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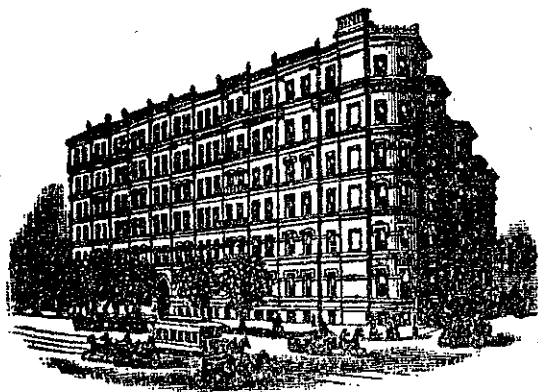
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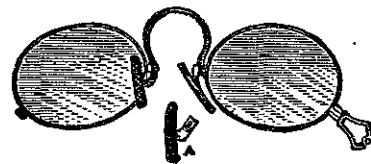
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... CALENDAR ...

- December 20th.—Meeting of the Geological Society, Room 14, Rogers, at 4.15 P. M. Meeting of the M. I. T. Yacht Club, 15 Blagden Street, at 4.15 P. M. "The Testing of Dynamo Electric Machinery," Professor Puffer, Room 22, Walker, at 7.45 P. M. "Ancient Architecture," Professor Homer, Room 12, Architectural, at 7.30 P. M. "Advanced English Composition," Professor Bates, Room 21, Rogers, at 7.45 P. M. "The Metallurgy of Gold," Professor Hofman, Room 36, Rogers, at 7.45 P. M. "The Testing of Engineering Materials," Professor Sondericker, Room 22, Rogers, at 7.45 P. M.
- December 21st.—L'Avenir, Bohemian Supper, Marliave's, at 8 P. M. "Historical Geology," Professor Niles, Room 11, Rogers, at 7.45 P. M. "The Laws and Theories of Chemistry," Professor Noyes, Room 23, Walker, at 7.45 P. M. "General Chemistry," Professor Pope, Room 35, Walker, at 7.45 P. M. "The Rise and Development of Prose Fiction in France," Professor Van Daell, Room 22, Walker, at 8 P. M. "Resistance and Propulsion of Ships," Professor Peabody, Room 22, Rogers, at 7.45 P. M. "Advanced Algebra and Theory of Equations," Professor Bailey, Room 21, Walker, at 7.45 P. M. "Government of the United States," Professor Currier, Room 26, Rogers, at 7.45 P. M.
- December 22d.—Meeting of the Class of Ninety-eight, at 12 M.
- December 27th.—Meeting of the Geological Society, Room 14, Rogers, at 4.15 P. M. "The Testing of Dynamo Electric Machinery," Professor Puffer, Room 22, Walker, at 7.45 P. M.
- December 27th and 31st.—"Ancient Architecture," Professor Homer, Room 12, Architectural, at 7.30 P. M.
- December 27th and January 1st.—"Advanced English Composition," Professor Bates, Room 21, Rogers, at 7.45 P. M. "The Metallurgy of Gold," Professor Hofman, Room 36, Rogers, at 7.45 P. M. "The Testing of Engineering Materials," Professor Sondericker, Room 22, Rogers, at 7.30 P. M.
- December 28th and 31st.—"Historical Geology," Professor Niles, Room 11, Rogers, at 7.45 P. M. "Resistance and Propulsion of Ships," Professor Peabody, Room 22, Rogers, at 7.45 P. M. "Government of the United States," Professor Currier, Room 26, Rogers, at 7.45 P. M.
- December 28th and January 1st.—"The Laws and Theories of Chemistry," Professor Noyes, Room 23, Walker, at 7.45 P. M. "General Chemistry," Professor Pope, Room 35, Walker, at 7.45 P. M. "Advanced Algebra and Theory of Equations," Professor Bailey, Room 21, Walker, at 7.45 P. M.
- December 28th.—"The Rise and Development of Prose Fiction in France," Professor Van Daell, Room 22, Walker, at 8 P. M.
- December 31st.—L'Avenir, Room 23, Walker, at 4.15 P. M. Annual Election of Officers.
- January 2d.—Glee, Banjo, and Mandolin Clubs' Concert, Huntington Hall, at 8 P. M.

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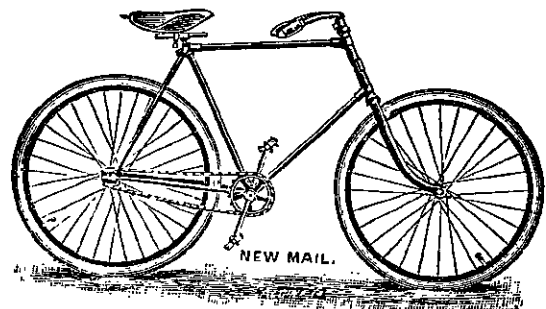
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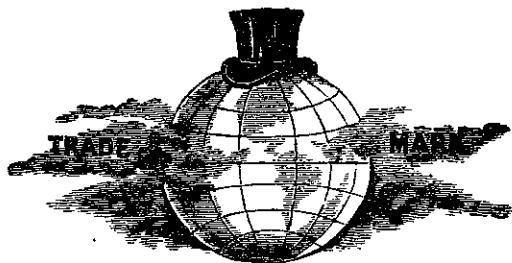
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THE TECH

VOL. XIV.

BOSTON, DECEMBER 20, 1894.

NO. 13.

THE TECH

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

CHARLES GILMAN HYDE, '96, *Editor in Chief.*

JOHN HOWLAND GARDINER, '95.

WILLIAM E. DAVIS, JR., '95.

EDWARD ARTHUR BALDWIN, '96.

BENJAMIN HURD, JR., '96.

REGINALD NORRIS, '96.

SHELDON LEAVITT HOWARD, '97.

WILLIAM THORNTON PARKER, '97.

RALPH SPELMAN WHITING, '97

EDWARD ARTHUR BALDWIN, '96, *Secretary.*

H. P. CODDINGTON, '95, *Business Manager.*

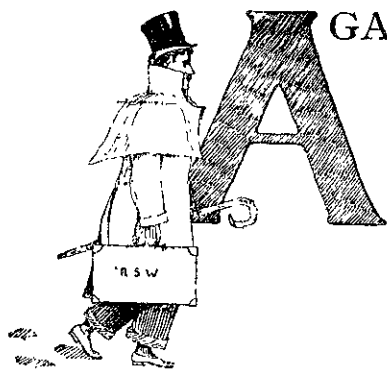
Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

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.

Entered in Post Office, Boston, Mass., as Second Class Matter.

How doth ye Christmastide approach,
All hail, ye gladsome daye!
Let sorrows ne'er on joys encroach,
But merrie be, and gaye!
Then greetynge to ye, comrades alle,
Praye joyne with us and saye,
"Ye Facultye shall never falle
Who gave ye extra daye!"



AGAIN a short recess has been held up to our view by faculty decree, and once more THE TECH editors assert the right to lay aside the pen, and hie themselves to other climes, where the Chistmas goose and the legendary plum pudding, as well as the chimney corner of Santa Claus lore, will awaken their usual enthusiasm. But first of all would they extend a word of appreciation to those from whom such

boon has been received without the petitions, well attested to by throngs of hard-worked men, which other years have called forth. Nor, indeed, must the Institute Committee fail to receive its share of grateful recognition for its timely action.

The recess will prohibit the issue of THE TECH during the week of the twenty-fifth: therefore, it now appears before its readers as a double number, in a new dress, begging for approval. In the true spirit of the season, it presents to the Technology world a half-tone reproduction of the football team, which has fought its battles well, and though meeting reverses, has so deported itself that we cannot but applaud.

Just as THE TECH is going to press, we learn that a very substantial donation has come to Technology through the bequest of the late Mr. Henry Saltonstall, a member of the Corporation. This hearty indorsement of the work of our Institute must be highly encouraging to those who have its interests at heart, and coming at this time, is truly a most desirable Christmas gift.

