

# THE TECH

VOL. 22  
NO. 20



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# THE TECH

VOL. XXII.

BOSTON, MARCH 19, 1903.

NO 20.

## THE TECH

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

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GRAFTON B. PERKINS, 1905, *Assistant Editor-in-Chief*.  
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OFFICE: 30 ROGERS, 491 BOYLSTON STREET.

### 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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### CHANGE IN VACATION,

A GREAT deal of dissatisfaction has been expressed, the last week, in regard to the way the April vacation has been split up and spread out over two weeks. Still, almost none have thought it proper to ascertain the reasons for the change before finding fault with the Faculty.

The Tech Show management petitioned to have exercises suspended on the two after-

noons of the performances. The Faculty, however, felt they had no right to deprive any student of the exercises and instruction which he was paying for and which was promised him on entering, by thus granting vacations not announced in the Catalogue.

Formerly it has been the custom to arrange the vacation so that it should consist of three consecutive days, including Patriots' Day. This year two of the days were transferred to Tech Show days in the following week, the Faculty endeavoring in this way to better accommodate the needs of the students. If these plans do not suit the majority of students, as expected, the remedy does not lie in abusing the Faculty for acting according to their best judgment; but rather in bringing the matter before the students' representatives, the Institute Committee, so that next year a more satisfactory arrangement can be made. When the causes are fully understood, however, we feel there will be less objection to the change than was at first manifest.

### TENNIS EMBLEMS.

THE present rule of the Advisory Council requiring that a man must be the winner of an intercollegiate tournament before he can be awarded his tennis "T" is greatly out of proportion to the requirements in the other branches of athletics. In the Fall Tournament the men work up through a long series of matches, the winners in the singles and in the doubles being the representatives sent to the New England Intercollegiate Tournament in the following

May. Here follows another series of weeding out, but a fellow gets no recognition of his efforts unless he runs the gauntlet unvanquished. In other athletic events the winner of third place in an intercollegiate contest is awarded a "T". Why not institute an analogous classification for tennis? For instance, a man who plays in the match before the semi-finals may be considered to have won a third place. Surely a man who reaches this stage must have enough ability to warrant such recognition. It also seems appropriate to adopt a subsidiary device, a TTT, to be awarded to the members of the team sent to the Intercollegiate Tournament, or upon broader grounds, as may be thought advisable. We understand the matter will come up before the Advisory Council shortly, and hope they will act favorably upon it.

#### JOURNAL MEETINGS.

THE inauguration of journal meetings for the Seniors of the Electrical department, where the students will present the papers, will prove of great value to the men. Similar meetings have been held in the Biological department, and they should be held in all courses. Our oral work, though limited, shows that the men are very deficient in their ability to think while on their feet and to present their ideas clearly, and that they need all the training in this line they can receive.

#### Track Athletics.

Work on the spring track team began in earnest last Monday. In response to a call for candidates, about one hundred men reported to Coach Mahan at the Gymnasium, and after having the plans for spring work explained to them, got into their running suits and started in. Five squads were formed: the long-distance men, middle-distance men, short-distance men, bicycle men, and field and weight men; and each under leaders appointed by the coach started immediately into

their respective kinds of work. Since Monday, more and more men have been coming out, and it is hoped by next Monday two hundred in all will show up.

An eighth of a mile single track with a 75-yard straight-away is to be built on the oval in front of Technology Chambers. This will be ready in about three weeks, and will furnish training-ground for all but the hammermen. The first spring games will be held here if the track can be finished in time.

The schedule of games for the spring is as follows: Trial games, April 9, 10, 11; class championship games, April 24, 25; Dual Meet with Tufts, May 2; Dual Meet with Dartmouth, May 9; and N. E. I. A. A. Meet at Worcester, May 22, 23. All have been decided upon but the meet with Tufts, which is under consideration by the Advisory Council.

#### Harvard, 8 — M. I. T., 1.

About one hundred people witnessed the fencing match between Harvard and Tech in the Gym, March 12. Although the result was largely in favor of Harvard, all the bouts were close and exciting, and until the latter part of the second half, when the Tech men weakened, it was a question who would win. Tech's hopes were raised at the very start, when G. Lage won the first bout from Miller of Harvard, but from there on the superior training and experience of the Harvard men told, and they captured the remaining bouts. Considering that Harvard is unbeaten among the colleges and our own team is a new and inexperienced one, the match was more creditable to Tech than the score would indicate.

