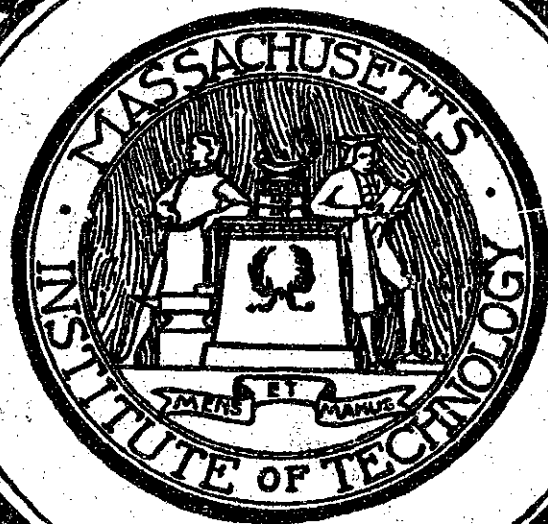


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# THE TECH



VOLUME XXII, NO. 2  
OCT 16, 1902

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# THE TECH

VOL. XXII.

BOSTON, OCTOBER 16, 1902.

NO. 2.

## THE TECH

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*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.*

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### A WORD TO FRESHMEN.

**N**OW that under the thoughtful and protective care of the Juniors the Freshmen have, with none of the usual accompanying Sophomoric difficulties, perfected a temporary class organization, it is to be hoped that they will lose no time in starting practice for the various Field Day teams, and in working up plenty of class spirit and enthusiasm. As there may be some among the Freshmen who do not understand just what this Field Day is, we make a brief statement concerning it:

Until last year the customary contest between the two lower classes took the form of a cane rush, and the Tech Cane Rush was

famous for its fierceness. Two years ago, however, in one of the hardest Tech rushes on record, Hugh C. Moore, a member of the class of 1904, then in its Freshman year, fell under the rushing mass of his fellow students, and in some way, just how will never be known, was killed. This sad event made a most profound impression on every one connected with the Institute at the time, and led finally to the abolishment of the Cane Rush by the student body, and the substitution therefor of a more intelligent and reasonable contest, consisting of a football game, relay race and tug-of-war. A beautiful prize loving-cup was offered by Mr. Samuel Cabot, an alumnus,—the cup to be engraved each year with the numerals of the winning class, and handed down to succeeding winners. Last year the new Field Day was most interesting and exciting, and in every way successful. There is no reason why it should not be equally so this year. It will necessitate, however, a united and determined effort on the part of the Freshmen to make the best possible use of the month or so remaining time, in order to counterbalance the handicap of previous experience possessed by the Sophomores. Every Freshman should take a personal interest in the formation of his class teams, trying for them himself, if possible, or at least giving them his heartiest encouragement and support.

### THE LUNCH-ROOM.

**T**HE rapid growth in numbers of the student body is creating many problems of varied degrees of importance.

Far down the scale is one which interests present students directly, and seem-

ngly calls for immediate solution. This minor problem is the lunch-room, with the congestion produced therein by the extraordinary increase in undergraduates. THE TECH does not write in spirit of criticism, nor, with the rest of the Institute, it is perfectly satisfied with the management of the lunch-room. But this does not alter the fact that students now wait from fifteen to thirty minutes before being waited upon, between the hours of one and two. When the student is limited to this noon hour this delay frequently proves to be more than an inconvenience. Of course the ideal solution is a large, commodious lunch-room; but in the case in hand, as often occurs, the ideal is not the practicable. While table-room is somewhat crowded, this is not the main difficulty. Ability to wait upon students rapidly would relieve the situation materially. THE TECH will not attempt, editorially, to discuss possible changes; but it seems that the "check" system, if tried experimentally, might prove one way in which the desired result could be obtained. Meanwhile we'll wait.

#### The Lowell Building.

It was a great surprise to most of us, on our return from our summer wanderings, to see what a magnificent new building we had begun and finished in the few summer months. The structure is a marvel of rapid and efficient workmanship; and moreover, although not architecturally beautiful, it is a building eminently suited to its purpose both in construction and arrangement.

A few words of description may interest the readers of THE TECH, many of whom have already taken an opportunity to wander through the maze of rooms contained within its forty thousand square feet of floor space. The building is lighted entirely from the roof by means of slanting skylights facing towards the north and constructed similarly

to those used in studio illumination. The ventilation of this building is also from above, and is brought about by forcing warmed air into the rooms from above and exhausting it through registers in the floor. In the large lecture-room, however, below each of the three hundred seats, is a narrow slit which provides the air necessary for the proper ventilation of a crowded room.

