

THE TECH



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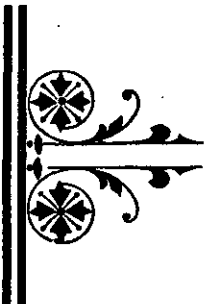
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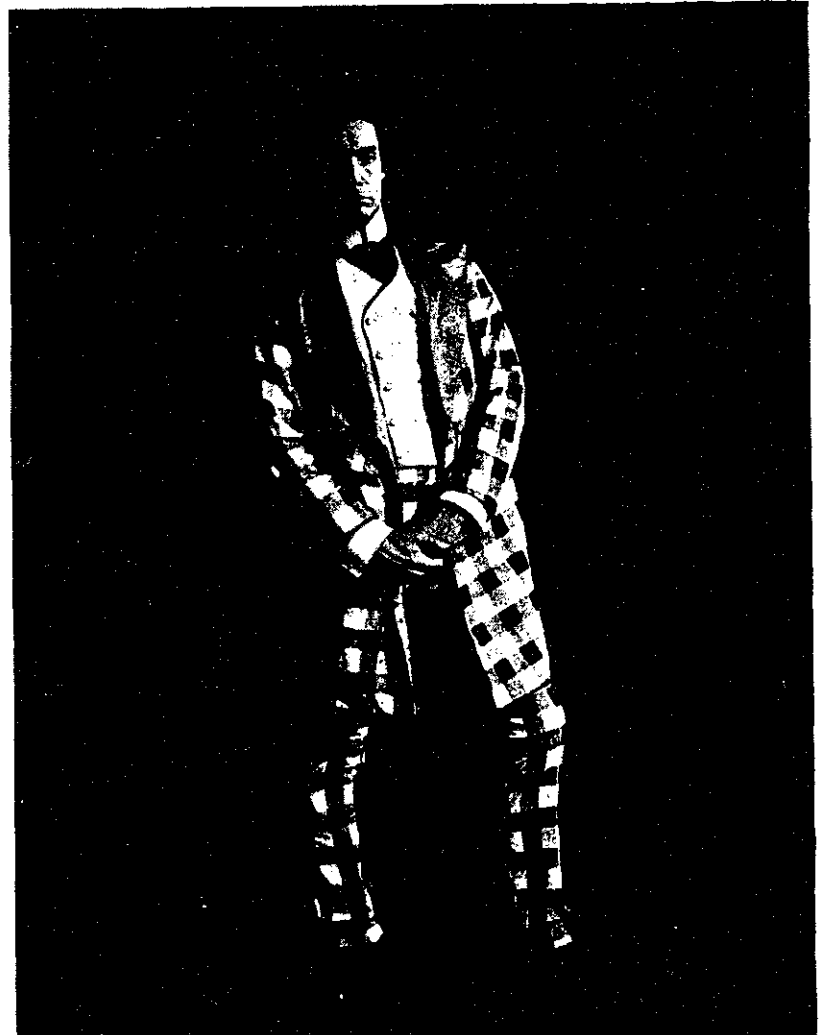
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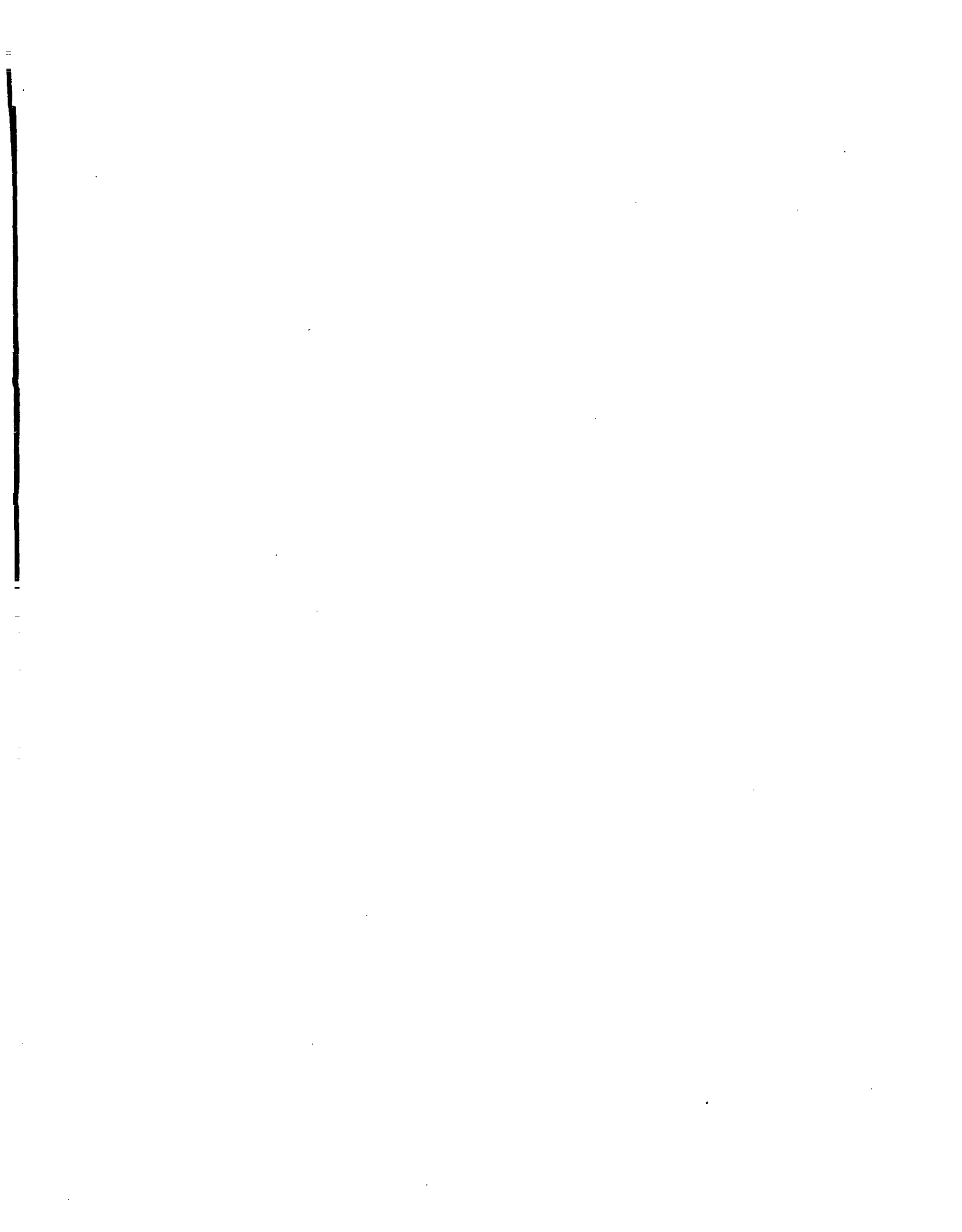
THE TECH



