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**FACULTY OF APPLIED
SCIENCE**

All 'School' Westerners are requested to turn out to the Western Club Dinner at 6.30 Tuesday eve. next, at Albert Williams Café. Tickets may be obtained from H. N. McPherson 2nd Year and J. Patton 4th Year.

George Greer '14 is ill with typhoid fever. He was taken to the Western Hospital during last week.

The following are the results of the recent elections: 1 Yr. President, G. D. Galbraith; Rep. to Students Parliament, L. G. Glass.

A. G. McLeish '11 was a visitor at the School this week.

G. H. Greer of Civils '14 is at present in the hospital due to an attack of typhoid fever.

VICTORIA COLLEGE SPORTS

Victoria went down to defeat at the hands of her old rival, McMaster, in soccer on Wednesday afternoon. Although the score was 2-1 against Vic., the boys never let up. The work of Ansley on the forward line was particularly brilliant. Along with Jewett, our old stand-by, he was the star of the game. Vic still has a chance if the Dents work hard and beat McMaster in the final game of the district.

Red McKenzie is out with the rugby squad and will play the rest of the season for us. Oh you Mulock Cup!

In the Tennis Tournament, A. P. McKenzie defeated R. B. Duggan in the open singles by 6-3, 6-4, after a hard fight.

KNOX COLLEGE

The regular meeting of the Knox College Missionary Society was held on Wednesday evening. Messrs. T. A. Arthurs, B.A., G. A. MacDonald, B.A., and H. N. McQueen addressed the meeting, giving suggestions as to the nature of delegate addresses which the students are called upon to give from time to time in connection with the work of the society. H. W. Lyons, B.A. presented the financial report.

The Rugby team lined up against the Varsity III's on Wednesday evening and in the short period before darkness fell managed to give a very good account of themselves.

Rev. S. B. Rohald, of the Jewish Mission visited the college on Friday and presented the claims of his work to the students. As the students have taken classes there in previous years it is hoped that even a larger number will take up the work during the winter.

EARL GREY'S GIFT

The following is a copy of the letter received by President Falconer from Earl Grey, in which he presents The University with a St. George's Banner:

Dear Dr. Falconer,
I am sending you a St. George's Banner which I think may be useful to hang in the Students' Building in Toronto. As you know, it is my hope that these Banners may stimulate some of those who see them, to emulate the example of St. George and to devote their lives to the work of redressing human wrong
I remain,
Yours sincerely,
(Sgd.) GREY

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PHYSICS SEMINAR

**Interesting Experiments at
Physics Building, Wednesday**

At the Seminar held on Wednesday afternoon in connection with the Department of Physics, Dr. McLennan briefly reviewed a number of papers dealing with the recent advances in radioactivity. In one of these by Rutherford and Boltwood experiments were described which showed that a gramme of radium in equilibrium with its products of rapid decay, produced 156 c.m.m. of helium per year. As the transmutation theory indicates that 158 cu. mms. should be produced this result forms a striking confirmation of the validity of the theory. In a second paper by Geiger and Nuttall results were given which showed a simple relation between the range of the alpha particles expelled by a radioactive substance and the period of the existence of the substance. From this it follows that the life of a radioactive substance can be calculated when the range of the alpha particles expelled by it is known. A third paper by Kovarik and Geiger contained a series of measurements on the number of ions made per cm. by the Beta particles expelled by a number of radioactive bodies. In this paper an ingenious method was described determining the number of Beta particles expelled per second from a radioactive body. In another paper by Geiger and Nuttall the discovery of a short lived product in the radium series and one in the thorium series was announced. The life period of these substances were found to be .14 secs. and .002 secs. The last paper presented by Dr. McLennan described a series of experiments made by him and Mr. N. Macallum on the intensity of the penetrating radiation at different altitudes. The results were shown to fit in with the theory that the soil contributes by far the greater part of this radiation. In this paper some experiments were also described which pointed to the existence at the surface of the earth of a secondary radiation produced by the penetrating rays. A series of experiments arranged by Professors Elster and Geitel on a photoelectric effect produced by infra-red rays was described by Mr. McTaggart. The type of cell used—viz., a colloidal platinum cathode in an atmosphere of helium—was shown to be well fitted for the study of light intensity, as for example the decay of fluorescence or the strength of sunlight.

Prof. Dawes gave a short account of some experiments recently made by Professor Millikan of Chicago and his students. The conclusion was drawn that the ionisation of gases consisted in the ejection of a single electron from each atom. Prof. Dawes pointed out that this conclusion of Prof. Millikan and Fletcher was combatted in a recent paper by Prof. Townsend, and in one by Dr. Westphal. Both of these investigators cited a number of cases in which it is known that atoms with multiple charges have been detected.

The programme also included an exhibition of one of the newest effects in physical optics—the phenomenon of optical resonance shown in iodine vapour, using mercury arc light as the exciting agent. The equally spaced resonance lines were clearly visible in the spectroscopic in company with the yellow and green lines.

IN DEFENCE OF ITALY

There seems to be a tendency on the part of the majority of American newspapers to sympathize with the Turks in the present war. The statement is made that Italy is imposing on Turkey in taking advantage of her weakness. It must be remembered, however, that Tripoli originally belonged to the Italians, and was seized by Turkey in 1551. Ever since that time Italians have to some extent inhabited the territory and carried on their various trades under a treaty between the two nations. These Italians in Tripoli and the surrounding Turkish territories, being in the University and not of the faith of Islam, were treated by the Turks unjustly and in many cases brutally.

The Turks had become so accustomed to oppressing and murdering helpless minorities, that they tried the same tactics in Tripoli; forgetting that the Italian nation was not the weak and poverty-stricken Armenian people, and that the Italian government would not overlook oppression when its own subjects were the victims.

The Turks are getting a lesson which they needed badly, and which they have well merited for their centuries of oppression and mis-rule. O.D.S.

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'15 SCHOOL ELECTIONS

The following is the result of the First Year School's election held Friday afternoon:

Hon. Pres.—Prof. J. R. Cockburn, (accl.) Pres.—D. Galbraith; Vice-Pres. R. M. Cockburn; Sec.-Treas.—Brawn; Student's Parliament Representative—Glass; Representatives—Civil and Architect—G. Rankin; Mechanical and Electrical, Steel, (accl.) Chemists and Miners—N. Hall.

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ANY person who is the sole head of a family, or any male over 18 years old, may homestead a quarter section of available Dominion land in Manitoba, Saskatchewan or Alberta. The applicant must appear in person at the Dominion Lands Agency or Sub-agency for the district. Entry by proxy may be made at any agency, on certain conditions, by father, mother, son, daughter, brother or sister of intending homesteader.
Duties—Six months' residence upon and cultivation of the land in each of three years. A homesteader may live within nine miles of his homestead on a farm of at least 30 acres solely owned and occupied by him or by his father, mother, son, daughter, brother or sister.
In certain districts a homesteader in good standing may pre-empt a quarter-section alongside his homestead. Price \$3.00 per acre.
Duties.—Must reside upon the homestead or pre-emption six months in each of six years from date of homestead entry (including the time required to earn homestead patent) and cultivate fifty acres extra.
A homesteader who has exhausted his homestead right and cannot obtain a pre-emption may enter for a purchased homestead in certain districts. Price \$3.00 per acre. Duties.—Must reside six months in each of three years, cultivate fifty acres and erect a house worth \$300.00.
W. W. CORY,
Deputy of the Minister of the Interior.
N.B.—Unauthorized publication of this advertisement will not be paid for.

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