The interior is agreeably finished in light buff plaster and yellow pine, making a pleasing contrast to the dark and gloomy halls of some of our other buildings. As we enter from Clarendon Street by the first entrance, the one leading to the various rooms of the electrical department, we find on our right a large room, No. 4, used as a special laboratory for standardizing the various apparatus necessary for the measurement of electrical units. On the opposite side of the hall is a library and reading-room for the use of the students, and a little farther on is a group of small rooms to be used as offices. Opposite these offices is the large lecture-room, most conveniently and ingeniously arranged. It has seating capacity for 300, and, as stated above, is ventilated through the floor. At the back of the room, at the center and in the two corners, are switches for controlling the electric lighting, while a flexible connection makes it possible for the lecturer to control the lights from whatever portion of the hall he may be in. The room is illuminated as the others, from above, with an arrangement for drawing curtains and completely shutting out the light, as is necessary for the exhibition of certain experiments, or for the use of lantern views. At the back on each side are smaller rooms connected with the lecture hall by suitable tracks, arranged in such a manner that lectures may be prepared and the apparatus be set up on tables in the side rooms, and then the tables wheeled bodily into the lecture-hall. The effect of this arrangement is to treble the capacity of the room, as at one and

the same time a lecture can proceed in the hall, the chemical department can be setting up apparatus on the tables in one side room, and the electrical department can be doing the same in the other room. Connection by track is also made, straight through to the large electrical laboratory, so that large pieces of machinery may be brought from any part of the laboratory by means of the large electric crane and placed directly on the tracks leading to the lecture-room.

Among the other interesting features of the building are the series of rooms for photometric work, and the rooms for individual research. Any description of the large laboratory, where the electrical engineering apparatus is now being installed, should be left until a later date, when all the equipment is in place. The second entrance from Clarendon Street leads to the nine class-rooms for modern languages.

The building has been fittingly named in honor of Augustus Lowell in recognition of his services to the Institute.

---

#### Cross-country Team.

The candidates for the Cross-country Team are going out regularly from the Gym. The length of these afternoon runs is being gradually increased as the men grow stronger. Several of the new men are showing up well; Lorentz, '05, and Burke, '05, are doing some of the best work. Of last year's squad, Fraser, '05, Holcombe, '04, and Marcy, '05, are coming on in good shape, and give promise of bettering last year's form.

---

There was a young lady in Me.,  
 Who went for a ride in a Tre.  
     But alas and alack!  
 The cars jumped the track!  
 And she had to walk home in the Re.

#### Dr. Rainsford's Talk.

Technology men had the pleasure, last Friday, of listening to Rev. William Rainsford, the first of the prominent men who are to address the student body this year. Dr. Pritchett introduced Dr. Rainsford as a man who is doing a great work in a great manner. The speaker emphasized the fact that men were not men unless they had some great work in life. He also dwelt upon the fact that to technical men would fall the task of directing the energy of the immigrants that thronged our country, and that with this class of people we must be patient. That we must be a leader, not merely as a "boss," but as one whom they will respect, obey and look up to. To do this we must know them, and be in sympathy with them in their work, their religion and their everyday life. To attain this end there is no better way than to endeavor to help them and better their condition, and at the same time by so doing benefit ourselves as well. For if we cannot find religion and knowledge in contact with our fellowmen we cannot find it in churches. In this world we find what we look for. If we look for good in men we will find it, and if we look for bad we will find that only. Take pains to keep ourselves alive. To do this we must work. We cannot keep anything without work, not even our money.

---

#### Y. M. C. A.

On Tuesday, Oct. 7., at 4.10 P.M., the first meeting of the Y. M. C. A. was held in Room 11, Pierce Building. About forty men were present to listen to the appeal of Rev. J. A. Francis for men to show their colors with the Y. M. C. A. at Tech. The Technology Male Quartette rendered two selections. The meeting promises splendid things for this year's work.

### MINING ENGINEERING SUMMER SCHOOL.

June 15—July 7, 1902.

Under the guidance of Prof. R. H. Richards a party of twenty-two of the second, third and fourth year mining engineering students took a three-weeks' trip to Nova Scotia and Cape Breton Island. The object of the summer school was to show by actual examples the mining and milling of gold ores, and the different methods of mining, sizing, washing and coking of bituminous coal; also, the Nova Scotia blast furnace practice and the manufacture of steel from pig metal.

By way of emphasis, the smaller and more incomplete plants were visited first, so that the impressions made by the larger plants were so much the more marked by a later comparison.



Group at Stellerton.

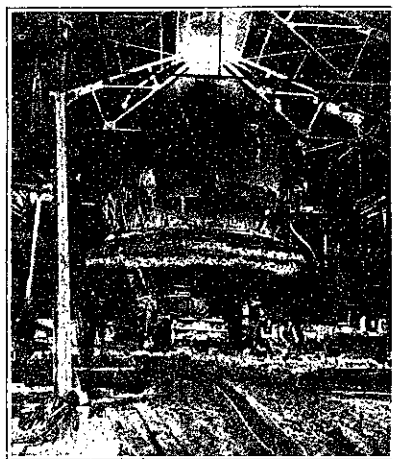
The party left Boston Saturday, June 14, 1902, bound for Halifax, N. S., on the former United States transport "Olivette." Arrived at Halifax Sunday afternoon, the party was at once conveyed by barge to the little gold-mining town of Waverley, a distance of some twelve miles. Hotel accommodations being scarce, some of the party were quartered at the different houses and some in an old hotel. The next morning the party, dressed in old clothes, went into the mine of the Waverley Gold Mining Company and inspected the methods of sinking the shaft, mining, tramming and hoisting the gold-bearing barrel quartz; also the ventilation, mine

drainage and use of compressed air. This was supplemented by a study of the geology of the adjacent country and its bearing on the method of working the mine. The generalities of mine management were also explained. The next day the power-plant and mill were examined. A 98-inch Pelton water wheel (73 feet head) was used to drive the air compressor, and a 15-inch Crocker turbine furnished the power for the 60-stamp mill and four Wilfley tables, for crushing, amalgamating and concentrating the ore.