NAUNEE



BROWNIE AND FAIRY BALLET



THE TECH

VOL. XIX.

BOSTON, APRIL 12, 1900.

NO. 24.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

I. RAYNE ADAMS, 1902, *Editor in Chief*.
HENRY H. SAYLOR, 1902, *Assistant Editor in Chief*.
WALTER H. FARMER, 1902, *Secretary*.
STANLEY G. H. FITCH, 1900.
JOSEPH P. DRAPER, 1900.
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K. W. ENDRES, 1903.

THEODORE W. BRIGHAM, 1900, *Business Manager*.

ALBERT E. LOMBARD, 1902, } *Assistant Business Managers*.
ARTHUR SMITH MORE, 1902, }

OFFICE HOURS:

Editor in Chief, Monday, 10-11 A. M.
Business Manager, Saturday, 12-1 P. M.

For the benefit of students *THE TECH* will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

Subscription, \$2.00 per year, in advance. Single copies, 10 cts. each.

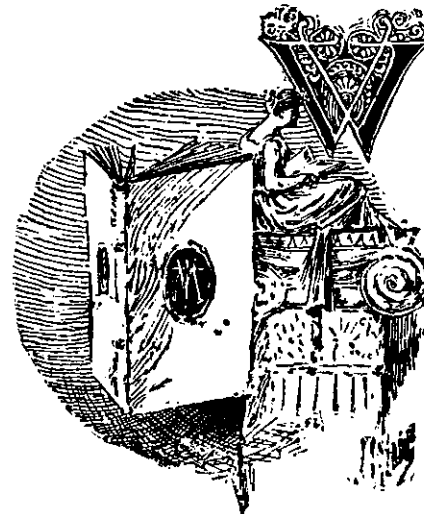
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THE TECH will publish in its next issue the initiative composition towards the realization of a Technology song. It has for many years been a standing criticism on Technology student life that it had no representative song. A movement to attain this definitely was started last year by the Glee Club, and this year the Club will present the piece at its spring concert during Junior Week. The composition

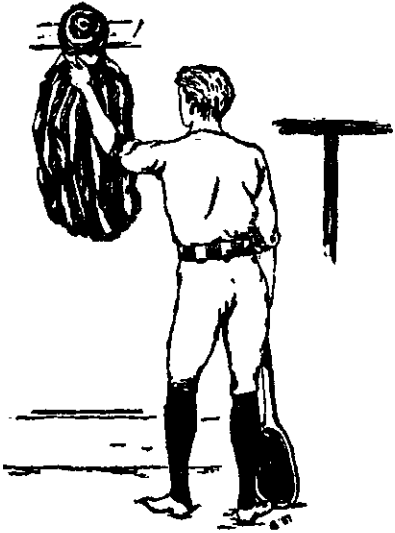
has passed through the hands of several musical critics and has been perfected to a point where it will serve not perhaps as the final and lasting Technology song, but as one which will easily stand on its own merits and be broadly appreciated for them as well as for the fact that it is the initiative in an important cause. *THE TECH* will publish next week a complete history of the song together with the words and music and we look to the undergraduate body to support the movement which has been so well started.