The following men constituted the teams:

M. I. T.	HARVARD.
Leh, Capt.	St. Gaudens, Capt.
G. Lage	Elam
F. Lage	Miller

Officials: Referee, Mr. Sewell Cabot of B. A. A. Judges, Messrs. Allen and Parker of B. A. A., Breed of Y. M. C. A. Timer, Mr. Morrison, Harvard.

### Tech Show.

The management announce that they have decided to publish the musical score this year, as the interest shown warrants its success. The issue, however, will be limited, and it is urged that subscriptions be made immediately in order to insure securing copies. Books will be distributed for that purpose.

The men have already been measured for their costumes, which will be the most novel and fetching that have been seen in Tech shows. The contract has been awarded to Ware, of Salem, who made the costumes last year. The contract for the score has been given to White, Smith & Co. Mr. A. E. Rippey, '05, has been elected press agent for the Show.

Of the Show itself it may be said that the rehearsals are progressing very well. The principals and the chorus are beginning to learn their places, and now have a general idea of the play. Progress in the ballet is also very satisfactory, and Mr. Coleman's new dances are certainly going to make a "hit." On the whole, the coaches are well satisfied with the work.

### Hare and Hounds Chase.

Only sixteen men went on the Hare and Hounds chase at Melrose last Saturday, most of them being underclass men. The start was made from the Y. M. C. A. at 2.30, the trail leading to Spot Pond, thence to Greenwood and Melrose Highlands, the finish being down Upham street,—about six miles in all. The chase was very slow, due to difficulty in finding paper,—in one instance nearly half an hour was lost through the hounds going astray on a blind. The first two to finish were Casey, '05, and Ovington, '04, the time for the hounds being 1 hour, 55 minutes. Barnd, '05, and Holcombe, '04,

were hares, their time 1 hour, 10 minutes. On the runs hereafter fewer blinds will be laid, so that the hounds may not lose so much time hunting for trail. The country, with the exception of one or two wet places, was good, the men getting scratched but little; the dressing quarters were better than those at our disposal anywhere else, and if it were not for the general feeling against going north of the city, Melrose would be one of the most popular starting points.

### Electrical Engineering Society.

The second joint meeting of the American Institute of Electrical Engineers and the M. I. T. Electrical Engineering Society will be held Thursday evening, March 26, at the Union. It is expected that Mr. James F. McElroy, consulting engineer with the Consolidated Car Heating Company, will present a paper on a new system of axle lighting. The fact that this is the first public presentation of the details of this system gives it a special interest.

Abstracts of papers on axle lighting systems, presented at the last meeting of the American Institute of Electrical Engineers by Messrs. Farnsworth and Bliss, will also probably be read. The problems met with in this line of work are difficult, and the different methods of solving them should prove very interesting.

After the papers and discussion refreshments will be served. Former members of the Electrical Engineering Society are cordially invited.

Contributor.—“Say, where's the Editor?”

Business Manager.—“Why, he's over eating at the Lunch Room.”

Contributor.—“Ah, go on, who ever heard of any one overeating at the Lunch Room?”

### An Interscholastic Drill.

An interscholastic individual drill will be held under the auspices of the M. I. T. Corps of Cadets, Friday, May 8, at 7.30 P.M. The drill will be held at the South Armory, Irvington Street, Boston. General admission will be fifty cents.

#### THE CONDITIONS OF THE DRILL ARE AS FOLLOWS:

1. The drill is open to all high schools in New England.
2. Each school competing will be allowed to enter a team of two men. Entrance fee fifty cents per man. They must be bona fide members of the cadet military organization which they represent, must be regular students of the school, and must have served the entire school year to date in the cadet organization. A certificate signed by the principal or military instructor, stating that they fulfil the above qualifications, must accompany each entry.
3. Each man entering must supply himself with rifle, belt and bayonet.
4. The drill will be upon the manual of arms; facings, loadings and firings (kneeling and lying down omitted). It will be judged according to the manual in the appendix of the U. S. Manual, 1897 edition.