From Waverley the party went to New Glasgow, which was to be headquarters for the next five days. A visit was made to the Drummond Colliery (Mr. Charles Fergie, general manager) at Westville. Here the students were given an excellent opportunity to study the details of a modern direct-connected hoisting engine, with its winding drums, clutches, etc.; also the ventilating (Walker fan) and air-compressor plants and boiler rooms. The party went into the mine and saw the coal mined by the so-called "long wall" method. From the workings the coal was traced to the sizing and washing plant. The one-quarter-inch coal product from the sizing and hand-picking house was followed to the washer house, where it was fed into a Robinson washer, thence to the draining sieve and finally to ten pairs of beehive coke ovens, from which 60 to 72-hour coke was obtained.

The first blast furnace was seen at the plant of the Nova Scotia Iron and Steel Company at Ferrona, where there was also a Stein jig-system coal-washing plant and a bank of Otto Hoffmann coking ovens. The theory of the hot blast for the iron furnace was here practically illustrated, the air from two 1,000-horse-power blowing engines being sent through one of three, 3-pass hot-blast stoves, in which the temperature of the air was raised to about 1050° F. before it entered the bustle-pipe of the furnace.

A day was spent at Trenton visiting the steel works of the same company. Twelve Smythe and five Fraser-Talbot mechanical gas producers furnished the gas necessary to heat three brick open-hearth furnaces, having a total capacity of about 100 tons of metal, and one 50-ton Wellman tilting furnace used as a mixer.



Blast Furnace at Ferrona.

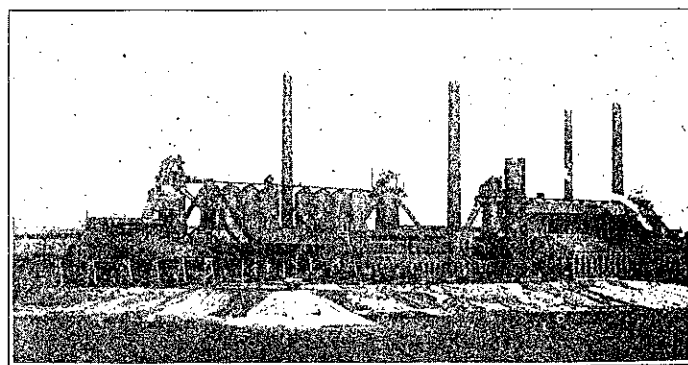
The steel when finished was cast into five-foot ingots, and transferred to soaking pits to equalize the temperature in each mass of steel. From the soaking pits the ingots were taken to the blooming or rolling mill and there rolled and cut into billets, which were reheated and again rolled into rails, fish and bed plates, angle irons, etc. Soft steel with 0.09 per cent of carbon was used for rivets. Hot and cold rolling is carried on in this plant, the best shafting being hot-drawn and double-reeled.

It is interesting to note that the Canadian government pays a bounty of \$3.00 per ton on steel made from over fifty per cent of pig iron. This insures better steel, and indirectly causes a larger production of pig than would otherwise be the case.

From New Glasgow the party went by rail to Sydney, Cape Breton, where it was quartered at the Sydney Hotel for the remainder of its stay on the Island.

On Monday, June 23, the party visited the comparatively new plant of the Dominion Iron and Steel Company, of which Mr. David Baker, M. I. T., '85, is general manager. The plant was found to contain in addition to its four 85-foot blast furnaces and its steel-making plant of ten tilting open-hearth furnaces, a complete coal-sizing and washing plant; also eight banks of fifty Otto Hoffmann ovens each, from which 40% of the gas was used in other parts of the works after the tar, ammonia, naphthalene, etc., had been removed in the gas-washing house. An interesting feature in connection with the washing or purification of the gas, was the manufacture of sulphuric acid from very pure Spanish pyrites, for the precipitation of the ammonia as ammonium sulphate from the wash water through which the gas had passed. The four Campbell-designed blast furnaces, together with the sixteen-battery Babcock and Wilcox boiler plant the Allis 1500 horse-power vertical blowing engines with Julian Kennedy air valves, the 2-pass Cowper-Kennedy hot-blast stoves, the ore and flux heaps with the conveyors, etc., gave an excellent idea of modern blast furnace practice.

In the open-hearth plant the students were given ample opportunity to study the construction and operation of the Campbell



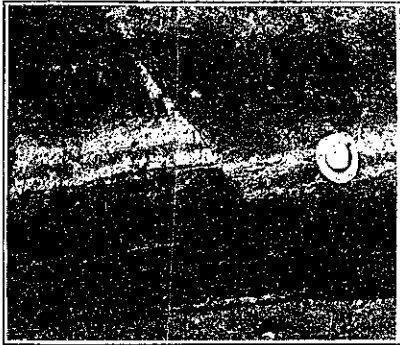
Blast Furnaces at Sydney.

50-ton open-hearth furnaces, together with the regenerative system of heating the air for combustion.

