o'clock there was an incessant stream of carriages, each in turn depositing some youth and his fair charmer on the steps of the hotel. Promptly at 9:30 the orchestra struck up for the opening waltz, and the multitude of dancers was put in motion. Presently the large spacious hall was filled with the merry hum of voices, and all earthly thoughts were forgotten. The spacious and elegantly furnished parlors afforded comfortable retreats for rest between dances, or for those who choose to enjoy a quiet tete-a-tete instead of dancing. Frappe was served, and in quantities sufficient to satisfy the desires of all.

Much credit is due the Social Committee for its untiring efforts in bringing the Prom to such a successful consumation. Every detail was arranged with such a degree of exactness as to please the most fastidious, and the long list of patronesses is sufficient guarantee of the high quality of everything connected with it.

Each successive dance seemed to augment the merriment of the assemblage, and only when the strains of "Home, Sweet Home" were heard, did the dancers realize that another day was already well along on its course.

The committee and patronesses were as follows:

COMMITTEE

R. M. Henderson, Chairman

E. W. Lilienfeld — C. M. Moss

PATRONESSES

Mrs. Bell O. Armour
Philip D. Armour, Jr.
Henry Martyn Bacon
Julia Beveridge
Irwin J. Macomber
Frank W. Gunsaulus
Alfred E. Phillips
David J. Simpson
Frederick U. Smith
L. A. Coonley Ward
Thomas F. Withrow

Mrs. J. Ogden Armour
James M. Ball
Charles H. Ferry
Jene Bell
Louis C. Monin
William T. McClement
Howard M. Raymond
Albion W. Small
L. J. Tilton
George H. Webster
Moses D. Wells

The Integral Concert

From the time the audience entered the hall until the Mission Keeper saw fit to excuse the straggling members of a jolly crowd, there was festivity and glee among the Armourites. The occasion was the Annual Integral Benefit Concert, and it occurred on December the 7th.

The Concert differed in many respects from those previously held, but the most striking characteristic, which gave a pronounced individuality to the affair, was the extraordinarily large representation of the various classes and organizations. Each society occupied a section of the hall especially set apart for it, which was decorated with the society's colors.

The Freshmen were conspicuous in numbers, to say nothing of those "young ones" whose names appeared prominently on the program. Their red and white class colors added greatly to the beauty of the assemblage, though those of the fairer sex whom the Freshmen count as friends had been left at home.

Close by sat the Seniors, Juniors and Sophomores—fewer in number than their worthy "under grads," but equally vigorous in their applause and other signs of appreciation. Most of the Juniors were invisible to the audience, for they had taken their stands in the background, where they were directing the action and manipulation of the "juice" which was to flow through a very cleverly-constructed electric sign —spelling the word "Integral." Each class was recognized by one letter of the word, which was decorated in the colors of that particular class. When the letters were illuminated and this work of art, which the Juniors had executed, was displayed the classes responded in turn, by giving their respective class yells.

As a climax to this electrical display, the Class of 1901 Academy had a sign of its own placed directly in the center of the balcony, which section was well filled by members of this class.

Although the demonstrations which have been mentioned, readily testify and do tribute to the excellence of the programe, still mention of the cause of this merriment must not be omitted. From the time the Gree and Mandolin Clubs opened with the "Armour Greeting" until the last strains of "Just a Song at Twilight" died away, was a continual display of excellent talent. The songs of the Glee Club and the selections of the famous Mandolin aggregation were interspersed by solos of such stars as our old friend (for banjo stunts) Dyer and of the talented Master Sydney V. James, while the trio which rendered the "Poet and Peasant" added greatly to the evening's success.

In short the programe was splendid, the audience appreciative, the spirit truly loyal, and the entire affair all that could be desired in every respect.

First Annual Freshman Handshake

The first annual Freshman Handshake was in the form of a smoker held on October 5, 1900, at America Hall, and was attended by every man in the College and a lot of jolly good fellows whom the year book labels as Profs. When the room had been properly filled with smoke, Dean Alderson welcomed the new Freshman class to Armour Institute in a short address. A piano solo by Bogle followed, and Wilson responded to Prof. Alderson's speech in behalf of the Freshmen. The next speaker was "High Pressure" Miller, who arose amid the cheers of the unsuspecting Freshmen. In a lot of well chosen words he gave the new class much good advice, telling them what warm members the Juniors had been when they were Sophomores, and promised his personal protection to '04 if the present Sophs should ever molest them.

More speeches were made and some first rate stories were told by the various members of the faculty; Taussig rendered a violin solo, accompanied by McArthur on the music rack; Reiniger and Henderson played a reminiscence-laden oriental air on the guitar and mandolin before supper was announced. The banquet room was too small for the entire crowd so a portion picknicked in an adjoining room.

The next features were a series of three-round "goes" between Byrne and Fairweather, Sherman and Rue, and Brown and Larkin. The first two battles were certainly fought with tremendous vigor and science, but they were as nothing compared to the third. The combatants were truly athirst for each other's gore and could not seem to get close enough to each other. This "heavyweight" sparring match was more like a wrestling bout than anything else.

These matches concluded the evening fun, and the fellows went peaceably home, merely making a friendly call or two on the way. Doctor Gunsaulus was visited and then a few arguments made against "midnight closing." This was all that happened—newspapers to the contrary notwithstanding. The smoker had been a great success, and everybody had enjoyed themselves. From the enthusiasm displayed by the Freshmen we may be sure that the Handshake will be continued from year to year, and that the title "Annual" has not been bestowed in vain.

The Freshman Smoker

Having seen duly into the advantages of smokers as promotors of good fellowship, the Freshmen were of the opinion that an all-Freshman Smoker would be a desirable thing, where they could be relieved from the tortures of Math. and Descrip. for a few hours. Consequently the Social Committee bestirred themselves, and the result of their labors was plainly visible when "Chimmy" Crawford, as chairman, opened the cermonies at Douglas Hall February 16th. The guests of honor were Prof. Shattuck and the Keg. When the meeting adjourned, the Professor and the Keg were the only ones who did not contain an adult's allowance of malt extract. The "makin's" were there in plenty and later on coffee and sandwiches made their appearance.

A very serious question had to be disposed of. A certain member of the class had been accused of conduct unbecoming a Freshman, and was apprehended and tried for the unheard of and atrocious crime of "Knowing too d—— much. The prosecution established the fact that the prisoner was notoriously and conspicuously wise and that he knew more than enough to be a Sophomore. The jury adjourned to the keg and, after everybody had *drunk* a little from its hallowed precincts, a verdict of guilty was returned, and the prisoner was sentenced to death by "Electrolysis." The final words were spoken and the fatal lever pressed. Then arose a shriek in which anger and surprise were curiously blended, for by some strange fatality a soda-siphon was cut into circuit and the luckless prisoner received the contents behind the ear. This act of justice was followed by a couple of international sparring bouts between Marchese and Marr, also Lundgren and Zuckerman. In the first, victory was awarded to Italy, and in the second, to Sweden. Then all gathered round the place where Benny pounded the keys of a decrepit piano and the musical stars of '04 re-established their claims to distinction, while several new virtuosi—notably Frary and Marchese—made their debut. At twelve o'clock the assembly adjourned to another social function in a hall on the floor directly below—but that is a different story.

Last Year's Sophomore Smoker

The Sophomores, with their proverbial fondness for jollity and good fellowship, tendered a smoker to some fifty college men and their personal friends. There was no formal program but all present contributed to make the affair an enjoyable one. "Horse Power" Miller made the opening address, which was heartily applauded. Several sparing exhibitions were given in which "George Dixon" Wallace distinguished himself in a bloody encounter with "Hot Scotch Fairy." An endeavor was made to bring "Shorty" Harris and "Unser Fritz" together in a light weight contest, but the gentlemen in question would not submit. A special feature of the evening was a bit of sensational dramatic art by "Loony." A villain, hero, heroine, and railroad track constituted the chief characters. "Loony" impersonated them all very vividly; he was especially fine as the railroad track.

Mr. Smith then became reminiscent and recounted several strange incidents in which he had particitated previous to his coming to Armour Institute. He was listened to with profound interest and loudly applauded. This was followed by confessions on the part of various others.

"Father Adam" a mandolin solo, and was followed by the A. I. T. quartette. "Polo Mel" and "Change" scored a great hit in their comic songs; "Change" responding to an encore with a brief dramatic spasm.

Finally when all the good cigars were smoked and the bad ones put away in our pockets for the benefit of our friends and the "cobs" duly scorched for, we adjourned to the dining room where a lunch was served. Shortly afterward the janitor appeared on the scene and our pipes went out.

'01 Academy Gives a Little Informal Blowout

In response to invitations for "a little informal blow-out, twelve members of the class of '02 Academy assembled at the American Hall on the eqe of November 17th, 1900. Well, it was a "blowout" as far as the lights were concerned, for everything was done with a feeling of mystery and awe. A well planned ordeal was gone through in which the '02s suffered not a little with hands and feet bound. The guests were placed in a small ante-room where, like Cerces' swine, they were left to await their fate. After all the victims had arrived they were dragged in one by one and tried for "having taken advantage of the Senior privileges" and for "being members of the class of 1902."

The jury brought in a verdict of guilty and the pen-altiei were then inflicted. A few heads were used as dishes on which a mixture of eggs, dough and glue were prepared, which was only removed, thanks to Armour's floating soap. One of the prisoners was not allowed in the Institute on the following Mondoy, owing to the odor of Limburger, which clung to him inseparably. Many other and worse penalties were inflicted upoc the representatives of 1902, but what happened later was

A spread was served for the men from both classes and expressions of good fellowship were voiced in numerous speeches. Both the guests and the hosts spent a pleasant evening. What had at first seemed hard feeling between the two classes, became good fellowship, and thus another step wes taken in an interesting manner to develop class and school spirit.

Miscellaneous

Advances and Improvement of the Institute

The changes about the Institute during the past year and those contemplated in the near future are many and important. They all indicate the development of the Institute along engineering lines with the necessary preparatory courses in the Academy. The discontinuance of the Department of Domestic Arts and Sciences gives four new rooms for the use of the College work. Two of these will be used for recitation purposes. The large sewing room will be equipped for the use of the Civil Engineering students. The room formerly used for cookery will be turned into an Engineering Chemistry laboratory.

The equipment for the Civil Engineering course has been largely increased. A new course in Chemical Engineering has been adopted and has enrolled many new students who recognize the openings which now exist in industries for men who can combine a knowledge of chemistry with a general engineering education. The equipment for electrical engineering has been improved by the installation of a new storage battery, the superior of which does not exist in any technical school in the country. The Mechanical Engineering department has taken the lead in organizing a department of Commercial Tests which has brought the Institute into close retions with the engineering and business world. All of the courses have been revised and improved so that hereafter the senior year will be devoted to pure engineering work. This advance is most important and will enable our graduates to take more advanced engineering positions than ever before. The success of our men in securing and holding important positions is most gratifying. The calls made upon the Dean for men frequently have to be refused because all of our graduates are profitably employed. A new feature of the work during the past year has been the increased number of lectures by engineers of high professional standing. When the leading engineers of such large corporations as the Illinois Steel

