

# The Tech.

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## THE TECH.

Published on alternate Thursdays, during the college year, by the students of the Massachusetts Institute of Technology.

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NO recognition of the fact that it is well-nigh impossible, in a biweekly journal, to report with the desirable degree of freshness the current events of such an institution as Technology, the Board of Editors of THE TECH have for some time seriously considered the practicability and advantages of making THE TECH a weekly. Having reached a conclusion, we take great pleasure in announcing that, beginning with Vol. XII.,—that is, next term,—THE TECH will be published weekly.

We hope that in taking this step, trusting as we have done in the co-operation of the students, we may receive the same hearty support as at present, and that our confidence in this continued support may not have been misplaced.

The subscription price of the weekly TECH

will be the same as, or a little more than the present one. We extend our thanks to both our subscribers and our contributors for the support and good will which they have given us in the past, which they are giving us at the present, and which we confidently expect in the future; and when THE TECH has become a weekly, we trust that we may continue as worthy of this support and co-operation as you have judged us to be now.

LIEUTENANT HAWTHORNE, who was a short time ago detailed to succeed General Moore, has but lately made his appearance. He is first lieutenant in the Fourth Artillery, and was wounded last year at Pine Ridge. Without the slightest reflection on Lieutenant Hawthorne's personal or military characteristics, it seems that the present officers of the battalion have looked with some disfavor upon the arrival of their new instructor. A change of this sort is never the most agreeable thing, and the Freshmen feel that it comes especially hard this year, they not being so far advanced as they should be on account of the new drill regulations. These are not, apparently, the only reasons which have caused the feeling referred to above. The Freshmen, for some unknown cause, seem to fear a repetition of an experience which occurred some years previously.

About seventeen years ago the Institute had a regular army officer as instructor in military drill. Unfortunately he tried to enforce his West Point ideas, but was not supported by the Faculty. This displeased him, and he sent in such a report to the War Department, that the U. S. guns were taken away and the detailed officer removed. For many years the Institute has tried to undo the effects of this report, and has at last succeeded.

Unless Lieutenant Hawthorne has been instructed by the Government to demand West Point discipline, there seems to be no reason for fearing a repetition of the above-mentioned occurrence.

THE increase in numbers among our lower classes has been rather uncomfortably emphasized of late by the great overcrowding of the Institute Library, Room 40, Rogers.

Until this year there were always ample room and ample opportunity for study there; but of late the students of Course IX., who are of course those chiefly interested, have been much inconvenienced by constant interruption and annoyance due to the irregular entrances and exits and unusual predominance of lower classmen.

Dr. Dewey has called the attention of the Faculty to the facts, and we may soon hope for improvements doing away with most of the inconveniences.

One method suggested—that of throwing open for the use of Course IX. students an adjacent room heretofore used only for lectures—would offer a partial relief; but another room which can always be used is certainly the least to be hoped for.

Meanwhile, until some improvement has been introduced, we would suggest to the Freshmen and Sophomores, who have such frequent occasion to visit the Library, that on such occasions it would be well to keep under control as much as possible their animal spirits and youthful sense of humor, which will certainly afford them all the more enjoyment if restrained for a short time.

ALTHOUGH the report of the treasurer of the Football Association is not yet made out, a sufficiently accurate estimate has been made to show that the Association is still about \$196 in debt. In view of this fact, and of the position we have held in the league for the past three years, the advisability of supporting a team next year seems questionable.

A small per cent of the men at the Institute take an active interest in the team, and the present spirit of the Faculty seems strongly opposed to encouraging it. If the team is to receive the slight encouragement from the men and the Faculty that has characterized their actions in football matters for the past three years, it can reflect but little credit on the Institute. Although THE TECH would be sorry to see the principal branch of athletics given up, there seems to be, in the present state of affairs, little choice in the matter.

IN some of the Boston newspapers there appeared recently a statement to the effect that the Boston and Albany Railroad had matured its plans for the immediate erection of a new passenger station on the Exeter Street grounds; and owing to the fact that our gymnasium is situated on this land, the report has awakened much interest and speculation at the Institute. It is well known that for some years past the Institute Corporation has had no lease of the land on Exeter Street, and consequently their occupancy is wholly at the option of the Boston and Albany management. We cannot, however, conceive how any credence could have been placed in the newspaper statements, for it is extremely unlikely that the Corporation would have made the recent improvements at the gymnasium, or expended any money upon it whatever, without a definite understanding with the railroad company whose land they occupy; and this consideration alone makes the story seem decidedly absurd. We are, however, glad to be able to say for the benefit of the more credulous, and to say positively on the best of authority, that this newspaper statement is wholly without foundation.

The Boston and Albany Railroad has made extensive land purchases in Allston, and intends to erect there in the near future a large plant of shops, etc., with homes for its employees; and it was possibly this matter at

which our newspapers, with their customary adherence to facts, were driving. The station at Exeter Street is bound to come sooner or later, but certainly not before some years, at least, when this portion of the city has become more of a business community than it is at present. Long before this time arrives, however, some philanthropic admirer of Technology will doubtless have come down handsomely with the much-needed endowment, and the Tech. students who are to be doubly rich in numbers and facilities, will point with pride to a handsome structure as their gymnasium, forgetful of the humbler quarters so long utilized for their predecessors.

ELSEWHERE in this issue of THE TECH we begin the list of subjects of the theses of fourth-year students, which includes all students in Courses I. to IV., inclusive, excepting Messrs. Davis, Roberts, Thalheimer, Warren, and Williams, Course I.; and Messrs. Adams, Dresser, Marcy, and Tidd, Course II., who have as yet not chosen their subjects.

We regret that some of the subjects are not more definite and explicit; but as the work of a great many is as yet vague in so far as detail is concerned, we have been unable to obtain more self-explanatory titles.

#### Professor Sedgwick's Lecture.

PROFESSOR SEDGWICK gave his third lecture in the course on "Teaching," last Saturday noon in room 12, Rogers. The talk, for it seemed more than a lecture, was on the methods of teaching and on some of the qualities of an education. Professor Sedgwick said there should be method and system in teaching, just as in anything else which was progressive. But method should not be ranked above all other things. There is no "royal method" of teaching, and a teacher who thinks there is, and tries to teach by that method, is necessarily narrow. Whatever the method is, it should be suited to the pupils, and should be such as to claim their attention and arouse

their enthusiasm. The personal qualities of the teacher have much to do with this. A charming personality, that "personal magnetism," is highly desirable. The founder of this institute, Professor Rogers, had this great power of holding the attention of his hearers, it being born in some men, as is the power of writing poetry.