Several trips were made to the Company's coal mines at Glace Bay, where the total daily output is in the neighborhood of 13,000 tons of bituminous coal. The coal was found to

be mined almost entirely by the "pillar and stall" method, in which it was aimed to extract all of the coal in each seam.

At the Dominion No. 2 mine was seen the largest vertical shaft in that part of the country, and one which, when completed, will have a daily output of 6,000 tons of coal. The shaft measures 37 x 11 feet, and extends vertically downward 995 feet from the axle of the hoisting pulley. Two days were spent at Glace Bay in learning the elements of mine and plane-table surveying, and also the laying out of simple railroad curves.



Fault at Sydney.

An entire morning was occupied by a six-mile inspection tour through the workings of the old North Sydney mines. The mining is done by both the "pillar and stall" and "long wall" systems, and at present the workings extend a mile and a half under the sea and twelve thousand feet vertically beneath the ocean bed. This ended the practical work of the summer school, and the next day the party broke up, some going to Halifax by way of the Bras d'Or Lakes, so noted for their scenery and its colorings.

The rest of the party returned by way of Truro, in order to see the much-heard-of "bore" or incoming rush of water from the tide in the Bay of Fundy. A position was selected at South Maitland, near a bend in the Shubenacadie River and at the proper time the bore appeared, though of much less magnitude than had been expected. The bore made

its way up-river with an estimated velocity of about nine miles an hour, the water rising ten feet in fourteen minutes. After a day of sightseeing at Halifax, the party left for Boston on the steamship "Halifax."

The hospitality with which the members of the party were everywhere received, and the interest which the different managers showed in throwing open their plants and mines to the students, have made an impression on the men which will not be readily forgotten. This, together with the untiring efforts of Professor Richards in the arrangement and carrying out of the interesting itinerary, has made the Summer School of 1902 what is probably the most successful one in the history of the Institute.

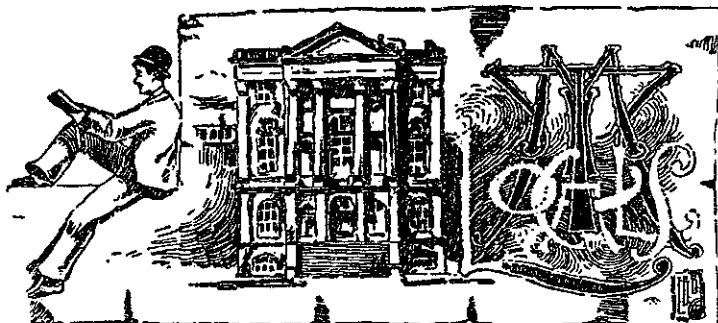
#### Technology Club.

The Technology Club held its Annual Meeting and first Smoke-talk of the season last Tuesday evening. The report showing the condition and prospects of the Club was exceedingly promising.

The following officers were elected for the ensuing year: James Phinney Munroe, '82, President; Francis H. Williams, '73, Vice President; Walter Humphrey, '97, Secretary, and Andrew D. Fuller, '95, Treasurer. For Council for three years: A. F. Bemis, '93, F. L. Locke, '86, E. C. Miller, '79, Montgomery Rollins, '89, and E. G. Thomas, '87. For Council for two years: George Wendell, '92.

After the business meeting Dr. Pritchett gave an informal talk on "The Work of a Bureau-Chief in the United States Government." He showed the duties, the scope of power, and the relation of a Bureau-Chief to his superiors in office, namely, the Secretary of the department in which his Bureau came, the President and with Congress, comparing and contrasting the machinery of the Government to that of a Railroad management. Filled with many personal experiences his talk was very entertaining and instructive.

Refreshments and a general social time made the remainder of the evening equally pleasant.



C. E. Broad, '04, is seriously ill with typhoid.

C. E. Smart, '04, will not be able to return this year on account of ill health.

Freshmen and Sophomores, are you getting ready for Field Day?

"Pat," formerly of the Gymnasium, has been promoted to the halls of Rogers.

An intoxicated man is a rare and pleasing sight — so many of the students seem to think.

Peabody, '06, has been elected temporary manager of the Freshman football team.

The Fall Meet comes off Saturday, Oct. 25. Everybody out to make this a success.

This week's run of the Hare and Hounds Club will be from West Roxbury, Highland Station.

There is room in the Y. M. C. A. for new members. Those not accustomed to being on the outside, get inside.

The Board of Directors of the Class of 1903 set Saturday, Oct. 18, as the day for election of class officers.

The Junior Railroad Engineers had their annual run, with Professors Allen and Robbins as hares, last week.

All men who wish to try for the Glee Club leave name and address at the "Cage" for O. S. Swenson or L. G. Wilson. All parts are wanted.

Mr. H. L. Seaver of the English department, has been elected, in recognition of his assistance to THE TECH during last term, an honorary member of the board.

The Civil Engineering Society will hold its first meeting of the year on Monday, Oct. 20. Professor Swain will speak. Notices as to the place of meeting will be posted.

The Institute Committee held a meeting Monday, Oct. 13, at which the treasurer's report was received and discussed. Dean Burton was elected an honorary member.

*Technique 1904* is not published until April next. The *Technique* now on sale is *Technique 1903*. A few copies not taken last spring may be had in return for \$1.50.

Mr. Smiley, the college secretary, and Mr. Kenison spoke about the importance of bible-study by Technology men, before the Y. M. C. A. last Tuesday afternoon. Classes under these men meet Sundays.

