

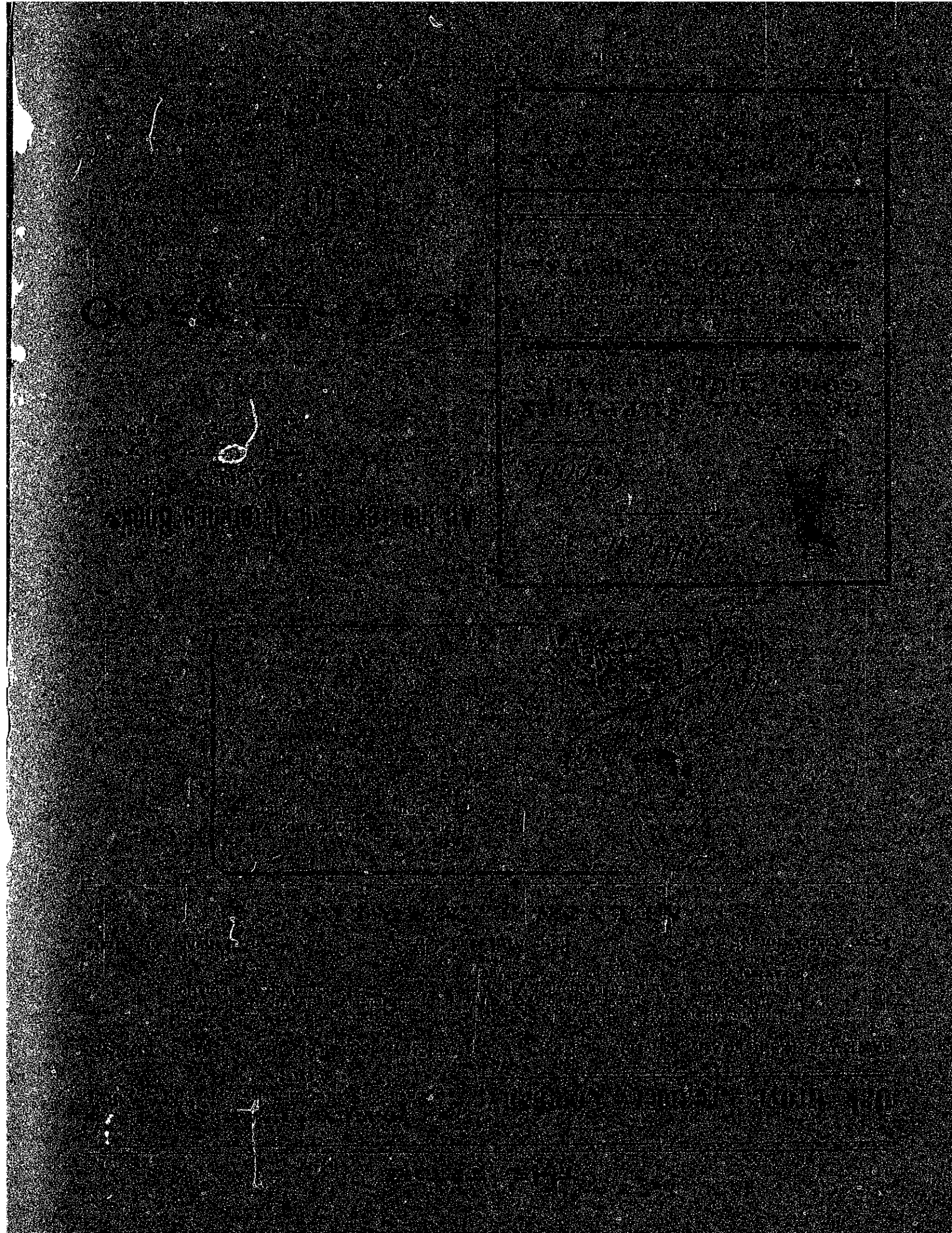
# THE TECH

VOLUME 1971

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# THE TECH

VOL. XXII.

BOSTON, APRIL 23, 1903.

NO. 25.

## THE TECH

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

ROLAND B. PENDERGAST, 1904, *Editor-in-Chief*.  
GRAFTON B. PERKINS, 1905, *Assistant Editor-in-Chief*.  
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OFFICE HOURS:

Editor-in-Chief . . . . . Monday, 10-11 A.M.  
Business Manager . . . . . Wednesday, 11-12 A.M.