As students of science, it is natural to feel that everything must be learned in the laboratory and by one's own observation, which is a narrow idea. Professor Sedgwick said he believed in the power of "cram," not in pure cramming, but that much should be learned by that method. Many things must be taken on faith and authority.

There are other fundamental qualities besides science and literature to be obtained in an education. These are obedience, faithfulness, punctuality, morality, and truthfulness. To a great extent these are learned here at the Institute. That there is dishonesty here in some cases, the Faculty know better than do the students.

In conclusion, Professor Sedgwick said he wished this matter could be as at the University of Virginia, where every man is put on his honor during examinations, and if a man is caught cheating he is escorted to a home-bound train by the students.

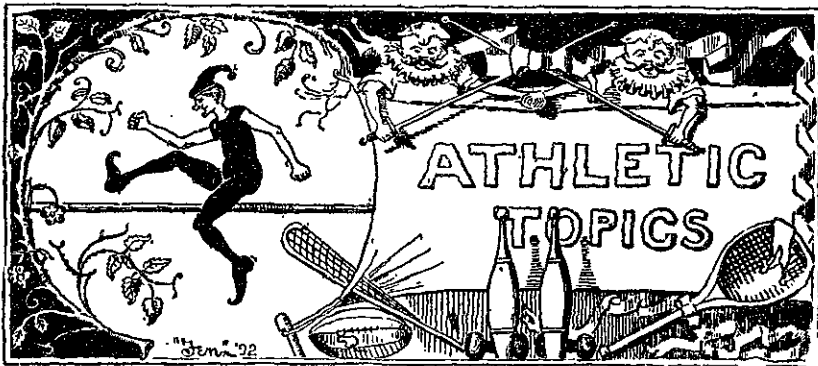
Next Saturday, Professor Gardiner will lecture on "Teaching of Animals and Zoölogy."

#### Beauty.

Beside a rush-lined glassy stream,  
Beneath the changing summer sky,  
Where bloomed the bending scarlet flowers,  
A willow wept athwart receding hills.  
"Oh! this is beauty," cried the soul,  
"And I will rest and hear above  
The unheard music of the clouds,  
The swallow's song and rippling mountain rill."

Along the river's winding bank,  
A maiden walked all simply clad,  
And hushed the bluebells' melodies,  
And crushed the scent of clover blossoms fair.  
"Nay! this is beauty," cried the soul,  
"The rest, the setting of the gem,  
Or starry heralds of the moon,  
But this, the flashing of the ruby rare."

A. W. C.



## FIXTURES.

- March 8.—Melrose Athletic Club. Open Handicap Indoor Meeting.
- March 9.—Second Corps Cadets A. A. Open Handicap Games in Salem.
- March 10.—Worcester Athletic Club. Second Indoor Winter Meeting. Open Handicaps.
- March 12.—M. I. T. A. C. Thirteenth Annual Open Scratch Games. Winslow's Rink, at 8 p. m.
- March 14.—Bradford Boat Club. Sparring and Wrestling Meeting.
- March 17.—Trimount Athletic Club. Open Handicap Indoor Sports. Winslow's Rink.
- March 23.—Columbia Cycle Club. Open Handicap Meeting. Hartford, Conn.
- March 26.—Eighth Regiment A. A. Annual Spring Games. Armory, Park Avenue, New York.
- March 28.—Cooper Social and Athletic Club. Open Boxing Tournament.

At the annual meeting of the American Intercollegiate Athletic Association it was decided to drop the tug of war, and to have hereafter safety bicycle racing instead of that on the ordinary wheel.

The Worcester games of the 12th will consist of a special match race of forty yards between Bloss, of Harvard, and Donahue, of the Worcester A. C., besides seven open handicap events, which are as follows: 40-yard dash, 440-yard run, 880-yard run, 1-mile run, 1-mile walk, pole vault, and running high jump. Several Tech. men have entered, besides some from B. A. A. and Harvard. But probably not many will compete, as they are all saving themselves for the M. I. T. scratch games of next Saturday.

There is more interest manifested in these games this year than ever before. All the star athletes will compete, and this meeting is sure to be an eventful one.

The events for the T. A. C. meeting have not yet been announced; in fact, there seems to be some doubt as to whether the games actually will take place or not. Since the Suffolk Athletic Club was started the Trimounts have been very weak, and it seems likely that the club will go to pieces. If this does happen, it will be a loss to the N. E. A. A. U., as the diamond T has always been noted for the good, hard-working athletes who bore it.

Here is the list of the Hartford games, which will take place on the 23d: 40-yard slow bicycle race, 40-yard dash, 440 and 880 yard runs, running high jump, pole vault, 16-pound shot, and 40-yard hurdle race. With the exception of the first event, the slow bicycle race, all the events are handicap.

The regiment games, on March 26th, will consist of 60-yard dash, 220-yard run, 1-mile run, 1-mile walk, 2-mile safety bicycle, one-sixth mile obstacle race, 220-yard run, novice, 1,000-yard run, novice, and running high jump, novice. All the events are handicap except those for novices. There are also some special closed events. Gold and silver medals will be given to first and second in each event.

The Roxbury Latin Athletic Association held their third annual winter meeting in the Tech. gymnasium, on February 22d. Besides the events open only to members of the Roxbury Latin School, there were three events open to outsiders: pole vault (handicap), running high jump (handicap), and 20-yard dash (scratch).

In the dash Technology had no one to be compared with Bloss, of Harvard, who won the event in 24.5 seconds,—a world's record. But in the pole vault Crane, '92, won from scratch by clearing the pole at 10 ft. 7 in. This is the indoor record, and is, of course, a new record for Technology, also. It was a wonderful performance, and Crane richly deserves all the praise he got for his feat. Besides winning a gold medal for first prize, he

also gets an M. I. T. A. C. record cup, a B. A. A. record cup, and a B. A. A. standard medal. Crane also won third place in the running high jump by clearing 5 ft. 2 in. He had a 6 in. handicap.

Several other Tech. men competed, but were unsuccessful in being placed in any of the events, although Boeseke, '95, and Lawson, '95 did well in the dash, and Clafin, '95, jumped in good form.

On the same day that Crane did his pole vaulting, F. A. Sargent brought honor and glory to the Institute by winning the Melrose Athletic Club open handicap cross-country run. The course was over five miles of rough, frozen, and very bad ground; and besides winning the large bowl offered as first prize, Sargent gets a gold medal for making the fastest time of the day. Sargent's time was 33 min. and 15 sec., which was forty seconds better than McCarthy's. McCarthy was scratch, and is considered the best cross-country runner in New England.

