

## "DANCE OF THE YEAR"

Tonight will be the annual Engineering Formal Dance. This dance to be held in the Lord Beaverbrook is sponsored by the University of New Brunswick Engineering Society in conjunction with the Local Branch of the Engineering Institute of Canada. Both organizations have put a great effort forward to make this formal the best in its history and a large attendance is anticipated.

The evening will include spot dances and novelty dances with very lovely prizes. The Engineering Queen, Miss Janet Hunter, is to be formally crowned as a highlight of the evening.

This is a dance created for the express purpose of providing an evening for the Engineers. No one will be admitted without their invitation card under any circumstances. We feel sorry that entrance is limited but the committee could see no other way to cope with the problem of overcrowding.

Dance committee chairman, B. W. Ritcey wishes to express his sincere thanks to all members partaking in the preparations and particularly R. E. B. Moffatt for his tireless effort and generous donation of working facilities.

Decorations for the dance are said to be more extensive than in former years and the Collegians under the direction of Paul Stewart will provide the dancing tempo.

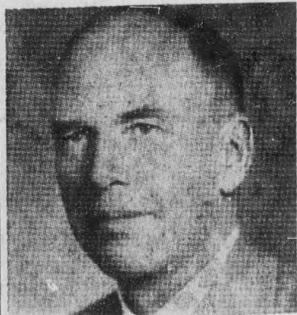
## THE DEAN'S FAREWELL

This is the last message for the Engineering Brunswickan that I shall be writing. The University Senate has granted me permission to retire before this time next year. No tears should be shed by anyone on this account. I have had thirty-eight pleasant and interesting years at U.N.B.

One is tempted to look backward at such times, even though it is a sign of old age. The late General Harbord observed in speaking at a Newcomen Society meeting, that "we study the past chiefly because of its bearing on the living present, and its promise for the future". It may be a surprise to some of you to learn that the graduating class in Engineering at my first Encoenia 1920, totalled only five students. One hundred and eighty-four students registered in the Freshmen class in Engineering last fall.

My early classes in Surveying had only four buildings to locate in their second year Surveying, the Arts Building, the present Civil and Mechanical Building, the Electrical Engineering Building which was then the gym, and of course the Observatory. Those of you who made the survey this Fall can appreciate the change.

I have every expectation that someone in position forty years will be making similar compar-



DR. E. O. TURNER

isons as to the registration and housing. Our friends are learning that we need and deserve their help. This well could be the beginning of a golden era for educators. Before long it may not be necessary to search for dedicated people to fill the ranks of our Faculty. But no matter how efficient the Faculty may become, the old axiom that students will get no more from their education than they are willing to put in, is still in order.

I expect to keep my home in Fredericton, and as always, I shall be pleased to have my former students come to see me whenever they come back this way. May I wish you all a happy and successful future.

E. O. TURNER

## Engineers Trip to Saint John

Each year the members of the senior engineering classes anticipate the opportunity to take part in a class tour. This year's tour to Saint John was both informative and entertaining.

Under the leadership of Larry Keddy our group of some forty engineers set out for the sunny city on October 26.

Our first stop was the world famous Saint John drydock. The group was split into three parties under the guidance of senior drydock officials. After a brief historical lecture our guides conducted us on a very thorough tour of their operations and we were enlightened on various aspects of design, construction, maintenance and company policy.

Our second host of the day was Simms Brush Company. Our guides conducted us on a tour of the factory in groups of five. The systematic and efficient assembly of various types of brushes was very impressive. We were told the complete story of brushes from "pig to pantry" and saw how automation and synthetic nylon bristles have developed this industry.

Our very enlightened group then proceeded to Red Ball Breweries where we anticipated gaining a thorough knowledge of the brewing industry from "hops to hallucinations". Our hosts did not disappoint us. After many stories for adults only our chaperone Al Stevens thanked our host and we climbed aboard the bus and headed back to the capital.

Our good conduct on the return trip is a fine example which can be held up to future classes and tours. In closing we take this opportunity of thanking our co-sponsors, the Engineering Society and the University for making this trip possible.

## GRADUATION

This year U.N.B. will graduate seventy-one engineers. After five years of study they have finally reached the first pinnacle of success in their profession. U.N.B. is proud of her Engineering Faculty and the men she graduates.

We the staff join with the University in wishing each one of them a happy and successful future.

## Engineering Queen



Blonde, blue-eyed Janet Hunter was introduced to the Engineers at the Winter Carnival. Miss Hunter whose home is in Halifax entered U.N.B. as a sophomore after taking her matric at Queen Elizabeth High School in Halifax, N.S.

A girl of many talents, Jan has found time to be a cheerleader, work for the Brunswickan and rumor has it that she will appear in the Red and Black. We are proud to have her for our Engineering Queen.

## The Professional Engineer and Public Life

Most people are prepared to accept in principle the idea that it would be a good thing if more Professional Engineers could be persuaded to take a more active part in politics. Professional Engineers, because of their training, are well qualified to view international and national problems in correct perspective; they are trained to budget their resources in the most efficient and effective manner possible.

In essence, politics may be thought of as the everyday business of trying to assess reducible and irreducible data and, from the resulting assessment, planning the wisest distribution of the wealth available to the community under consideration. Many of those who enter public life are well qualified to propound those principles which we in the democratic world treasure so highly, such as justice, charity, and freedom. Unfortunately these very principles involve much that is intangible and their presentation frequently involves so much excess verbiage that realities, which are also important, often are not given the attention they deserve. Most people find ideas much more simulating than facts. In the past men have fought for

ideas, ideals, and principles. Probably they will continue to do so. Men have seldom fought because of a set of facts although hard facts have always determined the outcome of their fighting.