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

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

*All communications with the Alumni Department should be addressed to the Alumni Editor.*

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### NO TRIANGULAR MEET.

**W**E greatly regret that it was not possible to have a Triangular Meet with Brown and Tufts this year. When the meet was proposed the managers of the track teams of those two colleges were so much in favor of it that it was expected the arrangements would be satisfactorily completed. When the managers presented the

matter to their athletic associations, the decision was adverse to a meet, as will be seen by the letters published in another column. This leaves only the Dual Meet with Dartmouth and the Worcester Meet on the calendar for the Track Team.

### CO-OPERATIVE SOCIETY.

**A**TENTION is called to the financial statement of the Co-operative Society on another page, which shows that in spite of ridicule, it has accomplished excellent and praiseworthy results. Too few of the students appreciate the society's scope and work, an account of which may be found in the first issue of this volume. Here is an opportunity afforded every student, not only to benefit himself by obtaining discounts on various commodities, but also, at the same cost, to donate fifty cents toward a scholarship fund. Next year we hope the purchase of co-operative tickets will be universal among the students, so that the scholarship fund may be considerably enlarged.

### BACCALAUREATE SERVICES.

**T**HE Senior Class are to be congratulated on the fact that Rev. Dr. Leighton Parks, Rector of Emmanuel Church, has consented to give the Baccalaureate sermon this year. The Class is very grateful to him, and also to Rev. E. W. Donald, who has granted the use of Trinity Church as has always been the custom, except last year, when repairs were in progress.

### Track News.

The weather of the past week has been a great handicap to the track team, preventing systematic outdoor work, but regular training has gone on so far as possible in the Gym. Interest now centers in the Class Games to be held this week. The new Tech field, opposite the Technology Chambers, will be in good condition for these games, though recently it has been better fitted for the training of a swimming team than a track team. It is now being cleaned up and will be in first-class shape by Friday.

On Friday, at 4.30 P.M., at the new field will take place the high jump, pole vault, broad jump, putting 16-lb. shot, throwing discus, throwing 16-lb. hammer.

Saturday the two-mile bicycle race will be contested at the Charles River track at 2 P.M. At 3 P.M., on Soldiers' Field, the remaining events will be run off. These are 100 and 220-yard dashes; the quarter, half-mile and two-mile runs, and the high and low hurdles. All the events are scratch and entries will remain open till games start. As this is the only meet in which the management recognizes any competition between *classes*, it is hoped that every man will attend, and by so doing give an exhibition of "class spirit" in a sane and proper way.

### Financial Statement of Co-operative Society.

In the columns of THE TECH of October 9, 1902, there appeared an article accounting the advantages of the Co-operative Society to the student. A review of the work accomplished since then may be of interest to thinking students. A few facts and figures will show most readily what has been done.

This has been the most successful year in the history of the society. It was a noticeable fact that this year more upper classmen have bought and used membership tickets than heretofore, and in their use has been found great advantage. For example, from one

firm alone, on the "affiliated list" — the Continental Clothing House — \$431.89 has been refunded to students as ticket discounts on purchases since September.

The amount given in scholarships has also been greater than ever before. Last year \$612.50 was granted, while the society has been able this year to give \$887.50, besides leaving a balance in the treasury of \$471.11 — an increase of \$35.56 over last year.

During the past five years the society has expended in scholarships \$3,450, and since its organization, \$7,812.

It has been the policy of the society in the past to grant scholarship assistance in a quiet way, the student himself not knowing whence his aid came. It is now believed that in future more fairness will be shown to all concerned by notifying the recipient of a grant.

Attention is called to the fact that a short time ago the society received a gold medal certificate of award for its exhibit in the Department of Economics at the Paris Exposition. This certificate has been framed and is hung in the Trophy Room. Recently a bronze reproduction of the medal itself was received, and will shortly be placed on exhibition.

It is hoped that bringing to notice what the society has actually done this year will lead the students to avail themselves in larger measure of the benefits of the society.

LAWRENCE H. LEE,  
*President.*

### Student Dinners Discontinued.

Now that spring has brought pleasant evenings the Student Dinners at Tech Union on Saturday nights will be discontinued for the remainder of the term. They have afforded a chance for the students to meet each other in a way not provided by any other gathering, and have proved so popular that they will be continued next fall with the commencement of the term.