This gives great promise of Tech.'s record in the mile being broken again in the spring. The record, as it now stands, is held by Sargent, and is 4m. 44s. and a fraction.

At the Brookline High School indoor athletic meeting, on February 25th, F. W. Lord, '93, won second prize in the 15-yard dash.

The following is a list of the entries for Saturday's meeting, exclusive of the Harvard names, which were not obtained in time to be printed. It will be noticed that the New York cracks are entered in several of the events, so that it is unlikely that Harvard and B. A. A. will get all the prizes.

50-YARD DASH.

A. C. Stork, '93	M. I. T.
W. B. Taylor, '94	M. I. T.
J. Smith	Providence.
R. D. Smith	Jamaica Plain.
B. McMarkin	C. S. & A. C.
W. B. Hyler	Somerville.
B. Hurd, Jr.	B. A. A.
S. C. R. Thayer	B. A. A. & H. A. A.
O. W. Shead	B. A. A. & H. A. A.

F. W. Lord, '93	B. A. A.
S. A. Coombs	B. A. A.
J. H. Clausen	B. A. A.
E. B. Bloss	B. A. A. & H. A. A.
D. Abbot, '95	M. I. T.

This event will probably receive in addition a large number of entries from Harvard.

50-YARD HURDLE.

W. B. Clafin, '94	M. I. T.
W. B. Hyler	Somerville.
P. C. Stingel	Mel. A. C.
H. W. Stanwood	M. I. T.
T. Richardson	B. A. A. & H. A. A.
J. Crane, Jr., '92	B. A. A.
S. A. Coombs	B. A. A.
E. B. Bloss	B. A. A. & H. A. A.
F. W. Lord, '93	B. A. A.

1-MILE RUN.

M. Toland	C. S. & A. C.
S. Owen, Jr., '94	M. I. T.
C. E. Wiggin	B. B. C.
W. J. Batchelder, '95	B. A. A.
G. L. Batchelder	B. A. A. & H. A. A.

1-MILE WALK.

M. J. Hickey	X. A. C.
C. R. Bardeen	B. A. A. & H. A. A.

RUNNING HIGH JUMP.

C. D. Heywood, '93	M. I. T.
W. B. Clafin, '95	M. I. T.
P. C. Stingel	Mel. A. C.
Alvan Nickerson	N. Y. A. C.
J. E. Morse	B. A. A.
E. B. Bloss	B. A. A. & H. A. A.

STANDING BROAD JUMP.

C. D. Heywood, '93	M. I. T.
R. H. Callahan	G. A. C.
H. S. Gilman, '95	M. I. T.
W. B. Hyer	Somerville.
A. P. Schwaner	N. Y. A. C.
E. J. Giannini	N. Y. A. C.
B. Doherty	Boston.
W. J. Casey	B. A. A.
T. Richardson	B. A. A. & H. A. A.
O. W. Shead	B. A. A. & H. A. A.
S. A. Coombs	B. A. A.

RUNNING HIGH KICK.

C. D. Heywood, '93	M. I. T.
A. S. Stork, '93	M. I. T.
W. B. Hyler	Cambridge.
W. E. Putnam	C. H. A. A.
W. J. Casey	B. A. A.
O. W. Shead	B. A. A. & H. A. A.

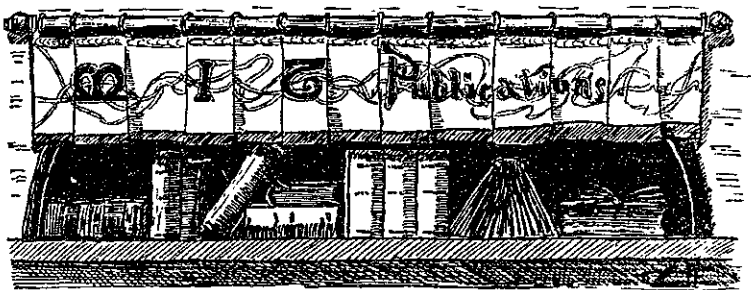
## PUTTING 16-POUND SHOT.

R. H. Callahan	G. A. C.
W. A. Johnston, '94	M. I. T.
H. R. Batcheller, '94	M. I. T.
C. E. Varney	B. Y. M. C. A.
E. J. Giannini	N. Y. A. C.
F. W. Scott	Met. A. C.
D. Long	B. A. A.
J. Shea	B. A. A.
F. H. Markland, '94	M. I. T.

## POLE VAULT.

J. R. Kaveny	C. S. & A. C.
W. G. Irwin	B. A. A.
J. Crane, Jr., '92	B. A. A.
H. R. Dalton, Jr.	B. A. A. & H. A. A.

At the B. A. A. Interscholastic schoolboys' meeting, in Mechanics' Building, last Saturday, W. J. Batchelder, M. I. T., '95, ran an exhibition 1,000 yards, breaking the B. A. A. record by three seconds. His time was 2 min. 29 3-5 sec., which is very good, considering that he had no one to push him, and that it was done indoors on a thirteen-lap track. The meeting was very interesting, and all of the events exciting. The school feeling ran high, and Hopkinson's was victorious,—beating out Roxbury Latin by only one point.



WE are in receipt of the first two copies, January and February numbers, of "Astronomy and Astro-Physics," a magazine published ten times a year, and edited by George E. Hale, '90, now Director of the Kernwood Astro-Physical Observatory, of Chicago, Ill., and Wm. W. Payne, Director of the Goodsell Observatory, Northfield, Minn. The title plainly indicates to what branch of science the journal is devoted.

The two first numbers contain able illustrated articles by some of the most prominent astronomers in the country, and several articles by Mr. Hale himself.