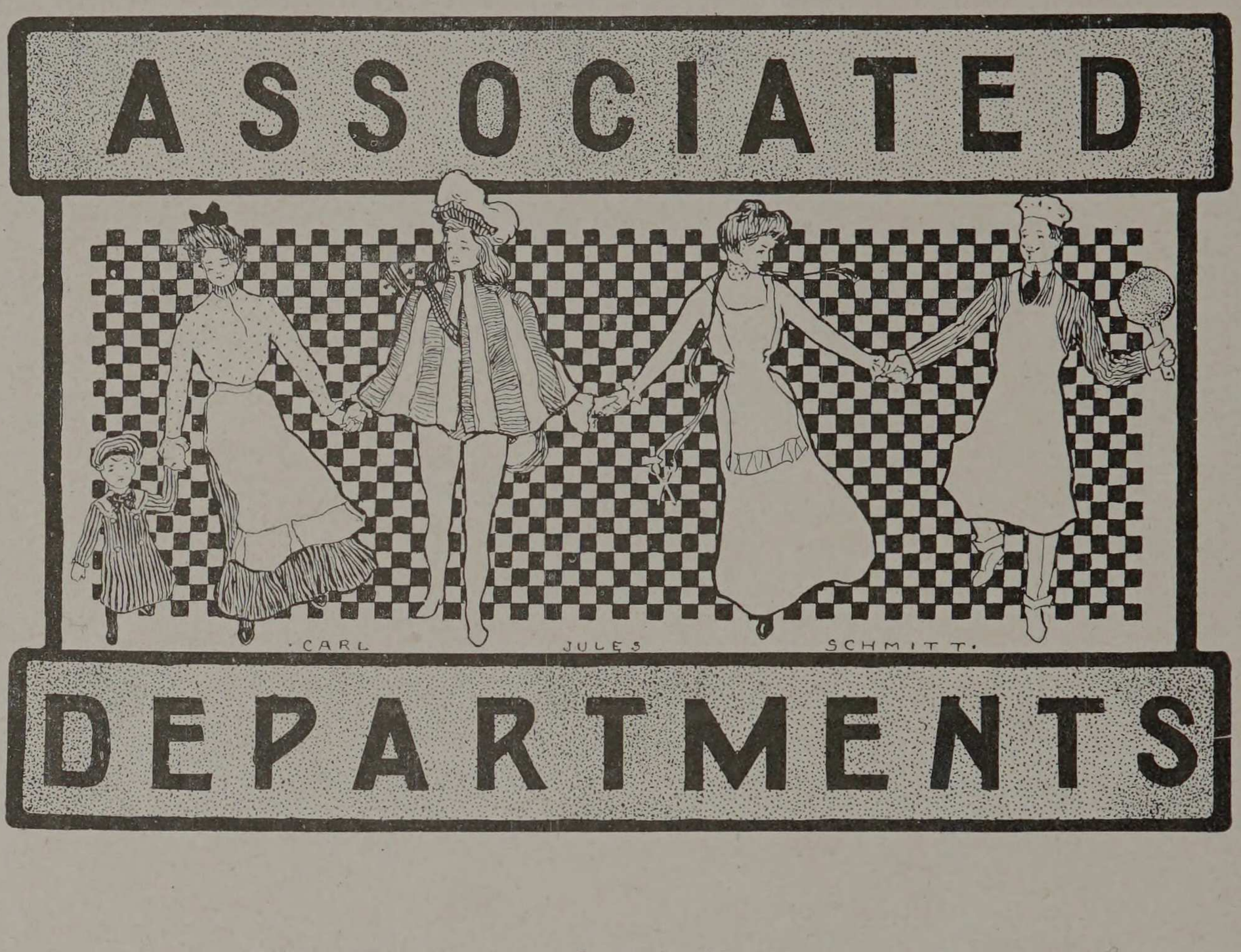
Company, the Bethlehem Iron Works, and the Chicago Edison Company are willing to address our students, it speaks volumes for our reputation.

The most up-to-date view of a library is that it is, in a sense, a laboratory. The efforts of our new librarian have been directed toward enabling all students to learn how to make a profitable use of the vast amount of information stored in the library. The number of books added has been very large, especially on engineering subjects. The engineering alcove, for the sole use of the Senior class, has been a marked improvement.

With the beginning of the school year of 1901–2 the work of the Academy will be put upon an elective basis. Two years of English will be the only required work. The remainder of the course can be chosen by the student in such a manner as to best suit his needs.

The addition of a million dollars to the endowment of the Institute by Mrs. P. D. Armour, Senior, and Mrs. J. Ogden Armour will enable the increasing needs of the Institute to be met as fast as they arise. The steady increase in the number of students, the addition of new courses, and the consequent enlargement of the equipment, all point to the need of new buildings. These will be provided in the form of a building for the shops and one for the distinctive engineering work.

Present developments show that the Institute has now an enviable reputation not only among technical schools, but with the engineering profession at large. The future of the institute is big with possibilities; the outlook never was brighter; the grandest part of her history is yet to come.



MUSIC. Prof. Pfefferkorn
COOKING. Miss Bullard
MILLINERY. Miss Kennedy
DRESSMAKING. Miss Connor

The departments of Cooking, Millinery and Dressmaking have been abolished to make room for Chemical Engineering.

COOKING DEPARTMENT



Cooking

Ever since the first classes in Domestic Science were organized there has been an air of mystery, and delightful, enticing mystery at that, about the fourth floor. The departments of cooking, sewing, millinery and dressmaking have from then out been a prominent feature in the life of the school. The reason for this popularity has been rashly given to the effect that when a young lady has mastered the subjects taught there she is a fit subject for matrimony. Far be it from us to deny this well-grounded tradition.

Among the distinctions of this department, though strictly in line with the general theory of the Institute, is its cosmopolitan character, worthy the notice of the sociologist. Is calls its devotees from all walks of life, from all walks of life, from all ages and generations, and lastly from all sexes. There is a rumor that three men once started to take the course in cooking—beyond which history does not state. Miss Isabelle D. Bullard has been the head of the cooking department since the inception thereof, and it is with the utmost regret that we hear of the almost certain departure of one who has been identified with the social, as well as culinary, life of the Institute. Mrs. Armour has provided for the establishment of the associated departments in some place not too far removed from our midst, the announcement of which will be made more definitely later on.



OFFICERS

ANDREW NICOLAS, President

FRANK H. BERNHARD, Vice-Pres. DAVID KAPELUSCH, Secretary

EXECUTIVE COMMITTEE

FRANK H. BERNHARD, Chairman

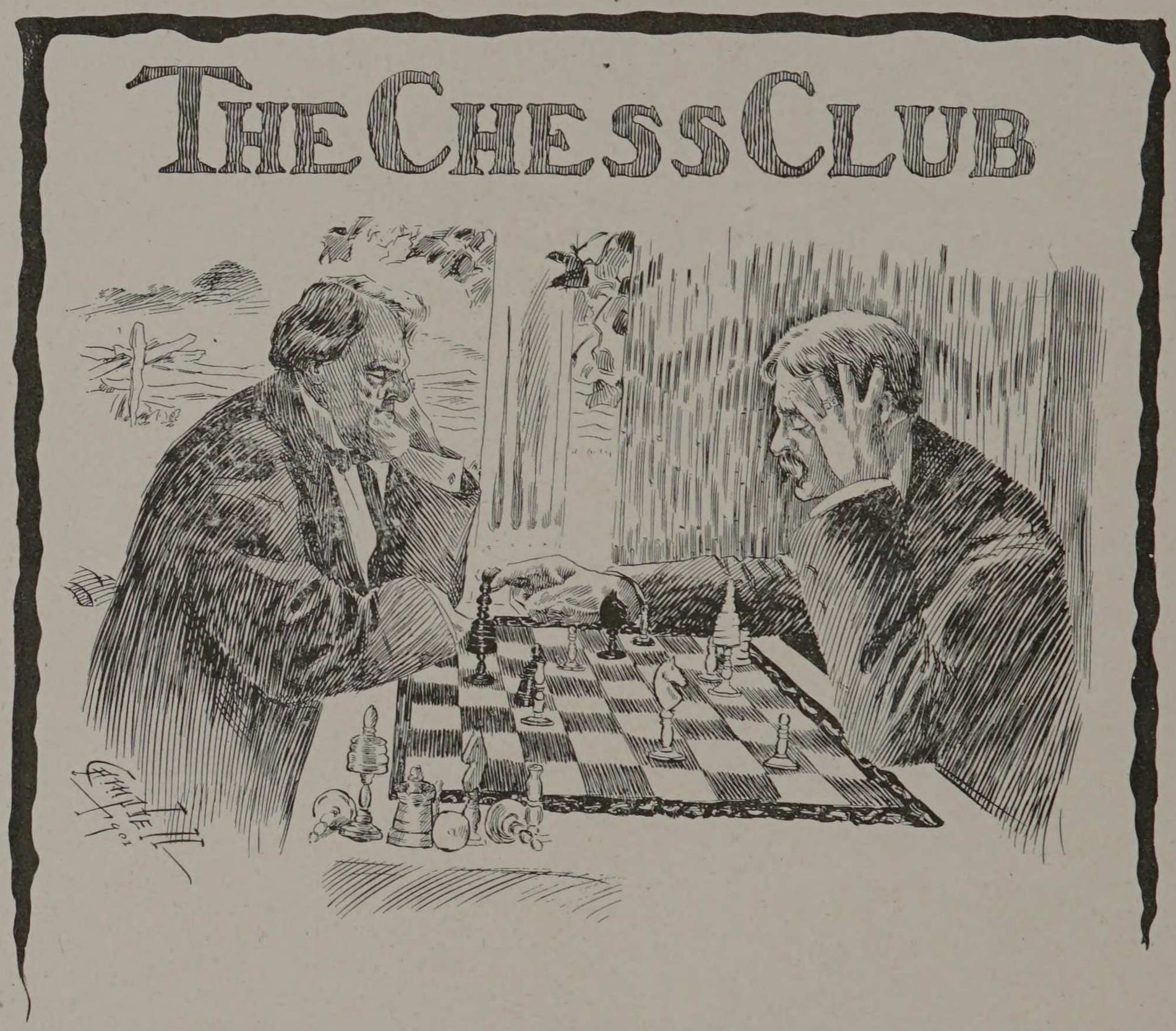
HOHSON S. SHIMIZU FRANK MARCHASE

ACTIVE MEMBERS

Frank H. Bernhard - - -	Austria
Yohe Chan - - - -	China
Emil E. Farkus - - - -	Austria
David Kapelusch - - - -	Germany
Frank Marchese - - - -	Italy
Tobei Nakamura - - - -	Japan
Andrew Nicolas - - - -	Syria
Hovhannes E. Russian - - -	Armenia
James W. Shiller - - - -	Austria
Hohson S. Shimizu, - - -	Japan

ASSOCIATE MEMBERS

Louis Cohen - - - -	Russia
Frederick G. Larkin - - -	England



Died at the age of three months and two days, one Chess Club.

Debating Society

LEWIS A. DELANO
President

LOUIS R. LEVINGS
Secretary

BARTON H. SACKETT
Vice-President of the Inter-Academic Debating League

The growth and success of the Debating Society during the past year has been very satisfactory, and interest in the doings of the Society is greatly increasing. Aside from the many interesting papers and debates which have been delivered at the meetings, musical features and such novelties as mock trials have been introduced.

Last June the Society entered the Inter-Academic Debating League, composed of Northwestern, South Side, Morgan Park and Armour Scientific Academies. In the trials held at the Institute, for the Academy team, Leo F. Wormser, Barton H. Sackett and Lester L. Falk were victorious.

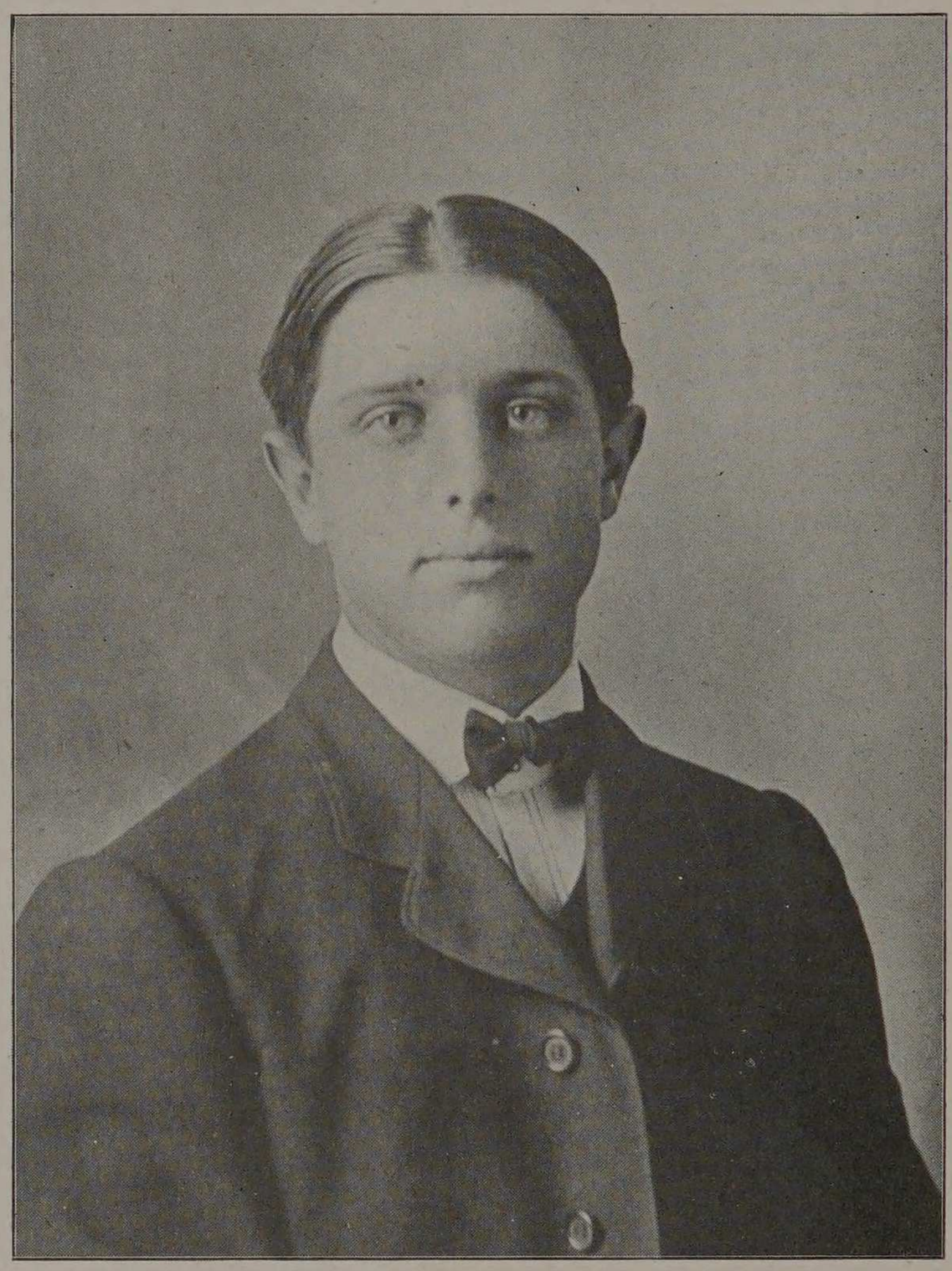
On January 18, 1901, this team upheld the negative side of the following question: "Resolved, That the Street Railways Should be Owned and Operated by the Municipal Government," against South Side Academy, at Kent Hall of the University of Chicago. Our team was awarded the unanimous decision of the judges. On the same evening Morgan Park defeated Northwestern Academy.