The prize will be a silver cup, to be awarded the school whose team wins the most points. Independent of the cup there will be given two medals for the best two men: first, gold; second, silver.

The method of awarding the trophy (the silver cup) will be in accordance with the point system; i.e., the judges will select from the entire squad the best eight men. The first place in the final squad will count eight points and so on down to the last, which will count one. If a school has both its team members in the final squad, the school will be credited with the sum of points won by its representa-

tives. If by chance a tie for the cup exists between the teams of any schools, both men of the teams originally representing these schools will be required to drill until a decision is made between them.

Four years ago a similar trophy was offered by the Class of 1902 to the school receiving the largest number of points in four consecutive drills. Owing to unfavorable conditions in the military department at the Institute for holding these drills, only two, the first and last of the series, were held. The original conditions of the drill being that the cup should be drilled for in the years 1899-1902, and awarded in 1902, make it necessary to award the cup to the school now holding the highest total of points won in 1899 and 1902, namely, St. John's Military Academy, Manlius, N. Y.

Any questions in regard to the drill will be answered by any of the following committee:

COL. F. S. ELLIOT,  
CAPT. C. W. WETTERER,  
CAPT. F. E. EARLE,  
LIEUT. K. E. TERRY,

*Massachusetts Institute of Technology.*

### Mechanical Engineering Society.

A meeting of the Mechanical Engineering Society was held Wednesday evening, March 11, at the Union. Mr. John A. Stevens gave an interesting talk on "Marine Engine Room Experiences." Mr. Stevens was actively engaged for some time in marine engineering, being junior and then senior engineer on "greyhounds," such as the "New York" and "St. Louis." He explained the overhauling of engines and boilers while in port, as well as the preparation of machinery for sea, and told of a number of break-downs and repairs made under difficulties.

Professors Lanza, Peabody and Miller, several instructors of Courses II. and XIII.,

and between sixty-five and seventy students, including members of the Naval Architectural Society were present.

The present membership of the Society is one hundred and forty; more names have been proposed since this count was made.

On Saturday afternoon about forty members of the Society took a trip to the Charlestown Navy Yard. Mr. P. J. Kearney, '03, very kindly made all the arrangements for this trip, and the Society is indebted to him for one of the most interesting trips ever taken. The party were taken in the engine and fire rooms of the "Nashville" and the collier "Ajex."

The next meeting will be held Tuesday evening, March 24, at the Union. Officers for the ensuing year will be elected at this meeting. The speaker will be announced later.

#### Chicago Club.

The annual dinner and election of officers of the Chicago Club was held at the Thorn-dike, Friday, March 13, there being just thirteen men present; but as none of the Chicago men are superstitious, a very pleasant evening was theirs in spite of the supposedly unlucky combination of date, day and number against them.

The following officers were elected for the ensuing year: President, F. H. Davis; vice-president, H. J. Mann; secretary and treasurer, C. E. Warren; directors, R. H. Burke and J. V. Rathborne.

Eight new members from the various classes were elected to the Society. Those desiring membership are requested to submit their name and home address to Mr. C. E. Warren, Technology Chambers.

The object of the club is to give the men from Chicago and vicinity an opportunity to become better acquainted with each other. Those living within fifty miles of Chicago are eligible to membership.

#### Course XIII. Theses.

The Course XIII. Seniors have decided upon the following theses:

*Experiments upon Propellers*, by H. C. Turner and R. Lage.

*An Investigation of the Launch of the U. S. Cruiser "Chattanooga,"* by P. J. L. Hilken and Wm. P. Cross.

*An Investigation of the Launch of the Four-masted Schooner "Martha E. Wallace,"* by H. Crosby.

*Progressive Speed Trials of S.S. "Uncatena,"* by J. E. Harlow.

*A Method of Coaling Ships*, by W. J. Bay.

*Progressive Speed Trials of S.S. "Orion,"* by E. J. Crowenbold.

*Design of a Governor for Marine Engines*, by H. Fitzler.

*Investigation of the Strength of Wooden Schooners*, by O. P. Scudder.