### Scholarships.

Each applicant for a scholarship (except a state scholarship) for the ensuing year should hand in his application blank at the Registrar's office, and leave his name before April 24, on a slip of paper, enclosed in an envelope, in Professor Dewey's box in the Registrar's office.

With the name, *state the class, course and all free hours* for consultation. Each applicant will be notified through the "Cage" in regard to date selected for consultation. Students applying, therefore, should inquire at the "Cage" for mail.

State scholarships: applications should be made to the Secretary of the State Board of Education on blanks to be furnished at the State House.

While the State Board of Education has full control of the award of state scholarships, it is customary to submit all applications to the Faculty for endorsement as to standing, and for such advice as other data in the possession of the Faculty may warrant. For this reason, while the Scholarship Committee has no authority to request conference or further information from applicants for state scholarships, it will always be glad to receive and consider all information that may be furnished. In any case, students intending to apply for state scholarships are requested to notify the secretary to that effect.

H. W. TYLER,  
*Secretary.*

### Architectural Society.

The April Smoke-talk of the Architectural Society was held last Thursday night at the Union, about thirty being present. Mr. T. H. Skinner, a graduate and former instructor of the Institute, gave in a most interesting manner a short history of the University of Virginia and a description of the recent rebuilding and enlarging done there. A light lunch was served and the rest of the evening was passed with music and song.

### No Triangular Meet.

We print below the letters received by the Advisory Council in regard to the proposed Triangular Meet between Brown, Tufts and Tech.

BROWN UNIVERSITY ATHLETIC ASSOCIATION,  
TRACK DEPARTMENT.

Providence, Rhode Island,

April 14, 1903.

MR. FRANK H. BRIGGS,

Ch. Advisory Council on Athletics, M. I. T.

DEAR SIR: Your proposition under date of April 8 was presented to our Committee on Track Athletics, and it did not meet with the approval of the board. Personally I regret that we cannot participate in a triangular meet with M. I. T. and Tufts. However, wishing you success in your coming meets and thanking you for your invitation, I remain,

Very truly yours,  
(Signed) FRANK L. DILLON,  
*Manager.*

TUFTS COLLEGE, MASS.,

April 14, 1903.

MAJOR BRIGGS,

Chairman of Athletic Council,  
M. I. T., Boston, Mass.

MY DEAR MAJOR BRIGGS: We told our students, immediately college opened, of the proposed meets, and left it to their decision as manifested in interest and practice what we, the Board, would do. In the five days since then, the Board judges that not enough of college interest exists, that too small a number of men will train to make a meet expedient.

With M. I. T.'s already good schedule, we trust that no disappointment at Tufts' action will exist.

Yours sincerely,  
(Signed) C. C. STROUD,  
*Director Track Athletics.*

### Mechanical Engineering Society.

An interesting address, a large attendance, enthusiastic singing, and an excellent lunch, all combined to make a great success of the meeting of the Mechanical Engineering Society last Thursday at Technology Club.

Mr. F. B. Gilbreth gave an address which was easily the feature of the evening. The fact that it was his firm which completed the Lowell Building 54 days ahead of the contract gave additional significance to his talk on "Handling men and material for rapid construction." The many slides exhibited, mostly pictures of the Lowell Building, illustrated most forcibly the points brought out. It is impossible to do justice to Mr. Gilbreth's talk, as it was full of things interesting to Tech men. He emphasized particularly the necessity of buying in the cheapest market and of providing for the proper sequence in the arrival of material. The value of labor saving devices was illustrated by showing an improved staging and a gravity concrete mixer of his own invention. He painted a very brilliant future for the young engineer, especially after he has had practical experience.

Before the address there was a short business meeting. The committee appointed to investigate the matter of a shingle reported a design, but no action was taken. It was voted unanimously to present the retiring president, J. F. Ancona, '03, with a gavel, in recognition of his services in building up the society.

### The Chess Club.

The New England champion, Mr. A. M. Sussman, played 14 simultaneous games with members and visitors of the Chess Club, Saturday, at the Union. The only winners were Messrs. W. I. Lourie and M. Cline. It was noticeable that the players, with one exception, used but two methods of play, five using king's gambit and eight Ruy Lopez. Mr.