The two victorious teams then met and debated for the championship of the Academies of Cook County. This debate was held at the Art Institute on the evening of April 26, 1901. The subject discussed (in which Armour had the affirmative) was: "Resolved, That United States Senators Should be Elected by Popular Vote!"

Fred von Hermann

It is not without a deep feeling of regret at our own meagre ability to judge correctly and justly, and to so clothe our thoughts that they may convey to his countless friends all we would say of his frank, cheerful, genial manner, his sterling character, his personality, that we attempt, in our own humble way, to put into words our esteem for Ferdinand von Hermann.

For several years prior to his death, January 14, 1900, he was the leading spirit in the Scientific Academy of Armour Institute.



He was among the leaders in athletics, and his popularity here was second only to that among the numerous social organizations of the College — notably the Mandolin Club.

His was a mind to grasp opportunities instantly upon presentation. He was calm and resolute amidst intense excitement. At the time of the revolution of our College spirit, when mass meetings were being held hourly, when few classes were attended and the corridors full of groups of excited students and nervous members of the faculty, he was the one who did his part well by counseling the Academites to go slow, and not commit themselves to any conduct unbecoming a student of Armour Institute. Good, frank, generous spirit! 'Tis from the ranks for which you belong that come the leaders and uplifters of men. Yours was a spirit created to lead, to command, and do good thereby.

Truly can we pay to him the highest tribute one mortal can give to another

He was a man!

Ethel Lenore Miller

"Trouble the master not, for she is dead,"
But a gentle hand
Was laid upon his arm, and in his ear
The Savior's voice sank thrillingly and low:
"She is not dead, but sleepeth."

These words, spoken so many years ago, seem to be spoken in our hearts to-day; and, though we could not hear the master say "Maiden arise," we know our sister heard. So, through the gateway we call Death, she passed from among us. into that great silence which lies beyond. Whether the illness be linger ing or of short duration, there always comes a shock, when from our midst a friend is taken. Such was the shock we experi enced last Spring, when Ethel Lenore Miller was taken, after an illness of less than a week One of Armour Institute's brightest and most beloved students, she early won the respect of her associates and the admiration of her teachers. The loss to Sigma Delta Sorority is keenly felt by all her sisters. We can never realize the great privilege granted us in having come in contact with her pure and innocent life.



Our hearts are sad when we think of our loss, and yet our sorrow is softened by the sweet memories which are ours.

These memories will always be fondly cherished, not only by them but by all her schoolmates.

Her many friends are deeply indebted to her mother for placing in the library the memorial window, which recalls to them always many beautiful thoughts of her.

Waiting

(Dedicated to the Sigma Delta Sorority.)

Shortly after the school time
When night is beginning to lower,
Comes a pause in the day' occupations,
That is known as the waiting hour.

I hear in the hallway above me
The echoes of many feet,
The rattle of checks in the cloak room,
And voices soft and sweet.

From the hallway I see in the distance
Descending the broad marble stair,
Our friends, Louise, Berenice and Hortense,
And Clara with coal black hair.

And besides these there's Millie and Jennie
With Sylvia right in line;
But we don't forget Mary and Gertrude
And Edna's always on time.

They stop to speak for a second
Then go to adjust a veil,
Then a few hurried looks about them,
And away from the building they sail.

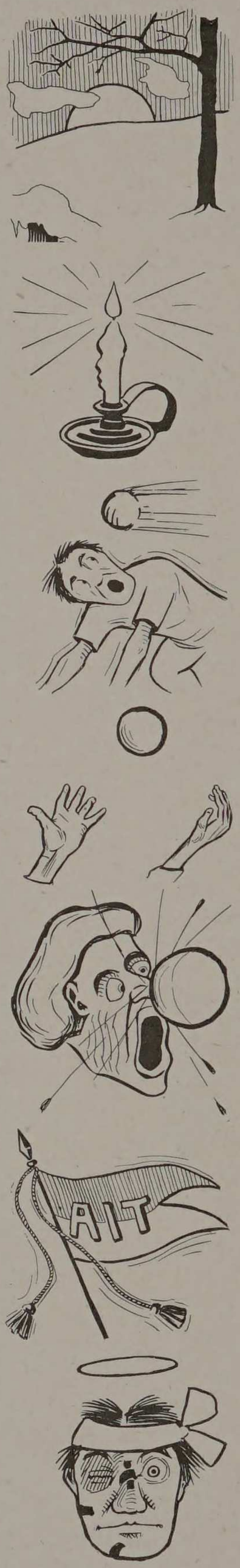
Alone? Ah, I hate to tell it,
They never alone depart,
For always there stand in the hallway
A few boys ready to start.

They've been waiting and waiting since bell-time,
For the girls to get ready to go;
And then when the time is fast coming
Where is the girl to say "no?"

Shortly after the school-time,
When night is beginning to lower,
Comes a pause in the day's occupations,
That is known as the waiting hour.



My Puritan Forbears (*V. C. A.*)



Charley and the Basket Ball

At Armour, when the sun was low,
All bloodless lay the untrodden snow,
And cold as Iceland was the blow
Of that dark December evening.

But Armour saw another sight,
When lights were lit that winter night;
Two rival teams about to fight
Stood waiting for the whistle.

With fast repeated shout and call
Each player tried the basket ball
On either end of the large hall
To test the height of baskets.

Then rent the air with whistles shrill,
The players rushed in with a will,
The other team received a chill,
As Charley threw a basket.

But fiercer yet the game did grow
And faster yet did Hermann throw,
The enemy to fill with woe,
Until the first half ended.

The combat deepens—On, ye brave,
Who rush to glory, or the grave,
Wave, Armour; all thy banners wave
And play with all thy chivalry.

Few, few shall win from Armour's fame,
Her glory we will never stain
And thus our victory and our name
Will live unto eternity.

The Hortense Miller Club

Club Song—The Moth (Miller) and the Flame.
Lord High Chancellor—Leo Wormser.
First Easy Money—Tom Ellett.
Second Easy Money—Johnny Week.
Periodic Comer—Billy Matthews.
Walking Stick in Waiting—Barton Sackett.
Camp Follower—Ralph Lowenthal.
Errand Boy—Robbie Walker.
Ticket Taker—Johny Mueller.
Also Rans—Herbie Zuckerman and Roy Henderson.

Freshman's Cash Account

The cash account of one of our Freshmen as it really was, and as it was sent to his "Pa."

Pa's account.				As it really was	
Jan.	32	By cash	$20.00	By cash	$20.00
"	"	B'd & r'm, 1 w.	6.00	Board and room	4.50
"	33	New hat (stiff)	3.00	Soft hat	1.00
"	"	Laundry	.65	Laundry	.35
"	"	Tkts to theater	1.00	Bill at "Sams"	7.25
"	"	Box candy (thtr)	.50	Broken window glass	.65
"	"	Pair trousers	7.25	Lost at poker	2.20
"	"	Carfare, etc.	1.60	Candy for Mabel	1.20
				Flowers for Bessie	.80
				Carfare and sundries	.40
					$18.40
				"Moondries"	1.60
			$20.00		$20.00



IN MEMORIAM

Lawrence S. Willliams

Associate Professor of Chemistry

Fable of the Busy Editor

Once upon a Time there Flashed across the Horizon of a Magnificant technical school an Editor who was the Real Thing. He admitted it Himself, not having the Heart to deny it, and besides it was Palpable when one gazed into his Thoughtful Eyes or caught the Coruscating Glimmer of his Golden Thatch.

The Organ for which he wrote the Leaders and the heavy double-leaded Display Stunts was wont to appear once a year, unless the Printer tied it up. This year there was great Difficulty in finding the Proper Man, the Boston Wonder having given over his Attempts to pronounce the lettah "ah," but finally they Discovered this Bonanza. He was a Hustler, right at the Start. He had George William Curtis, Victor Clifton Alderson, and Walter Pater faded for Style, and when it came to getting Busy—well, Tag, he was It! There was also an Efficient Assistant, who was just as Good, but no Better.

As the time for publication came Around, the B. M. (who had taken the job because everyone else had cold Feet) thought it would be Kind of nice to turn over a Bunch of copy to the Printer. The Editor toed the Scratch with a dedicatory address and a two-line Joke. Then he rested on his Laurels; his work was Done. Before the year was Out he added a list of Social Functions, and his Assistant wrote a Funny Article, to provoke mirth. The B. M. made a brave fight, but the odds were Agin him.

When he was through persevering, he let loose on the Editor his thoughts of a Light Blue Tint, with calcium accessories and a Bass Drum. The Editor smiled his calm, imperturbable smile, and suggested to the B. M. that it was a warm afternoon. But after all, he took a Kindly Interest in the Organ itself, and once he read proof, making a correction of three crosses, a scrawl and a Cap W, with a blue Pencil.

Moral: *If you want a thing done, get an assistant.*



THE BUSY EDITOR

A Masque of Choice

The Man — So ever comes the query—which?

The Machine—I am the thing your brain hath wrought, and stand
By toil of yours, to lighten common toil.

The Maiden—What care you for this thing of whirling wheels,—
You, that have in your breast a heart, and blood
To quicken at a touch, and lips to smile?

The Machine—Long was your thought on me, and with prepense
You set my destiny; your cunning hand
Foredoomed my lines and trusted me with fire;
You gave me force to follow your intent,
And bade me silently to cry your fame.

The Maiden—The spring is come,—the day of sun and song;
The wood of dreams is o'er us; let us walk
Unthinking and in joy before the gods—
Yet silent, lest we stir the wrath of Pan.
Can you not hear the dalliance of the birds,
Nor feel the kisses of the bashful breeze?
Breathe deep and listen; all the world's in love.

The Machine—Back, trifling master! traitor to the law,
Waste not the running moments of your power.
Return and serve the stalwart god of Things
Go bless the toiling thousands, and to lift
One burden from the shoulders of the world.

The Man — Whither, my soul?

The Maiden—The sun is glad of the green forests. Come.

THOMAS WOOD STEVENS

Philip Danforth Armour

Philip Danforth Armour was born May 16, 1832, at Stockbridge, Madison County, New York. There were six brothers and two sisters in the family. Philip's father, Danforth Armour, was engaged in farming, and Philip, the son, with the others, grew up having instilled in him habits of industry and economy. As to his education, the country school-house took care of that, with the advantages of the seminary afterward.

Had not young Philip Armour taken a buggy ride in a hired rig in company with one of the young women attending the seminary it is not unlikely he would have gone from seminary to college in following the irresistible tendency upward. That ride changed the entire current of his life. He had been indentured to a farmer, in accordance with the custom of the times, but when the stern principal of the seminary refused to overlook the buggy ride, and expelled both young Armour and his companion in the innocent pastime, he was seized with a craze to join in the rush of gold-seekers to California.

WITH THE GOLDSEEKERS

Although but twenty years of age in 1852, Mr. Armour made the trip successfully, passing through numerous dangers which at times rendered his safe arrival across the continent a matter of grave doubt. Reaching the gold fields, he went to work with a will, had moderate success, and, unlike most of his companions, saved what he found. The dissipation of mining camps had no attraction for him, but the education, the learning, the self-reliance, the broadening influence of having himself alone to depend on in the midst of wild surroundings, with human life of little value, developed him far more, probably, than years in a college, to which he probably would have gone direct from the farm had not the buggy ride interposed.