In short, wars are fought on behalf of such intangibles as freedom and democracy, seldom if ever because of such a tangible thing as a table of statistical data. Unfortunately it is often in the so called dry statistical data that we can find the underlying causes of unrest, both at home and abroad. Professional Engineers are trained to deal with facts and to assess their relative importance. The collective wisdom of any important legislative body would surely be enhanced by the presence of one or more Pro-

(Continued on page 3)



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## Dean E. O. Turner

Dean E. O. Turner was born at Harvard Mass. where he received his public and high school training. In 1910 he entered the world famous M.I.T. where he gained his degree in Civil Engineering. After graduation he held positions with Boston-Maine Railway, The Public Service Commission of New York and the Mass. Highway Commission. The first world war intervened and he entered the U.S. Army Airforce as Second Lieutenant in 1917.

Dean Turner first came to New Brunswick and U.N.B. in 1919, when he assumed duties as head of the Civil Engineering Department. He was granted the degree of honorary Doctor of Science in 1940 and became Dean of all Engineering in 1945.

The activities of our Dean have been bright and varied. He has served as Vice-President of the E.I.C., President of the Association of Professional Engineers for New Brunswick, Member of the American Society of Engineering Education, Members of the Newcomen Society of North America and President of the Royal Canadian Golf Association. To add to all these interests Dean Turner has been consultant for several large Montreal firms.

After thirty-eight years at U.N.B. our Dean is retiring. His term is the second longest in the history of education at U.N.B., however his contribution and inspiration to Engineering on this campus will always rank as a first. The faculty and students will long remember his work at U.N.B.

We the engineers wish to thank our Dean for his untiring interest in our welfare and we join in wishing him fond farewells and a happy future. B.W.R.

## Looking Ahead . . .

This year there is a famine of Engineering Graduates. Our campus is besieged with employers with a thirst for our services and we tend to have an exalted opinion of our skill and ability. This is a good situation for all Engineers. It boosts our profession and speaks well for the kind of training we have received. Indeed, Engineers are enjoying unprecedented good times and the future looks extremely bright.

As Engineers we assume certain obligations which increase in intensity as years go by. Business expects more and more technical "know how" from the graduate and we are obligated to meet that demand to uphold our profession. Secondly we owe it to ourselves to increase our knowledge and keep pace with the technological advances in order that we may hold our position as leaders in science.

There is an ever increasing tendency to assess our future in terms of dollars. Upon graduation we take the job paying the most and the contribution we make to engineering, to society and to our own development as Engineers is lost.

Surely there is more than just the financial reward. Have we spent five years at college for this alone or will our chosen profession become as it should—a way of life? Every man graduating will agree that his ability to go forth and revolutionize is indeed limited, however we do have the nucleus in our training. True success is within the grasp of every man who will continue to study and further his knowledge in a field of endeavour for which he is best able and suited. With this success will come the reward we now seek and have not yet earned. B.W.R.

### THANKS!

I would like to take this opportunity for expressing my most sincere thanks to those who contributed to the production of this Engineering Brunswickan. The help of each has been invaluable and without it, the editing of this issue would have been impossible. B.W.R.

You are Always Welcome at the

*Paradise Restaurants*

SAINT JOHN — AND — FREDERICTON

## Boost the Society

Each student engineer at U.N.B. has the opportunity of becoming a member of the Engineering Society. Here he may find a place for testing his skills of leadership and his ability to shoulder responsibility. He can work to build the strength of the Organization and reap its rewards. This then is the purpose of our Organization, where we can unify the efforts of the engineers and let our cause be heard.

Many times we have suffered rebukes and chiding but yet we stand. These ill words usually stem from within our organization in an unrelentless effort to renew the vigor and interest in the Society. Therefore if this has held you back do not concern yourself as other people seldom care about the status of your Society. They are more likely to laugh at you if it dies, however your efforts to build it, no matter what the outcome, will stand rewarded.

Here at U.N.B. the engineers represent almost half the student population. With this we can be strong, demand voice, and be of great service to the faculty as a whole, but to gain the necessary effect there must be unity. Each member must deem it his own responsibility to partake in Society activity and to create new ones. Let us talk no longer of greatness, let us attend meetings and work toward it. B.W.R.

## Nominations

Nominations for the 1957-58 Students Council close tomorrow. At that time, presumably, all those students who wish to nominate representatives will have done so. The elections are slated for the end of the month, and that is the time when we must exercise the most important prerogative of democracy, the right to vote. These persons will be your representatives. The council, will, in effect, be the students of UNB.

Many students have had pet peeves, and suggestions, which, they have felt, in the past, should have been brought to the attention of the legislators. This is the time to assure that they will be introduced. The only way to achieve this is to elect representatives who will simply and effectively present your ideas to the council.

## A Good Step . . .

At their recent meeting, the Students Council adopted a motion without precedent in the history of student affairs at UNB. The proposal, made in the form of a suggestion, came from Mr. Ron Pearsall, WUSC Corresponding Secretary at UNB, and former local president. It allows for a levy of \$2.00 on the student fees, the money to be equally apportioned to WUSC and NFCUS. In the case of WUSC, the dollar would be divided into various component parts, including the money now raised through the annual WUSC Campaign. Part of the money would be allotted to Refugee assistance. This would mean, in effect, that there would be no more WUSC Financial Campaigns in the future, and that the present 10 cent per student granted by the Council would be dropped. NFCUS would divide its share in two, sending .50 to the National Office in Ottawa as part of UNB's contribution to the Federation. The remaining .50 would be established as a Canadian University Student Scholarship. In this way, for example, the local committee could conceivably have about \$700.00 for scholarship purposes next year.