Dean Burton has been chosen to represent the Institute at the installation of Dr. Frank Strong as chancellor of the University of Kansas on Oct. 16. This, with the inauguration of President James of Northwestern, will necessitate his absence from the 15th to the 23d.

Class of 1905 held a class-meeting in Huntington Hall, on Oct. 6. The managers of the football, relay and tug-of-war teams were appointed as the committee to meet the Advisory Council in regard to the Field Day, Nov. 15. Messrs. C. E. Warren, W. Tufts and J. M. Lambie were appointed an election committee.

Wednesday, Oct. 8, the third-year men of Course I. made a reconnoissance survey for a railroad to connect the Boston & Albany at Wellesley with the Massachusetts Central at Wayland. Last year's class located a quarter of the road and this year's class expects to locate another quarter.

The Sophomore football team has elected as its captain for the coming season, Edwin B. Hill, quarter-back of last year's successful team. S. S. Stevens has been elected manager. Eight of last year's team are back. Boggs, Kenway, Lombard, Goldthwait, Eastman, Schonthal, Lindsley, Dean, Whitney, Taylor, Cowper and Bay are among the men trying this year.

Class of 1906 held a class-meeting at the Armory after drill, on Wednesday, Oct. 8. The meeting was called by a member of the Junior class and Sophomores were not admitted, consequently none of the Class of 1905 were elected. W. M. Van Amunge was chosen president and R. Scannell, secretary, *pro tem*. T. A. Nolan was elected manager, and O. L. Peabody, captain, of the football team. A collection was also taken.

The following men have been nominated for officers of Class of 1903:

President, Geo. W. Swett, Horace S. Baker, W. W. Burnham; 1st Vice President, Hewitt Crosby; Treasurer, S. K. Baker, T. A. Olmstead; Secretary, C. P. Nibecker; Institute Committee, Howard S. Morse.

#### Hare and Hounds Run.

The run last Saturday, at Winchester, brought out 33 men. The hares, Allen, '05, and Palmer, '04, laid a trail of  $5\frac{1}{2}$  miles in the Middlesex Fells. The false trails fooled the hounds a few times and finally about 4 miles out the hounds got separated, the main bunch following the real trail one mile further and the other bunch of six cutting across country and striking the right trail only half a mile from home. The result was that these six came in seven minutes after the hares and thirteen minutes before the main bunch of hounds. They were disqualified from finishing in first places because they did not wait for the other hounds.

The hares did the run in fifty-nine minutes and the main bunch of hounds in one hour, nineteen minutes. The first hound who finished in the main bunch was Riley, '05, followed by Burke, '05. The next run will be posted on bulletin as soon as arranged.

The next run, Saturday, Oct. 18, will be from Highland Station, West Roxbury. The train will leave the Back Bay Station at 2.22 P.M.; fare 20 cents.

#### Modern Fables.

BY LEMON ADE.

The Modern Fable of the Boy who was High Shakes at High School, but was Telescoped Down to Merely One at College.

In the Third Row from the Front at the Popville High School — rah! rah! rah! — there sat a Sitter, otherwise known as James Russell Lowell Farmington. A Pair of Shoes denoted emphatically where his Feet were. His Trousers seemed to be forgetting how big a Boy our James was getting to be, Bless him. A Close Observer of his Collar might have caught on to a Plaid Necktie of large Area near it, that looked as if it had been put away for Several Years in a Dictionary. The Contour of his Think-sphere was such as makes us wonder what Nature could have been thinking of at the Time. For the Life of you, you could not say whether his Ears were attached to the Sides of his Head, or his Head to his Ears. But be that as it might, James was the Entire Bingo at the Popville High.

At the Election for the new Class President, it was moved that the Secretary cast One Ballot for J. Farmington. And thus began his Brilliant Career, which was so soon to be Squashdoodled in the very Zenith of its Ascendancy by his crossing the Threshold at Graduation, with the Sea of Life stretching out before him. Let us examine more in Detail his Wonderful and Useful Life.

When a Mere Boy in his First Year at High School, he was made Chairman of the first Meeting, before Anyone knew what a Chairman was, because Everyone knew that James was Gassy, and that his Father kept the Feed Store. Accordingly, James Russell drew himself up to his Full Height and, after knocking on the Desk with a Ruler, appointed a Committee of Five to select a Class Color and a Class Flower and a Class Pin and a Class Motto, and perhaps several Class Vegetables and other Class Junk besides. James, desiring to Ring in thoroughly with the Girls, appointed Three of these Highly Necessary Evils to Serve on the Committee. For a Year they were Rattletrapped as to whether Pink and Green were More to the Good for Class Colors than a perfectly lovely Combination of Mauve and robin's egg Blue, just too Sweet for Most Anything. So they finally landed on Crimson. Their Pin somewhat resembled a Policeman's Badge, and on it was the Class Motto: "*E Pluribus Erin Go Bragh*," the Free Translation

of which is: "We are the Future Presidents." So for Four Years this High School Hercules worried Cushing's Manual, every Now and Then announcing that a Motion to adjourn was in Order. On Graduation Day he stilted through the City Hall, carrying on high a Silken Banner with the Class Numerals. When the Chief Guy of the School Committee Blew off that it was his Pleasant Duty to tie James Russell Lowell Farmington to a Diploma, there was a Loudness resembling the Clapping of Many Hands. Was such a Brilliant Life to be touched off in front of the Fizz Faucet of the Drug Store? Not on your Thumbtacks! Our Institutions of Higher Learning needed just such Men as J. R. L. Farmington.