Already the shop windows betoken the approach of the holidays; the wallet of the would-be Christmas champion has long proclaimed it.

Even good old Mother Nature herself, possibly to add a piquancy to guesswork, has persisted in presenting her old-time variability, — ever a direct precursor of the season which is at hand. But little can such discrepancies subdue the jovial spirit of the times; instructor and student are alike in happy anticipation of these days of freedom, and THE TECH extends to all, from President Walker to the office boy, from sturdy prof. to the applied grind, the heartiest wishes for a merry Christmastide.



LAST the privileges of Huntington Hall have been granted to the Glee and Banjo Clubs for the evening of January 2d, and the musical contingent of Technology will then be entertained in a highly interesting manner. The clubs have trained constantly during the year, and

a degree of excellence has been reached which will cause the attainments of other years to fade into insignificance. The appointment of a musical committee by the Glee club has been of especial value. Many of the inappropriate pieces which have heretofore figured to some extent in the concerts, have been discarded, and more enlivening songs introduced.

During the past few seasons the midwinter concert has been made more and more of a social event at Technology; one, indeed, which has stood prominently among the pleasant occasions of the year. For the benefit of the many a coat room should be temporarily arranged, and every similar convenience afforded where possible. It is to be regretted that the Lowell lectures require the various screens and other appliances with which the stage is usually obstructed. But we would suggest that further efforts be made by the clubs than have been put forth in other years, to make the Hall in every way as attractive as possible.

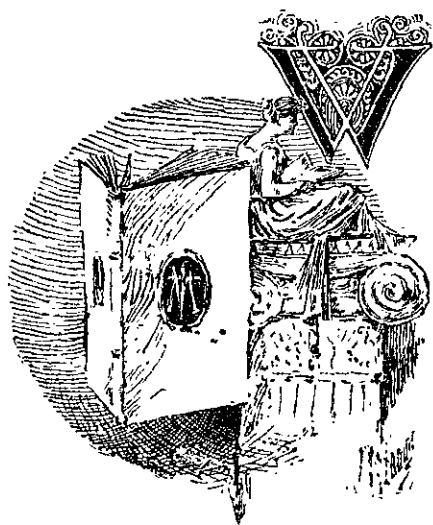
Every Technology man must be well aware of the benefits to be derived from a Western tour of the clubs. For years the question has been broached, but every scheme has failed. This year, however, with a suitable guarantee from the Western Alumni Association, and especially if sufficient support be given by full attendance at the home concert, a trip may be anticipated.



HERE is always pleasure in reviewing the happy times of a college man, and the next best thing is the enjoyment of them. The class of '95 has been most fortunate in this respect, not only in the number present at the Parker House last Friday evening,

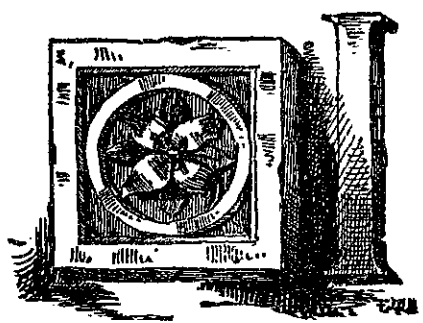
but also in the nature of the various addresses, and in the jolly good fellowship which reigned throughout. Class dinners are ever jovial occasions, and he is most repaid for the small expenditure who throws aside the restraint of professional work, and "loosens up," so to speak, yet controls himself within reasonable bounds. The Senior dinner, while not a record breaker, may well be an example to be followed by the lower classes. The men turned out in a splendid manner, and on every hand could be seen not merely the undercurrent of happiness that diplomas were at hand, but more impressively the regret that this was to be the farewell dinner of the class as an undergraduate body.

Although much was said regarding the conduct of the graduate toward those features by which Technology is recognized in the world at large, we feel that a most important matter was neglected,—assistance to, and co-operation with, the Institute after graduation. Success in the professional world depends upon two influences: a knowledge by each of his individual profession, and, an ability to work conscientiously. The first of these is taught by our professors, and the second is enlarged enormously by attendance at the Institute. Dwelling only upon the unearned increment theory, we may ask how much more than the amount of our tuition is our profession worth to us?



WE are glad to note the ever-increasing fame of our college annual, "Technique," and the frequent allusions made to it in the exchange and editorial columns of leading college papers of the country.

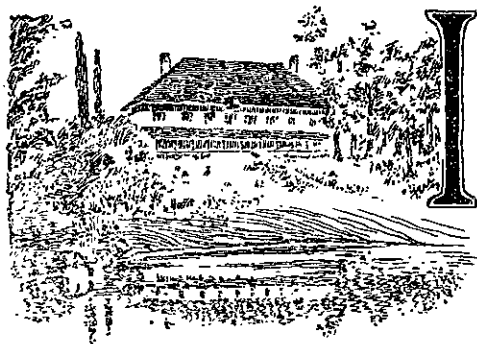
It is in the interest of Technology at large, as well as that of "Technique," that THE TECH urges all of artistic or literary ability to render the annual the hearty support which it most certainly deserves. The high degree of artistic excellence which this book has always preserved has helped it greatly in gaining its present position; and in order that no ground shall be lost, more competition is necessary in the class histories and their accompanying illustrations. The department of grinds, which is usually a prominent feature, has been woefully lacking in support this year. With the earnest co-operation of every member of the Institute, "Technique" could easily retain the high standard in the future that it has gained in the past.



IT is gratifying to learn that the Deutscher Verein is still hard at work on the production of its plays. The whole affair has been placed in the hands of a committee, consisting of the stage manager, the business manager, and their assistants, and work is being actively prosecuted. After the apparent lethargy into which everything connected with the Verein seemed to have lapsed, the assurance of the managers that a creditable performance is soon to be presented is indeed welcome.



TEPS may be taken toward the establishment of compulsory physical training at Technology. In many other colleges, both larger and smaller than the Institute, particular attention has been bestowed on this branch, and its establishment here would doubtless serve to increase in a large measure the size and efficiency of the department, besides furnishing a means for bringing out much good athletic material, now latent. The importance of the matter, especially at Technology, merits careful consideration; and it is to be hoped that the question will not be dropped without thorough investigation.

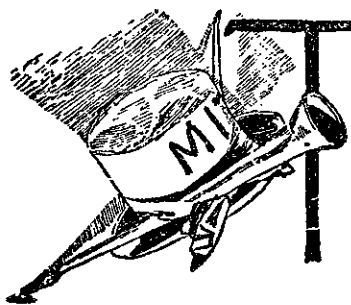


IT is with regret that THE TECH again calls attention to the disheartening financial difficulties with which Instructor Boos is yearly met. Everyone realizes the inefficiency of the present gymnasium, and since we cannot have a new one, the necessity of keeping the Exeter Street building as well supplied with athletic apparatus as possible. This fall one or two improvements have been made, notably the addition of more chest weights, much to the satisfaction of Technology's athletes; but there are still many appliances of equal importance to be supplied. Under the present system, the receipts from the rental of the lockers are handed over to the Corporation, leaving Mr. Boos absolutely no basis to work upon. The general funds of the Corporation could relinquish the locker receipts with much less detriment than can the gymnasium, and it is very much to be hoped that in future the athletic

instructor will have more power to rectify mistakes directly under his observation. Not only would such a change greatly benefit those students who constantly use the gymnasium, but also it would have its effect in increasing the number of those who exercise regularly, and would give athletics at Technology a much-needed stimulus.



It may be well to warn those who have lately come among us against leaving articles of value unguarded in any of the rooms of the Institute. Already, as was the case last year, several overcoats have been stolen, and it is impossible to find any trace of the thief. Unfortunately, with exception of the coat room in Rogers, there is at the present time no place where students' property can be held in safe keeping, and it is only by constant vigilance that losses can be avoided.



