

THE TECH

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PRICE FIVE CENTS

PROF. JACKSON SPEAKS ON FACTORS IN FIXING RATES.

BIG PROBLEM FOR FUTURE.

Will Be Solved By Men With Engineering Training And Education.

Professor Dugald C. Jackson, who recently reported on the condition of the telephone company in Massachusetts, especially in regard to rates, gave from his experience a talk last Thursday evening before the Society of Arts. His subject was "A Consideration of Some of the Factors that Govern of Rates for Public Service Corporations," most interesting because of the speaker's connection as an expert with a number of telephone, and street railway corporations.

In regard to public service corporations the fundamental rules laid down by Prof. Jackson were that the company or corporation had been granted privileges to furnish service, and should be forced by rule to give such service good of its kind, and secondly, the company should be given a fair chance, should be left unhindered by petty restrictions and should be allowed to make a fair profit over and above operating expenses to draw to it the best brains and the best investors.

Prof. Jackson said that the first principle had been clearly recognized, but the second had received little or no attention. In the west the best thinking and broadest minded business men had been driven from public service corporations because of the many petty restrictions, thus leaving the positions open to the adventurous and corrupt, and driving from this class of investment the conservative investors. Strong men are not naturally attracted to such enterprises, and when subjected to all sorts of annoyances such that will prevent profit for effort and investment, they will not enter.

In opening he said that Massachusetts held the banner for advanced work in this line, with commission control or (Continued on page 3.)

SUMMER SCHOOL COURSES.

Little Change Made From Former Years.

The bulletin describing the courses of instruction to be given at the Summer School has been issued and can be secured at the information desk. Very little change has been made from courses given in previous years, the schedule being as follows:

Mathematics—(a) Mathematics (21 or 22). (b) Integral calculus.
Mechanics—(a) Applied mechanics.
Drawing—(a) Mechanical drawing and descriptive geometry.
Mechanic Arts—(a) Woodwork. (b) Forging. (c) Chipping and filing. (d) Machine-tool work.
Modern Languages—(a) Elementary French I. (b) Intermediate French II. (c) Elementary German I. (d) Intermediate German II. (e) Elementary Spanish I.
Chemistry—(a) Inorganic and analytical chemistry. (b) Quantitative analysis. (c) Organic chemistry.
Physics—(a) Mechanics, electricity, and optics. (b) Physical laboratory. (c) Precision of measurements.
Civil Engineering—(a) Surveying. (b) Geodetic and hydraulic surveying.
Mechanical Engineering—(a) Mechanism and valve gears. (b) Mechanical engineering drawing.
Architecture—(a) Shades and shadows. (b) Design I. (c) Design II.
Biology—(a) Industrial bacteriology. (b) Sanitary research. (c) The human mechanism.

NOTICE.

BIOLOGICAL SOCIETY.—Business meeting, dinner and illustrated lecture Thursday evening at the Union, beginning at 5.30. Dinner at 6.30. Talk on "Typhoid Fever" by George C. Whipple 1888, I.

FRESHMEN TAKE CROSS COUNTRY RACE HANDILY.

SCORE OF 33 TO 45.

McCreadie Places First Only 35 Seconds Behind Record.

In almost record time W. T. MacCreadie 1911 won individual honors in the freshman-sophomore cross country race Saturday over the four and a quarter mile Harvard course. MacCreadie's time of 24m. 54.2-5s. is only 35 seconds slower than the record for the course made in 1906 by Howland 1908. The freshmen won the run by a score of 33 to 45.

L. O. Mills 1910 led for nearly two miles. MacCreadie drew upon him and the two ran abreast for the next mile, when the freshman lengthened his strides and left the bunch. Mills kept after the leader and finished second, closely followed, however, by Eldred, Niles, and MacKenzie, all freshmen.



W. T. MCCREADIE 1911.

1. W. T. MacCreadie 1911, 24m. 54.2-5s.
2. L. O. Mills 1910, 25m. 13s.
3. C. P. Eldred 1911, 25m. 30s.
4. S. M. Niles 1911, 25m. 40s.
5. J. D. MacKenzie 1911, 26m. 28s.
6. E. Jacobs 1910, 26m. 45s.
7. B. C. Huber 1910, 27m. 3s.
8. W. S. Davis 1910, 27m. 14s.
9. E. W. DeWitt 1911, 27m. 28s.
10. H. I. Pearl 1910, 27m. 31s.
11. F. G. Smith 1911, 27m. 37s.
12. R. A. D. Preston 1910, 28m. 19s.
13. G. H. Magee 1910, 29m. 43s.
14. W. H. Hildebrand 1911, 30m. 17s.
15. G. C. Connor 1910, 30m. 40s.
16. G. C. George 1911, 31m. 20s.
17. H. O. Jenks 1911.
18. H. O. Whitney 1911.