E hope the Sophomore class realizes that one of the most important class elections of the year takes place next week Tuesday. We refer to the election of the *Technique* Electoral Committee.

The *Technique*, which is published each year by the Junior class of the Institute, has but few equals in the country among similar yearly publications of other colleges. The standard is becoming higher each year and the *Technique* which is soon to be published by the present Junior class promises to be at least equal to any of the previous ones. Each class should profit by the experiences of the previous ones in this regard and endeavor to publish a *Technique* which surpasses each preceding one. All this goes to show that if the present Sophomore class wishes to bring out such a *Technique* next year they cannot be too careful in the selec-

tion of members of their class to have charge of this matter. There is excellent material in the class and the men having those qualifications should be elected to the Electoral Committee which, in its turn, elects the *Technique* board. Every member of the class should consider it his duty to vote, and vote as his best judgment prescribes.



THE chief event of interest in Institute athletics during the month of April will be the dual meet with Brown, which will probably be held at Providence on Saturday, April 28th. With regard to our chances in this meet, it may be said that, although a number

of last year's athletes have left the Institute, many of their places have been ably filled by new men who are showing up splendidly in practice. J. H. Clausen, a most capable trainer, has been secured, and has most sanguine hopes of turning out a winning team.

The date that has been selected for the meet is very favorable for us, being just at the close of the Junior Week festivities, and an athletic victory at that time would be most acceptable as a terminator to the social festivities of the week. Providence, too, is only a short distance from Boston, and, with the remembrance of last year's victory over Brown of 81 to 54 points, a large delegation of enthusiastic undergraduates should attend the meet and cheer for our team.

Technique 1901

Tickets Now on Sale.

The Medicine Man.

On Friday afternoon, April 6th, Technology's most pretentious effort in amateur theatricals was a striking success. The Hollis Street Theatre was literally packed with Institute men and their friends, representing Boston's best society, and the production received constant and appreciative applause. The presentation of a comic opera is a decided departure from anything that has been given by Institute men in the past, and afforded an excellent opportunity for bringing out musical talent which has heretofore been undeveloped.

The plot of the opera centres about the adventures of a Yankee pedlar, who, after being captured by a tribe of Indians, the Wallahoos, finally secures a controlling influence over their chief and is made "Medicine Man."

The development of the plot afforded excellent opportunities for the introduction of very clever hits on various members of the Faculty and of numerous chorus and ballet specialties. Of the principals in the cast, Derby as the Medicine Man, Monne Chow-chow, and Brush as Owandah were perhaps the favorites. Derby's rich bass voice, together with his acting, secured continued applause, and his rendering of his song as the deposed Medicine Man was especially good. Brush's fine tenor was deservedly appreciated and showed marked improvement over his performance in the Minstrel Show of last year. His rendering of the love song in the first act was striking. In his acting, there was considerable improvement over his work at the dress rehearsal, which was somewhat stiff. Driscoll as Muchash was quite acceptable. His acting was conscientious and careful and his singing, though in the first song lacking somewhat in volume, was otherwise uniformly good. Merrick's interpretation of the part

'01; William H. Haskell Moise, '03; Hiram Fred Peaslee, '03; Maurice Goldenburg '02; and Oliver Porter Scudder, '03.

GHOST DANCE.

Milton Weston Hall, '00; Charles Galloupe Mixer, '02; William Jason Mixer, '02; Jas. Lockerman Taylor, Jr., '02; Francis Blair Driscoll, '01; Arthur Gunderson Hayden, '01; Charles Emmet McCarthy, '02; and Roland Ball Pendergast, '02.

SOLO DANCES.

Lewis Emery, 3d, '00, and Allan Winter Rowe, '01.

PAS A DEUX.

Mortimer Bristol Foster, '01, and Paul Hansen, '02.

CORPS DE BALLET.

Leslie Walker Miller, '01; John Fredk. McGann, '01; Edmond Francis Brigham, '00; Harold Arthur Everett, '02; Williard Vaughan Morse, '02; Lawrence Hargreave Lee, '03; Herbert Milton MacMaster, '00; Edwin Francis Albright, '03; Walter Philip Regestein, '03; Ralph Stoodley Loring, '01; Elmer Merrill Hervey, '02; Guy Crosby Peterson, '01; Anthony Winfred Peters, '01; Chas. Augustus Barton, Jr., '00; James Edmund Barker, '00; James Finton Doran, '03; George Babcock Wood, '03; Andrew Elliot Ritchie, '91; George William Bateman, '03; Philip Wyatt Moore, '01; Chas. Ozro Egerton, '03; Gyula Bennett Mason, '03; Stanley Alfred Foster, '03, and William Whipple, '01.