The idea is an excellent one. It provides the National Federation on the campus, with an opportunity to illustrate what it can do to help Canadian University Students. It will silence that energetic minority who stubbornly maintain that we should help our own students before Foreign students. There can be no doubt that there do exist Canadians who, for one reason or another, cannot attend college. This will help; help, especially in a province which is not, to say the least, wealthy. The setting up of this fund, will also bring home to more students, the vital work NFCUS can do, if it has the opportunity. It is our hope that the committee handling this tremendous responsibility is a little more efficient than this past year's group.

In both WUSC and NFCUS, the student has an expression of his interest in Canada and the World. By making the money readily available at the beginning of each year, the respective organizations can more easily carry out the program for which they were designed.

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## E. I. C. STUDENT MEMBERS

The Engineering Institute of Canada established in 1887 is an organization wholly directed to the advance of the engineering profession in Canada. Its objectives are varied and detailed, supporting technical, professional and social functions, beneficial to its members and the profession it serves.

There are approximately sixteen thousand members, each entirely voluntary. Every person as a member is associated with one of fifty branches, and branch sections located from Newfoundland to the Yukon. Here either as student or graduate you meet the men of your profession. You hear papers given, enter discussions or just enjoy a social evening.

As a member, student or otherwise, you will receive the monthly publication of the Engineering Journal. The magazine is up to date on all major advances in engineering. It carries many technical papers, articles of professional interest, news of industry, reviews of technical books and news of branch and association activities.

The status of the Institute directly affects the status of the individual engineer. As a member of the Institute one adds unity to the profession and gains prestige for himself. As a student member you adopt the right to add S.E.I.C. after your name. Being a member of the E.I.C. can add strength to the profession and dignified professionalism to your character. B.W.R.

'WASSAIL'

LORD BEAVERBROOK

HOTEL

MARCH 2nd

Whether or not this will become, in fact, law, is up to the students. A plebiscite in conjunction with the SRC elections will be held towards the end of February. On that ballot, the student will be faced with a number of options: whether he wishes the whole two dollar levy, whether he wishes either \$1 for NFCUS or WUSC, or whether he is against the whole principle. Let us hope that we all show common sense and decency to others!

# Touring N.B. Telephone Co.

In January, the members of the senior electrical class, in 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 occasion, 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, the tour continued on to the long distance or toll terminals. Although at this point many seemed to be more interested in learning how the operators operate, others were shown the routing procedure followed in putting through a long distance call. No doubt the most interesting part of the tour was through the rooms hous-

ing the microwave (TD-2) system equipment. This microwave network presently extends from Sydney, Nova Scotia into the United States and carries television video signals as well as telephone conversations. The tour was concluded at the television monitoring panel and after a vote of thanks to the engineering staff, 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 the tournament title will go on the line in a sudden-death affair at 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 event and \$1.50 for all games. Tickets are on sale in the Students' Memorial Centre daily. They are obtainable between 1 and 1:30 p.m.

## HUMAN ENGINEERS

(Continued from page 4)  
mine the pertinent variables en-

tering into a human behavior problem, discover a way of measuring them so as to have a numerical scale of values, and establish the basic laws governing them, we would be in a better position to solve this class of problem. But this is exactly the same system that is used in engineering today so it would form the ground work for a department of Human Engineering.

One day while visiting Saint John, N.B., a UNB student encountered a fellow who was his exact double. Both stopped and stared at each other, for the similarity of face, form and build was startling. "Pardon me", said the UNB student. "Was your mother ever in Montreal?" "No", replied the other, "but my father was."

## 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 the current additions, Dean E. O. 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 nevertheless the discovery was very important, and it led Volta to invent his cell.

Volta's cell was very useful and very popular, and he made a great deal of money out of it; hence, Volta's pile. Volta also invented volts, which are things that push amps around the circuit. Actually amps were not invented until fifty years later, so the volts had to push around on their own for a bit. This gave rise to static electricity, static electricity is very interesting, but not very useful. It is mostly used for lighting.

After Volta, the Electrical business became very brisk. Ampere invented amps, Ohm invented ohms, Watt invented watts, Milly invented milli-amps, and Meg invented meg-ohms. The latter showing the early influence of women on electricity. However, it has since been proved that all these were really invented by a Russian called Serge Arkover, but he did not mention it at the time as he was on nights.

The turn of the eighteenth century was now nigh. It turned after 1799 as predicted, and electricity went along at a great pace. Coulomb invented coulombs, Henry invented henries, Eddy invented eddy currents, Gauss invented geese, Evershed invented Vignoles, and Baden-Powell invented Boy Scouts. At this stage electricity was getting along very nicely until Clerk Maxwell put the whole thing on a mathematical basis and took half the pleasure out of it.

The greatest inventor of all was Faraday. Faraday was sickly as a youth, but he got better and he invented electro-magnetic induction. This enabled electricity to be made in large pieces, and without it we would not have all the benefits of modern civilization such as radios and atom bombs. Faraday was a prolific experimenter and some of his experiments were classics. He conducted the ice pail experiment, the butterfly net experiment, the Faraday cage experiment, and he also experimented with electricity.