Lourie won by the latter, while Mr. Cline played a two knights' defence. About two hours was required for the completion of the game. Professors Pope and Locke both played. The Chess Club wishes to increase its membership, and would like to include all Tech chess players, in order to be as representative as possible of Tech in college games. It is not an expensive game nor one which requires constant training, and deserves more attention than is accorded here.

### Tech Show.

Less than a week remains before the first performance of "A Scientific King," but everything is running smoothly and very encouraging performances are promised. The dress rehearsal will be made as nearly perfect as possible, and should be as good as the final performance. "Patriots' Day" the men were given an all-day rehearsal, and during this week finishing touches will be put where required. Next week's TECH will contain a detailed account of the plot and action of this year's show.

### Mining Engineering Society.

Professor Richards gave an interesting lecture on "Hydraulic Concentration" on Friday, April 17, before the Mining Engineering Society. In the book soon to be published the subject will be divided into three main heads. An extremely ingenious method of separating ore of different sizes has been devised for experimental work, by a development of the fact that the friction of large pieces of ore falling in a current of water is greater than that of small pieces. The separation is made by screens and its satisfactoriness depends on the strength of the current of water. The lecture was a continuation of that on "Jigging."

Baseball.

MALDEN H. S.—20 TECH '05—13.

After having been deprived of practice for a week by bad weather, '05 baseball team made a fairly good showing against Malden H. S. at Malden, last Saturday. The weather was too cold for good ball playing, the first part of the game being played in a snow flurry. '05 excelled with the stick, securing a total of 21 hits, among which was a pretty three-bagger by Dissell, a two-base hit by Dean and some timely singles by Burns and Hinkley. The team owes its defeat largely to infield errors, most of which were inexcusable.

TECH '05—16 STONEHAM H. S.—10.

Sophomore baseball team showed the effect of the practice obtained in Saturday's game by trimming Stoneham H. S. to the tune of 16 to 10. The work of the infield was much improved. A. D. Smith pitched a very steady game allowing only three men to walk to first. Captain Dean made a pretty three-bagger in the sixth, while Burns made a two-base hit earlier in the game. The stick work of the whole team was timely.

HARVARD '04—12 TECH '06—2.

The first game of the season for the 1906 baseball team was played with the Harvard 1904 team at Soldiers Field, Saturday. The fierce wind and the condition of the field prevented fast playing. The Freshman lost 12-2 on account of inability to hit, joined with absolute lack of team play.

H '04	12 runs	11 hits	2 errors
Tech '06	2 runs	no hits	2 errors

TECH '06—14 FRANKLINS—11.

On Monday the Freshman played the Franklins at Franklin Field. This game was more satisfactory in that the Freshman won, but the game was very loosely played.

Tech '06	14 runs	14 hits	10 errors
Franklins	11 runs	9 hits	6 errors

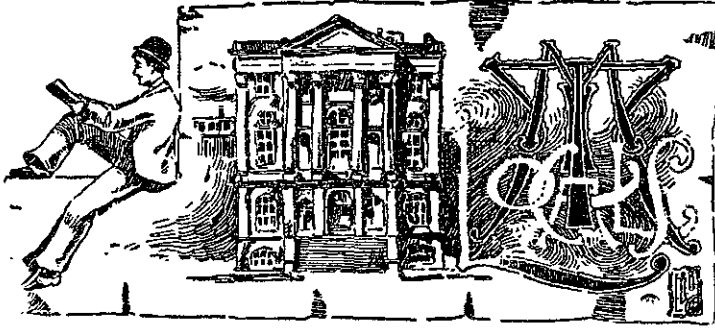
Course II.

The Locomotive Option Seniors of Course II., accompanied by Professor Lanza, visited the Baldwin works in Philadelphia the latter part of last week. Two of the men left on Wednesday, the Professor and the remaining men on Thursday at one o'clock. The Course II. Seniors turned out in a body to see the party off. When the train on which were the locomotive men, who had boarded it at the Terminal, came in, Professor Lanza got aboard. A considerable stop was necessary on account of baggage, and during this time the Back Bay station resounded with Tech yells—the long Technology yell, We are happy  $\frac{M}{Y}$ , (M Y over I) etc., all with a Course II. on the end. As the train pulled out, one more yell, wishing Professor Lanza and the locomotive men a pleasant and safe trip, was given. A greater part of the crowd proceeded then to the Tech lunch-room and found that crackers and milk and shredded wheat was all that was left for lunch.