CHORUS; BRAVES.

F. N. Fowler, '02; I. C. Weeks, '00; S. L. Wonsion, '02; W. C. Appleton, '01; J. B. Finnigan, '03; G. F. Loughlin, '03; A. S. Martin, '03; M. Brodie, '02; W. F. Davidson, '01; W. N. Brown, '02; H. W. Maxson, '01; R. W. Eaton, '03; L. B. Gould, '03; E. F. Church, Jr., '01; P. L. Crittenden, '01; A. P. Hall, '02; W. Wellman, '02; G. R. Gaenslen, '03; H. H. Howe, '00; H. W. M. Storer, '03; A. Gardner, '02; G. H. Gleason, '03; R. B. Williams, '03; C. H. Boardman, Jr., '02; A. F. Bennett, '03, and F. W. Witherell, '00.

SQUAWS.

J. R. Marvin, '02; H. H. Sullivan, '00; A. P. Baker, '03; W. M. Drury, '03; G. F. Ashley, '00; E. L. Upham, '02; H. G. Harris, '03; C. Boardman, '02; N. E. Borden, '02; J. S. Bronson, '01; P. R. Brooks, '00, and F. W. McIntyre, '01.

The show was given under the following management:

Milton Weston Hall, 1900, Business Manager; Allan Winter Rowe, 1901, Director of Stage Arrangements; Ray Murray, 1901, Ticket Agent; Henry Hodgman Saylor, 1902, Assistant Business Manager; James Bradford Laws, 1901, Assistant Director of

Stage Arrangements; and Charles Walter Corbett, Jr., 1901, Press Agent.

The patronesses were:

Mrs. Roger Wolcott, Mrs. Julia Ward Howe, Professor John D. Runkle, Mrs. Louise Chandler Moulton, Prof. and Mrs. Charles R. Cross, Mrs. Oliver Ames, Prof. and Mrs. Henry P. Talbot, Mr. and Mrs. J. Montgomery Sears, Prof. and Mrs. William T. Sedgwick, Mr. and Mrs. W. F. Apthrop, Mr. and Mrs. Henry Austin Clapp, Prof. and Mrs. Francis W. Chandler, Dr. and Mrs. John P. Sutherland, Mr. and Mrs. Frederick P. Vinton, Prof. and Mrs. William H. Niles, Dr. and Mrs. Samuel J. Mixer, Prof. Arlo Bates, Mr. and Mrs. C. P. Curtis, Dr. and Mrs. D. W. Cheever, Prof. and Mrs. Gaetano Lanza, Mr. and Mrs. Samuel Cabot, Prof. and Mrs. George F. Swain, Prof. and Mrs. Dwight Porter, Mr. F. J. Stimson, Mr. Amory A. Lawrence, Mr. and Mrs. W. B. Kehew, Mr. Alfred Hemenway, Mr. Charles Follen Adams, Mr. and Mrs. H. Staples Potter, Mr. and Mrs. A. Lawrence Rotch, Mr. and Mrs. Arthur Foote, and Prof. and Mrs. Desire Despradelle.

F. B. A. Election.

In the election held on Monday, April 9th, for officers of the Football Association, for the coming year, the following men were elected: President, P. G. L. Hilkin, '01; Vice-Pres. H. P. Macdonald, '01; Secretary-treasurer, R. V. Brown, '02; Representative to the Advisory Council, H. W. Maxson, '01; members of Executive Committee, R. M. Derby and R. H. Glover tied for the class of '01, H. B. Pond, '02 and H. W. M. Storer, '03. THE TECH next week will give the decision, if any is made, in regard to the tie between Messrs. Derby and Glover.

Special Number of The Tech.

The present number of THE TECH is issued as a souvenir of the comic opera, "The Medicine Man," produced by the undergraduates last Friday at the Hollis Street Theatre. As such it contains, in addition to a complete account of last Friday's performance, several pictures of the principals and of notable features of the show. Thanks are due to the management for their kindness in allowing us the use of the cuts in their possession.

Senior Theses.

COURSE III.

- R. H. Clary. "A study in fine concentration."
 E. North, 2d. "Metallography of lead, silver and gold amalgams."
 H. C. Norris. "Percolation vs. Agitation in cyanide practice."
 A. C. Plant, Jr. "Concentration of a Chalcopyrite in quartz, with a view to obtaining self-fluxing concentrates."
 F. W. Littlefield. "Stamp mill run on Nova Scotia gold ore." With H. C. Plummer.
 H. C. Plummer. "Concentration of a Nova Scotia gold ore and cyanide and chlorination treatment of products."
 F. C. Lincoln. "A comparison of the work of the Frue Vanner, the Embrey Vanner and the Wilfley Table upon a Nova Scotia gold ore."
 Stephen Badlam. "The heat treatment of low carbon steel."
 James H. Bacheller. "The recovery of gold values from low per cent cyanide solutions by the Siemens-Halske process."
 William A. Dorey. "Heat of decomposition of metallic sulphates." With R. P. Roberts.
 Ralph Root. "Copper blast furnace run."