THE Institute Committee has at length formally opened a competition in designs for a representative Technology pin. As announced in another column, a prize has been offered, and an effort made, to enlist the sympathy and working interest of the student body. A sufficient length of time is assured to allow ample opportunity for every man who has the requisite skill to attempt a drawing. Aside from the honor which will accrue to the successful artist, an interest in Technology ought to induce co-operation with the Committee. In view of the importance of the matter, the Committee hopes that by the first of February a large number of drawings will have been produced, and that the scheme so signally defeated last spring, will at this time prove itself more successful.



WITH great pleasure we learn that Mr. C. H. L. N. Bernard has at length been prevailed upon to take charge of the French plays this year. As stated in a former issue, the success of last year's plays could hardly have been repeated without his help, and L'Avenir is much to be congratulated on having succeeded in securing his valuable aid.

Mr. Bernard will be assisted in his work by a committee of six, and it is expected that active work on the plays will begin immediately after Christmas. It is proposed to have two or more men study each part to insure the best production possible, and to provide substitutes to take the part of any player who might be obliged to withdraw. The members of L'Avenir should appreciate this excellent opportunity for improving their French, and should come forward willingly and in good numbers to offer their services. The plays will be given, as last year, during Junior Week.



IT becomes the unfortunate duty of THE TECH Board to announce the resignation of Mr. A. D. Fuller as Editor-in-Chief. His loss is one which, though unavoidable, must be particularly regretted at this time. From the date of his accession to the editorial staff, in his Sophomore year, Mr. Fuller has been an energetic worker. During the period in which he has been chief editor, he has been a careful

adviser and able director. With the management of the '95 "Technique" as editor, and with his work in connection with THE TECH, he has shown an executive ability which but few men at Technology have had an opportunity to display.

At the meeting of the Board on Monday of last week, Mr. C. G. Hyde, who has held, during the past year, the position of Assistant Editor-in-Chief, was elected to the office left vacant by Mr. Fuller.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

TO THE EDITORS OF THE TECH:—

The Institute Committee, through your columns, desires to call the attention of the students to the inadequacy of the present Technology pin. This pin when designed, was merely intended as a makeshift, to be worn by Technology men at the World's Fair. Over a year has passed by, and the pin is still worn in lieu of a better one. It is now fitting that this one should be replaced by one which will reflect more credit upon Technology and the tastes of the students.

To this end the Committee invites competition from all students for a new design. A prize of five dollars (\$5) will be given to the person who presents the most appropriate design. The competition will be open until Feb. 1, 1895, and designs may be handed to any member of the Committee.

GEO. W. HAYDEN,
Sec. Inst. Com.

At the Office.

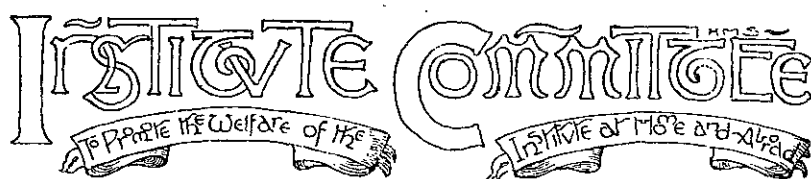
When a fellow attempts to write some verse,
And finds that his pipe is at home,
He longs for his chair and his snug little den,
Where his thoughts have the freedom to roam.

And when he attempts to write of her,—
Of her with the eyes so bright,
With a form so plump, and a way so sweet,
He is really dead for a light

'Tis then that the thoughts of the summer come back,
Of the walks in the woods, and the rides on the lake,—
Oh, this is a glorious place for work,
And life at Tech is all but a fake!

But the editor says he must have verse,
Or the Christmas TECH will be a joke;
But how in the deuce can a fellow write
When his pipe is at home, and he cannot smoke?

W. E. D., JR., '95.



THE Institute Committee, at its last meeting, Monday, December 10th, was largely occupied with the reports of its various subcommittees, and the general completion of all business undertaken during the early part of the year. The meeting was called to order by Mr. Canfield, and the secretary's report was read by Mr. Hayden.

The committee appointed to confer with the Executive Board of the Athletic Association to choose eight upper classmen for the purpose of directing the cheering at all athletic contests, made the following report: from '95, Messrs. Fuller, Lothrop, Thomas, and Tillinghast were elected; from '96, Messrs. Baldwin, Fisk, Hurd, and Hyde. Mr. Hayden announced the resignation of Mr. Fuller, and Mr. Abbott was chosen in his stead.

A report upon the possibility of securing the use of the coat room from one to quarter past two in the afternoon each day, was given by Mr. Canfield. It was learned from Dr. Tyler that the matter would be taken to the proper authority, the bursar, and, if possible, a provision satisfactory to the students would be made.

In regard to uniform Technology colors, Mr. Hayden reported that Dr. Tyler was willing to employ any colors, upon which the Institute Committee should decide, for official purposes at Commencement and on other occasions.

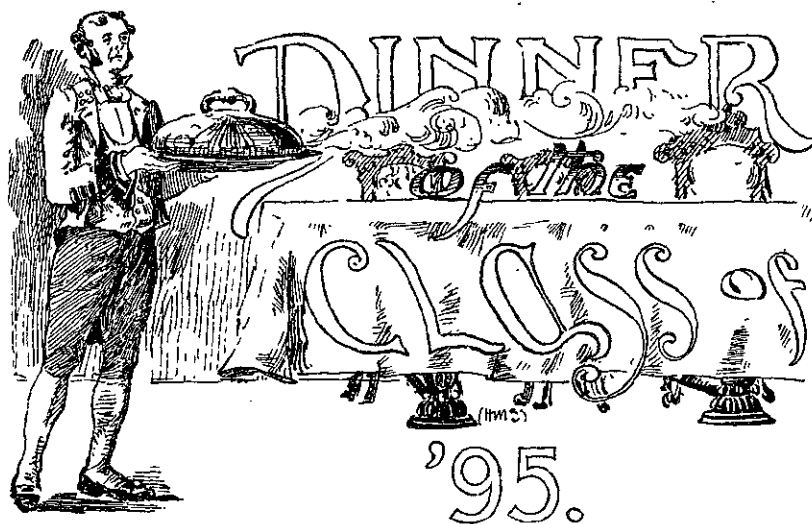
The question of a Technology pin was once more broached, and a definite action taken. The Committee has considered it wise to act slowly in the matter, and obtain at length, even though late, a pin which will be thoroughly approved. To stimulate a competition for designs, a prize of five dollars is offered by the Committee, all drawings to be handed in by the first of February.

The Editors' Dinner.



HAVING duly sat for its portrait at Hastings's, last Saturday noon, THE TECH Board held an impromptu dinner at the Old Elm.

A table was secured for the entire Board, whose members did not fail to make the occasion a merry one. The Business Manager at once became the cynosure of all thoughts, and immediately obtained a prominence in the ideals of his companions which would easily outrival the devotion of Damon to his counterpart Pythias. On account of the surrounding aliens, toasts were given in silence, and were warmly applauded at important parts. Mr. Fuller entertained the company by a toast in thought on "The pleasures of an Ex-Editor-in-Chief;" Mr. Baldwin was a close second on "How good it seems to have at last a noon lunch" (voicing the sentiments of those on the Board whose failings in this line had, through a stress of work, become well mastered); Mr. Howard discoursed to himself "The ratio between, and the respective conviviality of Ninety-five, Ninety-six, and Ninety-seven at their Class Dinners;" Mr. Davis rehearsed the "Problem of obtaining credits on the day following relaxations of the above-mentioned nature;" Mr. Coddington was on hand with "Lunches for THE TECH Board on Mondays, at 1.50 P. M.;" Mr. Hyde decided that "Christmas Happiness" was only to be obtained after all copy was in; Mr. Norris represented the "Coming French Plays." At this juncture, omelettes, steaks, and beers having been disposed of, the editors hied themselves to other quarters.



THE Seniors gathered at the Parker House last Friday evening to enjoy their last undergraduate dinner. One hundred and fifteen men were present, and it is thought that with this number, Ninety-Five holds the record for the Senior Dinner.