The mill option, Course II., spent an entire day, Friday the seventeenth, at Manchester, N. H. The crowd, accompanied by Professor Schwamb and Mr. Haven, left at 8.30. Arriving at Manchester the men were taken through the Manchester Print Works to observe some novel electric driving, the rest of the morning being spent in the mills of the Amoskeag Mfg. Co. Owing to the kindness of Mr. Thompson, a former Tech man, the men had a most pleasant and instructive time. Dinner was served at the Dairyfield Club. The party reached Boston at about seven, pretty well tired.

North End Games.

At the Patriots' Day games of the City of Boston the following Tech men won places: M. A. Coe and D. R. Franklin, second and third in the 440-yard run, and R. P. Nichols second in the 880-yard run. Other Tech men entered, but owing to large handicaps many of our best men failed to win places.



We are pleased to state that Mr. J. A. Fremmer, '04, has returned to the Tech Board.

1905 class canes are now ready and should be called for at Collins and Fairbanks.

The class in Municipal Sanitation visited the City Refuse Utilization plant on Atlantic avenue last Friday.

At the recent meeting of the N. E. Mathematics Teachers Organization, Dr. Tyler was elected a member of the council.

Three banners emblematic of Tech Field Days, 1901 and 1902, and of the Brown Meet in 1899, have been sent to Mr. Cronin for the Trophy Room.

In a competitive drill at Lowell on the 15th, open to the militia and the M. I. T. Cadet Corps, J. G. Barry, '06, won first prize for individual drill.

The Hare and Hound run was declared off last Saturday, as only five men showed up. Since the attendance has rapidly dropped off lately it has been decided not to hold any more runs this term.

A meeting of the Association of Class Secretaries will be held Thursday, April 23, to consider principally a plan to obtain records of the undergraduates by furnishing the class secretaries with card catalogues.

Up to April 19, three students have qualified this year as first-class marksmen under

the Institute Rules and Ratings for Rifle Practice, as prescribed by Captain Baird. 1, S. A. Nash; 2, W. H. Foster; 3, J. G. Barry.

A number of Seniors conducted a twenty-four hour test on the new pumping station of the New Bedford water works last Friday and Saturday. The test was by Bartlett and Kearney (Course II.), who were assisted by six Seniors and one Junior.

The members of the senior class in civil engineering are planning for a two days' canoe trip on the Charles River next Monday and Tuesday. They intend to take canoes at Dedham and paddle up to Natick the first day and return down the stream the next day. Several of the fourth year instructors are planning to go on the trip and Professor Swain has allowed the class a holiday to make the excursion possible.

The men trying for '05 team must report for practice every afternoon this week, reporting either at the Gym at 4 P.M. sharp or else going directly to the practice field (Circus grounds) on Huntington Avenue near Fenway Entrance. All men must report dressed to play. No more long-trouser-low-shoe practice.

Unless a game can be arranged for Saturday, April 25, the next game will be with Tufts at Tufts Oval, Tuesday, April 28.

The Sophomore Dinner will be held at Tech Union to-morrow, April 24, at 6.30. The tickets are on sale in Rogers Corridor and the lunch-room, or may be obtained of members of the committee. President Pritchett, Dean Burton, Captain Baird, Professor Clifford, Mr. Rand, and, if possible, Professor Cross, will be present, regrets having been received from Professor Bates. It is hoped that every member of the Class who can go will do so. The dinner will be served at one dollar per plate. No tickets sold after Friday noon.

## CALENDAR.

THURSDAY, APRIL 23.

- 1.30 P.M. ELECTRICAL ENGINEERING SOCIETY.  
Excursion to General Electric Company at Lynn.  
Meet at Walker Building.
- 4.05 P.M. REGULAR BASEBALL PRACTICE for  
Class Teams. Meet at Gym.
- 4.15 P.M. TECH SHOW REHEARSAL.
- 6.45 P.M. WALKER CLUB at Tech Union. Henry W.  
Peabody will talk on "Ship Subsidy in United  
States."
- 8.00 P.M. SOCIETY OF ARTS at 22 Walker. Francis  
E. Stanley: "Some problems to be solved in the  
building of the perfect steam-propelled auto-  
mobile."