BACK FROM THE GOLD FIELDS

It was in 1856 that Mr. Armour, then twenty-four years of age, returned to the east. When he had left the old home his moving ambition was to get enough gold in California with which to buy a farm and settle down in the neighborhood with his father and brothers. Now, he had the money to buy the best farm in the region, but what had been the greater object of his life four years before no longer attracted him. With the instinctive feeling of an ability to command, he desired something to command. In following out his bent he first went to Cincinnati, where he remained a short time. Here he married Miss Melvina Bell Ogden in 1862.

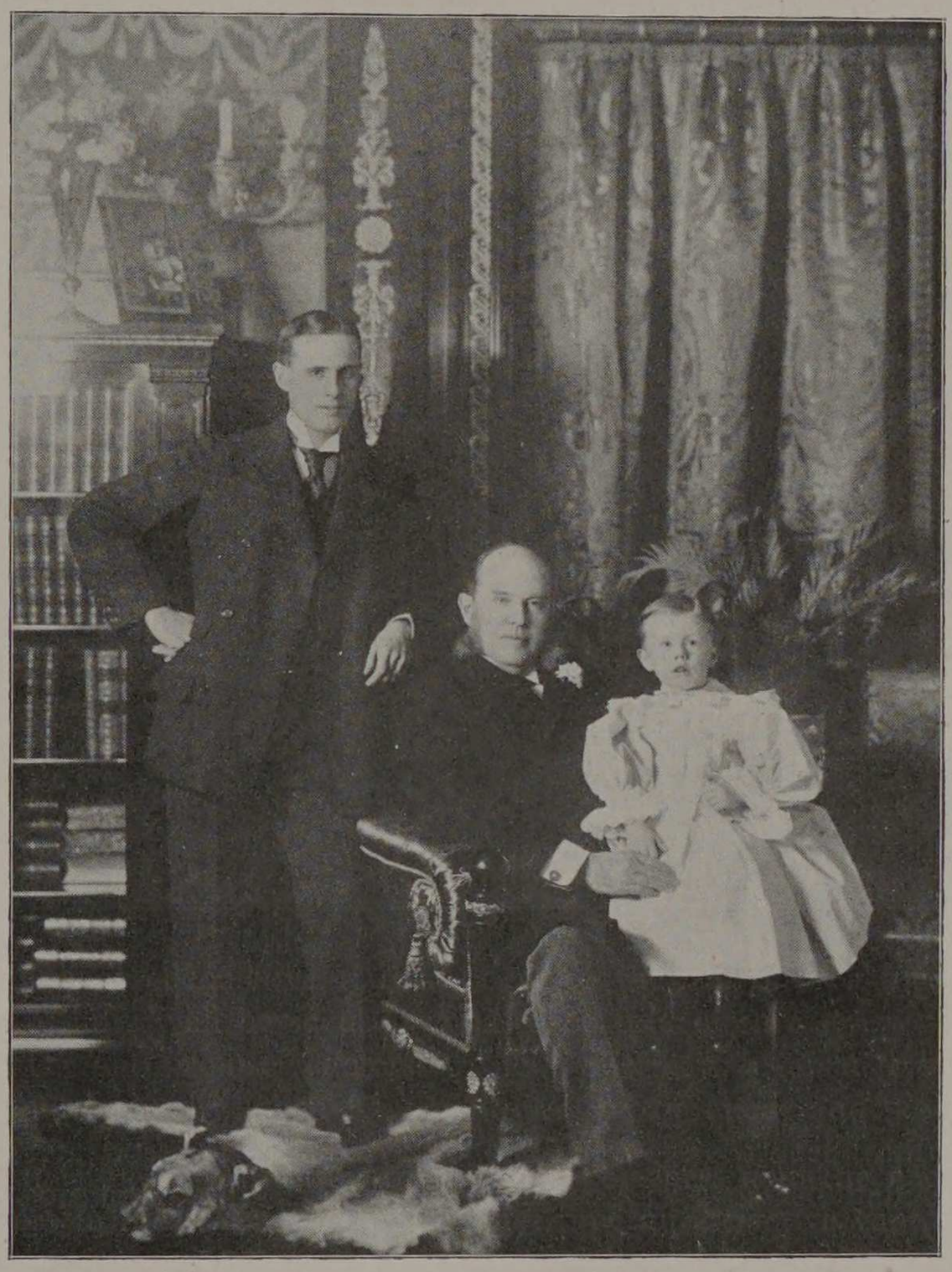
IN BUSINESS IN MILWAUKEE

Mr. Armour next removed to Milwaukee, where he formed a partnership with Frederick B. Miles and entered the commission business. The firm met with good

success, but was dissolved in 1863. This threw on the young business man the necessity of again chosing a sphere in life Lumber was at that time an attractive venture, and Mr. Armour thought seriously of entering the field. Finally he decided to take the place of Frederick Layton in the packing business, with John Plankington as his partner.

IN THE PACKING BUS NESS

Thus was begun a close connection, both socially and in a business way, between Mr. Armour and Mr. Plankington, which continued until the latter's death. Mr. Plankington had been long a resident of Milwaukee and had built up a successful business. The addition of the fund of tremendous, untiring energy which Mr. Armour brought to the firm resulted in a vast extension of its interests and laid the foundation of the fortunes of both the partners. After two years of this association Mr. Armour conceived the master stroke which will ever be remembered in the packing business. He made up his mind that pork selling at $40 a barrel was too high, and that as soon as the war ended the price would collapse. Although he was a young man — only thirty-three years—the senior partner accepted his views, and he went to New York, then the center of speculative activity, bent on the feat of breaking the price of pork. The story of how well he succeeded has been told often. Every successive union victory knocked out profits. Petersburg fell, Sherman began marching up toward Richmond from the south, then Richmond was abandoned, and finally came Appomattox. Off went pork with each event, and the young broker from the west who had sold all the pork he could get anyone to take at $40 a barrel, delivered it at about $18.



A vast extension of the fitm's business followed after young Armour's celebrated

pork deal in New York.

A branch was established in New York under the management of Mr. Armour's brother, H. O. Armour. Not long after the firm entered Chicago and Kansas City, but it was not until 1875 that Mr. Armour removed to Chicago from Milwaukee and took his place at the head of Armour & Co. from the day it opened its offices. It attracted no large amount of attention, but it pursued its steady, even tenure, pushing its business in all directions and adding annually large sums of capital, which were expended in still greater extensions. From pork it was only a step to grain, and Mr. Armour became prominently identified with the grain trade. It was in 1882 when his power in the wheat pit on the Board of Trade became manifest.

He was drawn into that deal by the circumstances that close personal friends had become seriously involved before he knew what was going on. By main force of masterly strategy, backed by his capital, Mr. Armour maintained the price of wheat at a range of 25 to 30 cents higher than at any other market in the country, and succeeded in carrying it through to the end. He is credited with having made a handsome profit out of the operations, but it is noticeable that he was not concerned in a large degree in any other grain corner until he was again drawn in by the gigantic operations in December, 1897.

THE LEITER WHEAT DEAL

Again in 1897 Mr. Armour found that he had contracted to deliver a large amount of wheat to Joseph Leiter by December 31. It was still an unsettled question as to whether he sold the wheat short that Joseph Leiter would not make his deal successful or had accumulated the shortage in the ordinary course of trade owing to the unnatural difference in the prices between grades. However that may be Armour & Co. were short. The head of the firm did not choose to give his check to Joseph Leiter and let it go at that. There was wheat and plenty of it in the northwest, and he started his men out for it. He took every bushel he could get at Duluth, secured another batch at Minneapolis, taking it directly away from the mills, and everywhere wheat that could be delivered on contract was taken.

Lake boats were sent in fleets to Duluth to bring the grain to Chicago, but while there was still 1,500,000 bushels afloat on Lake Superior St. Mary's river froze up. Mr. Armour immediately hired all the ice-crushers he could secure, broke a way through the ice and brought the boats through to Chicago with their grain. It was Christmas before the last of it had been unloaded and the warehouse receipts had gone to Joseph Leiter. There was considerable loss on Mr. Armour's part in the transaction, but he was spared the ignominy of acknowledging himself beaten. When Joseph Leiter finally quit and L. Z. Leiter, his father, undertook the great task of straightening out the tangled affairs of the wheat deal, it was to Mr. Armour the elder Leiter went, and the perfect machinery of Armour & Co. was put to work getting rid of the Leiter wheat. Some of the grain which Mr. Armour had brought through the ice from Lake Superior for delivery to Joseph Leiter had to be marketed again by Armour & Co. A higher tribute to commercial probity and business ability could not have been paid than was given Mr. Armour by L. Z. Leiter in this act.

These incidents in Mr. Armour's career in the grain trade pointedly illustrate his tactics of dogged perseverance, wonderful energy and marvelous fertility of resources in the great game on the Board of Trade, in which the price of the world's food supply is at stake. He never was a gambler or a plunger except in the one case of his pork

deal at the close of the war. When in the manipulations of the market he became mixed up in a melee he showed the pits that Armour was a "buzz saw." No concern doing business on the board eliminated speculation to a larger degree from its business by "hedges" than this one.

As showing the grasp of the situation which was possessed in the La Salle street (Chicago) office it may be mentioned that Armour & Co. and Bartlett, Frazer & Co. joined in putting up an elevator in Buffalo a few years ago to handle their own business, and that in a single season of navigation the profits of the elevator paid for itself.

MR. ARMOUR'S UNFLAGING INDUSTRY

Mr. Armour was the hardest worked man in the establishment. He arose at 5 o'clock, breakfasted at 6, and was at his office at 7 o'clock every morning. There he always found a bunch of flowers with a huge ox horn for a vase. A man had preceded him, who had opened the cables, giving reports from foreign offices and connections. He generally worked until 6 o'clock, when he went to his residence for dinner. At 9 o'clock he retired. That was the daily schedule for many years. Of late years he had gone out earlier at times.

These eleven hours he devoted to a close attention to business. When the office was still in Washington street, in Chicago, Mr. Armour was approachable by the general public, but with the great growth of his business affairs he was compelled to hedge himself in behind secretaries and superintendents, who prevented people seeing him unless their business was of sufficient importance to take up the time of the head of the firm. There was no department where Mr. Armour did not have an accurate knowledge of what was going on. His grasp of detail from wheat to pork and from pork to railroads, and from railroads to all the other interests seemed marvelous to the men under him. When he wanted to take up a matter he called the man at the head of a department to him, paid close attention to what he had to say after a few questions, and then gave his instructions. So perfect was the discipline of the machine tthat employes never thought of violating his instructions. In this manner he never had to worry whether his plans were being carried out or not.

HIS HEALTH BECOMES IMPAIRED

Firm grip on affairs was maintained until the spring of 1899. Then his health became impaired. Although nothing was left undone to bring about its restoration, his apparent recovery was but temporary.

TREATMENT OF EMPLOYES

In the treatment of the army of laboring men which Armour & Co. supported, a broad liberality was followed, and the relations were disturbed with few labor troubles. There was one great sympathetic strike at the Stock Yards, in which the militia had to be called out, but this was not due to specific grievances in the packing houses. The seat of trouble was elsewhere. After that strike had been won by the packers there was no other trouble.

THE BUSINESS INCORPORATED

Careful preparation had been made after the death of P. D. Armour, Jr., to preserve the great Armour interests intact when the head of the company should pass away. This was done by the incorporation of Armour & Co. as a joint stock company in place of the co-partnership it had been from its inception. So carefully had

the plans for the future been made that the death of Mr. Armour will have little effect on the outward working of the great enterprises with which he had been so closely identified. Armour & Co. will remain a potent factor in the development of trade.

ENORMOUS BUSINESS OF ARMOUR & CO.

The business of Armour & Co. in its multifarious branches reaches colossal proportions. Testimony before an investigating commission said that the firm did $200,000,000 worth of business a year in meat products. In the actual handling of grain not less than one-third of the crops of the west passed at one time or another through the hands of this firm, as they were shipped to eastern or foreign markets.

MR. ARMOUR'S PHILANTHROPIES

The greatest of Mr. Armour's philanthropies, which were numerous, was the founding and endowment of the Armour Institute of Technology at Armour Avenue and Thirty-third Street, Chicago. The amount of his bequests is about $3,000,000.

THE MISSION AND ARMOUR INSTITUTE

In his later years Mr. Armour devoted much time and gave liberally of his money to the Armour Mission and Armour Institute. The mission was founded by his brother, Joseph F. Armour, who died in January, 1881. He had bequeathed $100,000 for the establishment of the mission, placing the work in the hands of P. D. Armour. The mission was opened in 1886, the South Side, near Thirty-third Street, being selected for the work. From his work in carrying out the wishes of his brother Mr. Armour became engrossed in its objects and adopted the mission as his own.