*Progressive Speed Trials of a Side-wheel Steamer*, by P. R. Parker.

#### Course VI. Journal Meetings.

There have been inaugurated this year in the department of Electrical Engineering regular meetings of the Senior students, in which abstracts of important papers in the current electrical literature are presented by the students and the papers then discussed by members of the instructing staff of the department. The first of these meetings took place on Wednesday, March 18, at four o'clock, and papers were presented on the Cooper-Hewitt Static Transformer and the new Westinghouse Single-phase Series Motor by Messrs. Welsh and Porter. These journal meetings promise to be of great value to the students in keeping them in touch with the current literature of their profession.

#### Heard in the Lab.

Co-hed.—"Why do they call them stock solutions?"

Do-hed.—"Because stocks are always watered, of course."

### Athletic Contest.

The last event in the Athletic Contest, the pole vault, was won by Burleigh, '06, with a vault of 8 feet 9 inches. The winners in the individual contest and their scores are as follows: O. R. Adams, '06, 134; C. R. Haynes, '04, 126; J. C. Baker, '04, 120½; R. D. Farrington, '05, 117½; H. H. Needham, '04, 104½. These men will receive their prizes, which are beautiful cups, very shortly.

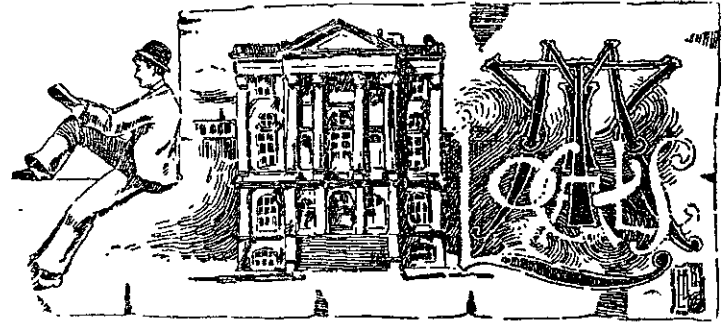
The next events will be six interclass relay races. The men composing the teams will be the six highest in each class. They are as follows: '06, Adams, Guernsey, Burleigh, Clay, Griffin, H. L. Williams; '05, Farrington, W. C. Turner, Dickerman, Flinn, Poole, Lorenz; '04, Haynes, Baker, Needham, Ovington, Homer, Kendall; '03, Mohler, Pulsifer, Stiles, Ancona, Ruxton, Eddy.

The totals for the classes are as follows: '04, 622; '06, 535; '05, 388; '03, 357½. Notices will be posted of the dates of these races, and it is hoped that the men indicated previously will come out and run for their class.

### 1896 Class Reunion.

The Class of '96 held its annual business meeting and dinner at the Technology Club March 13. Last year's officers were reelected: Mr. E. S. Mansfield, secretary, and Dr. J. A. Rockwell, assistant secretary. A new Constitution was adopted, the previous one having been destroyed by a fire in Richmond, Va. Also an assessment of one dollar was levied to cover the years 1903-4-5.

After the business meeting a German dinner was served. Dean Burton was the guest of the evening, and spoke upon "The Changes at Technology, Present and Proposed." There were twenty-six present, and each had something to say when called upon. A very enjoyable evening was closed by some music, with Mr. Walter M. Stearns at the piano.



The three days set apart for the spring vacation are April 20, April 28, and May 1.

Prof. H. O. Hoffman is delivering a course of lectures at Harvard on "Metallurgy."

Mr. Wm. Lyman Underwood will give an address March 25 at the Dearborn School, on "Wild Birds and Other Animals."

Seniors will please inform Mr. Hearn which picture they desire used in the Portfolio.

All 1906 men interested in turning out for the baseball team will remain after the class meeting Saturday.

Mr. C. R. Haynes was elected to the Junior Prom. Committee in place of Mr. M. L. Emerson, who was obliged to withdraw, owing to pressure of work.

The Sanitary Engineering and Biological Semina, which is composed of members Courses VII. and XI., meets Tuesdays for the purpose of discussing sanitary questions.

President Pritchett has accepted the invitation to act as one of the judges in the annual Harvard-Yale debate next Monday at Sanders' Theatre.