FRIDAY, APRIL 24.

- 8.40 A.M. - 9 A.M. TREASURER JOHNSTON in  
Rogers' Corridor to receive '05 Class Dues.
- 2.00 P.M. LAST OPPORTUNITY to get '05 Dinner  
Tickets.
- 4.05 P.M. REGULAR BASEBALL PRACTICE.
- 4.15 P.M. TECH SHOW REHEARSAL.
- 4.30 P.M. CLASS GAMES at New Athletic Field.  
Field events.
- 6.30 P.M. 1905 ANNUAL DINNER at Tech Union.  
Tickets, \$1.00; can be obtained in Rogers Cor-  
ridor or the lunch-room Thursday and Friday.

SATURDAY, APRIL 25.

- 2.00 P.M. CHESS CLUB at Tech Union.
- 2.00 P.M. CLASS GAMES at Charles River Park.  
Bicycle race.
- 3 P.M. CLASS GAMES at Soldiers' Field. Track  
events.

MONDAY, APRIL 27.

- 4.15 P.M. TECH SHOW REHEARSAL.
- 8.00 P.M. TECHNOLOGY CLUB Talk by Mr. H. W.  
Gleason on his "Rambles in the Canadian Alps."  
It will be Ladies' Night.

TUESDAY, APRIL 28.

- Exercises suspended.
- 2.00 P.M. "A SCIENTIFIC KING" Dress Rehearsal  
at Hollis Street Theatre.

WEDNESDAY, APRIL 29.

- 7.45 P.M. ANNUAL SPRING CONCERT AND  
DANCE of Musical Clubs at New Century  
Building.

THURSDAY, APRIL 30.

- 12.00 M. TECHNIQUE OUT in Rogers Corridor.
- 4.00 P.M. TECH TEA at Tech Office in Rogers.
- 8.30 P.M. JUNIOR PROM. at Hotel Tuileries.

FRIDAY, MAY 1.

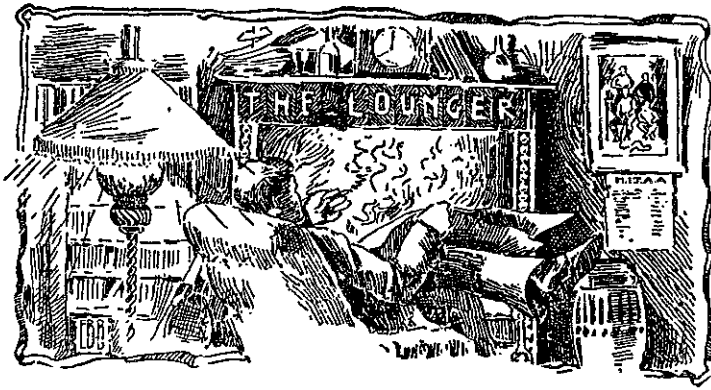
- Exercises suspended.
- 2.00 P.M. "A SCIENTIFIC KING" at Hollis Street  
Theatre.



The gorgeous scenery and costumes and the poetic charm of the play *If I were King*,— Mr. Sothern is himself modestly a "tinker of verses," and so speaks the "Villon" poems beautifully,— do not, after all, hide the fact that the play is mere melodrama and that Mr. Sothern's part is strikingly unsuited to his power. No burlesque of the romantic play could go further in bringing on the scene,— the room of a low tavern, — drunkards, harlots, peers of the realm, guilelessly confident conspirators, amorous princesses, and disguised kings. No one there appears long as his simple self, but soon turns out to be some vastly more romantic and interesting person. Apparently no limit is put on the extravagant boldness of the disguises and the reckless stage asides. And there is not the remotest probability or consistency in the characters. Permanent probability is perhaps too much to expect of every play; but possibility is a reasonable demand, and the pleasant "make-believe" of the story must not every moment be shattered by preposterous unreality,— if the dramatic piece claims to be a play and not a melodrama. That Mr. Sothern is equal to a great play he has abundantly proved.