After a very tempting menu had been discussed President Canfield arose, and after a short address, introduced the toastmaster of the occasion,—Mr. Gerard Swope, who presided throughout the evening in an exceptionally happy and graceful manner. He called upon Mr. Sheridan to respond to the first toast, "Technology." Mr. Sheridan's remarks were historical in character, of a mingled light and serious nature, and were enthusiastically received. In the next toast, "Peculiar Characteristics," Mr. Fish made the most of the opportunity to make a merry jest on prominent peculiarities. He responded in a bright and very witty jingle, and the continual applause showed that the hits were keenly appreciated. The Ninety-Five Quartette improvised for the occasion, and consisting of Messrs. Schmitz, Scofield, Wason and Chase, then rendered a pleasing selection. "Vignettes," by Mr. Belknap, from their liveliness and reality, certainly warranted their introduction as "Living Pictures," by the toastmaster. They were depicted in sprightly and unusually finished verse.

Mr. Thomas begged leave to digress somewhat from his subject "The 'Varsity," to treat of more particularly Ninety-Five athletics.

The Seniors, he said, are champions of the Institute; and as the Institute is champion of New England, the deduction of the champion college class of New England is very clear. Although our start this year has not been particularly auspicious, yet with hard work we may repeat the hard-earned success of last year. Mr. Wiggin next very amiably tried to establish a place for "The Grind," and although his logic was evidently sound, his conclusion did not find universal acceptance. Mr. R. K. Sheppard gave a forcible and very earnest address on the serious purpose of our presence at Technology. Mr. Melliush then rendered a delightful piano solo, which demanded an encore.

Mr. Sadtler related entertainingly the discovery of the philosopher's stone in the chemical laboratory, and the highly original usage to which it had been put. Mr. Tillinghast then gave a very practical talk on football, which was listened to with marked attention. In responding to the toast "The Last Lap," Mr. Huxley referred to the custom, lately disregarded, of Senior Classes leaving some memorial to the Institute, and suggested that Ninety-Five leave a voting booth and all necessary apparatus for carrying on the Australian ballot system. Mr. Drake took a very practical view of "The Future," and suggested that men who fancied that they would leave all work behind them at Technology would possibly be disappointed. Especially entertaining features were the bright and witty speeches of Messrs. Ames and Sturges. After a solo by Mr. Schmitz and various popular songs, in which all joined in the chorus, one of the most enjoyable of Ninety-Five's dinners was ended.

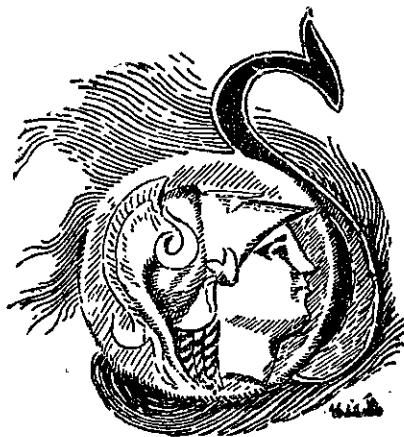
Gastronomic.

"What did the statue eat?" asked Willie.
 Uncle answered his little pet,
 "Sandwiches, and some rock candy,
 That is what the statuette."

A. W. J.

A Christmas Night.

"'Tis better to have loved and lost,
 Than never to have loved at all."



SOME time had passed since either had spoken. They sat before the cheerful blaze of an open fire; he, in a well-padded, comfortable-looking easy-chair, and she just opposite on a low hassock, watching with downcast eyes the rose leaves flutter from her hand as she absently pulled them one by one from the flower she held.

Outside it was a good, old-fashioned Christmas night. The wind whistled around corners and through the naked tree tops, catching up the fast-falling snow and whirling it into the face of each unlucky traveler who chanced to be abroad. Jack Frost was sending the thermometer down, down, down, as if it, too, were trying to get in out of his chill presence.

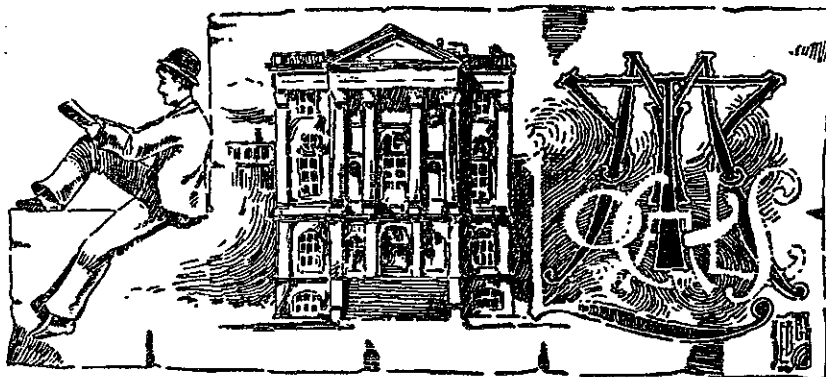
She was the first to break the silence, and when she lifted her big brown eyes to speak, there was a timid, frightened look in them, as if she knew she were doing wrong to speak to him as she was about to speak.

"Jack," she said. He looked across to where she was sitting and there was a mournful look in his eyes, but he turned away quickly and did not interrupt her. "Jack," she went on, hurriedly, "I know it is wrong and unmaidenly in me, and all that, to tell you about it, but I can't help it. I have loved you ever since I ever saw you, I think. At first you merely amused me, and I liked to have you around to help me kill time; but I got to liking you more and more, and — well, that's all; and you, you don't care for me at all—do you, Jack?" He looked at her again; she was so picturesque, so beautiful, sitting there in the firelight and speaking in such a

pleading little voice, while the hand that held the rose trembled; and then it was all so near, he had merely to take a step — but no; though he felt like a brute, he looked away and did not answer.

There was a long silence, and then, losing all thought of herself, she came across to where he sat, and kneeling down beside the chair, looked up into his eyes and whispered softly, "Jack, dear, can't you love me just a little bit, I love you so much, dear?" Still he remained silent and made no sign. Again there was a long pause, broken this time by the rustle of a gown and a little choking sob. He sprang to his feet and stood gazing at the door through which she had just passed; then Jack turned, and with a low whine wagged his tail once or twice and fell asleep.

A. W. J.



Options in Fourth Year Mechanical Engineering were begun last week.

A list of unclaimed mail matter has been posted on the general bulletin.

The Gas engine in the Engineering Laboratory has been repaired for thesis work.

Any student wishing to become a member of L'Avenir should apply to R. Norris, box 24, Cage.

The home concert of the Glee Club will be given in Huntington Hall on the second of January.

Mr. T. H. Bartlett, instructor in modeling, is taking an extended lecture trip to Chicago and St. Louis.

The Mondamin Club held its second dinner and business meeting at Marliave's, Saturday, December 8th.

F. H. Shepard, '97, who was injured in the Cane Rush, is again among us, though still on crutches.

A fire was narrowly averted in the dark-room of the Architectural Building last week by the prompt response of the students.

Guild & Son, the jewelers, have just finished a Technology pin with a new modification, which consists of a gold band or rim surrounding the enamel.

The new catalogues were distributed to the Faculty last week. They will not be ready for general distribution until to-day, or the beginning of next week.

Captain Bigelow has just announced a competitive drill and inspection, to be held on the 17th and 28th of December, at which Lieut. Aultman will assist.

Will the person whose material has been sent to the "Technique" under the signature of "Jack," kindly communicate with the Editor in chief of THE TECH, Box 72, Cage.

For some reason no committee for securing matter for "Technique" was appointed from the Freshman class. Ninety-eight ought certainly to do its share in booming the annual.

The office of THE TECH will be open from 12 to 1 on Mondays, from 10 to 11 on Wednesdays, from 11 to 12 on Thursdays, for those who wish to procure back numbers.

The Bohemian Supper which L'Avenir is to hold at Marliave's to-morrow evening promises to be a most enjoyable affair, and it is hoped that all the members will be present on this festive occasion.