After Faraday, the electricity business got very big, and it was not long before people began selling it for money. This took

## YOUR PRESIDENT SPEAKS



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. McColem  
President  
Engineering Society

the other half of the pleasure out of it, and gave rise to a vast hierarchy now under control of administrators and policy makers. These are very important people and are very busy making policies. They are naturally of much more account than the old fashioned types who only make the electricity.

Nowadays there are two types of electricity — DC and AC. DC is a bit old fashioned and goes the same way all the time, but AC comes and goes. It mostly goes in

the mornings about eight o'clock just when you need it most.

## Electric Love

If she wants a date—METER  
If she wants an escort—CONDUCTOR  
If you think she's picking your pocket—DETECTOR  
If she gets up in the air—CONDENSER  
If she's slow of comprehension—ACCELERATOR  
If she's hungry—FEEDER  
If her hands are cold—HEATER

## THE PROFESSIONAL

(Continued from Page 1)

Professional Engineers in their ranks. Surely our Canadian Cabinet would be much poorer were it not for the counsels of Mr. Howe, one of the most distinguished Engineers in public life today?

In dealing with the United Nations, Unemployment Insurances, or Old Age Pensions, one is faced not only with the comparatively simple problem of whether or not they are good in principle, but also the much more difficult problem of allotting of each an appropriate portion of our resources, to the end that the best overall result may accrue to our community. The following examples may serve to illustrate the type of problem which today faces citizen and legislator alike. Every Canadian, through our Dominion Government, contributes annually approximately

(a) Twenty cents to the administration of the United Nations and its specialized agencies;  
(b) One dollar and seventy cents to the Colombo Plan.

(c) Ten cents to the United Nations Technical Assistance Program.

(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 we, and that we should take steps to defend ourselves against aggression. However some Canadians may question the proportions of our wealth which we allot to these worthy causes. Heaven forbid that we be ever faced with a world run by Professional Engineers, such as is suggested by the proponents of Technocracy. We merely suggest that Professional Engineers should make greater contributions to politics than they do.

Unfortunately the difficulties involved in introducing Professional Engineers into the political life of our country are great. Nevertheless it would appear that our profession has a contribution to make in politics. It is up to us to consult among ourselves and find ways and means of making our collective training and knowledge available to our local, national, and world community. In each of these communities we have not only a vital interest but also an important part to play. (An Editorial from, The B.C. Professional Engineer).

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Letters to the Editor  
Sir:

For the past few weeks there have been many articles written and much talking done concerning the sudden influx of Hungarian students into Canadian universities. This is possibly more than just a controversial subject. It seems to touch home with many people. I hope that by writing this, I may point out that this is not a personal issue and would not be half so serious if people would tackle the problems involved in a business-like way.

Anything that is done by us or by any body of Canadians which may hinder or retard other Canadians, either in cultural or economic growth, is not a cause that we should adopt. It is no secret to us at U.N.B. that we are overcrowded. The time has come when we are turning away students because we lack space and facilities. This is not peculiar to U.N.B. alone. Overcrowding is the case at every Canadian university. The truth of the matter is, we do not have either the money or the space to give all the Canadians seeking university education a chance.

The recent revolt in Hungary and the subsequent terrorizing of her peoples is indeed a most terrible event in history. I think the people of Canada should well be prepared to open her doors and give these people the freedom our country offers. To open our universities, is however a totally different story. To bring students from a different land into our universities without proper assessment of their previous training is not fair to Canadian students. We are by this depriving Canadians of their birthright, which if it is not, should be against the constitution of our country.

There has been a suggestion that a plebiscite be held at U.N.B. to gain permission to levy each student to provide scholarships for Hungarians. The committee in charge, realized for the first time, that we had never done such a thing for our own people and yet we would sacrifice ourselves for the Hungarians. Thus, in an effort to ease feelings on the matter, further permission is being sought to increase the levy to provide for Canadian scholarships.

This situation should never have been allowed to happen. If the facts are simply that we could not absorb anymore Canadians and hence made no provision for them, then the whole enterprise of Hungarian education in our universities is wrong.

Let us be generous by all means, but do not impoverish or deprive our fellow countrymen with our acts of kindness.

Sincerely, W. R.

Human Engineers

by Dr. R. F. Hooley

Day by day we employ mathematics to investigate the behavior of engineering problems. Many problems in human engineering can be dealt with in a similar manner. It is a rare case when behavior can be expressed in symbols and given a scales of values but this does not prevent us from showing the results on a graph.

As an example I have chosen a problem common to all students. We are all aware that a student makes a sound investment in his education but let us look here at the dividends paid per hour of study during the four-year engineering course. If we plot as ordinates the trouble T a student has at any time with his

Definitions For  
Dumb Artsmen

In order to aid Artsmen with their new technical courses, the following list of Engineering terms has been prepared.

Airship hull—A whole airship.  
Arctic front—An attitude assumed by an unco-operative co-ed.

Brazier—A garment used to minimize the effects of flutter and vibration.  
Die casting—A form of gambling.

Hand forging—An illegal form of penmanship.  
Hydrogen—An alcoholic beverage composed of water and gin.

Lockwasher—One who washes locks.  
Mating Jig—An animal husbandry accessory.

Ohmmeter—One who eats ohms. (Ohm cooking, Ohm made jam, etc.)  
Resisting Moment—A short moment during which an arctic front exists. (Usually occurs prior to mutual inductance).