COURSE IV.

- Frank M. Riley. "Design of a city house or a triangular corner lot."
 Bertram C. Hopeman. "Structural design of an auditorium."
 Lewis Stewart. "A city house on a lot in a block thirty by one hundred feet."
 Frederick W. Southworth. "Bank for a city of six thousand inhabitants."
 Paul L. Price. "A study of the structural design of a small museum from a plan, elevation and section by Mr. G. B. Ford." With Chas. H. Stratton.
 Walter C. Chaffee. "Work of a modern fire-proof office building."
 W. G. Pigeon. "A City Hall for a small city."
 C. H. Stratton. "A study of the construction of a small museum, including steel work, masonry, foundation, heating and ventilation." With Leon Price.
 W. L. Rapp. "A Governor's mansion."
 C. E. Sherman. "Sea-side Villa."
 Percival Clow. "The structural work of a modern office building." With W. H. Chaffee.
 W. R. Kattelle. "A design for a country Court-house."
 L. M. Lawrence. "A design for a small theatre of a city of 25,000 inhabitants."
 C. Van Merrick. "A chapter house for a Greek letter fraternity."
 H. L. Walker. "A design for a modern 16-story office building."

COURSE VI.

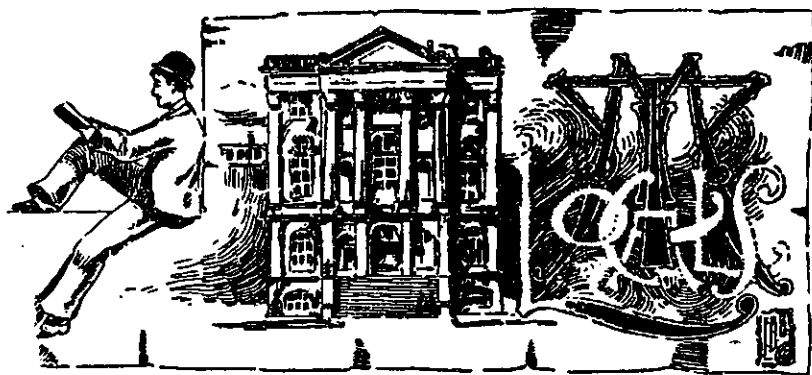
- F. N. Conant. "Special tests on Portland Poly-phase electric power and light plant."
 S. I. Smith. "Investigation of storage batteries."
 L. S. Keith. "Wave Form determination of Institute electric light plant at Trinity Place."
 Tomakichi Huokawa. "Current Carrying capacity of aluminum wires."
 Robert S. Blair. "Test of two direct-connected three-wire dynamos."
 C. Howard Hapgood. "The limiting points of harmful resonance on an alternating current circuit."
 Robert M. Hopkins. "Wave forms of a phasing transformer."
 Walter C. Dean. "Conditions of minor resonance in the 10,000 volt plant at Portland." With three other men.
 William R. Collier. "Test on electric automobile."
 Charles A. Barton, Jr. "Measurement of energy on three-phase alternating current circuits."
 James E. Barker. "Efficiency test of two direct connected three-wire dynamos."
 Clarence C. Brown. "Wave form of phasing transformer. With R. M. Hopkins."
 E. G. Gallagher. "Harmonic analysis of alternating current wave forms."
 S. M. Hall. "Investigations of storage batteries."
 Mortimer Silverman. "Induction motors for stroboscopic study of alternating arc lights."

Report of Manager M. I. T. F. B. A. for Season of 1899.

Cash from Treasurer	\$268.50
Cash from Guarantees	405.00
Cash from subscriptions	5.12
Cash from 1902-1903 Cane Rush,	129.20
	<hr/>
	\$807.82
Cash to Treasurer	\$443.33
R. R. fares	290.07
Barges and street-car fares	22.70
Telegrams and postage	2.25
Repairing shoes.	3.00
Meals	21.60
Printing	10.25
Incidentals	4.50
Loss Boston College game	4.00
Loss Tufts College game	1.00
	<hr/>
	\$802.70
Balance on hand,	\$5.12

The following is the Manager's Report for the Football Season of 1899.

Respectfully submitted,
 W. R. COLLIER, *Mgr.*



Application for tickets for "The Miser," to be given on April 25th, are to be had at the "Cage."

As Patriot's Day comes on Thursday next week, THE TECH will be issued on Wednesday, April 18th.