The competitive drill for positions in the color guard of the Cadet Battalion should be

entered into by all who have drilled before. The color sergeant ranks with the first sergeants, and the position is one of honor.

The annual series of boiler tests will begin January 1st. The tests will be held in the boiler room of the Engineering Building. Course II. men will have day duty this year, and Course VI. men will take the night watches.

Captain Bigelow has announced that the freshmen will have squad competition, perfecting themselves in the school of the squad. This is a decidedly new feature of drill, and ought to be successful in increasing the interest in the subject.

The Committee appointed to take charge of the plays of the Deutscher Verein is composed as follows: Business Managers, L. K. Yoder, '95, F. Kleinschmidt, '95. Stage Managers, 1st, H. von Holst, '96; 2d, H. Poppenhusen, '96; 3d, R. E. Bakenhus, '96.

Any member of Technology who expects to spend his Christmas recess in any town reached by the Boston & Albany railroad, or its connections west of Albany, will find it to his advantage to consult the business manager of THE TECH regarding special rates.

There will be no more lectures in Course A in Military Tactics (Huntington Hall, Mondays, 9-10 A. M.) during the current term. The lectures in Course B (Room 36, Tuesdays and Wednesdays, 3.15-4.15 P. M.) and the drills will continue to be regularly held.

The next meeting of L'Avenir will be held on Monday, December 31st. It is hoped that all the members will make a point of being present, in view of the annual election of officers which will take place, and also of other important business which will be transacted.

There is a prospect of regular gymnasium exercise becoming a requirement at Technology in the near future. Every student will

be expected to exercise two afternoons during the week for a period of about one hour, and marks will be recorded in this as in other subjects.

A great source of inconvenience to Technology men who have lockers at the gymnasium, is the drilling of the Chauncy Hall Battalion there on certain days. This source of annoyance would be averted were the locker owners allowed to enter the gymnasium to obtain their effects, but this is prohibited.

The register of students for this year shows an increase of twenty-six over last year. This is due largely to the increase in the number of graduate students, who, together with the specials, constitute thirty-five per cent of the total number enrolled. The Freshman class is smaller by thirty-four than that of last year.

The third meeting of the M. I. T. Y. C. was held last Thursday, at 4.15 P. M. The flag was formally adopted as a red burgee with a white initial T and one blue five-pointed star. The following men were elected to membership: F. C. Field, C. F. Tillinghast, C. Tower, G. McCarthy, E. Johnson, S. Fosdick Jones, W. P. Anderson, D. D. Field, E. R. Brackett, H. S. Baldwin, T. T. Brackett.

Last week the first steps were taken toward the formation of a Cincinnati Club at the Institute. Cincinnati is one of the cities which has ever been represented by large numbers of men at Technology, and this club will serve the purpose of bringing these men together, giving them an opportunity to become better acquainted. Such clubs have of late been formed to a considerable extent at the Institute, and constitute a most welcome addition to Technology's social life.

On Friday last, instead of the usual lecture by Professor Currier, the class in American History listened to a delightful talk by President Walker on "some of the effects of the civil war." President Walker spoke of the

effect of the late war upon the distribution of the colored race in the United States; of the development of the Poor White population in the South; of the change in educational methods. Under this last head he brought up many interesting points concerning the aims of the college student before the war and the aims of the college student of to-day.

Mr. James Swan, instructor in Naval Architecture, has just undertaken a work which indicates the practical nature of Course XIII. The large screw ferryboat East Boston, built some years ago for the East Boston ferry, was soon found to be so poorly adapted for the work of this line, on account of her size and for other reasons, that she was taken off the line after a few trips and has not been used since. Mr. Swan has made a contract with the city to make the boat serviceable for the route by cutting her down and altering her weight somewhat, and he feels quite confident that his venture will be a success.

The following men were initiated into K₂S at a recent meeting: Messrs. Defren, Goodwillie, George Moore, '95; Franklin and Gardiner, '97. Dr. Walker and Dr. Evans were elected honorary members. The society this year has obtained rooms at No. 439 Boylston Street, which allows it to keep on file scientific papers and other current literature. Several "Smokers" have been held in the rooms, at which papers have been read by Gage, '96, on "The Treatment of Cellulose," Sadtler, '95, on "Chrome Tanning," and Ellis, '95, on "Spectrum Analysis." The next dinner will be held at the Thorndike, on Friday, Dec. 28, 1894.

Der Deutsche Verein held a meeting on Wednesday, December 5th, at 4.30 P. M., in Room 11, R. The following students were elected to active membership: W. A. Kent, '96, H. C. Riley, '98, A. O. Portner, '98. Mr. H. M. Goodwin, instructor in the Department of Physics, was elected an honorary member.

The Society voted that a committee of five be appointed by the president to take charge of the German plays, the committee to consist of two business managers, one stage manager, and two assistants. Mr. von Holst recited two poems,—“Des Sängers Fluch,” and “Die letzten zehn Grenadieren.” Mr. G. H. Matthes gave two anecdotes, which he illustrated at the blackboard.

At the '96 Class meeting, held on December 12th, more members were present than at any previous meeting this year. The President stated that an arrangement had been made with the “Technique” Board, by which the present class picture would be accepted, with the provision that a successful reproduction could be made. It was moved and carried to increase the amount to be expended on the class picture to twenty-five dollars. When the matter of a class pin was brought before the meeting considerable discussion followed. As a result, a book containing the various designs submitted by the committee on pins will be circulated through the class, and in this manner the most popular pin can be determined. Rockwell reported the class games held December 8th, and after an appropriation of six dollars and fifty cents was made, to cover entrance fees at these games, the meeting adjourned.

The Society of Arts held a very interesting meeting last Thursday evening in Room 11, Rogers. The audience was a large one, and very nearly filled the room. Mr. Farnham read a most carefully prepared paper on “Electrolysis of Water pipes—its cause and prevention.” He first gave an account of preliminary investigations of the subject three or four years ago, and explained experiments which were made to demonstrate that such action took place. He explained that the electrolysis only took place when the pipes were at a higher potential than the earth, and showed a map indicating where this was the case in Boston. Mr. Farnham then stated

the means which had been undertaken in Boston and in other cities to prevent this action. His remarks were very beautifully illustrated by lantern slides and by specimens of pipes and cables which had been eaten away by electrolysis.

L'Avenir held a very enthusiastic meeting in Room 23, Walker, on Monday, December 10th, at 4.15. About thirty members were present to hear from Mr. Bernard concerning the plays. After the letter written by the Executive Committee to Mr. Bernard, asking him to take charge of the plays, had been read, Mr. Bernard addressed the society. He signified his intention of accepting the charge, and explained the methods he would use. At his request a committee of six was elected to aid him and his brother in their work. These were F. A. Bourne, '95, W. E. Davis, Jr., '95, A. W. Drake, '95, F. A. J. Fitzgerald, '95, R. Norris, '96, and W. O. Sawtelle, '97. Should any of these men be chosen to act in the plays, Mr. Bernard will appoint their successors on the committee. The report of the dinner committee was then read. It was recommended that the dinner be held at Marliave's, on December 21st, at 8 P.M. The report was accepted, and a large number signified their intention of being present.

As announced in a recent issue, THE TECH is enabled to publish this week a list of Course I. graduates who have become Presidents or Chief Engineers of Railroads in the United States. For the following compilation, and for that, also, of Technology men who are now in charge of engineering work in the City of Boston, printed a short time since, we are indebted to Professor Allen:—

PRESIDENTS OF RAILROADS.

- S. M. FELTON, '73, East Tennessee, Virginia & Georgia Railway, and Cincinnati, New Orleans & Texas Pacific Railway.
ELIOT HOLBROOK, '74, Pittsburg & Mansfield Railroad.
JAMES RITCHIE, '78, Grand River & Mahoning Railway.

CHIEF ENGINEERS OF RAILROADS.