Skin Drag—A dance done at a nudist colony.  
Stress—Force that must be applied to make a body yield (see rape).

Strain—Deformation due to the application of force. (See pregnancy).  
Thermite—A small insect that eats houses.

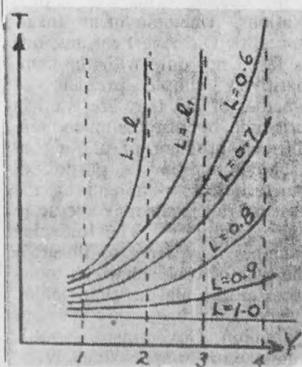
Thermocouple—Newlyweds.  
Reprint from The Varsity

WASSAIL

After a years absence the Engineers' Wassail is coming back. A dressed-up version is to be held at the Lord Beaverbrook Hotel in the form of a banquet, followed by a smoker. This event is scheduled for March 2. Tickets may be purchased in the Engineering stores.

studies against Y, the year in which he is studying, a series of curves is obtained as shown. Since T and Y are not the only variables a parameter L is introduced which varies from zero to one. This parameter represents the effectiveness or efficiency of duty. If a study is complete and well done then L equals one. As the time spent studying decreases and lessons are not so well prepared then L will approach zero. Everyone has some trouble but T can be a minimum. Looking at Y equals one we see that a wide variation in L causes but a small variation in T. This is so small because at Y equals one, the basic theories are being presented and not used. As Y increases these theories become the foundation and are used extensively so that as L decreases T will increase at a faster rate. In fact, as I approaches a limited value 1 the curve is such that the student may approach Y equal two as close as he pleases but never get there. In general, if we could deter-

(Continued on page 3)



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KENNETH STAPLES DRUG COMPANY

∴ Chuckles ∴

Fanny the Variable

Once upon a time on a beautiful starry night, Rube, the compound doctor, and Fanny, the variable resistor, decided to go over to the DC Lab., where they had heard the Delta Wye, a local fraternity, were having a magnetic blowout and the volts were jumping all over the place.

On the way to the Lab, they stopped off for a short circuit at the Centre Tap. The lights were low and there was an electrostatic charge in the air — it was a perfect night for fusing. Rube ordered Gulfpride, 40 weight, while Fanny ordered a double copper oxide. They were having some mutual induction when Fanny screamed, "Ye gad, I've ripped my last pair of insulators," and ran for the "Little Resistors' Room". Rube knew all the time that she was having a surge current and that she had a poor excuse.

At that time, Jake the unloaded Generator, a big time three-phase Delta connected power dispenser, was sitting at the bus-bar getting his bearings oiled. There were whispers all over the room that his efficiency had dropped — poor Jake — he needed his power factor raised. He eyed Fanny very closely as she ambled toward his table. Then he purred very softly, "Hey, honey, did you come out of a hot wire instrument?"

Her quick retort shamed Jake down to his slots. "No, you small time sinewave pusher, don't get your field excited. I'm with a cumulative - compound motor." With that she swished back to Rube and finding him fused out, she glanced frantically around the room. Her gaze came to rest on Jake's big yoke. "My," she thought, "what big pale faces he has". Jake, seeing the glow in her eyes, nearly fell out of synchronism. He regulated his voltage and walked over to her table, and immediately apologized for his pulsating manner.

After taking a few ampereturns around the floor, he decided that she was just the one for him. MAN — she sure has a well shaped hysteresis loop. At Fanny's request to sit the next one out, Jake took the opportunity to tell her how his interpoles were wound. He clasped her end connections, tightly, and whispered, "Fanny, my love, I think I've just the generator for you—I am drum wound, have a rotating field, and can be hand regulated, and have no leakage reactance. Darling, will you be my little variable rheostat?"

Food for Thought

The most distressing emotion—Fear.

The best day—Today.

The biggest fool—The boy who will not go to school.

The best town—Where you succeed.

The most agreeable companion—One who would not have you any different from what you are.

The best friend—One who tells us our faults.

The greatest bore—One who keeps on talking after he has made his point.

The greatest deceiver—One who deceives himself.

The greatest waste—War.

The best work—What you like.

The greatest comfort — The knowledge that you have done your work well.

The greatest mistake—Giving up.

The three most expensive indulgences—Self pity, hate, and anger.

The cheapest, stupidest and easiest thing to do—Finding fault.

The greatest trouble maker—One who talks too much.

The greatest stumbling block—Egotism.

The most ridiculous asset—Pride.

The worst bankrupt—The mind that has lost its enthusiasm.

The cleverest man—One who always does what he thinks is right.

The most dangerous person — The liar.

The best teacher — One who makes you want to learn.

The meanest feeling of which any human is capable—Feeling bad at another's success.

The greatest need — Common sense.

The greatest puzzle—Life.

The greatest mystery—Death.

The greatest happiness—Helping others.

The greatest thing, bar none, in all the world—LOVE.

Party System

Hugh John entered a local dentist's office with an aching tooth.

"I think we'll have to remove those two teeth," said the Dentist.

"Oh, I can't stand that pain," moaned Hugh John, "can't you give me some (of the) 'twilight sleep'?"

"But," said the Dentist, "twilight sleep is only for labor."

"Darn it," roared H. J., "isn't there anything for us conservatives?"

"Thermometers," said the professor, "are not the only things to be graduated, have degrees and still have no brain."