After he had his Initials painted on the End of his Dress-suit Case, he Broke loose for the Home of Rough Houses and Crooked Pipes and Funnily Shaped Hats. After he had registered by signing his Name to several Hundred Pieces of Reading Matter, he decided to Butt in. At the first Meeting of the Class, Somebody else, by a Peculiar Oversight, was made Chairman. When the Nominations for President were being blown in, James sat in his Seat, spasmodically opening and closing his Mouth like a Fish out of Water. He was trying to nominate himself, for he saw it was his Only Chance. A motion was made to adjourn, and in the Mad Rush for the Door, our Hero found himself carried along like a Smudge on the end of a Battering Ram. Failing to arrive in the Political Field, he decided to work the Literary Gag. He was about to move himself toward the Door behind which the Office of the College Monthly nestled, to announce his Willingness to Boost the Editor. He was about to knock, when the Janitor, not knowing his Name, and that his Father kept the Feed Store, put him wise that the Lavatory was Two Flights down and to your Right. And so the Former Editor of the Popville High School *Fish Horn* slunk away to the Shadows. There were no Special Cases for James. He did not seem to Mitre anywhere. No one knew that this Sandy-haired Solomon had once picked a Committee and at another Time had wildly waved a Long-may-it-wave on Memorial Day in a Mad Burst of Eloquence. It was a Clear Case of a Light under a Bushel, bolted down with Iron Bars and locked up in a Safe with a forgotten Combination. Exit James from the Lime Light. Six Years later he quit, sheepishly shambling home with a Sheepskin.

Moral.— High School and College are a different Pair of Sleeves.

### Civil Engineering Society.

The first meeting of the Civil Engineering Society will be held next Monday afternoon at 4.15 P.M., in Room 22, Walker Building. All men in Courses I. and XI. are requested to be present, as Professor Swain is to address the meeting, and it will surely be of interest to all men in the department, whether they have formerly been members of the Society or not. Everybody is invited. Dr. Pritchett and the Professors of the Civil Engineering Department will be present.

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1905.

An urgent call is made to the members of the class of 1905 to come out for the class relay team. One-half of the old team is gone and new men must be gotten immediately. Every candidate will be given a good show. Please report to T. E. Jewett or F. B. Riley as soon as possible.

### The Society of Arts.

At the 569th regular meeting of the Society of Arts, last Thursday, Dr. Duncan spoke on the subject of "Long Distance Electrical Railroading." After a review of the growth of electrical railroading up to the present time, he pointed out the failure of the various systems to meet the requirements of the subject in hand. The great difficulty is that for railroads it is impossible to use the small units of transportation run at frequent intervals as is the custom in tramway and interurban electrical service.

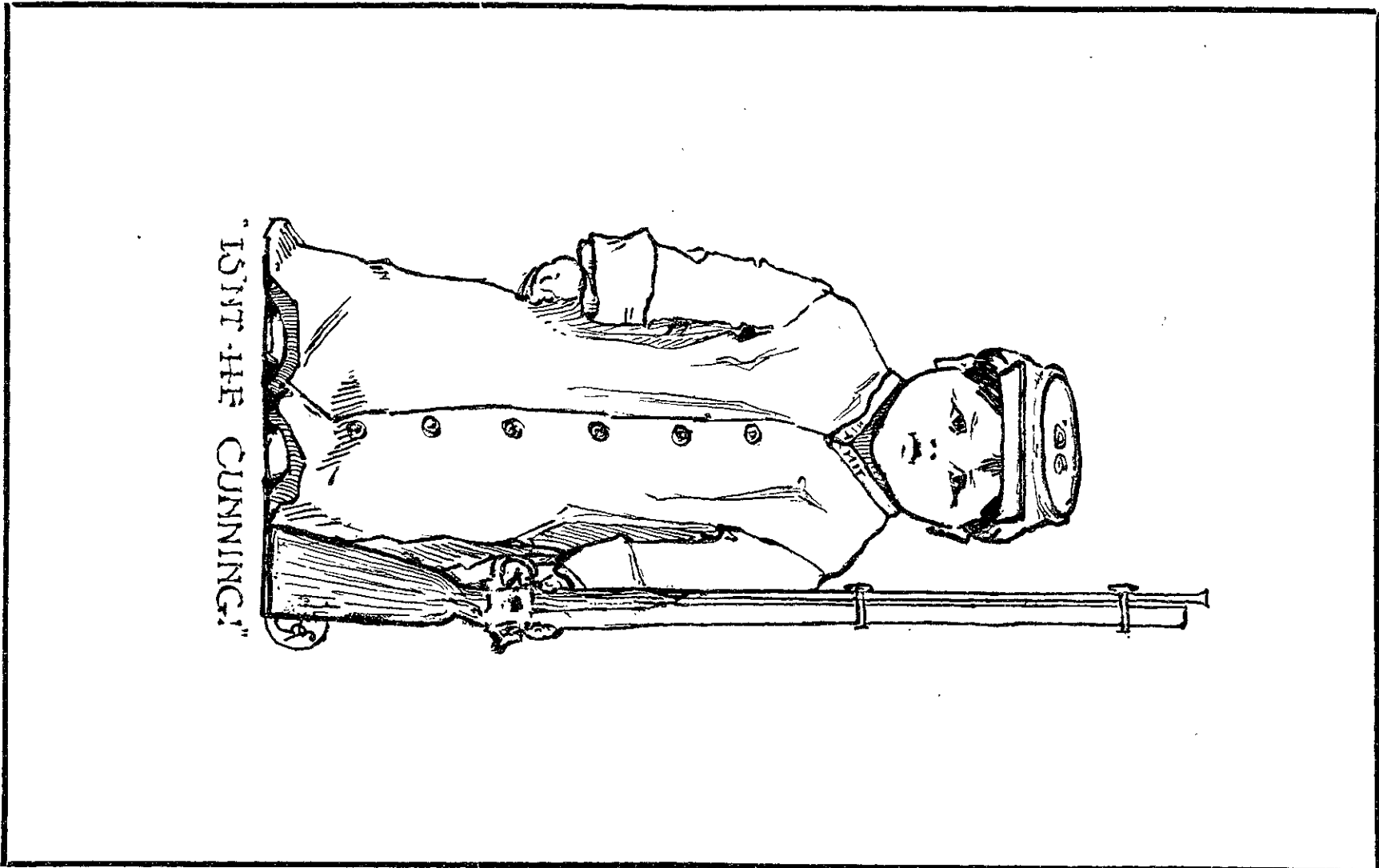
The subject was very interestingly and ably handled.