## Subjects of Theses, Fourth-Year Students.

## COURSE I., CIVIL ENGINEERING.

- C. P. COGSWELL, Jr., with E. LEE, Jr.—Railroad Signals as Used by the Eastern Division of the Boston & Maine R. R.
- J. C. CURTIN with GORHAM DANA.—Comparative Tests on Road Material.
- GORHAM DANA with J. A. CURTIN.
- W. B. DOUGLASS.—Design for a Draw Bridge.
- W. W. GREEN.—Design for a Cantilever Bridge.
- H. A. HARWOOD.—Design for a Standpipe.
- E. LEE, Jr., with C. P. COGSWELL, Jr.
- J. P. LYON and N. T. PARASCHOS.—Experiments on the Resistance of Riveted Joints to Bending.
- S. B. MANLEY.—A System of Sewerage for West Roxbury.
- LEONARD METCALF with M. S. POPE.—Effect of Notching Timber.
- A. H. MORRILL with HAMILTON OTIS.—Plan for Abolishing Grade Crossings at Avon, Mass.
- A. J. OBER with G. F. ROWELL.—Flow of Water through Nozzles.
- HAMILTON OTIS with A. H. MORRILL.
- N. T. PARASCHOS, with J. P. LYON.
- M. S. POPE, with LEONARD METCALF.
- D. M. PRATT, with L. K. SHERMAN.—Experiments on Form of Water Jets.
- G. F. ROWELL, with A. J. OBER.
- A. F. SARGENT, Jr.—Method of Constructing Roads in West Newton.
- R. T. SAUNDERS.—A Discussion of the Hydrography of the Upper Missouri Basin (in Montana).
- L. K. SHERMAN, with D. M. PRATT.
- F. T. WESTCOTT, Ph. B.—Earthwork Tables and Diagrams.

## COURSE II., MECHANICAL ENGINEERING.

- P. P. BOURNE.—Safety Valves.
- STEPHEN BOWEN.—Repeated Bending.
- H. A. BURNHAM, with C. E. FULLER.—Headers.
- D. A. CATER, with D. B. ELY.—New York Air Brake.
- J. M. COLBY, JR., with W. H. MESSINGER.—Separators.
- G. E. DADMUN, A.B., with G. H. GOODELL.—Westinghouse Air Brake.
- S. B. ELY, with D. A. CATER.
- C. E. FULLER, with H. A. BURNHAM.
- HOWARD GILMORE.—Strength of Cotton Cloth.
- G. H. GOODELL, with G. E. DADMUN, A.B.
- E. C. HALL, JR.—Strength of Manilla Rope.
- W. A. JOHNSTON, with O. F. SAGER.—Explosion of Gases.

W. R. KALES, with J. S. PARRISH.—Hydraulics.  
 W. H. MESSINGER, with J. M. COLBY, JR.  
 W. M. NEWKIRK, with H. F. RUGGLES.—Hydraulics.  
 C. F. PARK.—Caulking Pitch of Riveted Joints.  
 J. S. PARRISH, with W. R. KALES.  
 J. C. PERRY, with E. C. WELLS.—Rope Transmission.  
 A. R. ROBERTSON, with M. WARNER.—Evaporators.  
 W. M. ROSEWATER.—Piston Rings.  
 H. F. RUGGLES, with W. M. NEWKIRK.  
 O. F. SAGER, with W. A. JOHNSTON.  
 MURRAY WARNER, with A. R. ROBERTSON.  
 E. C. WELLS, with J. C. PERRY.

## COURSE III., MINING ENGINEERING.

F. H. HARVEY, with W. S. HUTCHINSON.—Concentration of Cupriferosus Pyrite.  
 H. C. PARKES, with G. W. VAILLANT.—Concentration of Calumet and Hecla By-Products.  
 A. G. RANLETT, with R. H. SWEETSER.—Separation and Treatment of Smelting Ore, Silver-Amalgamating Ore, and Argentiferous Zinc-Blende from Compania Huanchaca de Bolivia.  
 C. T. WENTWORTH.—Experiments on Best Smelting Conditions of Antimonial Hard Lead.

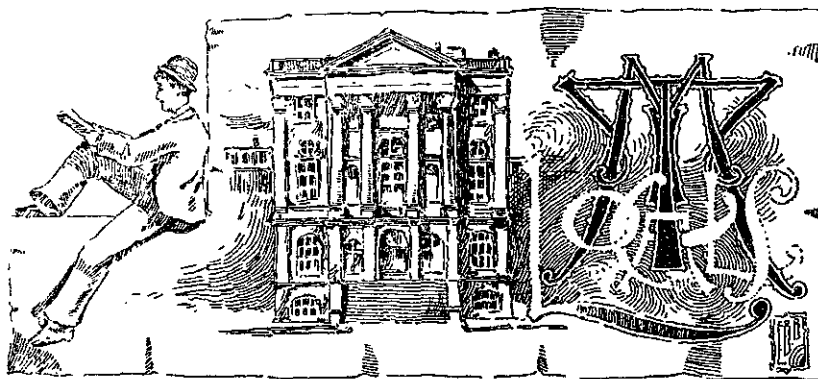
## COURSE IV., ARCHITECTURE.

W. H. DENNETT.—Design for a Club House.  
 F. L. FRANCIS.—Design for a High School.  
 E. P. GILL.—Design for an Armory.  
 P. A. HOPKINS.—Design for an Office Building.  
 G. H. INGRAHAM, with F. E. PERKINS.—Design for a *Villa*.  
 A. D. KOCH.—Design for a Building for an Architectural School.  
 F. E. NEWMAN.—Design for a Town Hall.  
 F. E. PERKINS, with G. H. INGRAHAM.  
 L. W. PULSIVER, A.B.—Design for a Music Hall.  
 T. H. SKINNER.—Design for a Chapel for Wellesley College.  
 R. R. TAYLOR.—Design for a Soldiers' Home.  
 R. F. TUCKER.—Beams.  
 J. F. VINING.—Design for an Opera House.  
 FRANK YOERG.—Design for an Insane Asylum.

*(To be continued.)*

She fastens them there with a silver dart,  
 Violets, blue as the sea;  
 Fastens them tenderly, close to her heart,  
 Symbols of purity.  
 Yet violets pure, be they never so fair,  
 And blue as the evening skies,  
 Will fade and leave but a fragrance rare,  
 Shamed by the blue of her eyes.  
 Violets fade, and the skies grow drear,  
 Changes the sea in a day;  
 But deep in the eyes of a maiden dear  
 Is the blue that is true for aye.

L.



And still they go! This time it's the pole-vault record.

Judging by that challenge, the Freshmen haven't lost their "crust."

C. C. Brown, '93, has entered the Lawrence Scientific School, Harvard.

Boeseke, '95, is undoubtedly one of our best sprinters. Dove has to run to beat him.

The M. I. T. Architectural Society met in Room 23 on Thursday, the 25th, at 12 M.

Clafin, '95, is hurdling in fine form, just clearing the bar, and with lots of speed.

The bill of fare at the Lunch Room gradually increases, thanks to the good management.

"Will you give me a list of the affectionate tradesmen?" asked the Freshman at MacLachan's.

Don't fail to go to the athletic meeting on the 12th. All the "crack" athletes will compete.

