



# ENGINEERING BRUNSWICKIAN



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## ENGINEER MADE ACTING PRESIDENT

### PRESIDENT'S MESSAGE



JOHN HOLMES  
Pres. Engineering Society.

This year, as every year, the publishing of the best Brunswickian of the year indicates the beginning of Engineering Week—the week the Engineers come into their rightful own on the Campus. Credit for this year's fine effort goes to Editor-in-Chief A. McIntyre and his capable staff.

Tuesday night brings forth the big Engineer's party being held this year at Alexander featuring films, frolics, and food.

Choosing the week in true Engineering tradition comes the Wassail—Odd Fellows Hall—9:30. Want to see everyone there, Boys.

This year the society has a record enrollment with plenty of enthusiasm being shown at the regular meetings which featured technical films and addresses by graduate engineers.

This fall we had the pleasure of having as our guests Col. L. M. Grant, President of the E. I. C. and his party, who were entertained by the Engineering faculty at a luncheon held at D. Coy. Inn following which Col. Grant addressed the student engineers at Memorial Hall.

Thanks goes to Marshall Howard and committee for the very enjoyable fall party which highlighted last year's activities.

The Engineering Store has had a very successful year under our competent manager, Johnny Bosby.

This year for the third time our society will be represented at the annual E. I. C. conference being held in Banff. These meetings have been very successful in establishing closer contact between the students and graduate engineers are doing.

In closing I want to say a sincere thank you to my executive L. Moffat, A. McIntyre and J. Bosby for the very fine work they have done this year, and to all the boys for their enthusiastic support and interest in the society and its activities. It has been a privilege to be your president.

### OH DON, A CHESTNUT

I hope that I shall never be A Chestnut stripped at U.N.B. A lovely tree who upright stood Among its cousins of softer wood A Chestnut benefactor of one fine Cigarette and scarred by a plaid-jacket midge.

Seven or eight folders for all to see Subjected to ravages of Forestry I.S.B.—C.E.—48.

Any similarity between above verse and any Campus fracas is entirely intentional.

### VETERANS' BALL

To all those who have been looking forward to the Vets Club Annual Ball, we are indeed sorry to have to announce that the popular social event will not come off this spring.

Plans were completed to hold this year's Ball on March 13th in the Fredericton Amouries. The proceeds were to be given to charity (i.e. Canadian Appeal for Children). However with the sudden reversal of policy by the Senate, the Gymnasium and announced date of Formal Con Ball one week ahead of the Vets Charity Ball, we deem it advisable to cancel the latter.

KEN RIDEOUT,  
Chairman of the

## WASSAIL

Well kiddies, the time has come for another quiet little gettogether. Yes indeed, once more we must bow our heads in a moment of silent prayer dedicated to Slip Sticks.

After all, Slip Sticks is quite a lad. Can't he multiply faster than rabbits? Can't he solve the eternal triangle in three quick movements? And sometimes he comes whole-sale yet.

So hear ye men of the Slip Stick faith, all devotees of the eternal Rule are bidden from hither and you to congratulate this 25th day of September 1948 (6:30 P. M.) at the L. O. O. P. Hall to pay due reverence to his Ecclesiastical Highness, Slip Sticks (better known as "Slip").

Juhany Holmes, the fast talking disc jockey of the Phystos (ugh) lab, will lead us to our very maxima and minima (not to mention our integral) in literally dozens of dirty little ditties culled from the oily depths of the Engineering Building.

Needless to say, there will be a dinner, (a brown crisp dinner). Also light refreshments (brown crisp refreshments) and after dinner speakers (brown crisp speakers). And there will be bottles of devilish mirth and merriment (brown crisp glasses) in grubby little paws.

In conclusion my children, ray I plead, "Let us not hear the tinkle of silver among the rustle of dollar bills." (brown crisp dollar bills, that is).

P. S.—All words of over four syllables were supplied generously by the Arts department. (The brown crisp Arts Dept. match).