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### NOTICE.

The *Technique* Board for the class of 1904 calls attention to the \$25 Prize offered for the best cover design for *Technique* 1904. Particulars may be found on the *Technique* Bulletin Board, Rogers Corridor.

THE TECH





'98. Edward P. Lane, I., with the Elmira Bridge Company, Elmira, N. Y.

'98. Edward W. Ritchie, IV., assistant engineer City of Havana, Havana, Cuba.

'98. Mary J. Thomson, V., teacher of science, The Craven School, Newark, N. J.

'99. Carl S. Milliken, VII., teacher of science, Lawrence High School, Lawrence, Mass.

'99. Stanley Motch, III., with the Pennsylvania Steel Works, Stilton, Pa.

'99. Frank R. Swift, X., mechanical engineer with Cluett Peabody & Co., Troy, N. Y.

'99. Denzil H. Taylor, I., provincial supervisor, Lavag, Ilocos Norte, P. I.

'01. Albert W. Higgins, X., draughtsman with Sayles' Bleacheries, Saylesville, R. I.

'01. Robert S. Littlefield, XIII., with Wm. Cramp & Sons, Philadelphia, Pa.

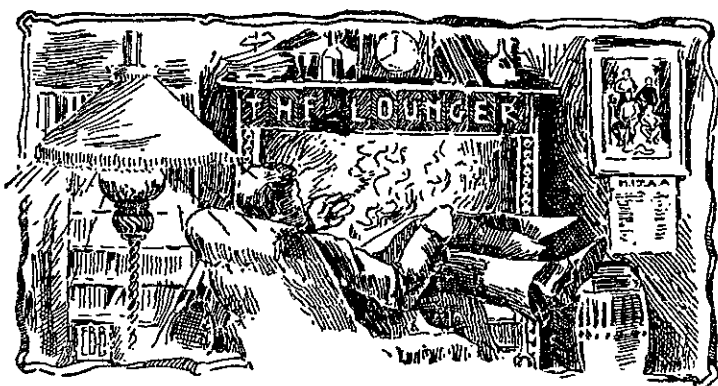
'01. Henry C. Marcus, III., mining machinist in copper mines at Ely, Nevada.

'01. William I. Sturtevant, VI., with the Seattle Electric Company, Seattle, Washington.

'01. N. Loring Danforth is now with the John W. Danforth Company, of Buffalo, N. Y.

'02. J. Clyde Fruit, a former member of the Tech Board, was taken sick with typhoid June 11. Ten days later he was removed to the Massachusetts General Hospital, where he has been ever since. He hopes to leave the hospital this month.

'02. L. S. Cates is home from Mexico for this week.



The LOUNGER begs to submit the following annual report, and explains that he uses the editorial "we" in place of "I" from an unquenchable, inborn sense of modesty.