The regular meeting of Hammer and Tongs was held at the Parker House last Saturday.

"Rodgers Building" is the way Ninety-two spells it. Truly, education produces wonderful results.

"A man to serve on this Commission must be free from all railroad ties," was the way Dr. Dewey put it.

A '93 flag has been noticed of late floating from one of the windows of the Brunswick. Who is the lucky man?

We hear vague rumors and mysterious whisperings about *sample* copies of "Technique," but we have not seen them yet.

The Sophomores seem to have considerable trouble in getting a quorum at class meetings. The same old story,—lack of something.

Gamble, '92, is a great schemer. His latest is to cover Boston with an awning to keep out the snow. He thinks the city will save money by it.

"Patience," whispered the Freshmen as they wound their way down the iron stairs, and from the bottom a Sophomore responded, "To-morrow."

Since reading the subjects of fourth-year men's theses, we feel as though there was not much investigation left for the *rest* of the scientific world.

The suburban Harriers have sent for F. A. Sargent, among others, to run for them in the national cross-country run to be held in New York during April.

"Janitor John" and his "able corps" of assistants did noble work on the snow piles. They shoveled as though summer was at the bottom of the drifts.

The Banjo Club is practically disbanded owing to a lack of interest among its members. It will, however, try to render a few selections at the Senior Dinner.

Speer, '95, is doing excellent work at the hurdles for a beginner. He can't quite manage the high ones yet, but those 2 ft. 6 in. styles come very easily.

Dr. Tyler will be pleased to meet students in Courses I. and II. desiring information as to matters in their records affecting the probability of their graduation.

Rumors from Mr. V-g-l's classes of peculiar translations reach our ears. Here is one of the latest, "Herr Gott Willen," "The willing chambermaids from heaven."

It would greatly repay those who are interested in Geology to attend the lectures in the Lowell Institute Course, now being given by Professor Wright, of Oberlin College.

The Glee and Mandolin Clubs will give an entertainment in the cause of charity at the Warren Street Church on the 15th. The Wellesley date is not announced as yet.

Those who call to mind a recent "Technique" notice that "Technique" was coming, will perhaps appreciate the rumor to the effect that Sturgis, '94, posed for the central figure.

Ninety-four has had its "anti-clique" ballot system for electing its "Technique" Board of Editors printed and circulated among the class and waste baskets. The waste baskets have our sympathy.

D. Parmley, formerly of '93, has entered the senior class in the scientific department of Columbia College. F. F. Phinney, '95, and C. G. Sargent, '94, are at the Polytechnic Institute, Worcester.

"Doesn't impact generate heat?" asked the shrinking Sophomore.

"Most certainly," answered the Professor.

"But," said the youth, thoughtfully, "why, then, does it cause glass to shiver?"

A special bulletin board for students' notices has been placed in the corridor of the Rogers Building. Notices to be posted may be left in the secretary's office with the date on which they may be removed.

"Please, marm," said the chambermaid in a St. James Avenue boarding house, "May I not open the young gentleman's closet up stairs? There's a sign over the door says, 'No admittance, dangerous passing.'"

'We are glad to see appear in Rogers corridor a general bulletin board for the use of all; a thing which has been needed for a long time. It is accompanied by a bulletin for the posting of meteorological data.

The Institute has received a bequest in the form of a scholarship endowment, from a former Professor of Geology here, the late G. Sterry Hunt, of Montreal. The scholarship will probably be one confined to Course II.

Room 34, Rogers, which was last year used by Mr. Emery as an office, has been converted into a mathematical library and reading room. It is open to all students upon application to any member of the department.

The second of the Tech. afternoon parties was held in Cotillion Hall, Saturday, February 27th; Mrs. Walker, Mrs. Swain, and Mrs. Dewey acting as matrons. The ushers were, Messrs. Bigelow, Webb, McQuesten, and Sias.

"Have you seen Addie lately?" casually remarked Ninety-three's youngest.

"Addie who?" responded the victim.

"Adiabatic," gleefully remarked the beardless youth as the glass support of the metronome cracked with a dull thud.

Contributions for THE TECH continue to be found in the Technique box, while the other day the Chief Editor of our Annual pulled out a note which stated that Blank '95 wished to subscribe for "Technique" for the rest of the year. When, oh! when will the Freshmen get acclimated?

The committee appointed by the chair to make arrangements for '92's class dinner, consists of F. H. Harvey, M. Warner, and E. P. Gill. The dinner will be at Young's, on Friday, March 18th. All men who have ever been classed with '92 are cordially invited to attend this last class dinner.

The Judges, Messrs. Longfellow, Warren, and Sturgis, of the Boston Society of Architects, have awarded G. H. Ropes and F. E. Newman, first mention; G. H. Ingraham and S. W. Pulsiver, second mention; and F. L. Francis, F. E. Perkins, and J. F. Vining, third mention, for designs of a casino.

A student was lately sent a special delivery letter at the Institute. Having a box it was placed in there, where it remained all day. Had he no box he would have been looked up and given his letter, so he was told. This is a very peculiar system, and is the only dis-

advantage of the boxes of which we have heard. It can, and should, be corrected.

Before our next issue, "Technique" will probably appear. Though THE TECH cannot state how, when, and where a copy may be obtained, due notice will be given elsewhere, and a plan adopted to avoid a riot or anything of that sort. The price will be the same as that of last year's, one dollar. We hope next time to report that "it is out."

The machine which was so completely destroyed in the applied mechanics' laboratory for measuring torsion under a moving load, will be replaced by another, which will be used for the purpose of measuring torsion under the action of a dead load. This machine is being rapidly put in place, and will be ready in a short time for experimenting.

The Junior Chemists and Chemical Engineers, accompanied by Dr. Norton and Mr. Smith, paid a visit to the American Sugar Refinery, South Boston, recently, and were shown over the works by Superintendent Stillman. It is worthy of note that these annual excursions are the only occasions on which outsiders are allowed to view these processes.

In the Christmas number of THE TECH, the idea of a three days' recess at Fast Day was advanced, and it was suggested that a petition to that effect be started. Nothing has been done in the matter, and it is now too late. It is very pleasing to note this manifestation of enthusiasm for work at the Institute. Possibly a suggestion of a petition to abolish the Thanksgiving recess would meet with more favor.