The mission led inevitably to the Armour Institute of Technology. Once the Institute was organized, Mr. Armour's whole soul was enlisted in its upbuilding. He had never done anything by halves, and he did not stop short with the Institute. With his benefactions in February, 1899, it is estimated that Mr. Armour gave to the Institute and mission about $3,000,000. Long rows of flats in Thirty-third Street and Armour Avenue were deeded by Mr. Armour to the Institute to provide it with a permanent endowment. A little city has grown up by itself around that section, raised by Armour money, for the maintenance of the work of the institute.

It was long the aim of Mr. Armour to give to Chicago one of the most complete schools of technology in the United States, if not in the world. The results have been a revelation to people who have recently visited the institute. A Sunday school with thousands of children, regular church services, and a large amount of mission work among the poor are a few of the objects attained by the institution. In its educational work the institute bids fair to take its place among the great institutions of learning in the country. Mr. Armour often visited both the institute and mission, and he never seemed happier than when witnessing the progress they were making.

T. P. A.




INTEGRAL
1901



"He studies. heaven knows where."—Harbeck.
"Up from the meadows rich with corn."—Prof. Kerr.
"Noble by birth, yet nobler by deeds."—Junior Class.
"A bunch of overworked devils."—The Integral Board.

"Rattling over bridges
Rumbling o'er the plain
The empty car sounds loudest
Of all the whole d—— train."
Prof. Freeman to the Junior Class.

"And I a waif of stormy 'C's'
A child among such men as these."—Seymour.

Why that worn and anxious face,
He grinds and grinds to keep his place."
—Postlethwaite.

"Put him in clothes and he is a perfect Miss."—Lindberg.

"Tis said he cannot think aright,
Without his friend the brier pipe."---Prof. Porter.

"Our terrible Swede."---Strohm.

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I've Got a Girl for Every Day in the Week.—Billy Matthews.
I've a Longing in My Heart for You, Louise.—Reiniger.
When Rueben Comes to Town.—Smiling Soper.
Goo Goo Eyes.—H. P. Miller.
Ikey Isenstein.—Ray Hammond.
Simply Friends.—Dean Alderson and Ellett.
Little Bunch of Whiskers.---"Mother" Haskett.

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SEE SENIOR HISTORY, p. 45

"There is no good in emiting smoke."—Haskett.

"A man who bears a girlish name
Cannot forsooth aspire to fame."
—Marion W. Briggs.

"An incipient player on the violin."—I. D. Miller.

"All kinds of arguments and questions deep."—Smith.

"Adorned with all the appearances of knowledge."—Persons

"Thou art too mild; I pray thee swear."—Lang.

"Young in years, but in experience, ages old."—Wallace.

"Our knight of the powder puff."—Benedict.

"There mightest thou behold
The great image of anthority:
A dog's obeyed in office."—Strohm.

"Gwacious Peter."—Artie Bogle.

"His dress was a volcano of silk with lava buttons."—Nyman, Ex. '04.

"A quiet lad with a goodly supply of sense in his pate."—Burney.

"A musician of no mean ability."—Bates.

"As proper a man as ever trod upon Neats leather."—Field, Ex. '02.

"I do not have to study law since I have already practiced at the bar."—Harwood.

"There is enough of me to make a man."—Parker.

"He did nothing in particular and did it well."—Lillienfeld.

"Words, words, words."—Miller.

"He was a man of unbounded stomach."—Week.

"Cheat him devil, if you can."—Larkin.

"His cardinal virtues are in his brain."—Jones, Ex. '02.

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Enter The Lady Killer

In which one sees a finish.

And it came to pass in the days of King Haldermain the 43rd that his majesty did some mifty stunts in that black art which he calls telegraphy, and had many rooms of the Palace littered up with his awesome apparatus. Now, one of the King's nobles, Harry the Horse Power, He of the brazen Jaw and Rubber Tongue, was of main curious disposition and did one time monkey with the King's apparatus. He soon made the discovery that by certain weird manipulation he could produce a series of sweet and dulcet clicks which pleased his ear most mightily. Tiring of the sport he turned away when the sounds seemed to be repeated by an invisible hand. "Lo, a marvel," quoth he, and ran to tell the discoveries he had made. His confidant, he of the Tousaled Locks, hastened to view the marvel while Sir Horse-Power told many new stunts about condensers and induction and such weird matters. Soon, however, he of the Flowing Tresses saw two small wires which ran from the apparatus into the corridor and from thence into another of the kings appartments; then the grewsome clicking ceased, and there entered the room one Hendie, he of the Pea-Green Jerkin, and when the inventor told him the tale he smiled a sickly smile, and taking the poor, deluded youth by the hand he pointed out the two magic wires and then—. But never mind; he of the Pea-Green Jerkin only smokes.

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"– – ? |||| (!!!) – – – ? ? ? ! ! ! ! – – – ? – – ! !"—Dunlap.

"Absence makes the heart grow fonder."—Larkin.

"A quart of ale is a dish for a king."—Coghill.

"All's well that ends well."—The Seniors.

"He is tow-headed, but it is not to be helped."—Anderson.

"Much may be made of a Scotchman if he be caught young."—Fairweather.

"Whose little body lodg'd a mighty mind?"—Robinson.

"With malice toward none and charity toward all."—Mrs. Beveridge.

"Who steals my purse steals trash."—Shafer.

"Beauties in vain their pretty eyes may roll at him."—Freeman.

"The loud laugh that speaks the vacant mind."—Lewis.

"I for one do venerate a petticoat."—Henderson.

"That man of loneliness and mystery,
Scarce seen to smile and seldom heard to smile."—Nachman.

"An incongruity of a society man and a student."—Baird.

"They are too green and only good for fools."—The Freshmen.

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Lamb, Lamb, Lamb.---Jimmy Barnum.

Absence makes the heart grow fonder---Ralph Albright.

Delightful Gay Paree.---J. D. Brooke.

He's More to be Pitied than Censured.---Chas. Keifer.

Precious Jewels.---Prut Strickler.

The House of Too Much Trouble. ---Harrison Street Station.

Where Did You Get That Hat.--- Harry Hart.

I Want My Money Back.---Zac Marr.

A Little Rag Doll.---Barton Sackett.

Trust Him Not, the Fortune Teller said.---Ted Walters.

Stein Song.---Too numerous to mention.

I'm Foolishly Ridiculously Innocent.---Newell Crawford.

This World is Full of Maids.--- Henderson.

The Irish Washerwomen.---Dunlap.

The Academy Girl (from the Flirt and the Franchise)—Jenny Hodge.

You Don't Keep This World From Going Round.---W. W. Hoops.

Drill Ye Terriers, Drill.---Chorus, Civil Engineering Class.

Beer, Beer, Glorious Beer.---Oratorio, Freshman Class.

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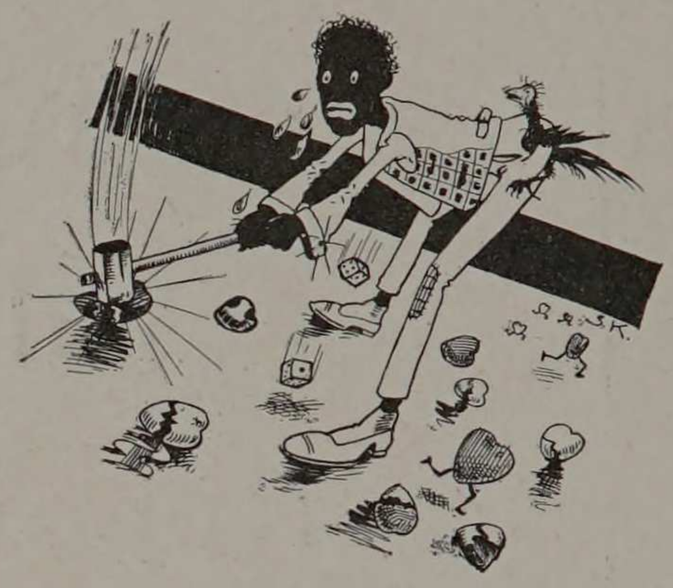
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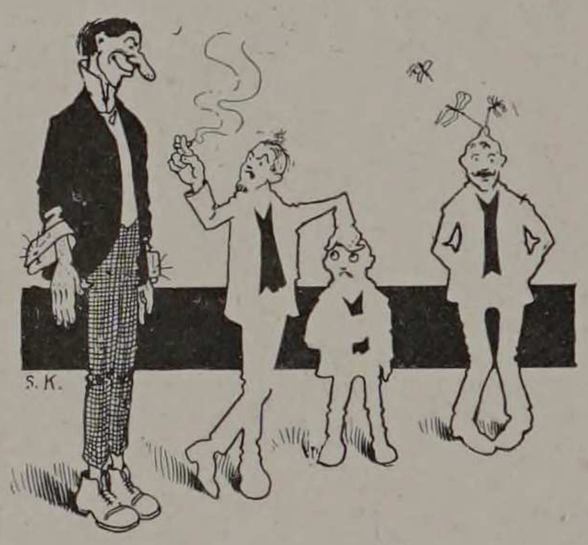
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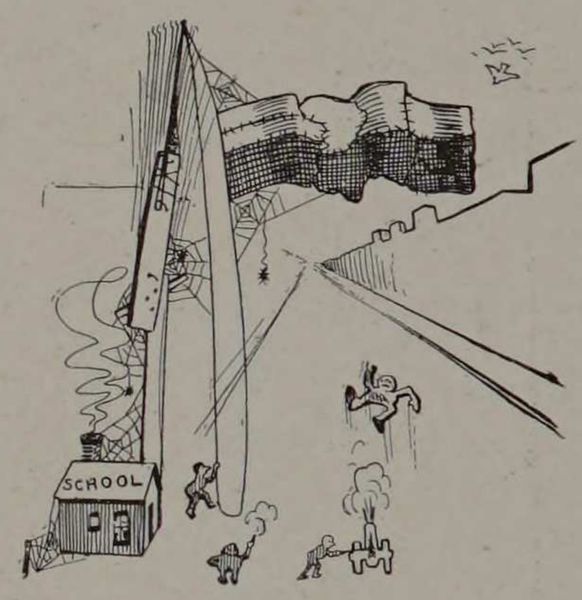
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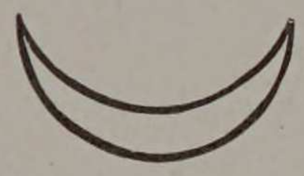
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"This gallant pins the wenches on his sleeve;
Had he been Adam he had tempted Eve."—*Shak.*