The Class of '98 held an informal reunion at the Technology Club on March 20th. Thirty-one members of the class were present.

At a meeting of the Boston Society for Medical Improvements, held last Wednesday evening, Professor Edward F. Miller gave an explanation of a chair devised for use in the public schools to meet more exactly than those now in use the anatomical requirements of the body.

G. N. Calkins, M. I. T., '90, now instructor in Zoology at Columbia University, will lecture on the "Beginnings of Sex" on Thursday, April 12th at 4 P. M. in the Institute Biological Department. On Friday, April 13th, he will lecture on "Sporozoa" in the same department.

Tickets are ready for the Junior Prom., and may be obtained from the committee. Many of those who are to go have already nearly filled their cards. The Prom. Committee consists of V. F. Holmes, W. W. Whipple, W. T. Aldrich, Jr., C. W. Adams, W. I. Bickford and N. L. Danforth.

All students wishing to take target practice on Saturday afternoons should hand their names to either J. S. Bridges or R. M. Lawton. The government allows each student a certain number of cartridges and the

Institute hires the ranges. Lieut. Hamilton has expressed his willingness to make the requisition for the cartridges and to see about getting the ranges if the students show any desire to have the practice.

The Architectural Department has recently come into possession of a fine lot of casts through the courtesy of Messrs. John Evans & Co., the well known architectural modelers. Among them are thirteen of the horse metopes from the Parthenon. Each one is about four feet square, and they are to be placed in a continuous frieze along the south wall of the great studio room, adding greatly to its effective furnishing. Messrs. Evans, Wentworth and Goodhue, architects, have given us a slightly reduced copy of the order of the Erectheum, also by Mr. Evans, and as soon as the base of the column is completed the entire order will be set up, an unrivalled monument of Greek work which we are exceedingly fortunate to possess. Mr. Evans has besides given us many choice examples of modern work in which can be studied the skilful use of precedent, in the adaptation to modern conditions, of the masterpieces of the olden times. The department is to be congratulated on its good fortune.

Calendar.

Thursday, April 12th. — Technology Club Smoke Talk. Speaker, Mr. C. F. Atkins. Lecture by R. B. Davis, C. E., before the Civil Engineering Society, on "Elevated Railroads," 4.15 P. M.

Friday, April 13th. — Sale of seats for Spring Concert of Musical Clubs. Annual election of officers of the M. I. T. A. A. Room 11, Rogers Building. Meeting of the Mining Engineering Society. 4.15 P. M. Address by Prof. Richards before the Mining Engineering Society on the "Development of John Cummings' Laboratory." Room 26. Rogers Building. 4.15 P. M.

Saturday, April 14. — Cross Country Run. Leave Gym. at 2.30 P. M.

Tuesday, April 17th. — *Technique* Electoral Committee election.

Tuesday, April 24. — Glee Club Spring Concert. Paul Revere Hall.

Wednesday, April 25. — Walker Club Play, "The Miser." Copley Hall.

Wednesday, April 25th. — *Technique* issued.

Thursday, April 26. — Junior Promenade.

Friday, April 27. — TECH Tea, TECH office.

Saturday, May 5. — Annual Dinner Chauncy Hall Club.



At the regular meeting of the Institute Committee, on March 29th, Thatcher, '01, was elected to the office of Custodian of the Trophy Room, to fill the place of H. D. Jouett, '00, resigned.

J. B. Driscoll, '02, is a very promising candidate for the bicycle squad. He has been a professional, but has been restored to the amateur ranks and so is able to ride for Tech. this spring. While riding with the professionals he has taken part in many of the large-paced races held at Charles River Park and has steered the pacing machines of McDuffee and other prominent racers.

The Advisory Council recently granted an emblem to the Hare and Hounds Club. The conditions are that if the club holds at least six runs and a championship run each year, the runs being over five miles in length, the members who finish within two minutes of the first hound on three quarters of the runs and the winners of places in the championship run will be allowed to wear a T. H. H. The monogram is to be similar to the T. A. A. now given to winners of firsts in the class and indoor meets. If the club holds a championship run this spring the winners will be eligible for the emblem.

The Hare and Hounds Club held its eighth run of the season from Chestnut Hill Reservoir last Saturday. G. B. Manson, '03, and J. S. Joseph, '03, were the hares and laid a good trail of six and a half miles. The chase led up the Circuit R. R. track beyond Chestnut Hill Station and off through

the woods to the south to the Theological Seminary, returning through Newton Centre to the boulevard, and wound up with a circuit of the reservoir. Captain Stockman, '01, was the first hound in, with C. F. Greene, '03, second. The weather was perfect for running and the pace the fastest of any run this year.