Mr. Sothern's power, it seems to me, is of the serious, substantial kind, and for the extravagant touch-and-go of the romantic hero he is unsuited. Such a part as "Villon" requires the most delicate lightness of touch, a quality of winning and brilliant assurance that one hardly expects except in a Frenchman. Any such quality Mr. Sothern lacks. His "Villon" is at first sodden, brutal, and sottish; seems quite devoid of any sense of comedy, and frequently drops into the falsetto declamation of the Bowery hero. We have seen in Boston this winter, in a play equally romantic, though more probable and with more reality of human character, and in a part equally without any saving sense of humor, an actor who has the qualifications Mr. Sothern lacks— complete composure, elegance so polished as to constitute almost a mannerism, a gallant ease that alone would make the romantic hero seem possible, and, from long and thorough training, master of his person and his beautiful voice. Mr. Kyrle Bellew might, perhaps, make "Villon" "go." Mr. Sothern, in spite of— I think because of his laborious earnestness— does not and cannot.

THEATREGOER.



Inasmuch as the letter below is addressed not to an individual, but to the entire Massachusetts Institute of Technology, THE LOUNGER sees no breach of journalistic etiquette in giving it the publicity of THE LOUNGER column. That the letter is copied exactly as written, and that only the name and full address are omitted, any student who frequents the civil engineering drawing-rooms will testify. It is displayed there on the bulletin board.

NEW YORK, April 4, 1903.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,  
BOSTON, MASS.

Gentlemen: I have a beautiful but rather wild tract of 1000 acres in Mount Washington, Berkshire County, Mass. I have owned it a number of years and it has never been surveyed, because I have never felt like spending the necessary money for that work. At the time I built my house I was able to build a good one, and I have a very comfortable home there.

It occurred to me that you might have a student who this summer, say commencing the 15th of August, would like from two to four weeks' vacation, and who would be willing during that time to survey the property for me in consideration of the first-class board which I would give him with my family.

Making such arrangements, of course I would want a well-bred, thorough gentleman, and I know that you have a large number of such in your class. It is possible that I might have to, or might find it agreeable to make such a man a present at the completion of his work, but I have not the ready money to put out, and hence would like to make some arrangement of this kind.

The country is particularly beautiful, and he would have the best board that it is possible to secure in a private family where no boarders were ever taken.

The altitude is about 1800 feet, and the country naturally a beautiful one. I should want a map prepared showing the lake and streams on the property, and should want the work thoroughly well done, if done at all.

I would esteem it a favor if you feel disposed to mention this to some of your students and put them in communication with me.

Yours very truly,

X.

If any young man possesses the necessary foot-rule to make, unaided and alone, the survey of "a rather wild tract of 1000 acres," in a two weeks' vacation, and to get in exchange two twenty-one meal tickets, let him come forward to claim the princely heritage which has awaited him since God made the land. But he must be a "well-bred, thorough gentleman." No slouch can mix in with a family "where no boarders were ever taken." And at an "altitude of 1800 feet!" Surely the well-bred young man can say without lying that he had a hundred men under him. Attention is called to the particularly beautiful beauty of the country. Most men who pursue that low-down, unimportant profession of civil engineering have to work in sewers and dumps. But here is a chance to breathe the same air and eat the same grub as breathes and eats "the family where no boarders were ever taken;" and all for making a measly survey of 1000 acres in a two-weeks' vacation. Professors Swain and Allen, in behalf of the civil engineers of America, should say: "Mr. X, we thank you in thus honoring our profession. We feel amply repaid in educating young men when we know that they are then a little more capable and worthy of being allowed to survey 'for a family where no boarders were ever taken.' We shall send up a bootblack at once." As for THE LOUNGER, he writes the following letter in reply:

My dear Mr. X:

In reply to your letter of the fourth inst., I respectfully offer myself up. I am well-bred,—was brought up in dancing-school, and say "beg pawdon" on every occasion. I would willingly survey a thousand acres if I could have a hunk of bread now and then. Or I would survey a thousand acres more for a ham bone. I hope this is not asking too much. If it is, say so in your next letter, and I will see what I can do about the ham bone.

Your humble engineer and footstool,

THE LOUNGER.

### Notice.

The next issue is the Junior Week TECH. Subscribers holding tickets are advised to obtain copies Wednesday, April 29, as the issue is somewhat limited.