This inter-class race is to be made an annual affair, and the interest this year was especially keen, as the Advisory Council decided to grant numerals to the first six to finish on the winning team. These are W. T. MacCreadie, C. P. Eldred, S. M. Niles, J. D. MacKenzie, E. W. DeWitt, and F. G. Smith.

The alumni who ran on cross country while at the Institute have subscribed for a "Cross Country Alumni Cup" to be placed in the Union on which will be inscribed the numerals of the winning class each year. The fund amounts at present to \$27.50. The list of subscribers includes F. H. Hunter 1902 and A. R. Hunter 1908, two former chase captains; E. H. Lorenz 1904, two mile record holder for three years; V. R. Langhish 1898, founder of the hare and hounds club; P. J. Clapp 1906, M. E. MacGregor 1907, D. M. Pray, A. M. Holcombe 1904, G. D. Marey 1905, C. R. Haynes 1904, G. K. Newbury 1898, B. L. Gimson 1908. It is planned to bring the fund to \$40 or more by undergraduate subscription.

NO REHEARSALS.

The Banjo Club will not rehearse on Tuesday, April 28. All members be on hand for the concert Friday, May 1, in time to play pieces over before going on stage.

R. J. Batchelder 1908 (leader.) Rehearsals will be discontinued until further notice.

TECH RELAY TEAM HAD TO BE CONTENT WITH SECOND.

TERRIFIC RACE TO TAPE.

Wesleyan First by Less Than a Yard. Blackburn as Last Man Runs Fast Quarter.

PHILADELPHIA, April 25. — After surpassing all previous Tech performances the Institute relay team had to be content with second place in the race with Wesleyan and Ohio State in the Penn games today. First place went to Wesleyan after a hard struggle. Wesleyan had been expected to run in the college championship race with Chicago and Pennsylvania, entering the race with Tech at the last moment. The team from the Connecticut college was a star aggregation. Ohio State University, the other entry, was a poor third.

The time for the race was fast, being 3m. 30s. From the start it was evident that the fight was to be between Tech and Wesleyan, Ohio State not being in the running.

At the start the Ohio man took the lead, but Gram passed him at the 200-yard mark, with Bacon of Wesleyan, closely following. Gram drew away toward the end of the relay, finishing eight yards to the good. Time for the relay, 52 2-5s.

Salisbury took up the fight for Tech on the second relay, increasing the lead over Connor of Wesleyan at the 220-yard mark to twelve yards. Salisbury maintained this lead to the end of the relay, doing the quarter in 52 4-5s.

Gimson on the next relay for Tech held the lead up to the 300-yard mark when Faraday of Wesleyan drew up and passed the Institute runner, who was evidently exhausted by his effort in the first of the quarter. Gimson ran his relay in 53 1-5s.

Blackburn started with a ten-yards handicap, chasing the Wesleyan runner Gray. The Tech runner very slowly cut down the lead, making the outcome of the race uncertain at the 300-yard mark. There was a terrific race for the tape, Tech losing by about a yard, being 3-5s. behind Wesleyan. Blackburn, as he did last year, ran the fastest 440 for the team, doing it in 52s flat.

The Tech men started in the race not in the best of condition, all but Salisbury feeling tired. Gram was not feeling at all up to his best. Coach Kanaly was very well satisfied with the outcome, the race showing the metal of the Institute quarter milers. The track was simply rotten, and the weather was worse. Halfway in the program a squall came up, and for half an hour the rain came down in torrents. The team stopped in Philadelphia at the Hotel Walton, going to New York on the midnight train Thursday, spending a good part of Friday in New York city and going over to Philadelphia to attend a dinner of the Technology Club of that city. The team returned Saturday evening.

Walter R. Dray of Yale, who placed the world's pole vault record at 12 ft. 6 1-2 in. here today, is to enter Tech next fall. He has completed three years at Yale and so will be eligible the year after next.