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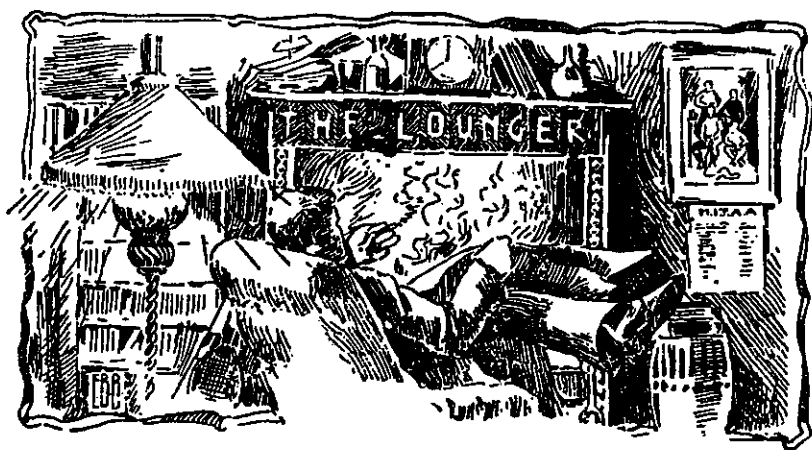


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THE LOUNGER pleads guilty. He did it; not only paid his two dollars, but also went. He confesses to his cigar, now that it is all over and danger of discovery is less imminent, that he found the show really interesting. It was unique. THE LOUNGER once had the idea that he had been to the theatre enough to know a comic opera when he saw one; but last Friday undeceived him on that score. Never before had he seen a really *comic* opera. There was something startlingly original about this performance that put all gross competitors far in the shade of mediocrity. It was, for example, a deliciously humorous idea, that of having the Indian camping ground located in the middle of a modern thoroughfare. Fortunately, no trolley cars passed during the performance, though the next best thing did occur when the Scotch Yankee appeared, pushing along his automobile. Another happy thought was the plentiful supply of portable stage furniture of the projectile variety. There was also a profusion of properties known as "supers," but these, unfortunately, were not subjected like the rest to the projectile treatment. The jokes of the performance lacked originality, though their selection from last year's *Technique* was on the whole carefully done. The conversations were unique, being similar to the debates in a 1903 class meeting. The dialogues between the principals of the cast and the leader of the orchestra, were the most humorous of all, but they were unfortunately delivered too low for the body of the house to hear.

There was, however, one good joke; but this was very properly drowned by an anticipatory outburst from the audience. A little better management might have been shown in the case of one of the gags, however; as it was, the Professor who was concerned had to wait through almost three-quarters of the performance before the crime was committed. It would have been a great saving of time and suspense could it have been sprung in the beginning. It was something pathetic to see the look of disappointed relief on this instructor's countenance as he rose shortly after, and discreetly left for fresher fields and pastures new. The joke of the afternoon, however, was the programs. The programs were intended to be souvenirs. They proved to be such, with a ven-

geance. Many little marks of remembrance were left by them on the collars and cuffs, and gloves and handkerchiefs of the interested readers. Scanty numbers were compensated by an automatic distribution of the souvenir portions over the garments of the people. The text of the programs was arranged à la Lyceum, and was conspicuous by its modest and retiring tendency in regard to being easily seen. On the whole, the booklets were rather more Souvenir than Program. It was a neat idea to have the totem of the tribe, the moving spirit and general high muck-a-muck, so skillfully concealed from sight of the most of the audience; it carried out the analogy to the Secretary most appropriately. The abundant variety of scenery was a constant delight, especially the dazzling alterations in the background between the macadamized boulevard, previously referred to, and a large strip of shiney black window-curtain. In regard to the special features, THE LOUNGER has only praise to bestow. To be sure, the features—even the special features—of the members of the ballet were not patterned after the style of Madame Yale, but it was hopeless to struggle against the inevitable. Especial praise is due the Chief's daughter for her excellent imitation of a person singing. As regards the Yankee, who was dressed in a costume parody of the late J. Caesar's pajamas, and had grown a beard since having his picture taken, mention should be made of his effectual method of popularizing certain M. I. T. text-books to which popularity had until then been unknown. His duel was painfully like a cross between a Phys. Lab. experiment and a Sanitary Science demonstration, but while these were well done, THE LOUNGER wishes also to comment on the enterprise of the Business Manager in securing an option on the travelling sign-board for displaying sundry good advice in regard to THE TECH. With such backing, it is no wonder that the Yankee bluffed the show with the success customary in a recitation in "Applied." The ghost dance was, as the Institute Poet has it, "natural and human;" a little too human, indeed; for the ghosts resembled most nearly a group of Seniors emerging from an exam. in Hydraulics. The ballet was costumed in a variety of color combinations, reminding THE LOUNGER of the appearance of his first F. F. in Physics. They resembled the coed ballet of "Charlie's Aunt," and in other ways were successfully inimitable. The whole show was replete with surprises of the kind which THE LOUNGER has been accustomed to take regularly twice a year in connection with his "mid-years" and "semies;" but these of the show surpassed by far those of more lasting remembrance. Yet in general the performers must have done very well, for the critical occupant of the left-hand box appeared to be pleased with them, and if he was pleased, so it is surely quite needless to say, was THE LOUNGER.