Evolution

Three monkeys sat in a coconut tree  
Discussing things like you and me.  
Said one to the others, now, listen you two:  
I hear a rumour that cannot be true.  
That man has descended from our noble race.  
The very idea is a disgrace.  
Why, no monkey ever deserted his wife.  
Starved his children and ruined her life.  
And who ever heard of a mother monk  
Leaving her children with others to bunk,  
Pushing them off from one to another  
'Til they scarcely know who is their mother?  
Another thing you'll never see  
Is a monkey-built fence 'round coconut tree,  
Letting all the coconuts go to waste,  
Forbidding other monkeys to have a taste.  
Why, if I built a fence 'round a coconut tree,  
Starvation would force you to steal from me.  
And another thing a monkey won't do—  
Go out at night and get in a stew,  
Make a fool of himself, stir up strife,  
Or with a gun or club take another monk's life.  
Of course man descended, the ornery cuss,  
But brother, he didn't descend from us!

BRANDS

No matter what you buy, it's always a wise policy to remember the brands you like and ask for them by name—

- DAKS SLAX
- DAKS
- SPORT COATS
- AQUASCUTUM
- COATS
- HARRIS TWEEDS
- VİYELLA SHIRTS
- LANEROSHI SHIRTS

- JANTZEN
- and
- GRAND'MERE
- SWEATERS
- CROMBIE HATS
- STETSON HATS
- ARROW SHIRTS
- BILTMORE SHIRTS
- GRENFELL JACKETS

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Minolta A f/3.5 lens 1 sec. to 1/300th fully synchronized for flash with built in Rangefinder **\$49.95**

Minolta A-2 f/2.8 lens 1 sec. to 1/400th fully synchronized with built in Rangefinder and bright - frame viewfinder **\$69.95**

**THE HARVEY STUDIOS**

# UNB CAGERS TO INVADE MT. A

## SKI STAR IN ACTION



Shown above is ROGER HOUDE, a member of the UNB ski team, whistling down a slope out at Royal Roads. Roger recently won a down-hill race with the fastest time of 29.0 seconds. The fastest time on this course is 28.0 seconds and is held by a former member of the ski club, Norval Balch. Next weekend the UNB ski team is travelling to the University of Maine for a meet. Further plans are also being made to go to Edmundston for a meet. If the snow conditions remain good, there is a good chance that UNB will have a good entry in both of these competitions.

## NECBC MEET NEXT WEEK

One of the biggest sports attractions to be held on the University of New Brunswick campus during the current school year is scheduled next Thursday, Friday and Saturday.

The big event is the **NORTHEAST COLLEGE BASKETBALL CONFERENCE TOURNAMENT**. It's to be played at the Lady Beaverbrook Gym.

Entered are six schools. Taking part in addition to the UNB Red Raiders are Ricker College of Houlton, Me.; Washington State Teachers' College; Arroostook State Teachers' College; Fort Kent State Teachers' College; and Hudson College of Bangor, Me.

The tournament gets underway at 7 o'clock Thursday evening. A second game will be played at 9 o'clock.

Two more games are slated Friday. The first is at 7 and the second at 9 o'clock.

(Continued on page 3)

## Men's, Gals' Games Set Tomorrow Night

University of New Brunswick basketball teams will undergo an important test this weekend in a doubleheader against Mount Allison University squads at Sackville. The tilts are booked for Saturday night.

UNB's hopes for the Maritime Intercollegiate Men's Basketball Championship, the **Red Raiders**, will take to the floor against the Mounties in one half of the twin bill. In the other, the **Red Bloomers**, strong contenders for the Maritime Intercollegiate Women's Basketball Championship, will tackle the Mount Allison co-eds.

Red Raiders have won and lost one in New Brunswick—Prince Edward Island Intercollegiate Men's Basketball play so far this season. After tapping Mount Allison at home in their opener, the Raiders bowed last week to St. Dunstan's University of Charlottetown, P.E.I., 66-63, in the Island center. In addition to these games, the **Raiders** have been playing in the Northeast College Basketball Conference, a loop consisting of UNB and five State of Maine quintets, as a warmup for their championship play.

Raiders are defending N.B. - P.E.I. kings. They were defeated in the Maritime final last season by St. Francis Xavier University of Antigonish, N.S., in a closely-contested two-game, total-point set. Raiders won at home but were beaten in Antigonish.

Red Bloomers will be looking for their fourth straight triumph when they take to the Sackville boards against the Garnet and Gold. In their latest encounter, the girls topped Acadia University of Wolfville, N.S., 56-13 as Iris Bliss dropped through a total of 31 points. They have also beaten Dalhousie University of Halifax, N.S., and Mount Allison in the Lady Beaverbrook Gym.

## Devils To Rest

It was not known at the time of this column's printing whether or not the Red Devils would be active this weekend. Coach Kelly has attempted to line up a game with a SNBHL team this weekend, but it appears these teams have other commitments.

With the two-week lay-off it is expected that Bill Stewart will be in shape to play next Saturday night against the St. Thomas Tommies. Winning this game will mean UNB's first N.B.-P.E.I. championship in five years.

## Puck, Hoop Hopes High At UNB

By TUFF LYONS

It seems that this year the supporters of the UNB varsity hockey and basketball teams have something to cheer about. Both of these teams have been doing very well so far this season, and barring serious injuries we hope to cop two more intercollegiate trophies.

In hockey, with the defeat of the Mt. A., both at home and away, we can be pretty sure of the championship. The only stumbling block might be the St. Thomas College whom we have yet to meet. The first game against STU will be held in our rink February 23. The second will be played at St. Thomas on March 1st.