Friday last was a day of "trouble" at the Institute. Tarbox, '94, after some experimenting, succeeded in finding a way to mash the end of his finger on his lathe; George Taylor, '94, while doing some wood turning, caught his chisel in the turning wood and it was jerked from his hands, whirled around by the lathe, finally striking him in the ankle,

making an ugly cut. In the Engineering Building one of the bolts in the Hooke's joint of the big repeated-bending machine came out, and the shaft, freed of its load, was whirled around at a great rate, smashing things up badly. Fortunately no one was hurt.

The election of the Class-day Committee was held Thursday, March 3d, and was conducted in the same manner as the election of the class-day officers. The printed ballots bore the names of twenty-two men, of whom twelve were elected. The Committee consists of the following men: I., M. S. Pope; II., H. A. Burnham and G. H. Goodell; III., R. H. Sweetser; IV., G. H. Ingraham and F. E. Newman; VI., J. Crane, Jr., and W. E. McCaw; VII., S. Burrage and A. P. Mathews; X., F. C. Moore; XI., W. W. Locke. As the Chief Marshal, G. V. Wendell, VIII., is the chairman of this committee, all the courses except the comparatively small ones, V., IX., and XII., are represented.

The "Senior end" of the Chemical Lab. is enjoying a good laugh on a third-year Chemist. The solution of permanganate of potash, used in the analysis of iron ores, must be kept from the light to prevent change in its composition. This is usually done by wrapping a piece of paper around the bottle. The Junior had used the brightest of blue glazed paper, which immediately attracted the attention of two Seniors, who explained that *blue* paper was the worst color that could be used, as it *absorbed* all blue rays, and changed the strength of the solution about one per cent an hour! The Chemist apologized profusely, tore off the wrapper, and as he put the bottle away, murmured: "Don't tell the Doctor, please, boys."

An organization, to be known as "The Chemical Journal," has just been formed by the professors, instructors, and advanced students of the Chemical Department. Its object is to enable the members, by means of dividing the work among many, to keep in

touch with the recent investigations and current literature of all the various branches of Chemistry. An executive committee, consisting of Drs. Gill, Noyes, and Talbot, and Mr. Andrews, select two speakers for each meeting, who read abstracts of important articles pertaining to Chemistry. All those interested in such work, and desiring to become members, may do so by application. The subjects of the two meetings already held were: "Recent Work on Fluorine," "Recent Work on Hydrogen Peroxide," and "The Atomic Weight of Oxygen." Notices of the meetings, which are generally held at 4.30 P. M. on Tuesdays, are posted in the Analytical Laboratory.

### COMMUNICATIONS.

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

### CHALLENGE OF '95 TO '94.

TO THE EDITORS OF THE TECH:—

The Class of '95 do hereby challenge the Class of '94 to an athletic contest, which shall consist of any seven of the following ten events:—

Thirty-five yard dash; 35-yard hurdle (3 flights, 2 ft. 6 in.); putting shot (16 lb.); running high jump; standing high jump; standing broad jump; running high kick; standing high kick; rope climb; fence vault (handicap).

#### *Conditions.*

The first, second, and third places shall count as 5, 3, and 1, respectively, for the class which wins them.

Expenses shall be shared equally by the two classes; One cup shall be given to the winning class;

Not more than five (5) men shall be entered from each class in each event;

The contest must take place before April 1, 1892:

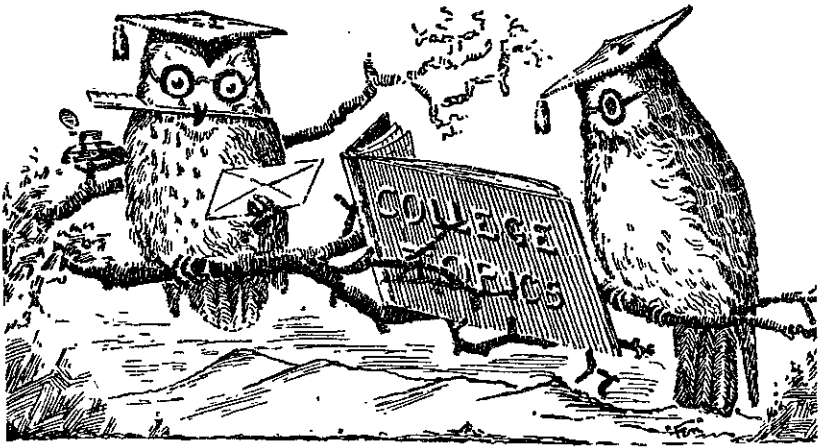
Ninety-four shall have the choice of any four of the events, and '95 shall choose the remaining three;

This challenge must be accepted or rejected on or before March 15th, by addressing '95 Athletic Manager at the "cage."

(Signed)

W. J. BATCHELDER, *Captain.*

A. GEIGER, JR., *Manager.*



The Oxford-Cambridge eight-oared race will take place April 9th.

The youngest State university is that of Montana, founded in 1884.

There are 54 candidates for the athletic team at Princeton, and at Harvard 200.

There are seven Yale graduates on the Faculty of the new Chicago University.

Ten of the fourteen Intercollegiate records were made at the Berkeley Oval last May.

The University of Michigan has 2,684 students, 130 instructors, and graduated 627 last year.

The candidates for a baccalaureate degree at Cornell who have presented thesis subjects number 250.

Tuition in the Chicago University will be \$25 per quarter, and chapel attendance will be compulsory.

The University Athletic Club, of New York, is considering the advisability of joining the A. A. U.

It is said three quarters of the national colleges established during the last twenty years have been in Southern States.

Dartmouth has won more championships in the triple league than either Amherst or Williams. Amherst comes second.

The students at the Leland Stanford University have organized a congress modeled after the Congress of the United States.

A rule has been made at Harvard compelling every candidate for the ball team to practice hand ball some time during the day.

It became necessary to offer a prize to the young ladies of the Northwestern University to secure regular attendance at breakfast.

A standard of eighty per cent in scholarship must be obtained at Olivet by any student who desires to compete in any field sport.

Three buildings of the Chicago University are already being built,—a divinity dormitory, a university dormitory, and a general recitation room.

As a means to increase the financial condition of the Tufts Athletic Association, circulars have been sent to alumni asking them to join the Association.

Not one of the highest twenty men of the present Junior Class at Yale came from Exeter, Andover, or St. Paul's,—Yale's largest fitting schools.

It is predicted that Leland Stanford University will need financial assistance in a few years. The plans are said to have been laid out on too expensive a scale.

Yale men are showing their good nature and forgiving disposition by taking a collection for Captain Dickinson, the campus policeman, who is seriously ill.