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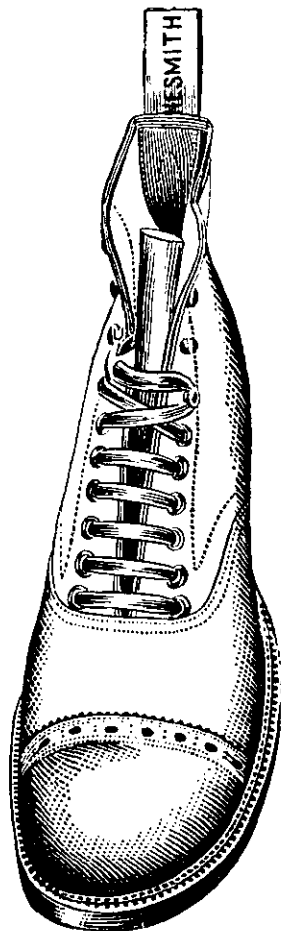
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Tremont Theatre. — Francis Wilson will begin his annual engagement at the Tremont, during which he will present "Cyrano de Bergerac," the new comic opera constructed and composed for him by Harry B. Smith and Victor Herbert, in which the unique comedian has met with the greatest success of his career as a fun-maker.

Hollis Street Theatre. — "Miss Hobbs" will appear for the last week of its engagement in Boston commencing next Monday. Miss Russell's thorough success in this play is well established and she could continue playing this piece to crowded houses the

rest of the season, so popular is the piece.

Boston Museum. — "The Singing Girl," with Alice Nielson in the title role, will be presented for the first time in Boston. This play is considered to be admirable in both plot and music. This piece has had very successful engagements in other cities and is sure to be popular here.

Columbia Theatre. — "Mam'zelle 'Awkins" is still drawing large houses to all its performances and is sure to do so as long as it remains here. Miss Hall in the part of Honorah Hawkins is well able to display her versatile abilities. Her two songs, "The Little Tin Soldier" and "Ragtime Liz," are heartily received.

Castle Square Theatre. — The first Boston production of "Quo Vadis" is to be given at this theatre next Monday. For this notable event the company will be greatly increased, special professional wrestlers will be engaged, the entire scenic surroundings will be new and original in design, the music has been composed, selected and arranged for this production and the entire resources of the theatre will be drawn upon to make this the crowning triumph of the present season.

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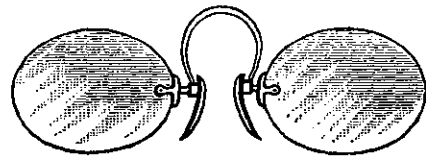
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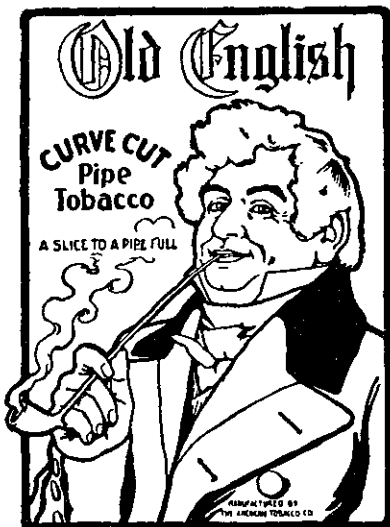
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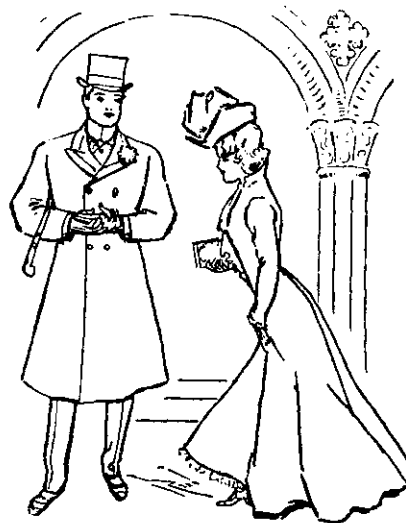
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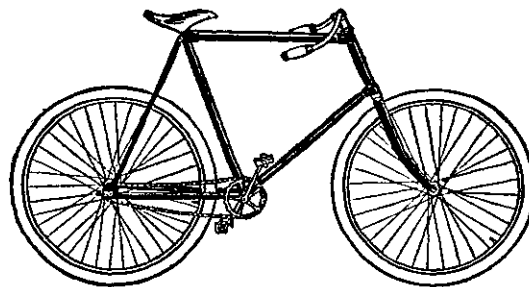


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