In basketball, we have also shown strength and if we can keep this up we can be sure of another championship. The games which the team has played in the North Eastern College Conference appear to have made a much faster squad out of the Raiders. It has been noticed that the Americans play a much faster game than their partners on this side of the border. This experience which Raiders have gained makes their game a lot faster and gives the man advantage over the next team if they can run the opposition into the floor before the second half and still keep up the pace themselves.

### 5-PIN BOWLING

Feb. 18—7:00, Junior Engineers vs. Int. Foresters; 9:00, Foresters 35 vs. Int. Engineers.

Feb. 21—7:00, Education vs. Soph. Foresters "W"; 9:00, Junior Engineers "K" vs. Arts Combines.

Feb. 25—7:00, Junior Engineers "R" vs. Intermediate Engineers; 9:00, Intermediate Foresters vs. Foresters 35.

Feb. 28—7:00, Education vs. Arts Combines; 9:00, Sophomore

Foresters "W" vs. Junior Engineers "K".

## INTRAMURAL BASKETBALL

Senior Engineers and Faculty placed their unbeaten records on the line in Intramural Basketball League play this week. Both squads had six wins and no losses going into Wednesday night's action.

The Senior Engineers tackled Junior Foresters and the Faculty traded points with Intermediate Engineers. Junior Foresters had been beaten in four of their six games previous to Wednesday night's action while Intermediate Engineers sported a respectable five-win, one-loss record going into their action against the pros.

## Young Man In a Hurry!

Most young men want to get somewhere in a hurry! The Bay offers a real opportunity for Arts and Commerce graduates to do so.

You can be an executive soon—because Arts and Commerce graduates learn retailing rapidly.

Retailing in the Bay's Department Stores offers —

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- Minimum starting salary — \$325 per month.
- A chance to grow with Western Canada.

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Our Representative Will Be Here ( )

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Exclusive to University Students at this UNMATCHED low cost.

**\$10,000** for only **\$35** PER YEAR

**\$5,000** for only **17.50** PER YEAR

You cannot purchase this plan after leaving University!  
APPLY NOW and avoid disappointment.

Underwritten and guaranteed by Canadian Premier Life Insurance Company—a Canadian Company with federal charter, licensed in all provinces of Canada, from coast-to-coast and backed financially by insurance interests with assets exceeding \$330 millions.

"... it is almost half the cost of other policies generally available to persons in the student age group."  
JAMES PICKETT, Executive-Secretary, NFCUS.

"... your policy is an ideal form of adequate protection with a premium that I will be able to afford while I am getting established."  
A NFCUS Policyholder.

## PARTICULARS OF NFCUS LIFE PLAN

**THE PLAN**—Term insurance for 10 years or to age 35, whichever is the shorter period: Ordinary Life thereafter.

**AMOUNT OF INSURANCE**—The minimum policy is \$5,000. There is no arbitrary limit to the amount that may be applied for except the usual limits under the Company's regular underwriting rules.

**THE PREMIUM**—\$3.50 per \$1,000 annually during the term period; Ordinary Life rate thereafter. The Ordinary Life Rates are included and guaranteed in the NFCUS LIFE Plan policy.

**ELIGIBILITY**—All students registered at the University of New Brunswick are eligible up to age 35, nearest birthday (this allows for applications up to age 35½).

**EFFECTIVE DATE OF INSURANCE**—Insurance under each policy takes effect immediately upon the issue of the policy by the Company, whether the first premium has been paid or not.

**TOTAL DISABILITY BENEFIT**—If totally disabled your protection is continued in force without further payment of premiums. If still disabled when term period expires, your protection is automatically continued in force on the Ordinary Life Plan for the same amount of insurance with all premiums on the new plan waived until death or earlier recovery.

**PRIOR CONVERSION OPTION**—While the plan automatically becomes Ordinary Life at the end of the term period, there is an option for prior conversion to Ordinary Life at guaranteed rates without further evidence of insurability. Also, conversion to any Limited Payment Life, Endowment or Pension plan may be arranged.

**CONVERSION AGE**—NFCUS Life Plan policies may be converted at the attained at the date of conversion; or at the age as of the original date of issue of the policy, in which case credit will be given for ALL premiums paid in addition to the conversion credit of \$2.50 per \$1,000 (see below).

**REDUCTION IN FIRST YEAR PREMIUM ON CHANGE OR CONVERSION**—A reduction of \$2.50 per \$1,000 of insurance will be allowed from the first premium payable upon the change to Ordinary Life at the end of the term period, or upon conversion of your NFCUS LIFE policy to any plan at any time. For example, if converted at age 25, \$10,000 NFCUS LIFE insurance would cost \$125.40 and the first year premium would be reduced by \$25.00 leaving a net amount payable of \$100.40 for the first year.

**ACCIDENTAL DEATH COVERAGE**—Policies may include a Double Indemnity Accidental Death clause at an extra premium of \$1.25 per \$1,000.

**GENEROUS SETTLEMENT OPTIONS**—The NFCUS LIFE Plan contains attractive settlement options whereby the insured at maturity, or the beneficiary, may elect to take the proceeds of the policy in a variety of instalments or on a life annuity basis guaranteed for either 10 years or 20 years but payable in any event for life.

**RIGHT TO ASSIGN**—You have the right to assign your NFCUS LIFE policy. This is valuable as an assistance in obtaining loans (for example, for educational purposes) as in this way the lender may be given a guarantee of payment in the event of premature death.