The summary of the Tech race: One mile relay—Won by Wesleyan University, with E. B. Gray, R. W. Bacon, L. G. Connor and H. W. Faraday; Institute of Technology second, with B. L. Gimson, H. W. Blackburn, J. W. Gram and W. C. Salisbury; Ohio State University third, with H. A. Levering, R. A. Rogers, E. M. Millions and C. Sheets. Time 3m. 30s.

SOPHS LOOSE TO THAYER.

Wierd Umpiring Has Deal to do With Outcome.

SOUTH BRAINTREE, April 25.—The Technology sophomore baseball team was defeated this afternoon on French Common by the Thayer Academy team by the score of 9 to 8. French and Waller played the star games for the sophs, while Horne pitched a good game,

CIVIC WORKER TO SPEAK AT CONVOCATION TUESDAY.

C. M. JESUP THE MAN.

Secured Through Effort of Tech Civic Club. Has Written Much on Civics.

Through the efforts of the Civic Club Charles M. Jesup of New York is to speak before a convocation tomorrow. Mr. John Boyle Jr., Secretary of the Intercollegiate Civic League, says of him:

"He is devoting all his time to Civic Work. He was formerly a banker in this city and is a man who has made the success of the Intercollegiate Civic League and the College Men's Political Association an assured fact.

"He is a magnetic speaker and a very interesting talker.

"Mr. Jesup has spoken at Williams, Yale, Syracuse, Princeton, Columbia, Union and other colleges where we have clubs.

"Mr. Jesup was for over twenty-five years actively engaged in business in Wall Street but has now retired from active business and devotes himself exclusively to civic affairs. His text would probably be, 'Responsibilities of Citizenship' or 'Americanism' or 'The College Man's Duty to His Country.'"

CRYPTOGAMS BEAT PROTOZOANS.

In an interesting though not errorless game the Cryptogams beat the Protozoans by the score of 33-22. The line up:

Cryptogams—Prescott p, Kellogg c, Schneider ss, Howe 1, Jenkins lf, Straus cf, Harrington 3, Shaw 2, Haynes rf, Robinson cf, Wells 2, Bigelow rf.

Protozoans—Hoyt c, Tully 1, Winslow p, Palmer ss, MacNutt 3, Phelps rf, Watson lf, Goff 2, Irwin cf, Stone lf.

Runs:—Prescott 5, Schneider 5, Howe 5, Harrington 5, Kellogg 4, Jenkins 4, Wells 3, Straus 1, Haynes 1, Hoyt 4, Palmer 4, MacNutt 3, Phelps 3, Watson 3, Irwin 2, Winslow 2, Tully 1.

striking out eight, giving only two passes. The umpiring by McAuliffe was so weird at times that he was hissed by the home supporters, even on decisions in their favor. The score:

THAYER ACADEMY.

	bh	po	a	e
Crocker 2b	2	3	4	1
Elwell ss, p	2	0	1	1
Leonard 3b, p	2	2	1	0
Richmond cf, lf	0	2	0	0
Carson 1b	1	10	0	0
Simms c	1	8	2	1
Alden 3b, ss	0	2	3	1
Brennan lf, p	1	0	0	0
Wilson rf	0	0	0	0
Totals	9	27	11	4

M. I. T. 1910

	bh	po	a	e
Billings ss	0	1	1	1
Dillon 3b	2	3	1	1
O'Hearn c	2	8	1	2
R. Jones lf	0	0	0	0
French 2b	3	3	0	1
C. Jones cf	1	1	0	0
Waller 1b	3	8	0	0
Horne p	1	0	3	2
Hurley p	0	0	1	0
Harrison rf	1	0	0	0

Totals 13 24 7 7

Innings 1 2 3 4 5 6 7 8 9

Thayer Academy. 3 0 0 2 0 0 1 3 —9
M. I. T. 1910. 0 0 0 3 1 0 0 4 0 —8

Runs made, by Crocker, Elwell 2, Leonard, Varson, Simms, Alden 2, Brennan, Billings, O'Hearn, R. Jones, French 2, C. Jones, Waller, Horne. Two-base hits, Crocker, Leonard. Stolen bases, Crocker, Simms, Alden, Billings, Dillon, Waller, Horne. Base on balls, off Horne 2, off Brennan 3, off Leonard. Struck out, by Horne 8, by Elwell 6, by Brennan 2. Double play, Alden to Crocker. Hit by pitched ball, Wilson. Umpire, McAuliffe. Time 1h 30m.