Mr. B. C. Eastham, '05, has been appointed captain of the bicycle training squad. All candidates for the bicycle squad report to him in the Gym at 4 P.M. every day.

For the immediate present the Y. M. C. A. meetings will be held on Thursday instead of Tuesday afternoon. This change is made necessary by the many fellows who are kept away on Tuesday by extra lectures and work.



H. L. Dean has been appointed captain pro tem of the 1905 baseball team, there not being enough present at the Friday meeting to elect a captain. As soon as good weather sets in the candidates will be called out for practice.

On Friday evening, March 13, an informal reception was held at the Y. M. C. A. student house, 240 West Newton street. Dean Burton and Secretary Mehaffey of the Boston Y. M. C. A. were present, together with a few Tech men. Ice cream, cake and punch were served by Mrs. King.

Over four hundred invitations to the Conference of College and University Presidents have been sent out. This conference, which is called for the purpose of discussing the advisability of a shorter college course, will be held in Chicago, on May 8 and 9, under the auspices of the Northwestern University.

At a meeting Wednesday, March 11, the Freshman Class appropriated \$16 to replace the cymbals stolen on Field Day. The class baseball team needs money immediately for its expenses. It is earnestly desired that the large number of men who have not paid the assessment should do so, in order to have some surplus in the treasury to meet coming bills.

Mr. G. L. Hosmer is writing an article for the *Technology Review* on the determination of the figure of the earth from a series of pendulum observations made on two Institute expeditions, one in 1896 to Greenland, and the other in 1901 to Sumatra. There were five stations, varying in latitude from  $71^{\circ}$  north to  $\frac{1}{2}^{\circ}$  south.

At a meeting of the Chess Club, held last Thursday in Room 11, Rogers, it was decided to accept conditionally the challenge from Amherst. Andover, who asked for a game on March 17, was accepted for April 17. A challenge has also been received from Williams. The club will hold games regularly on Saturday afternoons at the Union.

## CALENDAR.

THURSDAY, MARCH 19.

4.15 P.M. TECH SHOW REHEARSAL for Chorus at Tech Union. Measurement for costumes.

FRIDAY, MARCH 20.

4.15 P.M. TECH SHOW REHEARSAL for Ballet at Tech Union. Only Gypsies and men in Butterfly and Flower dances need come.

SATURDAY, MARCH 21.

11.30 A.M. FRESHMAN CLASS MEETING in Huntington Hall after Military Science lecture. The meeting will be an important one.

2.07 P.M. HARE AND HOUNDS CHASE at Wellesley Hills. Train leaves Trinity Place Station at 2.07 P.M.

6.30 P.M. STUDENT DINNER at Tech Union. Tickets 25 cents. Photo. of men will be taken for *Technique*.

MONDAY, MARCH 23.

4.15 P.M. TECH SHOW REHEARSAL for Chorus at Tech Union.

8 P.M. CHEMICAL SOCIETY SMOKER at Tech Union. Good speaking.

TUESDAY, MARCH 24.

4.15 P.M. TECH SHOW REHEARSAL for Ballet at Tech Union.

8 P.M. MECHANICAL ENGINEERING SOCIETY SMOKER at Tech Union.

WEDNESDAY, MARCH 25.

4.15 P.M. TECH SHOW REHEARSAL for Principals at Tech Union.

THURSDAY, MARCH 26.

4.10 P.M. TECH Y. M. C. A. Meeting at Room 11, Pierce. General Daggett, who was second in command of the U. S. forces at Peking, will address the meeting on "The Y. M. C. A. in the East."

4.15 P.M. TECH SHOW REHEARSAL for Chorus at Tech Union.

8 P.M. ELECTRICAL ENGINEERING SOCIETY MEETING at Tech Union. Mr. Jas. F. McElroy will present a paper on a new system of axle lighting.

FRIDAY, MARCH 27.

4.15 P.M. TECH SHOW REHEARSAL for Ballet at Tech Union.

6.45 P.M. 1905 DINNER at Tech Union.

**WANTED AT ONCE:** A set of drawing instruments in good condition. Address THE TECH, Box 121, "Cage."



'91. W. H. Bassett, V., is chemist for the American Brass Company, whose headquarters are at Torrington, Conn.