- WM. E. HOYT, '68, Buffalo, Rochester & Pittsburg Railroad.
WM. H. BAKER, '69, Pan American Railway.
E. K. TURNER, '70, Fitchburg Railroad (until recently).
I. S. P. WEEKS, '71, Burlington & Missouri Railroad.
WALTER SHEPARD, '72, Boston & Albany Railroad.
W. D. HARRIS, '73, Pontiac Pacific Junction Railway and Ottawa & Gatineau Valley Railway.
E. A. HANDY, '75, Lake Shore & Michigan Southern Railroad.
A. L. MILLS, '76, Toledo, St. Louis & Kansas City Railroad (until recently, now Superintendent).
G. W. KITTRIDGE, '77, Cleveland, Cincinnati, Chicago & St. Louis Railway.

So many inquiries have been made in regard to the medal and prize won by the architects in the competition recently held in New York City, that THE TECH publishes the official criticism received by Professor Chandler. There were thirty-seven competitors, representing Columbia College, Boston Art Club and various New York Clubs, besides many offices in New York City. F. M. Mann won the medal for especial excellence of plan and section, upon which the following criticism was made: "The elevation of this design, while well composed and rendered, is somewhat too heavy and out of character for a small building, demanding rather lightness and grace than monumental repose. The plan, however, is excellent, both in arrangement and indication, and the section is well drawn and in character." First mention was awarded H. H. Thorndike. His "plan is especially brilliant and well characterized, the elevation being less happy in these respects." W. B. Faville was accorded the 8th second mention, which presented noticeably good details, and showed good work. The drawings taking the medal, two first mentions and the 8th second mentions, will be exhibited at the Architectural League Annual Exhibition in New York City. The document was signed for the Jury by the Committee on Education, consisting of Mr. John M. Carrue, chairman, Mr. John G. Howard, Mr. Ernest Flagg.

Free Tuition Funds for Technology.



THE TECH has not sufficient space to reprint in full the article on Free Tuition Funds for Technology, by Dr. Ripley, which recently appeared

in the daily papers. The article is a plea for local responsibility in the matter of free education of young men. The writer points out the fact that the number of worthy applicants for scholarships is nearly fifty per cent greater than that of last year; and of the ninety-eight applicants, only twenty can be provided for by the State, and but \$5,600 is available where \$16,000 is needed for the free tuition of the remaining seventy-eight. "This fact," he remarks, "will clearly disprove the current statement that it is perfectly easy for any worthy young man to obtain an education at little cost."

Speaking of education in technical schools, he says: "Suppose the training in question is intended not as a finishing touch in education, but simply to provide a future means of livelihood; and suppose, moreover, that such education should be particularly expensive as compared with the ordinary college training; why should a horde of students from all over the world expect to rely on the liberality of the private citizens of Boston or of eastern Massachusetts?" Again, he says that only forty per cent of the students of the Institute reside in this State, although about fifty per cent of the applications for assistance came from this constituency, and that most of the applicants were residents of suburban towns. He mentions Milton and Newburyport as towns where the principle of local responsibility has been well applied, and says: "There is no reason why the cities of Newton, Brookline, Malden, or Lynn should not encourage this education in proportion to the number of their students, at least. The popular rendering of the idea may well be, 'No education without benefaction.'"



The Technology Athletic Club is the oldest athletic club in Boston, and, excluding those of Harvard and Yale, the oldest in New England. It was organized in 1879.

It has been voted by the Executive Committee of the Athletic Club to give record cups in standard events only. These, which correspond with the New England Championship events, are 100-yard run, 220-yard run, 440-yard run, half-mile run, mile run, two-mile run, 120-yard hurdle race (10 hurdles, 3ft. 6in.), 220-yard hurdle race (10 hurdles, 2ft. 6in.), one-mile walk, running high jump, running broad jump, pole vaulting, putting shot (16 lbs.), throwing hammer (16 lbs.), two-mile safety bicycle race.

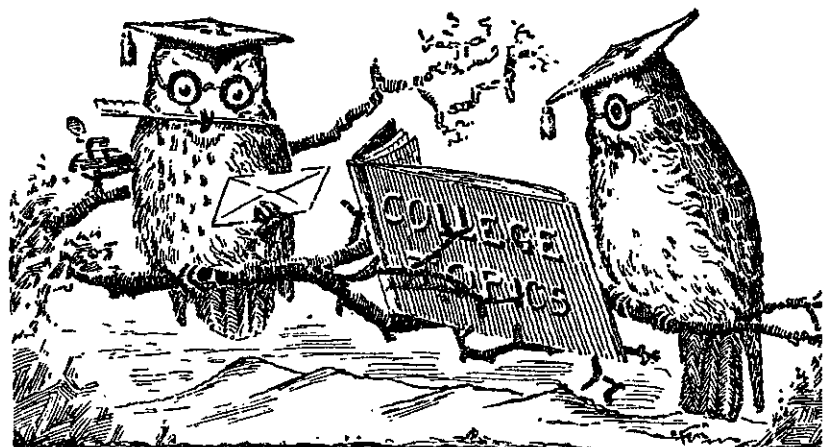
A team race has been arranged between Technology and Brown, by the B. A. A., for its meeting in Mechanic's Building in February. Mr. Macomber of Brown attended the class games last Saturday, to make negotiations with John Graham of B. A. A., and Captain Thomas of the Track Team, and incidentally watched the competitions. It was learned that there are some very good runners at Brown this year, especially in the entering class, and her representative thought the race would prove close and interesting. This match surely meets the approval of every Technology man.

An important meeting of the Executive Committee of the Athletic Club was held on Wednesday of last week. The validity of the entry of A. V. Shaw was first discussed. He was entered by the '95. captain in the recent indoor meeting, and an investigation proved

that he was not, as claimed, a five-year student (whereby he may compete for his entering class for four years, according to the Athletic Club constitution), but a special student in '96. The entry of A. H. Green, '96, in the fence vault was objected to on the ground that it was not received in time. He was allowed to compete, however, under protest, and he won the event. It was decided not to concede first prize to Mr. Green, as his entry did not appear on the list given by the '96 Class captain to the Secretary of the Athletic Club. Several motions were passed which appear as information in another column. The Treasurer submitted an encouraging informal report on the finances of the Club, and records with holders were accepted in the following events: 35-yard dash, $4\frac{2}{5}$ seconds, held by E. A. Boeseke, '95, and A. Sargent, '98; 35-yard hurdle, B. Hurd, Jr., '96, and J. W. Thomas, '95, in $4\frac{4}{5}$ seconds; potato race, $50\frac{1}{5}$ seconds, made by J. A. Rockwell, Jr., '96; and standing three broad jumps, 32 ft. 8 in., held by E. A. Boeseke, '95.

The Standing for the Individual Excellence Cup, which is given to the athlete scoring the most points in the closed games of the M. I. T. A. C., for the college year 1894-95, is, to date, as follows:—

A. H. Green, '96	18
E. A. Boeseke, '95	11
A. Sargent, '98	8
S. F. Wise, '96	6
B. Hurd, Jr., '96	5
J. A. Rockwell, Jr., '96	5
R. W. Carr, '95	3
R. D. Farquhar, '95	3
J. W. Thomas, '95	3
H. Cummings, Jr., '96	3
M. O. Leighton, '96	3
A. V. Shaw, '96	3
C. B. Stebbins, '97	3
F. E. Faxon, '95	1
W. A. Hall, '95	1
A. C. Lootz, '96	1
E. A. Sumner, Jr., '97	1
W. L. Butcher, '98	1
R. Rumery, '98	1
E. F. Russ, '98	1



There are four universities in the city of Chicago.

Columbia College issues eighteen different publications.

A \$20,000 library is being built at the Newton Theological Seminary.

Thorne, Yale's famous half back, has been elected captain of the 'Varsity team for next year.

Captain Knipe, of the University of Pennsylvania, will play with the Crescent A. C., of Brooklyn, next season.

The Rugby football team of Oxford, the championship team in England, has not been scored against this year.

Lea, who has played tackle on the Princeton eleven for three years, was recently elected to succeed Trenchard as captain next year.