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BUT THE COPY GOT LOST. MAKE
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She never called red,
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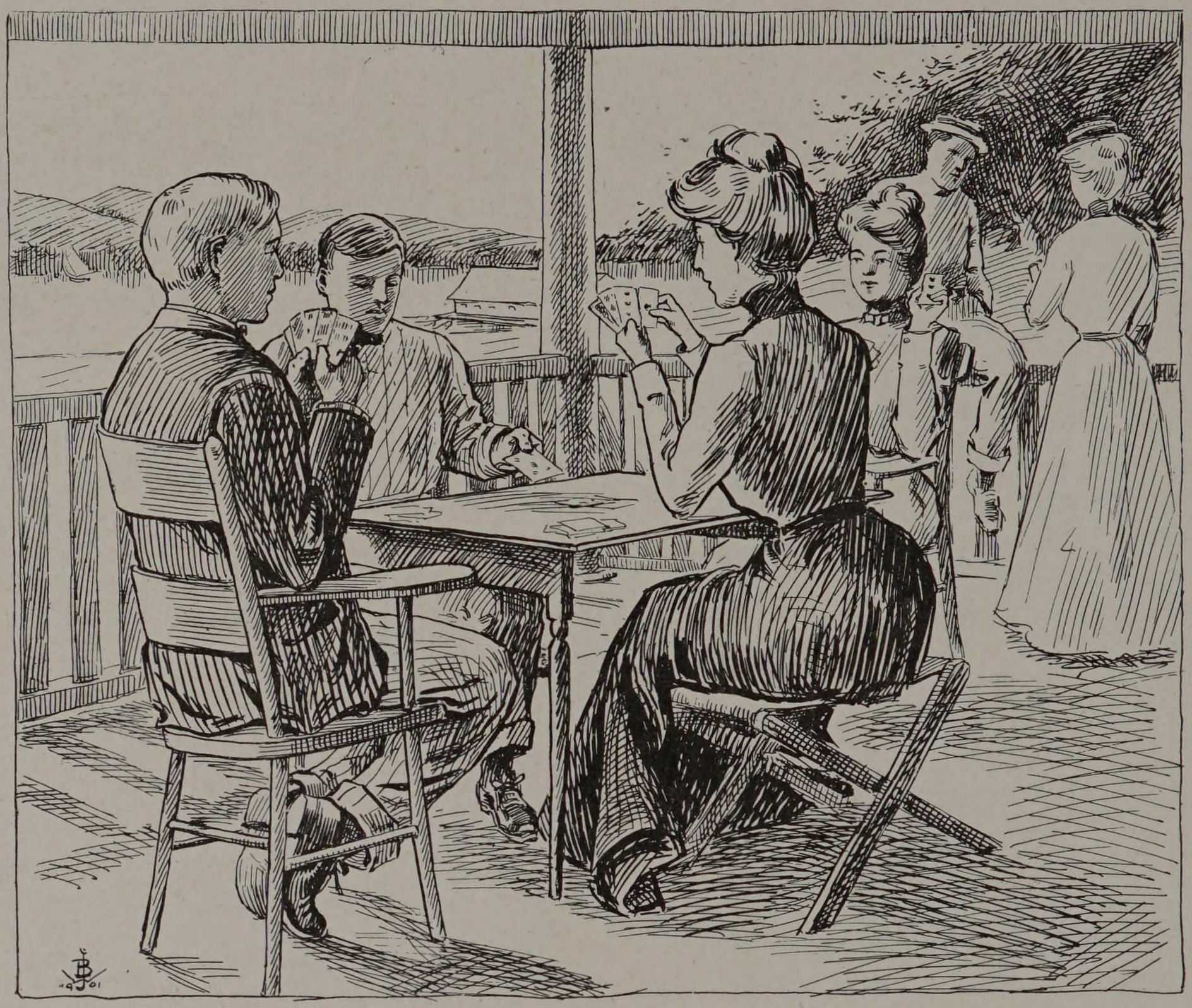
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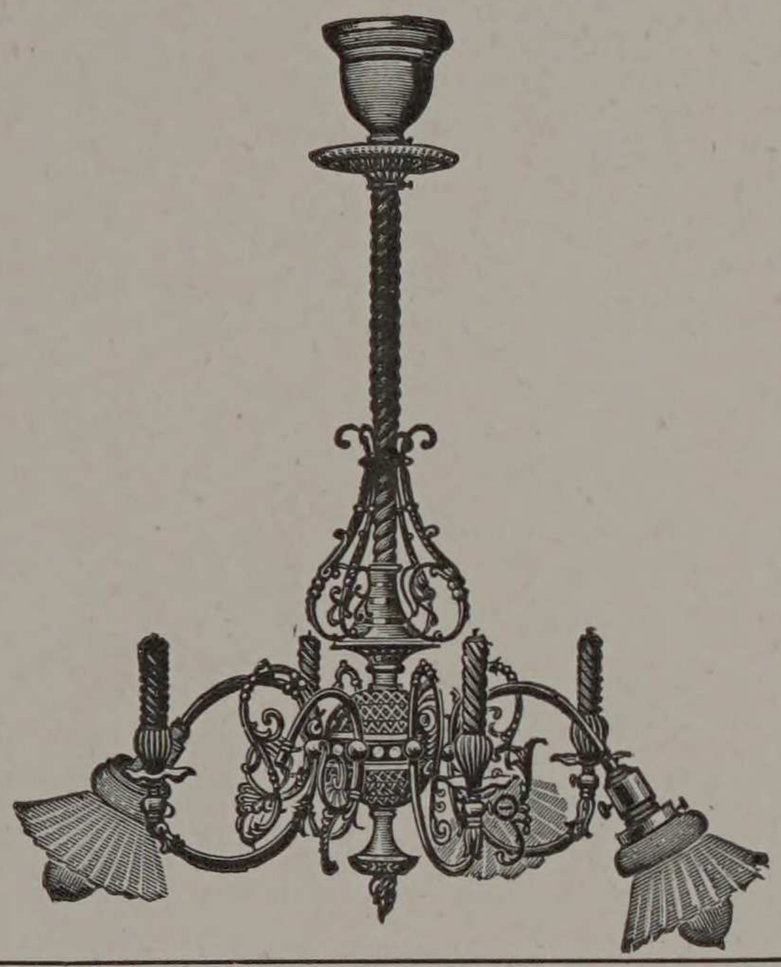
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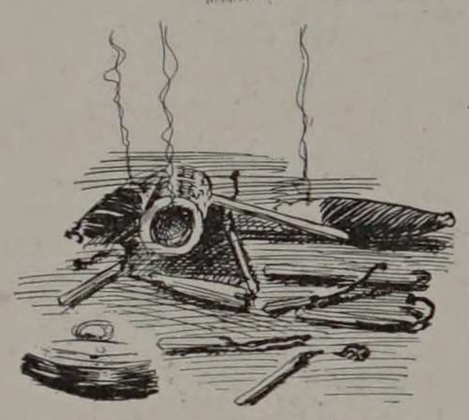
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"Ye Gods what a noise."—Mr. Strohm. Rochlitz, the heavy villian. Sketch 1

"And should I live a thousand years, I never would forget him."---Mr. Manning.

"'Long is the way and hard, that out of hell leads up to light."

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"Let satire be thy song."

---L. F. Wormser, '01.

"Staunch and true, through and through."

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"Her cheeks are like the blushing cloud."

---Miss J. Hodge, '01.

"His tongue says little, but powerful is his right arm."---C. Hermann, '01.

"I am Sir Oracle and when I open my mouth let no dog bark."---B. H. Sackett.

"There is nothing that you and I make so many mistakes about, and the world so few, as the actual amount of our own importance."---R. M. Loewenthal, '01.

[Loewenthal will please not tell the faculty.---Ed.]

'01 Give '02 a Little Blowout. Sketch 2.

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"I always wander back again."

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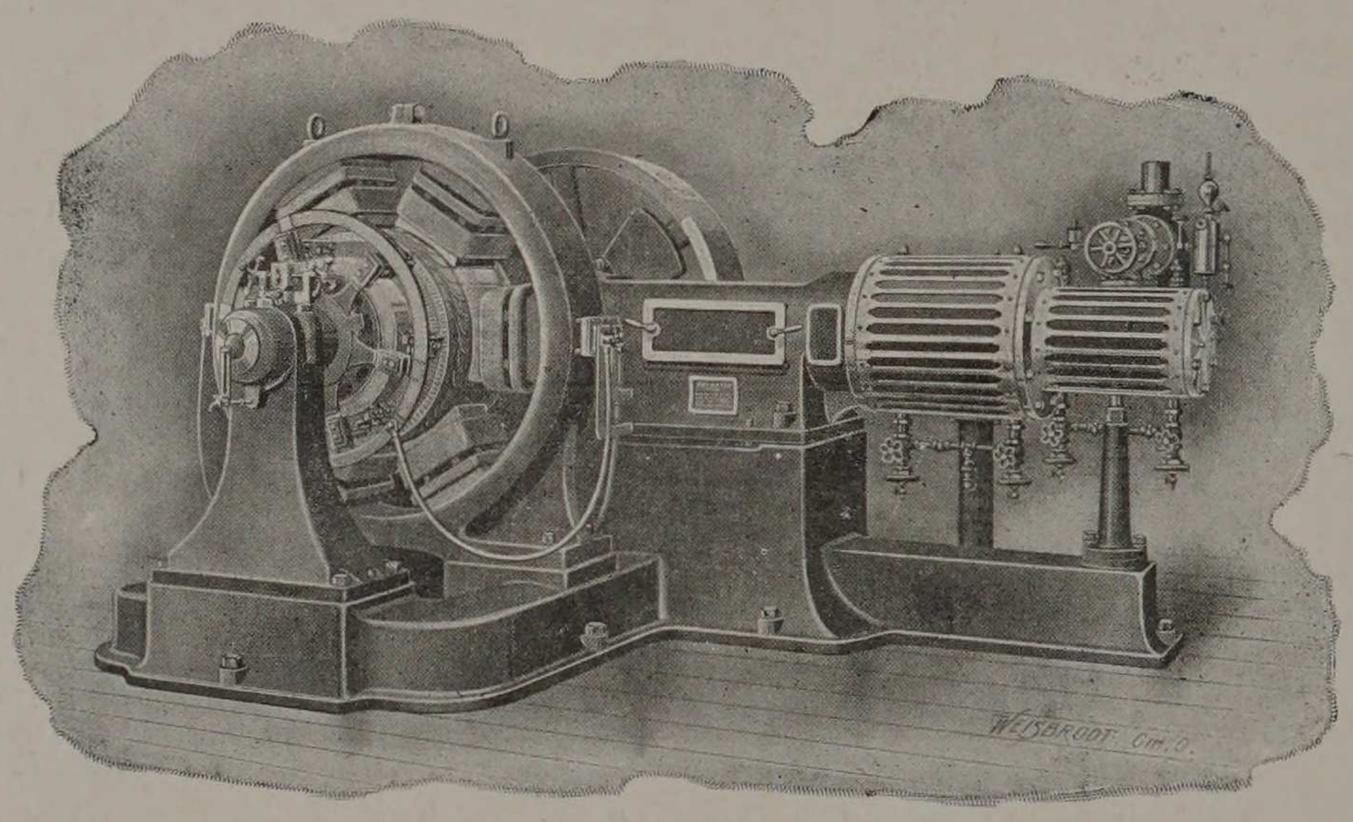
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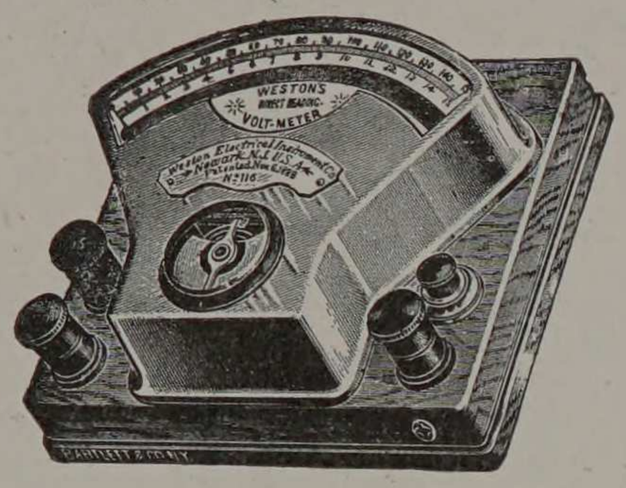


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With all its hopes of future years,
Is lying breathless at thy feet."

—The Academy.

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Of a friendship
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We have aimed at
Your pet vices—
I don't think that's
Wrong, do you?

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Is quite empty
Pluck the arrow
From your breast
And remember
In our Shooting
We aimed always
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"Clever men are good but—but—but."—Prof. Tisdel.

"That's your light way; but I would make it death for any male thing but to peep at us."

—The Girls' Academy Basket Ball Team.

"Ha, there he comes with sweat upon his brow!"

—Dr. Scherger.

