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## The Engineer's Difficulties

Continued from Page 1.

Aqueduct. Later he built the Worsley-Manchester Canal which served to improve conditions all over the country by making the transportation of coal cheaper. His last work was the Grand Trunk Canal which was a great success from an engineering and financial standpoint it being the means of opening up many parts of England for trade purposes.

Brindley died at the age of 56 from exposure which he received in the pursuit of his work. Next to Smeaton he was the cleverest engineer of his time.

Smeaton was the son of prosperous parents and was given a good education. He carried on a large amount of research in connection with the Royal Society of which he was a prominent member. He gained his prominence in the profession by his design of the Eddystone light house, replacing Rudder's which was burnt down. After this was built he devoted his attention to bridge building, the famous London Bridge being one of the bridges that was repaired by him. He engaged in some of the other branches of engineering, chiefly in the making of mechanical devices. The Hydraulic Ram, the Threshing Machine and various machine tools being among his inventions. At the conclusion of the meeting the usual vote of thanks was tendered to Mr. Young for his excellent paper.

### LIGHTNING ARRESTERS

The Mechanical and Electrical section met in Room E 35. Professor Price was the speaker and gave a very interesting and instructive talk on "Lightning, Lightning-Arresters and Line Surges."

He pointed out that there were two kinds of trouble on transmission lines, excessive current and excessive voltage. The first of these is remedied by the ordinary circuit-breaker, or by a fuse.

Lightning arresters are necessary to take care of excessive voltage, the speaker said, and proceeded to describe the various types in use, especially the aluminum and multigap arresters. A successful arrester had to provide an easy path for the lightning discharge, put out the arc due to the current of the circuit following, and be ready instantly for another discharge. The aluminum arrester has practically the same characteristics as a safety valve, and is almost the ideal arrester. The lecture closed with an interesting discussion of line surges and the methods of guarding against them. A vote of thanks was tendered to Professor Price for his instructive paper.

### Junior Dents Hold Banquet

Continued from Page 1

Opposition, and representative to the Parliament of the Undergraduates of Toronto University, Mr. Godwin Vice-President of the Jr. Year, Mr. W. Winn demonstrator in Chemicals and holder of the 12 quart record, Mr. Alliston demonstrator in Physics, Mr. Brown of the Y.M.C.A., Mr. B. C. Dittor ex-Pres. of the Jr. Year 1910-11, Mr. Madden Ex-Pres. of Jr. Year 1910-11 and Mr. W. Jackson.

To break the monotony of so many speeches the boys joined in singing College songs from time to time under the leadership of Messrs. Shaw and Parkins who also rendered several solos.

After congratulations on behalf of the Class were extended to the Committee in charge and the President for the complete management of the affair the boys all joined in a good old College Yell and dismissed for the evening.

### WYCLIFFE COLLEGE

The Wycliffe Student Volunteer Band have recently had an address from Rev. J. Cooper Robinson, of Japan. They wish to remind all the men of the big meeting in Convocation Hall next Sunday night, to be addressed by John R. Mott, also the banquet on Saturday night.

Ford gave a report at Chapel on Tuesday morning of the Belleville Conference. At the close of his address, Dr. Griffith Thomas announced that a Wycliffe man was wanted for India at once, to be supported by the congregation as their "own" missionary.

Rev. Mr. Frost, Chief Director, China Inland Mission, for North America, delivered an address at morning chapel on Wednesday.

We wish Bright a speedy recovery, and rapid convalescence. He was taken to Hospital on Tuesday.

The Inter-year Debate between Divisions I and II takes place to-night. The theme for discussion will be "Socialism."



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### KNOX COLLEGE

The Literary and Theological Society met as usual on Tuesday evening. The meeting was addressed by Prof. Robertson, his subject being "Germany."

If the open missionary meeting of next Tuesday night had required any other attraction besides the speakers—Messrs. Finley and Fingland, it has fully been provided for by the musical numbers which are to be rendered by Mr. H. E. Capps as soloist, and by the Knox College quartette.

The committee in charge of canvassing for our new building have issued a very attractive and instructive pamphlet with illustrations and plans of the building. One can now read it and hear at the same time the cement miner making sweet music to expectant ears.

### UNIVERSITY COLLEGE

Owing to a meeting of the Modern Language Club, it has been decided to postpone the meeting of the fourth year from Monday next to Monday, December 4.

Class of '15 Arts are offering a class pin to the student composing the best class yell. Address yells to the Secretary, L. C. Edmonds, and leave them in the Post Office.

Students of 1915, University College are reminded that the year fee of one dollar is now due and payable to any member of the executive.

### DEBATE ON FREE TRADE

The Women's Literary Society of University College will hold its regular meeting in the Student's Union on Saturday, Nov. 25, at 7.30 p.m. The meeting will take the form of a Parliament in which the Government will introduce a bill to establish Free Trade with England and the other colonies.

Miss McQueen '12 leads the Government, Miss Carrie '12, the Opposition, and a very lively debate is expected. Members are urged to be on time and to come prepared to pay their fees as the Treasurer is anxious to receive them.

### FENCING MEET

The Junior Canadian Fencing Championship meet held on Tuesday night at the central Y.M.C.A. was a great success both from a spectacular and from a technical point of view. The tests prove that Toronto has plenty of new material to support the fencing honours of Canada. The contests were won after a hard battle by Mr. Keysbey of the Central Y.M.C.A. Mr. Lightwood of the same club came second and Montgomery of Varsity came third.

Mr. Montgomery was not only ably backed by the older seniors Messrs. Gordon and Alley, but the newer men Connell and McVicar made an extremely creditable showing.

### BASKETBALL SCHEDULE

Some errors were made in the basketball schedule as published and the correct dates will be as follows:

A—Senior S.P.S., Senior Meds., Senior Arts, Senior Dents; B—Junior S.P.S., Junior Meds., Junior Arts, Junior Dents.; C—Victoria, Wycliffe, Forestry, Education, Vets.

Nov. 28—Education vs. Vets; Junior S.P.S. vs. Junior Meds.

Nov. 30—Wycliffe vs. Education; Senior S.P.S. vs. Senior Meds.

Dec. 5—Junior Arts vs. Junior S.P.S.; Victoria vs. Vets.

Dec. 7—Forestry vs. Education; Senior Arts vs. Senior Dents.

Dec. 12—Wycliffe vs. Victoria; Junior Meds. vs. Junior Arts.

Dec. 14—Forestry vs. Vets.; Senior School vs. Senior Arts.

Jan. 16—Victoria vs. Education; Junior Meds. vs. Junior Dents.

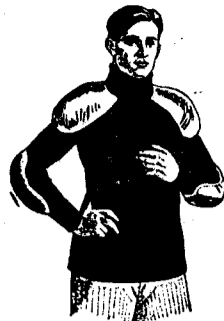
Jan. 18—Forestry vs. Wycliffe; Senior S.P.S. vs. Senior Dents.

Jan. 23—Victoria vs. Forestry; Junior Arts vs. Junior Dents.

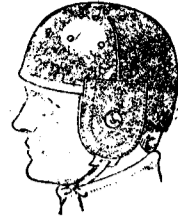
Jan. 25—Wycliffe vs. Vets.; Senior Meds vs. Senior Arts.

Jan. 30—Junior S.P.S. vs. Junior Dents; Senior Meds. vs. Senior Dents.

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