'91. Morris Knowles, I., has been awarded the engineering contract for the new Lawrence filter.

'96. L. A. Cary has settled in Kimberley, South Africa, with a view toward studying the conditions of the diamond mines in that region.

'97. G. M. Goodspeed, V., is metallurgist for the National Tube Works, at Keysport, Pa. At present he is interested in building up a new laboratory for the microscopic examination of iron and steel.

'00. S. G. H., X., is auditor for the Vaughan Machine Company, Peabody, Mass.

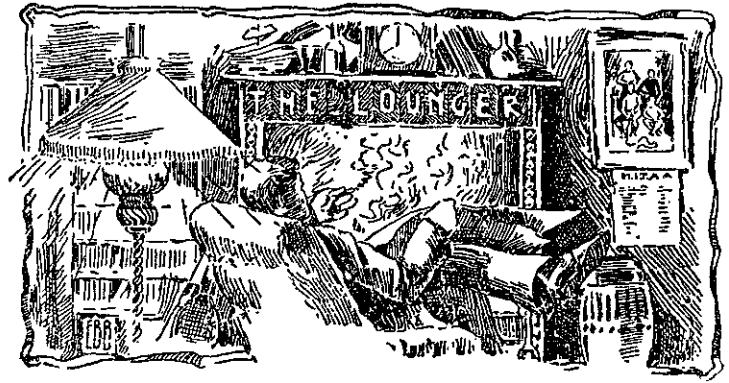
'01. H. P. McDonald, Jr., I., is inspecting different foundry plants in the country, with the idea of building a plant for Smead & Co., Iron Works, Jersey City, N. J.

'02. George Bright, Jr., II., is in charge of the foundry in the mechanical department of the Dominion Iron and Steel Company, Sydney, Cape Breton.

'02. H. B. Litchman has accepted the position of assistant in metallurgy in the Mining Engineering Department of the Institute.

#### Student Dinner.

The student dinner last Saturday evening was a farce as to numbers, but those present all had an opportunity to join in an earnest impromptu argument as to the value of the non-technical subjects. The dinners hereafter will be held at six o'clock sharp, in order to accommodate those men who wish to go to the theatre. Next Saturday the *Technique*, '04, photographer will snap the crowd for this year's book.



GENUINE MAYFLOWER TEAPOTS GIVEN AWAY WITH EACH \$1.00 PURCHASE.

Such will be the signs that will shortly displace the Sky Blue Pink Trading Stamp notices in Hookon and Button's department store. The Rev. Miss Hutlin has sealed the fate of the family relic, and it must go. How hard is logic! How stern is plain fact, perhaps it is well that IX is to leave our midst. Why should the fact that, in the days of our Pilgrim fathers—we each had a Pilgrim father, even if our name is Massilevoski—tea sold at the rate of \$60 per pound, and no beautifully framed lithograph thrown in, why, THE LOUNGER repeats, should this prove the absence of Puritanical Teapots? Why? Because, gentle reader, the Rev. Miss says it's so, and "you needn't say it isn't, for *she* knows." Speaking of teapots, THE LOUNGER recently heard a story of Revolutionary days, which he is now about to place before his unsuspecting devotees. Not all the female inhabitants of our thirteen revolting colonies were willing to give up their luxurious tea—and the involved teapots—at the call of their country. When tea was on hand there were always traitorous spirits ready to sip it. Mrs. Wheeler found a little packet of tea hidden in her cupboard, and announced to her neighbors—on the strict Q. T.—that a teafight would happen at her home the next P.M. The dames arrived, the teapot was taken from the closet and the cup that cheers but not inebriates was lovingly brewed, poured, sugared and milked, and at the given signal ten cups were raised in silent toast, ten swallows were taken and ten screams resulted. Nine indignant dames rushed in more haste than dignity, to their sheltering homes. Mrs. Wheeler proceeded to investigate. Her dear hubby had filled that long unused teapot with his favorite Virginia leaf. Nicotine *au lait* is not popular with ladies.

The janitors paint the Rogers stairs,  
Each week in efforts vain;  
The students as oft, with never a care,  
Just scuff it off again.\*