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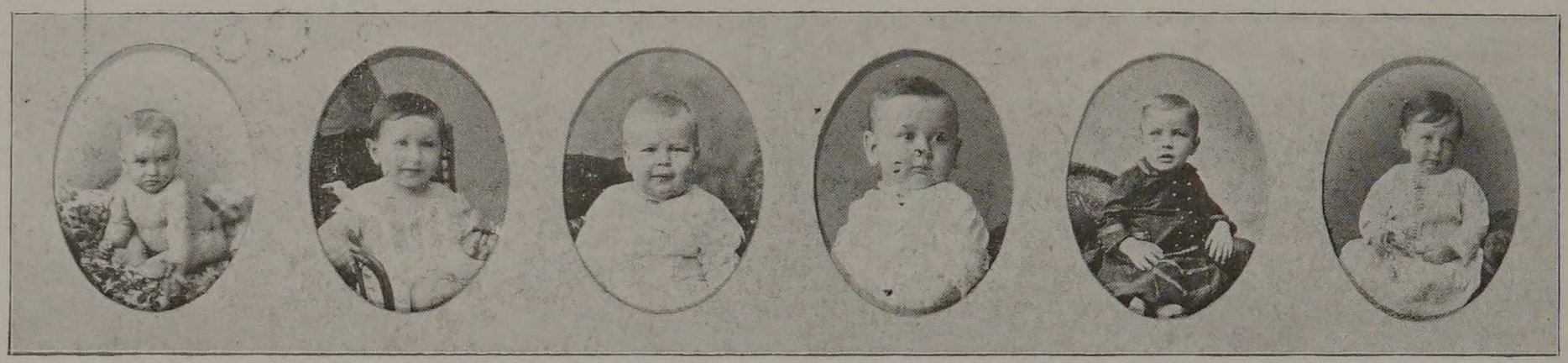
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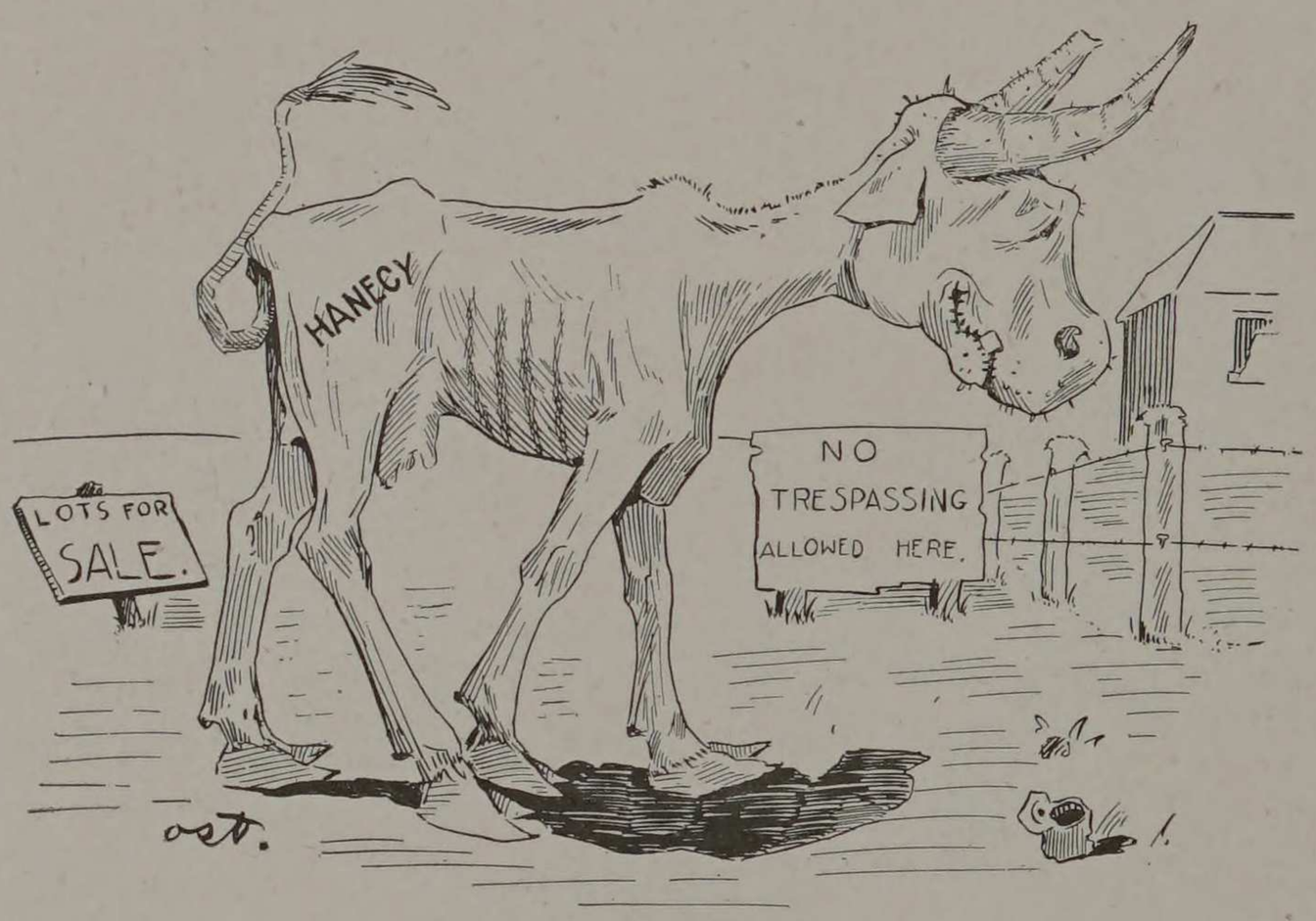
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—Miss Edna Simpson, '01.

The Laziest Junior—Moss. Sketch 1.

As You Like It, - Shakespeare.
As I like it, - - Paul.
As Paul likes it, - Ralph.

"Love thyself last."—E. P. Goldsmith,'02

"He was of that stubborn crew."
—L. L. Falk, '02.



The Sophomore Boat-Ride." Sketch 2

"Upon my word, sir, She is without an enemy."—Miss Fairlee, '02.

"Innocence is bliss."—Miss M. Wright,'02

"Some of your hurts you have cured,
And the sharpest you still have survived,
But that endless worry you endured
From 'Live Wires' which never arrived."
—Miss H. Miller, '02.



(Whose anxiety about her share in The Integral was strikingly evident.)

"Yea, rough house would do me good."
—S. Hancock, '02.

"The boy with the sleepy walk."
—N. Crawford, '02.



Before and After Taking the Y. M. C. A. Sketches 3 and 4.

"Mistress of herself, though China fall."
—Miss E. Hoops, '02.

"Well, what of him, anyhow."
—Dallas, '02.



"With rosy cheeks and curly hair."
—N. Silberberg, '02.

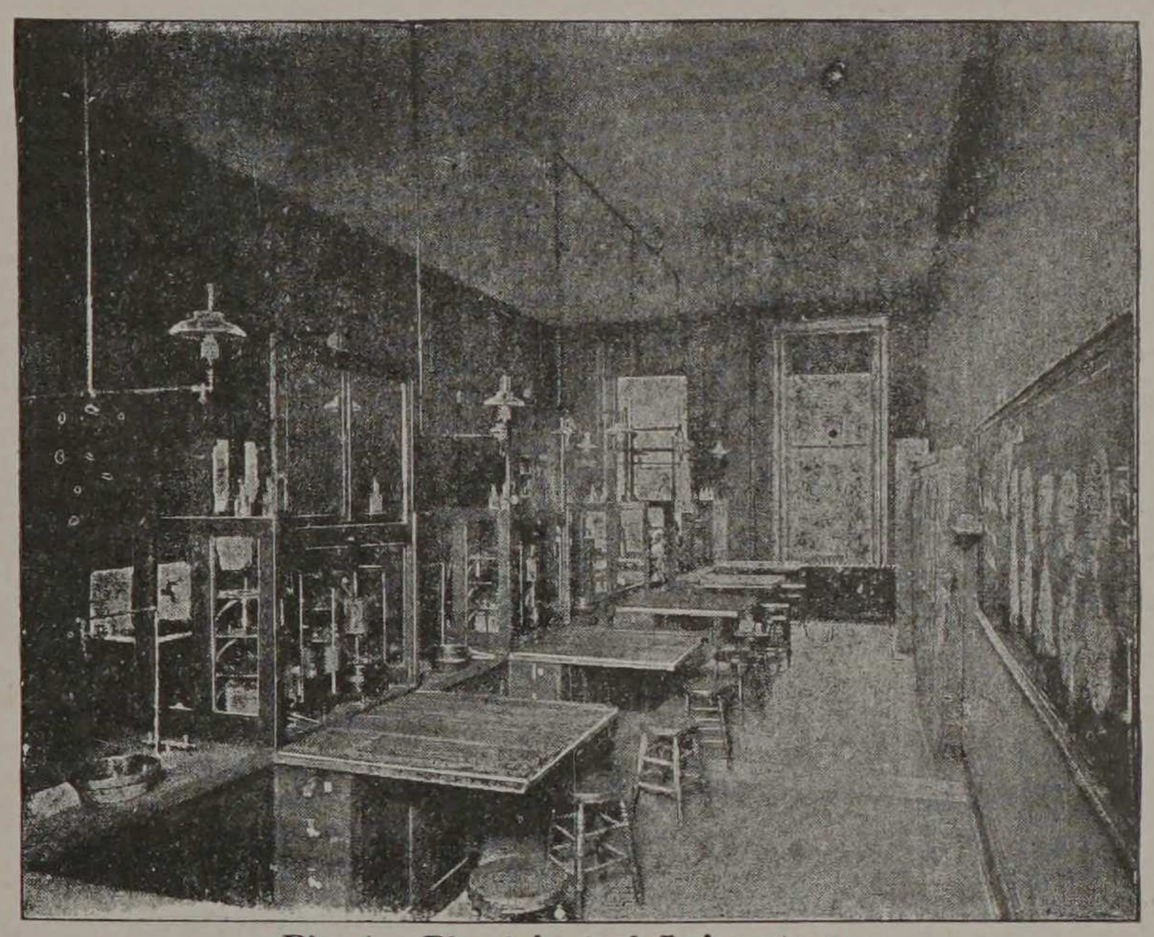
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U. S. bonds to secure circulation,		1,850,000.00
Overdrafts,		36,329.90
Real estate,		26,060.74
Due from banks and U. S. Treasurer,	$6,920,096.28	
Cash,	8,902,725.30	
		15,822,821.58
		$41,863,334.75

LIABILITIES.

Capital stock paid in,	$3,000,000.00
Surplus fund,	500,000.00
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Young man sit down and keep still; you will have plenty of chances to make a fool of yourself before you die.—Prof. Dyle Levings, instructor to Gottachalls.

If the Statue of Liberty came to life what would it be?—Living-stone, '3.

Among athletes I will rank with the rest.—O'Connor, '03.

Both of his legs are longer than they really ought to be.—S. Bodine, '03.



A Comedy Quarto.

The back and sides of a pig salted and smoked (with apologies to Webster).—Bacon, '03.

Napoleon, too, was small in size.—Honberger, '03.

I'm here to take the place of brother.--W. McArthur, J., '04.

A coming man.—A. Vail, '04.

Minds that have nothing to confer.—Class of 1904.

Jennie H—— has at last found a hero of whom she has not heard wild tales. He "gets" it in the neck.

Don't you think that he has romance---even in his hair?---Clara F.

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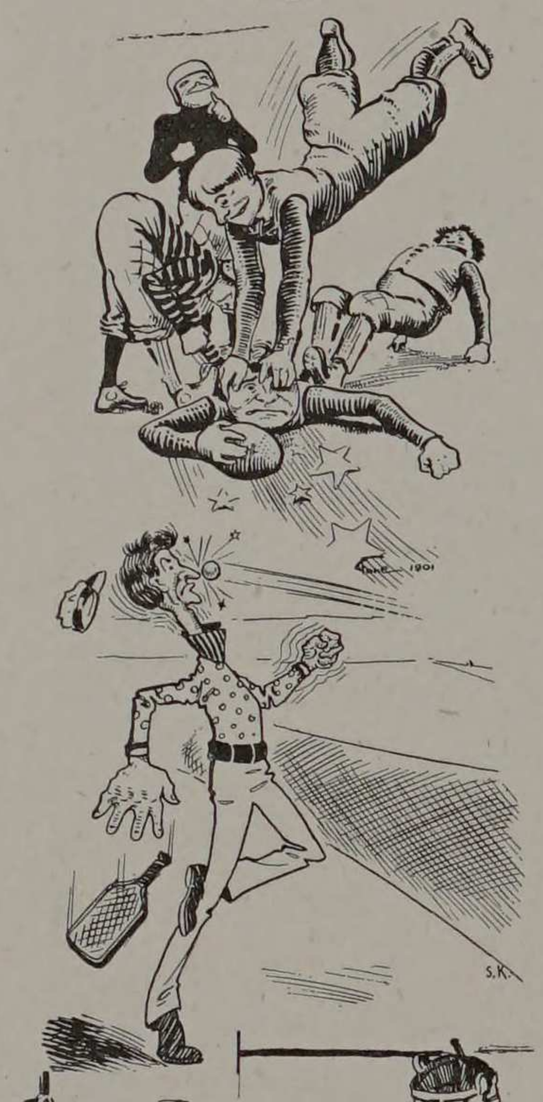
Faculty Senior Base-Ball