An Ann Arbor student says that they have just two rules, namely: Students must not burn the college buildings, nor kill any of the professors.

The list of Junior appointments to the Phi Beta Kappa Society at Yale has already been published. Forty-seven members of the class were selected.

Oxford University is the largest in the world, embracing twenty-one colleges and five halls. It has an income of \$6,000,000, and has twelve thousand students.

India has over one hundred colleges and Japan over two hundred colleges and schools of high grade. In these are at least one hundred thousand students.

Military drill is being objected to by the students of the University of California. They say the military department is trying to turn the University into a military school.

The Directors of the Pennsylvania Athletic Association and the Faculty Athletic Committee have published a denial of the charge of professionalism in their football team.

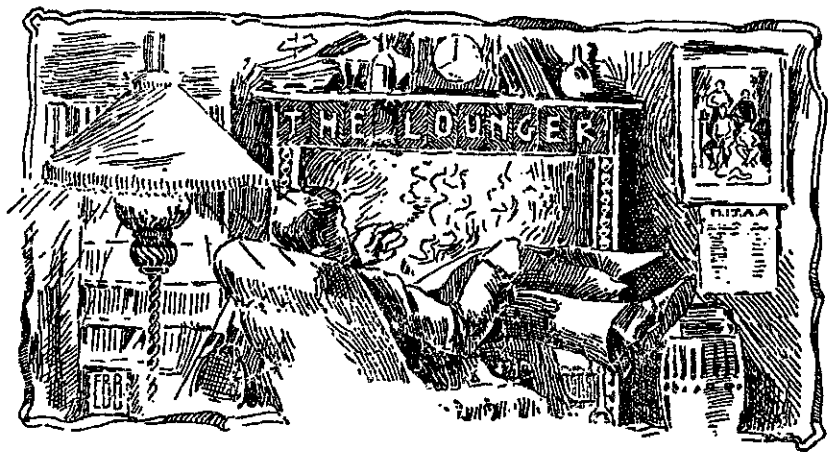
Harvard has the largest college library in America, 420,000 volumes; University of Chicago has 250,000; Yale, 180,000; Cornell, 162,000; Columbia, 155,000; University of Pennsylvania, 100,000; Princeton, 91,000; University of Michigan, 80,000.

Lehigh men exercise their lungs and their memory with the following somewhat peculiar college yell: "Kemo, kimo, dare I mal, make, maha, me rump stump diddle (pause), soap peck piddle wink, come a nip tap sing a song a polly won't you kino, Lehigh, Lehigh, Lehigh!"

A gold medal, to be competed for yearly in intercollegiate debate by Leland Stanford, Jr., University and the University of California, has recently been offered by Baron Pierre de Conbertin of France. The medal will be known as the "Medaille Carnot," in honor of the late President Carnot.

The great forty-inch object glass for the new Yerkes telescope at Chicago University has been completed and tested. The lens exceeds in light-collecting ability any other glass ever manufactured. It will be mounted in the big telescope tube, and the instrument placed in the Yerkes observatory as soon as possible.

Arrangements have been made for a visit of an American Hockey Team to Canada during New Year's week. The team will include R. D. Wrenn, of Harvard; F. H. Hovey, Clarence Hobart, A. E. Foote, and four men from Brown. It is proposed to play two matches in Toronto, Montreal and Ottawa, one under American and the others under Canadian rules. A match will also be played at Kingston.



THE LOUNGER is glad to lie back comfortably in his chair with that full satisfaction which comes from the consciousness of duties not performed, and he rejoices that he and the prof. may alike enjoy release from care, and merrily indulge in the hilarity of Christmas and its joyful associations. He feels that a certain relaxation of mind—this not being his habitual state, as his enemies have insinuated—is of incalculable benefit at this season, when the merry jingle of the sleigh-bells mingles gleefully with the curses of the man who has just slipped on the cold and uninviting pave. As the Lounger has before remarked, he is no weather prophet, and so he declines to risk his reputation again on any rash hazard as to whether Saint Nick's jovial feast will be ushered in with thunder, lightning, rain, balmy breezes, or zero blizzards. It is too uncertain, and life is too short to waste its best years in vain endeavors to pierce the veil of the future.

However, the Lounger's fire crackles merrily, sending the warm glow out into his cheerful den, the lamp burns with a soft radiance, and all is bright and cheerful. He gazes on the glittering score which the noble Juniors made at the recent meet, and he congratulates them on their victory. He is not surprised that the Sophomores succeeded, with their usual enthusiasm, in capturing last place; in fact, it was rather to be expected. The Freshmen are rejoicing greatly over the surprise of their "dark horse"; the Seniors acquiesce gracefully, and all is harmonious. Perhaps the joviality of a record-breaking Senior dinner has had much to do with the era of good feeling which '95 seems to have entered upon. Their dinner was surely a remarkable one in many respects, and will doubtless prove memorable to the ancient hostel where it was held, for untold quantities of bric-a-brac were retained as souvenirs. Brilliant oratory, catchy verse, and popular speakers certainly did much to enhance the pleasure of the evening, though a

marked tendency in some to Bacchanalian orgies did not fail to produce a queer impression of the sobriety of our Senior Class. The Lounger has always regretted that some way could not be devised for repressing about half a dozen of the men who invariably make fools of themselves at a class dinner. If only these few weak-minded youths could be persuaded to take a modicum of self-control with them, they might prove less disturbing factors. As it was, however, much occurred which the Lounger does not care to recount, and he must needs content himself with an appeal to the common sense and decency of Technology.

However, all is past. Christmas is upon us; let not its joy be marred by the dark toil of him who was so speciously defended at the dinner. "Enjoy yourself while you live, for you will be a long time dead," has always seemed an appropriate sentiment to the Lounger, and with this admonition he extends to all his jovial greeting and hearty wishes for a "Merry Christmas."

One of those rare mistakes in Technology's Bureau of General Management is responsible for a queer muddle which the Lounger is glad to give to the world for its edification.

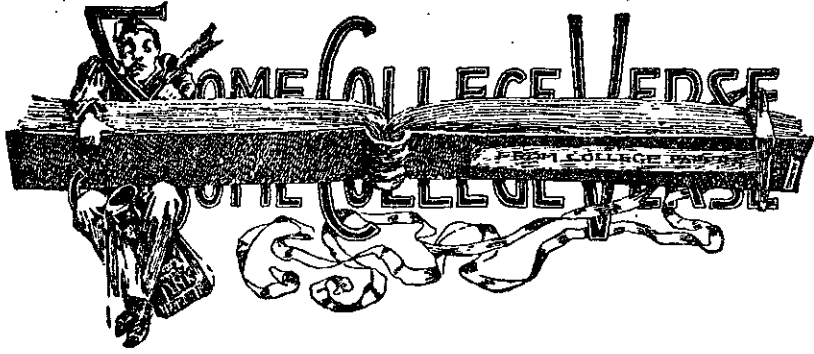
A certain man's work was not up to the required mark at one of the recent intermediates, and a faculty *billet-doux* was sent to his father, advising him of the low regard in which the Institute held such efforts as his son had recently been putting forth. This was a young man, and so his report went likewise to his father. Now the man's record had stood 4 F's and 2 P's, but by some peculiar transmogrification, which sometimes asserts itself in the inner circle, his report was made out to read 4 C's and 2 P's. The father looked at the report and then at the *billet-doux*, and a puzzled expression might have been seen stealing over his countenance. Nevertheless, not being versed in the ways of the Bureau, and deeming everything which emanated therefrom to be impeccably correct, he indited a polite letter to the authorities, in which he stated that he should consider 4 C's and 2 P's a fair report; but since the Institute judged otherwise, he would see that his son got all C's in future. This is certainly interesting, but does not cut any figure, the Lounger opines, with the lively scenes which the parental home will witness on the arrival of that second report containing the four F's.