The school year of 1901-1902 opened up well with all the old professors back, and fully half the students. The tuition fees began coming in as usual, and nothing happened except the failure of the appearance of a new edition of Letter Plates. Evidently the rumor that a new letter was to be added to the alphabet was false. The fact that no new edition appeared is thought by some to indicate that for the present no radical changes are to be introduced into the alphabet and that the method of counting up to ten will continue in vogue. Through our efforts, the plans of the Descriptive Geometry department to open school a week earlier in order to give the first lecture, were defeated. A plan to order books from Clarendon Street three years beforehand in order to get them in time for the first recitation was laid under the table by Janitor Jack. A communication was read from P. G. L. Hilken urging us not to let his absence interfere with the Tabular View. On our recommendation it was voted that the proceeds of summer school go toward the purchase of lawn swings for the members of the Tech Board. Professors Faunce and Adams objected, but their objections were overruled by Professors Clifford and Blachstein. There being a deficit of \$36.75 in the treasury, it was voted to raise the price of tuition fifty dollars. The deplorable condition of Engineering Alley was recognized by all, and on our recommendation it was voted that a committee of twenty-five of the most practical of our engineering professors be appointed to look into it. They looked into it, and reported that a little of some hygroscopic salt, such as sodium nitrate, if sprinkled around the edges might absorb the water which so strangely seems to settle there on a rainy day, and thus prevent it from getting muddy. The results of the investigation were particularly pleasing to us because they disproved the truth of the oft-heard remark that theoretical men can never be practical, and showed that even our professors are perhaps unconsciously absorbing the spirit of original research which is the keynote of

Tech. A discussion then arose as to whether the sprinkling of the sodium nitrate was properly the work of the Chemistry or the Highway-Engineering department. The Engineers, after looking up the word "sodium nitrate" in the dictionary, found that it was a chemical, and therefore maintained that it was obviously the business of the Chemical Department. Both sides being unable to arrive at any conclusion they decided to let the matter drop. It was moved to begin on the plans of the new Lowell building as soon as we could get back our triangular scale, which was loaned. This motion was rather weak, so it was carried. We are pleased to state that the building is now completed with the exception of an eraser to one of the blackboards, which is now in the hands of an upholsterer. On account of the increasing amount of work of the Secretary, three new offices were created, namely, a Registrar of Kicks, a Keeper of Attendance Cards, and a Signer of Reports. It was voted that the names of these offices be placed over the door. This has been done, but owing to the fact that the letters are not to be found in the latest revised edition of the Letter Plates, it is our opinion that they should be immediately removed. A letter from Arlo Bates in Europe, which had been received during the summer, was opened and read. It stated that he was in no way responsible for the falling of the Campanile, he having at the time none of his poetry with him, and being prevented from speaking by a sore throat. It was voted to send a letter of congratulation to Mr. Erhardt, and also the usual present for such an occasion—a silver-plated pickle fork. We are glad to note that Theodore Metcalf has placed a fine large clock near the Walker building. On the face of it, the reason is not evident. We presume, however, that it means that students can now get sodas there on tick. This is our report. We must now go and settle the coal strike.



It is with satisfaction that THE LOUNGER notices anything appear at Tech which is a relief from the daily grind of work—the passing of planes, the dividing through by  $x$ , the eliminating of constants, the writing of graphic symbols. For instance, is it not an education in itself to see the raw Freshman stand in open-mouthed astonishment before one of the new *Technique* posters announcing prizes for the best grinds and photographs? Perhaps visions of wealth are dancing before his eyes as he remembers with a swelling heart, how the folks "down to home" used to remark what fine "pitchers" he took with his little Brownie camera. Or perhaps the strawberry color of the poster is responsible for that tender, fawn-like look in his soft blue eye. Besides the posters and the Freshmen, however, there are other things to salt the watery soup of the Tech man, if he

will only look about him. Harvard may have its John the Orangeman and its old traditions, but it hasn't any Engineering Alley nor any pretty little Bursar's office. The various bulletin-boards are another source of diversion to the mind-weary. Again, watch the Freshman as he saunters up to the Civil Service announcements and makes his plans for the time six years hence, when he will graduate, and with a good cigar in his mouth and his feet on the table, will endeavor to give Uncle Sam a correct imitation of a man sitting in a chair holding down a government job. For that tired feeling when cosines and differentials and other drivelling rot have lost their charm as soothing syrups, THE LOUNGER especially recommends that you plan an elevation of three flights, and have a quiet heart-to-heart talk with Mr Burrison. Ask him to repeat those dear little jokes which we are never tired of hearing—about the hash, and the one about the hen and the street. After all, the old jokes are best. When President Pritchett last year asked the students what their chief forms of amusements were, THE LOUNGER does not doubt but what the replies were somewhat as follows:

"Asking Mr. Burrison if he ever saw a cigar-box."

"Explaining to Freshmen that the Natural History Building does not belong to Tech."

"Stamping my feet in the English lecture."

"Wishing I was home."

"Selling my second-hand drill suit, for which I paid five dollars, to a Freshman for eight dollars."

"Cussing."

In case all these expedients fail to introduce one single little drop of pleasure in the black and gloomy cave of learning, you may sit on the Rogers steps and admire the Co-eds as they flit by—the tall one with the light hair and the innocent, childlike face; the little one of quiet mien and dark brown hair, and a walk all her own; the vivacious one in the dark blue mohair suit with a true blue diaphanous veil on her hat which tries in vain to caress her raven hair. THE LOUNGER, you see, has 'em all down pat. And if not one amusement in the preceding catalogue makes you think that Tech is not what General Sherman said war was, then you require the services of our new Medical Adviser.

### Calendar.

*Saturday, Oct. 18.*—Hare and Hounds Run from Highland Station, West Roxbury. Train from Back Bay Station.

*Monday, Oct. 20.*—Professor Swain addresses the Civil Engineering Society, Room 22, Walker.

*Tuesday, Oct. 21.*—Regular Y. M. C. A. meeting 4.10 P.M., 11 Pierce.