Sketches 1, 2 and 3



Foot-Ball with Lewis

Sketch 4



Noble Wins Tennis Tournament

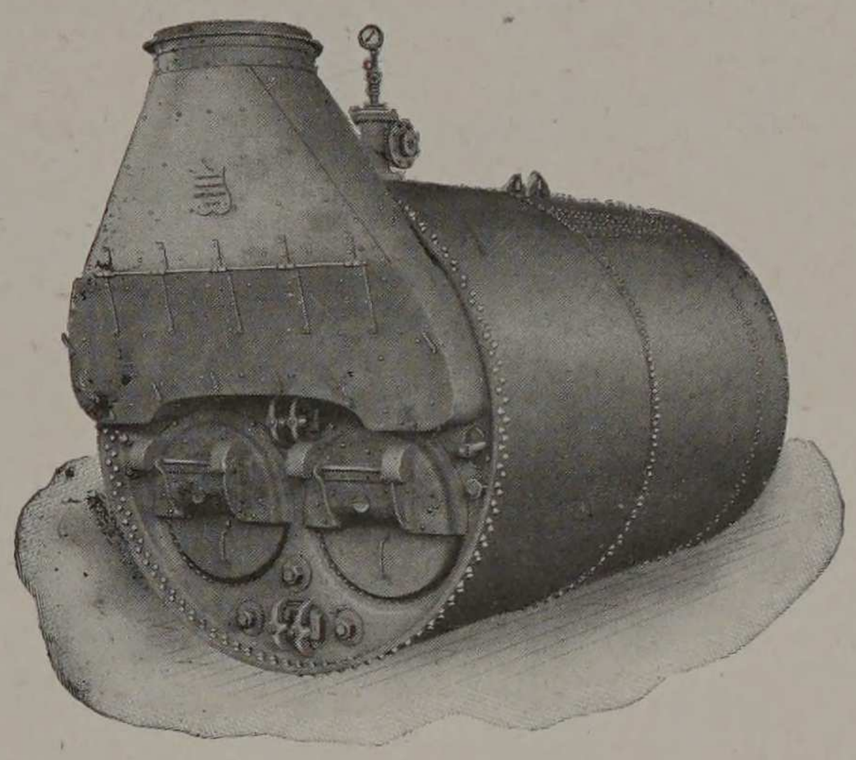
Sketch 5



No Walter at Fond du Lac

Sketch 6

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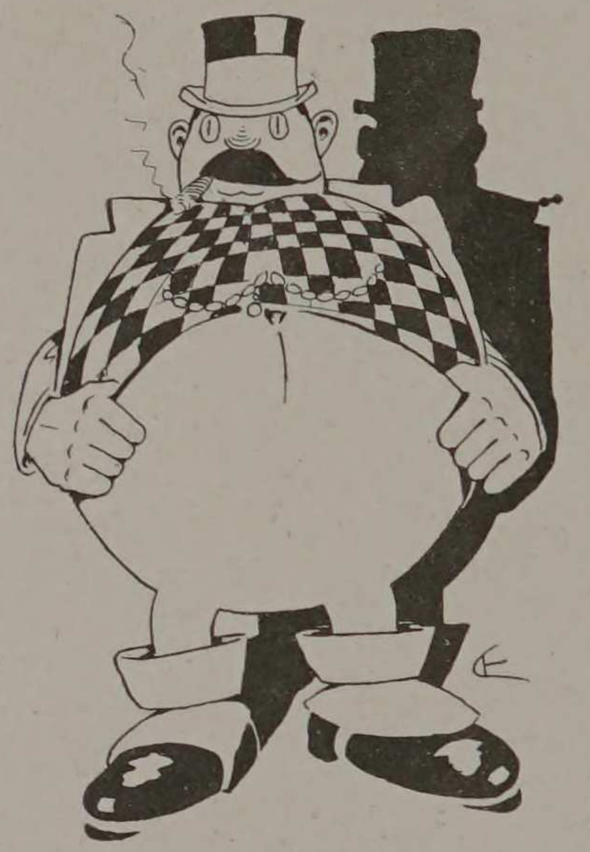
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Baker, Earl Head—Secretary of Class; Member of Executive Committee.

Bernhard, Frank Hugo—President of Class ('01); President of Technical Society.

Cohen, Louis—Member of Chess Club; Member of Technical Society; Member of Class Executive Committee.

Eustice, Charles Edward—Member of Class Executive Committee.

Lewis, Walter Irving—Manager of Basket Ball Team ('99–'01); Member of Class Athletic Teams; Member of Glee Club ('98–'01); Assistant Manager of Fulcrum ('99).

Lindberg, Fritz Albin—Member of Dramatic Club; Member of Class Executive Committee.

Miller, Walter Everett—Member Phi Kappa Sigma Fraternity; Captain Basket Ball Team ('99 and '01); Manager Basket Ball Team (1900); Member of Class Athletic Teams; President of Athletic Board ('98-1900); Captain of Foot Ball Team ('98); Member of Base Ball Team (1900).

Noble, Alden Charles—Member of Phi Kappa Sigma Fraternity, Editor of Fulcrum ('99); Editor of Integral (1900); Manager of Base Ball Team ('99); Holder of Tennis Championship ('98–'01); Captain of Tennis Team ('99–'01); Vice-President of Intercollegiate Tennis Association, 1900–'01; Member of Base Ball Team, 1900; Member of Class Athletic Teams; Director of Dramatic Club.

Pease, Francis Gladheim—Member of Glee Club; Member of Class Executive Committee.

Pierce, Charles Warner—Member of Technical Society; Member of Glee Club; Member of Orchestra.

Rochlitz, Oscar A.—Vice-President of Chess Club; Secretary of Athletic Board; Member of Dramatic Club; Member of Class Executive Committee.

Ruegnitz, Walter Raymond—President of Athletic Board, '01; Assistant Manager of Integral, 1900; Member of Class Athletic Teams; Member of Basket Ball Team; Member of Foot Ball Team; Member of Tennis Team; Member of Glee Club.

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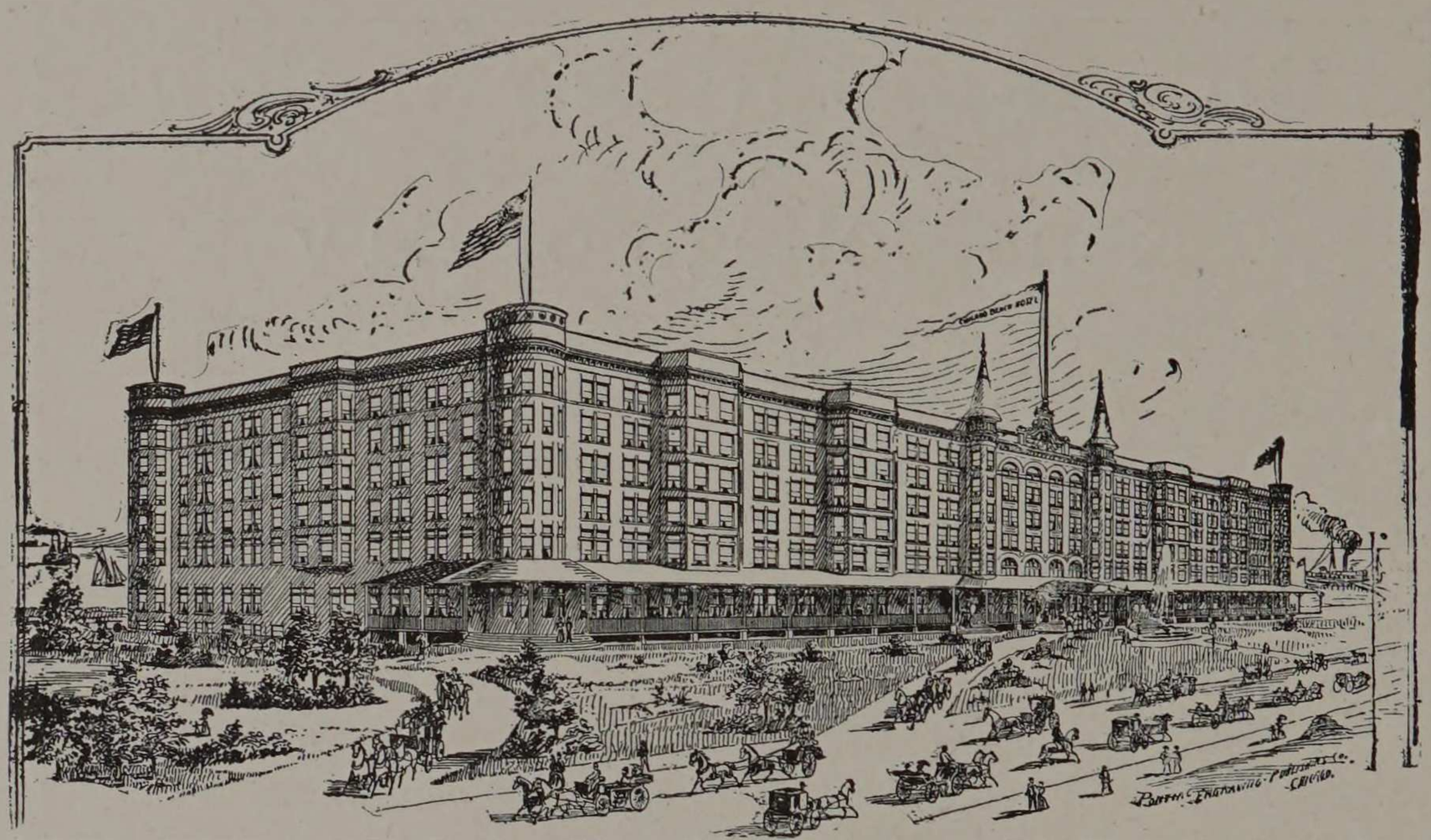
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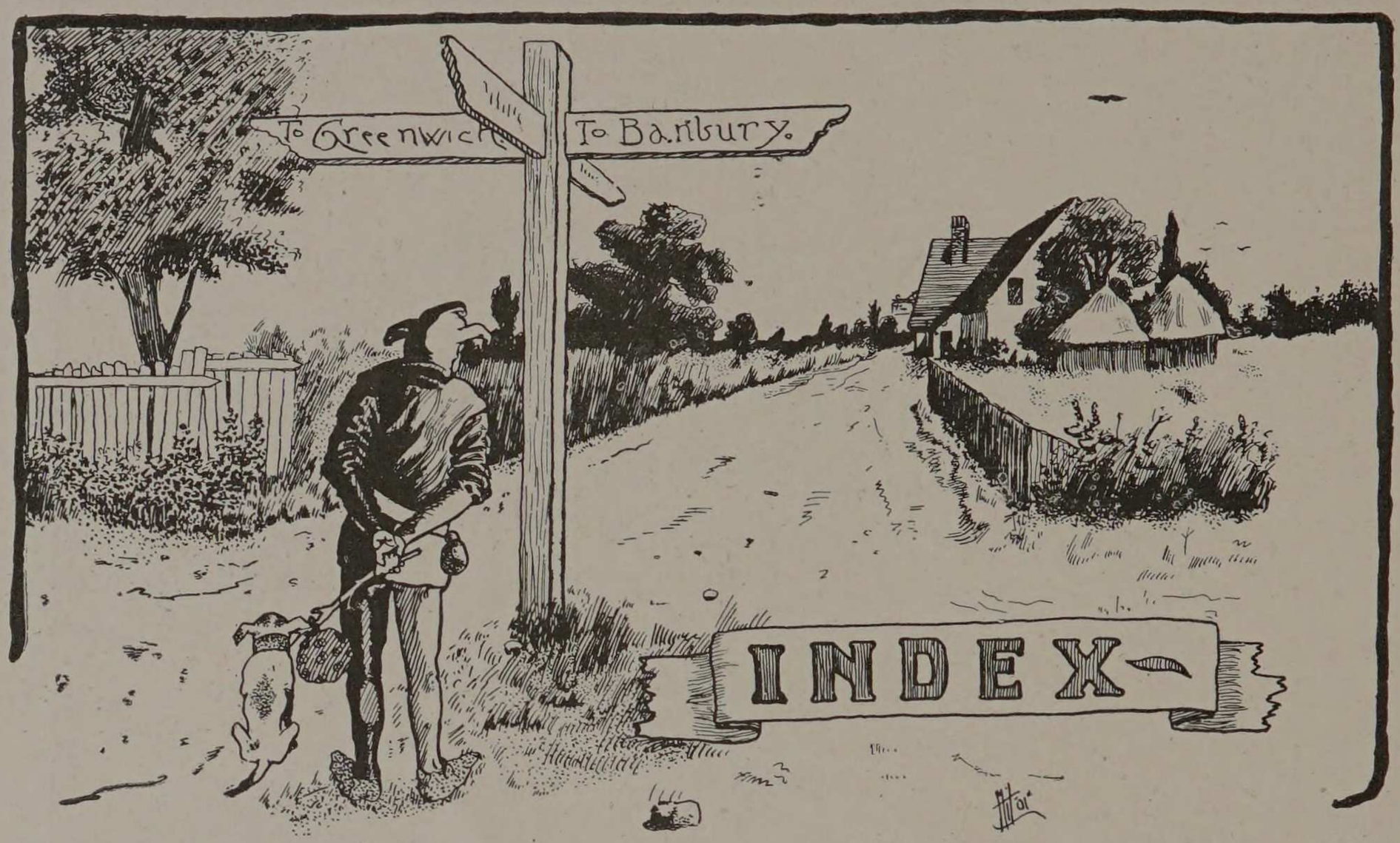
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