There is trouble at Ann Arbor between the Faculty and the law students, because a certain law student takes down the lectures in shorthand, and disposes of copies among his classmates.

Wesleyan is soon to have a gymnasium. Half of the Fayerweather bequest is to be applied for this purpose, and an endowment fund is to be raised among the alumni,—class secretaries having been appointed to solicit funds.

The management of the Yale Baseball Association has arranged for two games with Harvard,—the first to be played at Cambridge, on June 23d, and the second at New Haven, on June 2d. In case of a tie, no third game will be played.

Representatives from Harvard, Amherst, Massachusetts Institute of Technology, Clark

University, Mt. Holyoke College and Wellesley met recently in Boston to discuss plans for preparing and arranging a college exhibit at Chicago, in 1893.

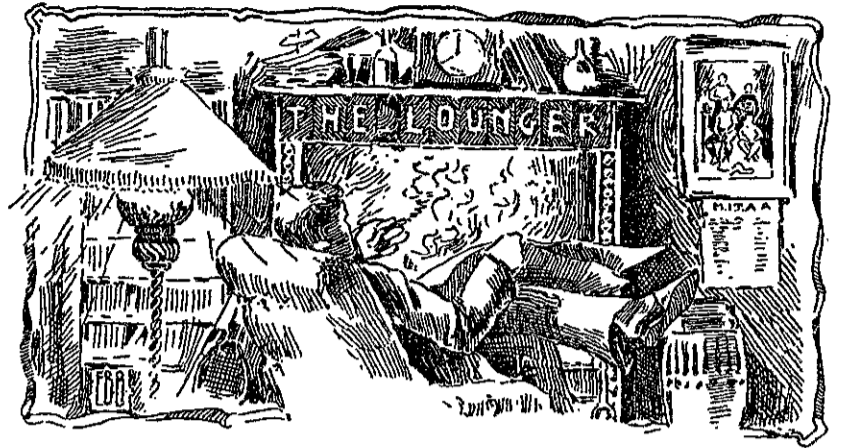
The committee in charge of the funds at Columbia to secure a fitting memorial to Herbert Mapes, who was drowned off Fire Island last summer, have decided to erect a pair of ornamental iron gates at the main entrance to the college grounds as a tribute to his memory.

“Williams, Dartmouth, and Columbia have dispensed with commencement exercises.”—*Ex.* “The above item has recently been making the rounds of the collegiate press. It is almost needless to say that, as far as Williams is concerned, it is totally without foundation.”—*Williams Weekly.*

By a vote of the Faculty at Brown, attendance at recitations has been made voluntary for Seniors for the remainder of the year. Each student's standing is to depend entirely upon examinations. The movement is an experiment looking forward to the establishment of this system throughout the whole college.

Luther H. Carey, the sprinter, who announced his intention last fall to retire from the cinder path, has changed his mind. He will run under the colors of the Chicago Athletic Club next summer, and is confident making a 9 1-2 second record, which will be allowed. The record-confirming board would not confirm Carey's claim of 9 1-2 seconds made at the Princeton games last year.

A member of Congress, from Illinois, Mr. Newberry, has introduced in the House a bill, the object of which is to improve the spelling of the country. It proposes the establishment of schools at the World's Fair, for which an appropriation of \$100,000 is asked, and similar schools at New York, Washington, and Chicago, calling for \$150,000 more. Besides these, one hundred smaller ones are to be distributed in various parts of the country. The object is to improve methods, and establish a more perfect uniformity.



THE Lounger read something lately which is weighing heavily on his mind, and all that is left to him of a subject, which must have been of much importance to produce such an unusual effect, is a slight smattering of words and phrases which persist in “reverberating in the immense caverns of his brain,” and, refusing to be grouped in any regular order, promote a state of chaos among his usually well-regulated thoughts that would evoke deep sympathy from the Editor-in-Chief. As far back in the past as the Lounger can remember, he cannot “place” any old feeling which is at all akin to the present one.

The Lounger is sure, however, of the following facts: That he read something in a book, and the book looked like an ordinary one as far as printing, etc. were concerned. Beyond these hard facts the Lounger can make no definite assertions. But phantoms such as the following flit by him as spectres in a nightmare: He remembers a pilgrim who is on a progress of some sort, whether it is through college, or a progressive game of euchre, or toward the basement under the escort of a tried friend, he is unable to say. The Lounger recalls the name, Burns' Pilgrim's Progress, but as to the validity of such a title he is wholly unable to make up his mind. And quotations, or rather parts of some quotations seem to be a great part of the book. Some one in the book says: — “Would the power the giftie gie us to see ourselves as ithers see us,” then some man comes up to the first speaker and says: — “I am my Father's Ghost.” A third party tells the other two gentlemen, “How often, oh! how often in the days that have gone by,” he has gone into the cupboard and taken grandma's pie. But the Lounger thinks that Burns was the principal character, and that he made the first remark, from which he also drew some conclusions.

The Lounger remembers it now. Burns tells Bunyan, for that is the pilgrim's name, that he would be freed from follies and wet feet, hiccoughs and all of

that class of ailments, if he had "the giftie" to see himself so that others would not have that pleasure alone. The quotations says:—"As others see us," so that we could all have that pleasure. The Lounger doubts if we would all enjoy such a treat if it were given us off-hand, on the spur of the moment,—he thinks it might be a trifle confusing.

The Lounger read all about the progress, and how, after Burns makes this little speech, Milton, a barber by trade, comes up and offers to supply mirrors for the crowd at a reduction of 10 per cent for cash, with a shave thrown in, if they will trade at his shop, for he complains that the McKinley bill has advanced the price of soap, and he cannot afford to lose his customers. Then they start to discuss politics, and a man named Christain comes along with a sack of potatoes which the Farmer's Alliance candidate has given him for his vote. When he arrives on the scene of action a lively debate follows, Burns and Christain on one side, and Milton and Bunyan on the other. They argue on the question as to whether Hill, a prominent scoundrel of those times, could steal money out of a bank when the cashier was looking at him. The Lounger failed to follow the connection here, and could not discover what this had to do with politics, but, thank Heaven! the Lounger is too old to vote, or rather voting is such an old custom that he thinks it not worth his while when so many new "fads" are being introduced.

Well, this discussion goes on, but this is not to the point. The Lounger cannot help referring to his own personal feelings, for he is so downcast by the remark that Burns made to Bunyan, about seeing one's self, and the "giftie." The Lounger would like some one to explain this word. Doubtless it is some obsolete word used here to startle people and make them think that that was the effect it had on the Lounger. And this thought has made him view things in a different light, especially when he thinks of how queer it would be to be able to see yourself. The Lounger for one would not stand it, but think how it would benefit others, if they could see what idiots they are at times, and how often they seem to others to do every thing but the right one.