It seems that not even three months of Technology, nor the acerb criticisms of the Bird, have sufficed to remove all the silliness from the Freshman brain. Some of the more youthful members of Ninety-eight, as they toddled aimlessly from recitation, seem to have taken a peculiarly infantile delight in tampering with the blackboard notices. Some they mischievously altered to a ridiculous or completely opposite signification, some they erased, and for the pure and holy truths which usually decorate the boards substituted unsubstantial fiction. It might not have been so bad had the playful urchins confined their attentions to the Secretary's "own" board; but not even the Christian Union bulletin was exempt, and their childish doings were the cause of much confusion, objurgation, and damnation. All this seems to have been regarded as the very acme of a good time, but it has about it, nevertheless, an air of idiocy which the Lounger is sorry to observe.

If the Lounger's correspondents could but realize the arduous duties which beset the boy who empties the Lounger's waste basket, they would gain some idea of the extent of his voluminous correspondence. He is referred to on all subjects, from points of etiquette to Technology finance; and he is glad to say that to each and every one he gives adequate and faultless answer. Occasionally a puzzler comes, however, and such a one he has recently received. Not that the question requires any unusual exercise of critical discernment, for it is not a question at all. It is a request, and, what is more, from a fair damsel whom the Lounger regrets to disappoint. It seems that one of the Lounger's erstwhile popular expressions has met with her disfavor, and she asks that the Lounger cudgel his brains for a new one. He has already made use of all the *bonmots* and clever expressions extant, and cannot see what he is to do. If she will invent a few new ones and send them in, the Lounger will try to cull a few suitable phrases, which, escaping the ban of the Editor-in-chief, shall constitute a valuable and redundant feature of his weekly disquisitions.

A Freshman Wail.

I'd like to be a graduate,
 And make a pile of "mun.;"
 I'd like to be a Senior, who
 They say has all the fun.
 But hold: I wish for nothing more;
 I see it's all a sham;
 The height of my ambition now
 Is to pass this next exam.



A STAR TEAM.

If a football team I wished to make,
Men with plenty of brains,
Some Jews would be the men I'd take,
For they always make great gains.

How do yon yachts so cut the seas,
Crossing the line mid the thundering cheers?
'Tis simple enough when you only know:
It's because they have such sheers.

—B.

Once Cupid, in his roguish way,
Into a room went peeping,
And there upon the sofa lay
A maiden, calmly sleeping.

Then Cupid straightway aimed a dart,
With a triumphant grin;
The shot was careless, missed her heart,
And struck her in the chin.

He drew the shaft and kissed the place;
'Twas healed by means so simple;
The wound, however, left a trace,
A charming little dimple.

—The University Courier.

A BACHELOR'S LIFE.

I go where I list, and return when I please,
Am free as the foyes of the wandering breeze;
In a stoupe of good wine and a sup with a friend,
There's a depth of good cheer with which naught can contend.

I'm free from all care and a shrew of a wife,
So drink me a toast to a bachelor's life.

When even comes on 'mid the gathering gloom,
I speed me away to my bachelor room;
I don an old coat, put my feet on a chair,
And list for the step of a friend on the stair.
So free is my life from bicker and strife,
That I never will leave my bachelor life.

I smoke my old pipe, and I puff up the rings,
And revel in songs that sweet memory sings.
Then slowly there rises before me a face
Whose features the smoke rings seem fondly to trace.
Ah, this is the life—but pshaw! I will go
And ask her again; she may not say no.

—University of Chicago Weekly.

"I dote on oaks," said the languishing maid,
"So noble, so stately, though few;
Tell me, now, Mr. Jones, what's your favorite tree?"
And he tenderly answered, "Yew."

—Ex.

HARVARD VS. YALE.

He met her at the Springfield game;
She wore the Harvard rose,
He wore the violets of Yale:
They almost came to blows.
But by and by their anger cooled,
And friendship they did swear,
And later still—well, they agreed
To orange blossoms wear.

—Yale Record.

HE WOULD FOOT THE BILL.

"I've bought a bonnet, papa dear;
My beau declares 'tis trimmed with skill;
I have no funds, and I've come here
To see if you will foot the bill."

"Your beau! And what may be his name?"
The father roughly questioned her;
She hung her head, with cheeks aflame,
She softly answered, "William, sir."

His eyes shone with a dangerous light:
"Hum! So he says 'tis trimmed with skill?
Well, bring him to the house to-night,
And I will gladly foot your Bill."

—Siobud.

A DREAM.

High on the landing she sent her glance
Down at me;
The music was playing the latest dance
Merrily.

Standing alone in the glancing light,
Clad in a robe of shimmering white,
She gazed at me as a spirit might,
Fair to see.

Brown was her hair, with a touch of gold,
Dear to me;
Eyes with the depth the rivers hold,
Bold and free;
Slender feet on the polished stair,
Half a child with her artless air,
Lovely, and sweet, and débonnaire,
Fair to see.

Ardent the words I whispered low,
Passionately;
Love that could never colder grow
Was my plea
Then her laughter vanished quite,
Sobbing "No," she waved good-night,
Turning, vanished from my sight,
Fair to see.

—Cornell Era.

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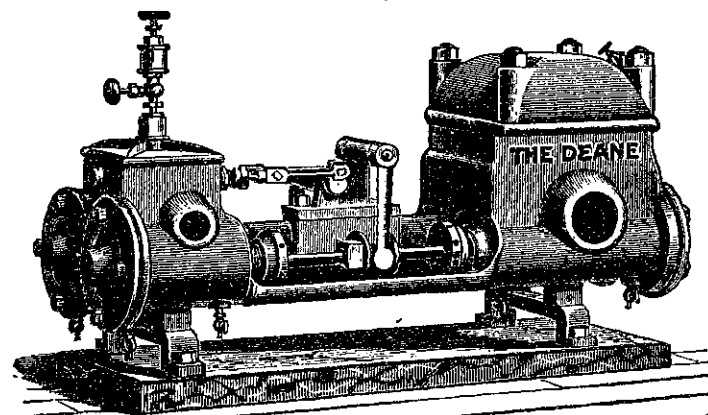
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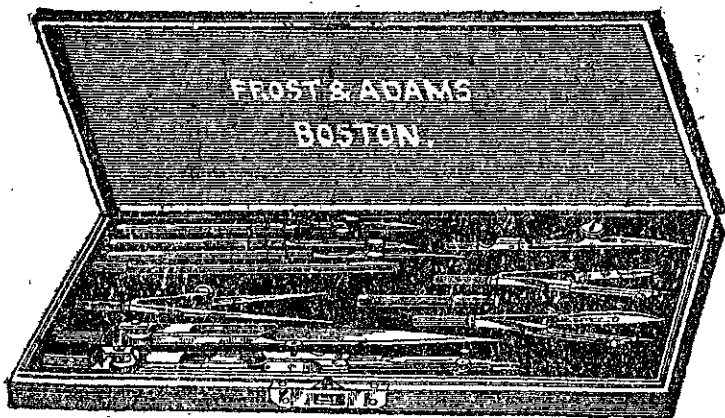
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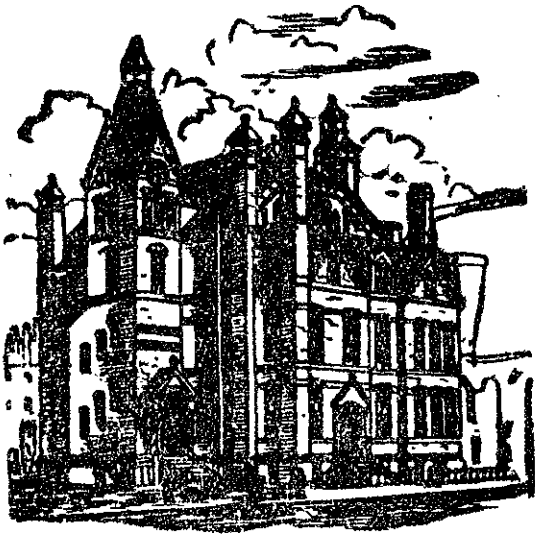
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