Friday, February 15, 1957

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# Touring N.B. **Telephone Co.**

In January, the members of the senior electrical class, in the current additions, Dean E. O. addition to Professors Collier, Rogers and Scott, journeyed to Saint John to tour the New Brunswick Telephone Company's head office. Transportation was provided by Professor Rogers and two members of the class. Because of the poor operating of one automobile, one part did not arrive in time for an introductory lecture to the tour. While the advance party enjoyed a lecture on the equipment and facilities possessed by the Telephone Company. the wayward number were being given a lesson on jimmying service station peanut machines.

During the morning tour the class was first shown the emergency power facilities used by the Company in Saint John. These consist of large wet cell batteries and a diesel-powered generator which are automatically switched in and started in the event of a power failure in the city. A brief examination of the cable vaults where underground telephone lines go out to the city subscribers was followed by a tour of the test desks. This test office is used to handle local subscribers complaints and to track down line faults. The step-by-step switching used in a dial exchange was next seen and explained to the students, some of whom were some what bewildered in the wire and relay jungle of the switching room. The noon hour saw the students and professors as guests of the engineering staff of the Telephone Company in the Royal Hotel. In honour of the occassion, Professor Collier smoked a large cigar on behalf of his two lessor chiefs and fourteen tribal members from "up the hill".

After this gesture of peace, | ing the microwave (TD-2) system the tour continued on to the long equipment. This microwave netdistance or toll terminals. Al-though at this point many seemed to be more interested in learning United States and carries televishow the operators operate, others ion video signals as well as telewere shown the routing proced- phone conversations. The tour ure followed in putting through a long distance call. No doubt monitoring panel and after a vote the most interesting part of the of thanks to the engineering staff, tour was through the rooms hous- the party returned to Fredericton.

#### NECBC MEET

(Continued from page 5) second at 9 p.m.

The consolation and championship finals are booked for Saturday. The consolation finalists will clash at 2 o'clock in the afternoon. Immediately following lem. But this is exactly the same invented volts, which are things the tournament title will go on system that is used in engineering that push amps around the cirthe line in a sudden-death affair today so it would form the cuit. Actually amps were not inat 3:30 o'clock.

Admission prices vary from 50 cents to \$1.50. Students' prices are 50 cents for a single event and \$1.00 for a pass to all games. The general admission tolls are 75 cents for a single One day while visiting Saint John, N.B., a UNB student en-very useful. It is mostly used for

uring them so as to have a numerical scale of values, and establish the basic laws governing them, we would be in a better po-sition to solve this class of probsition to solve this class of probof Human Engineering.

all games. The general admission tolls are 75 cents for a single events and \$1.50 for all games Tickets are on sale in the Students' Memorial Centre daily. John, N.B., a UNB student en business became very brisk. After Volta, the Electrical business became very brisk. After invented amps, Ohm in-liarity of face, form and build

#### THE BRUNSWICKAN

#### SORRY

The traditionally open-house held annually in the engineering buildings will not be held this year. Due to the disorderly condition of the buildings caused by Turner asked the Engineering Society to suspend the event until construction is completed.

To those who in the past have expressed their interest and pleasure in our social evening, we extend our sincere regrets that we could not accommodate you this year. It is hoped that the new building will be finished next year and that we will then be able to open our doors again with a greater sense of pride and accomplishment reflecting the growth of the Engineering Faculty.

### Shorter History of Engineering

The Greeks invented electricity. They did it by rubbing amber with cats' fur. This made the amber attract small particles, and the cats' fur to stand on end. It was only natural, really, as the cats did not care much for being rubbed on amber.

The Greeks did not do anything else about electricity, as they were busy at the time with a war; and the next to do anything was an Italian named Galvani.

Galvani found a way to make frogs legs twitch by electricity. Neurotic frogs could twitch all right without Galvani, but nevertering into a human behavior theless the discovery was very im-problem, discover a way of measvent his cell.

Volta's cell was very useful ground work for a department vented until fifty years later, 'so the volts had to push around on their own for a bit. This gave rise to static electricity, static elec-

## YOUR PRESIDENT SPEAKS

Page Three



It is estimated that the supply of Engineering graduates in Canada over the next three years will remain inadequate. Our position with regard to employment and salaries is extremely good but we must guard against disinterest. By disinterest I mean two things.

First, fewer than half of those qualified belong to an engineering professional society; and secondly, although too many individuals have no conception of what constitutes professional attitude or what these responsibilities are.

Engineering stands at a crossroads. Where our profession goes from here lies in the hands of each and every individual who calls himself an Engineer.

I am taking this opportunity to thank all those who contributed to the various Engineering Activities throughout the year. The tours, smoker and events during Carnival and Engineering Week were capably handled by the various committees.

With the completion of our new engineering building and the rapid growth of engineering enrollment at U.N.B. I foresee a bright and prosperous future for the Society. The Society has a great deal to offer but it is only through your efforts that its benefits may be realized.

> David J. McColm President **Engineering Society**

the other half of the pleasure out | the mornings about eight o'clock of it, and gave rise to a vast hier- just when you need it most.

1:30 p.m. <b>HUMAN ENGINEERS</b> (Continued from page 4) the pertinent variables en- (Continued from page 4) the UNB student. "Was your mother ever in Montreal?" "No", replied the other, "but my father was."	However, it has since been prov- ed that all these were really of electricity — DC and AC. DC If she's slow of comprehension—
UNIVERSITY	Serge Arkover, but he did not mention it at the time as he was on nights.
of	THE PROFESSIONAL tury was now nigh. It turned after 1799 as predicted, and electricity went along at a great pace. Cou- tury was now nigh. It turned after 1799 as predicted, and electricity went along at a great pace. Cou- tury our Canadian Cabinet (d) One hundred and thirty dollars for our own protection. Probably all will agree with the idea that we should help those more unfortunately endowed than
NEW BRUNSWICK	invented could be much poorer were it invented henries, Eddy invented eddy currents, Gauss invented Howe one of the most distin-
NOVI THE REAL	noles, and Baden-Fowen model ed Boy Scouts. At this stage elec- tricity was getting along very Nations. Unemployment Insur- today?
- TOCCCV	the whole thing on a mathema- tical basis and took half the pleas- ure out of it.
Courses Leading to B.A., B.Sc., B.Ed., B.C.L. B. Admin.; Graduate Courses for	The greatest inventor of all was Faraday. Faraday was sickly as a youth, but he got better and he invented electro-magnetic induc-
Master's Degrees and Ph.D. in Chemistry	tion. This enabled electricity to be made in large pieces, and with- out it we would not have all the benefits of modern civilization benefits of modern civilization
arts     law     science     forestry     education	such as radios and atom bonnos. Faraday was a prolific experi- menter and some of his experi- ments were classics. He con- butes annually approximately
<ul> <li>business administration</li> </ul>	(a) Twenty cents to the ad- the butterfly net experiment, the Faraday cage experiment, and he also experimented with electric-
Pre-Medical and Pre-Dentistry Courses for information write the Registrar, Fredericton, N.B.	(b) One donar and sector ity. After Faraday, the electricity business got very big, and it was not long before people began selling it for money. This took