Keeping this idea in view, the Lounger has laid out a kind of bird's-eye view of Technology, and peopled the view with the different varieties and classes of Institute men. And every man can see his own character as it is seen by others; they can all see their faults and many eccentricities. But as the Lounger con-

tinues to look on this plan of Lot's (Lot, you know, was so eccentric he married a pillar of salt, and wondered why his wife drove him to drink) he sees the character of the new change. They assume different expressions and attitudes, and every man in the crowd has a more studied manner both in speaking and personal appearance. Strange to say, all of this improvement is for the better. Every one seems bent on looking more like a man of taste and breeding, and speaking and acting on the order of a cultivated man. The Lounger can scarcely appreciate the magnitude of the change, and yet he can see the difference it makes and record such a great improvement in the people before him that he rubs his eyes to see if it is all a dream.

Ah! Yes, it is a dream, for as a log falls on the hearth and spits and sputters with a cheery noise, the Lounger finds himself rubbing his eyes in reality, and heartily wishing that part of his dream might come true.

The Lounger is in the throes of despair. For once in his life he feels that he has not been "equal to the occasion." He is accustomed to being called by every name and every epithet ever applied to Institute men. He has looked childish and playful when called a "Tech. boy"; he has looked dignified and haughty when spoken of as an "Institute man"; he has appeared jovial and merry when referred to as "one of those Tech. fellows"; he has assumed the air of seriousness and felt for his glasses, when dubbed "a Technology student"; he has suddenly become stoop shouldered and warped when some one whispered he was a "Tech. grind," and has even been called "a loafer taking a 'special,'" without insisting upon a duel, but when a person bred in the shadows of the Institute, referred to him as a "Techer," he collapsed, nor has he recovered.

#### JUDGMENT.

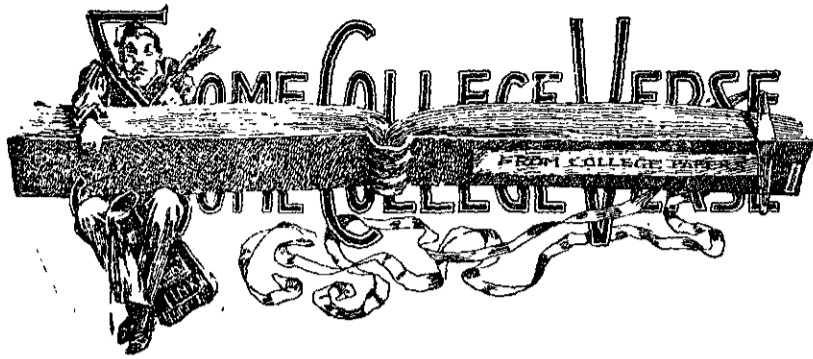
The best book? This or that, 'tis cried  
With literary look;  
But how'er others may decide,  
Give me my pocket-book.

—*University Cynic.*

#### WELLESLEY DEMOCRACY.

"Why waste your time in him," I said,  
"The man is silly, stupid, flat."  
Rebelliously she shook her head,  
"A man's a man for a' that."

—*Wellesley Prelude.*



## ANOTHER PROVERB EXPLAINED.

The faithful camel of Sultan Sed  
Had dropped his heavy pack,  
And thought upon his straw-stuffed bed  
To rest his weary back.

But when no easy bed he saw,  
The noble beast well knew  
The Sultan's sons had seized the straw—  
To suck their cider through.

The camel's lips unsteady hangs;  
His eyes hot teardrops weep;  
Upon a single straw, with pangs,  
He strives at night to sleep.

And now, dear friend, without a doubt,  
You're on the proper track:  
That was the straw you read about  
That broke the camel's back.

—Brunonian.

## A VASSAR VERSE.

Little maid, I've lost my heart,  
Canst tell me aught about it?  
I lost it in the path one day,—  
The path of life, a weary way,—  
And be the world or grave or gay,  
I'm very sad without it.

Little maid, I've found a heart,  
Canst tell me aught about it?  
I found it in the path one day,—  
The path of life, a merry way,—  
And now be skies or blue or gray,  
I could not live without it.

—Vassar Miscellany.

## A MAIDEN'S PLAINT.

"My heart is sick, my heart is sad,  
But oh, the cause I dare not tell;  
I am not grieved, I am not glad,  
I am not ill, I am not well!  
I'm not myself, I'm not the same,  
I am, indeed, I know not what.  
I'm changed in all except my name.  
Oh, when shall I be changed in that!"

—Lasell.

The melancholy days are come—  
The saddest of the year—  
The football season's over now,  
And baseball is not yet here.

—Princeton Tiger.

## THE LAMENT OF THE LATE RISER.

'Tis dark. It seems  
As if 't were early morning.  
Half thoughts, half dreams,  
Into my mind are swarming.  
Upon my ear,  
A deep-toned knell is falling.  
I wake, and hear  
The bell to chapel calling.  
I rise and dress,  
For haste its sounds betoken.  
My shoes, I—bless,  
For now the string has broken.  
I'm late. A cut  
Is added to my sorrow.  
The chapel's shut!  
I'll rise at six to-morrow.

—Dartmouth Lit.

## A MATTER OF TASTE.

"What part of speech is *kiss*," she sighed.  
Said he, without the least compunction,  
"Some say it is a noun, but I"  
(He kissed), "I say it is a conjunction."

—Blue and White.

## THE FIRST TOWN MEETING.

Men cannot reach the Northern Pole,  
Though hard indeed they try.  
The question now before us is  
To find the reason why.

Now science tells us that men once  
Dwelt in the Arctic space;  
And summer lasted all the year.  
Ere Nature fell from grace.

But soon the snowstorms filled the land:  
They hated shovelling snow.  
And meeting at the Northern Pole  
They voted South to go.

And when the votes had all come in,  
It's naturally supposed  
A Yankee motion passed; it was,  
"I move the Poles be closed."

—Brunonian.

## FULL STUDENTS.

There's one place in a college course  
Where sports may strike a snag,  
'Tis when they—they think full students are  
Just specials on a jag.

—Red and Blue.

## ON THE VOYAGE OF LIFE.

According to the wise man's view,  
Each one must paddle his own canoe.  
But he is surely dull,  
Who spends his life in paddling thus,  
For good success with most of us  
Depends upon our "scull."

—Brunonian.