**GRACE PERIOD**—A period of 30 days of grace is allowed for the payment of any premium including the first.

**NON-PARTICIPATING**—The NFCUS LIFE Plan is non-participating during the term period, however, at conversion, you may select either a participating or non-participating permanent plan.

**AVIATION COVERAGE**—Death occurring as a result of air flight is covered except where you are the pilot or member of the crew.

**NO WAR CLAUSE**—There is no restriction as to the payment of death benefits if death occurs as a result of war, declared or undeclared, except as outlined for air flight.

For further information see the NFCUS Chairman, or contact:  
**MR. FRANK HOWELL**  
Maritimes Branch Manager.  
Canadian Premier Life Insurance Co.  
209-10 Green Lantern Bldg.  
409 Barrington St., Halifax, N.S.  
or write HEAD OFFICE direct.

## EVERY STUDENT NEEDS LIFE INSURANCE!!

BECAUSE you need to begin your program NOW—the student who enters his life career with a financial independence program ALREADY STARTED will, other things equal, achieve financial independence sooner — and on a higher ultimate level. NFCUS LIFE provides this "starter" at a price you can afford.

BECAUSE you need to insure the investment in your education — to protect those who have protected you. Every year, through death by accident or natural causes, there are students who will never return. If someone has sacrificed to help you through University, be sure they are not left with expenses and loans to pay.

BECAUSE only thus can you protect your "insurability." Insurance bought now guarantees your right to permanent insurance for life regardless of changes in your health.

## WHY THE NFCUS LIFE PLAN IS YOUR FIRST CHOICE

Remarkable savings achieved by NFCUS mass buying power—an advantage gained for University students through their association together in NFCUS. Tailored for University students and available exclusively through affiliation with NFCUS. The group principle brings equal protection to NFCUS students of all ages — up to 35! Non-Canadian students are also eligible if attending Canadian Universities.

### A ONCE-IN-A-LIFETIME OPPORTUNITY

Your affiliation in NFCUS makes it possible for you to own \$5,000, \$10,000, \$25,000 or EVEN MORE life insurance on your own exclusive plan covering you during your years at University and several years thereafter if necessary, at an exceedingly low rate, — then, when you are working in your chosen field (or practicing your profession) and are financially established, you begin to pay the premium for permanent Ordinary Life insurance — also at guaranteed low rates.

### TO APPLY...

Complete the application printed below, clip and mail before March 31, 1957. On amounts up to \$10,000, a medical examination is not generally required.

NOTE: This application is on newsprint. Use blue or black ink for photographing. If ink runs, please use ball point, but all information must be clearly legible. Thank you.

TO THE **FORM "A"**  
**CANADIAN PREMIER LIFE INSURANCE COMPANY**  
NATURAL GAS BUILDING, WINNIPEG 2, MANITOBA  
APPLICATION FOR INSURANCE ON THE NFCUS LIFE PLAN

10 Year Term or Term to Age 35, nearest birthday, whichever is the shorter period, with Ordinary Life thereafter, (waiver of premium included), (prior conversion option included).

PLEASE PRINT ALL INFORMATION

(1) APPLICANT First Name Middle Name Last Name

(3) PERMANENT ADDRESS No. Street City and District Prov. (Family home—where mail may be sent if necessary)

(3) MAILING ADDRESS No. Street City and District Prov. (Policy and Notice will be mailed here unless otherwise requested)

(4) DATE OF BIRTH (5) MALE  (6) MARITAL STATUS (7) WEIGHT LBS. (8) HEIGHT FT. INS. FEMALE

(9) ARE YOU NOW IN AND DO YOU USUALLY HAVE GOOD HEALTH? Yes  No  If "no," give details in Section 10.

(10) FOR ANY ILLNESS REQUIRING MEDICAL ATTENTION GIVE DATE, NATURE OF ILLNESS, DURATION AND NAMES AND ADDRESSES OF MEDICAL ATTENDANTS OR HOSPITAL.

(11) (a) Have you flown or do you intend to fly other than as a fare-paying passenger on a scheduled airline? Yes  No  If "yes," explain in "c."  
(b) Have you ever applied for insurance without receiving a policy of the exact kind and amount applied for or have you ever been offered a "rated" policy? Yes  No  If "yes," explain in "c."  
(c) Explanation

(12) Are you a member of a student organization affiliated with NFCUS? Yes  No

University Faculty

(13) AMOUNT OF INSURANCE (14) NAME OF BENEFICIARY (All Names in Full—For Example, Mary Jane Doe, not Mrs. John Doe)

\$ 5,000 @ \$17.50  
 \$10,000 @ 35.00  
 \$25,000 @ 87.50  
Plus \$ @ \$3.50 per M \$

(15) RELATIONSHIP OF BENEFICIARY TO APPLICANT (Wife, Mother, etc.)  
(16) I enclose payment of first year's premium  check please issue Policy and bill me, 30 days to pay  which (Please add 15c exchange to cheques)

It is understood and agreed that the foregoing statements and answers are complete, true and correctly recorded. I hereby apply to the Canadian Premier Life Insurance Company, Winnipeg, Canada, for insurance as described above and agree to pay premiums of the rate shown.

DATE 19 Signature of Applicant. JNB

Did you complete all SIXTEEN sections? Please be sure!

**THIS CARD ENROLLMENT OFFER EXPIRES MARCH 31, 1957 AND WILL NOT BE REPEATED.**  
Thereafter complete medical evidence of insurability will be required.