## RED 'N BLACK REVUE

Next Thursday is opening night! Yes, next Thursday at Teachers' College a rousing and original overture by Herby and his Bowery Boys will herald the opening curtain on the "Red 'n Black Revue," the biggest and most unusual stage show ever produced in these parts.

In the past many students with showman's blood in their veins have dreamed of a big extravagant stage show for UNB, similar to very successful productions by other Canadian Universities. It took George Robinson to start the ball rolling at a Senior Class meeting and the class of '43 pledged themselves to a supreme effort to produce a show so successful that its presentation would become an annual event. It is the earnest hope of the Seniors that the "Red 'n Black Revue" is just such a show. Those who have been working on it, many of whom began in early January, are sure that it is.

FLASH—E. L. O. P. News, Feb. 26, 1948—Engineers will soon have a representative of their own on the Advisory Service Council. N. E. MacLean, Sophomore Civil student and also a widely known critic will be available for advice on domestic, matrimonial difficulties etc. confronting students.

EDITOR'S NOTE: It is hoped that in the near future Mr. MacLean will find time to contribute his long awaited column and reopen his office in the Legion.

Here is an important notice: You can still get tickets for the "Red 'n Black Revue." They will go on sale again Up the Hill and at Alexander starting Monday, March 1st. If you want to be positive of some seats, contact any Senior in the meantime. If he hasn't any he'll get them for you.

Social Committee,  
J. CLARK, President.

### NFCUS Bulletin

National President of NFCUS Visits

UNB This Week-end—To Address S. R. C.

Bob Harwood, the newly elected NFCUS President from the University of B. C. is coming to UNB Saturday for a week-end stay as part of his tour of all Canadian Universities.

As a result of Bob's coming the regular weekly SRC meeting has been postponed until Sunday afternoon at 2:30 p. m. so that he will be able to sit in on the meeting and speak to the Council on this year's NFCUS projects.

The Council meeting will be in the Forestry Building. The Presidents of all campus organizations are especially urged to attend and as many other students as possible.

At the Winnipeg Conference during the Christmas holidays UNB was commissioned to conduct an investigation of Student Income and Expenditures in all Canadian Universities. The Dominion Bureau of Statistics has been contacted in this connection and its working in connection with the UNB NFCUS Committee on the project. Some time in March 10 per cent of all Canadian university students will be contacted and asked to fill out a questionnaire on their Income and Expenditures for the 1947-48 year. At UNB these questionnaires will come in the mail. If you should receive one answer it promptly and return to the indicated address. It is absolutely essential that every person receiving a questionnaire answers it and returns it if accurate statistics are to be obtained.

Any person interested in NFCUS and its work please contact the local chairman, Ed. Eastedo, or George Robinson, SRC President.



Dr. A. F. Baird  
Acting President

### CONSTRUCTION ENGINEER

By Roger L. Waring  
Unpack the instrument, the tripod, too.  
Set legs upon a solid footing.

The top on, drop the plumb, level the sight,  
Check with the bench, and read the angle right.  
Now! Over an inch, a quarter, back a hair!

Back just a whisker, half a whisker. There!

Amid unkempt accompaniment of birth,  
Great piles of lumber, mortar, brick, and earth—  
His elevations, accurate, exact.  
His unseen lines, meticulous as fact.  
With rod and transit, suns and signs, this man  
Transmutes confused disorder into plan.

## THE ENGINEER

Who is the man who designs our pumps with judgment, skill and care  
Who is the man that builds 'em and keeps 'em in repair

Who has to shut them down because the seats disappear  
The bearing, wearing, gearing, tearing, mechanical engineers.

Who buys his juice for 1/2¢ and wants to charge a 10¢.

Who when we've signed contract can't deliver 1/2 the time

Who thinks a loss of 20% is nothing queer

The volt inducing load reducing electrical engineers.

Who is it takes traffic out to find a sewer to tap

Who with care extreme locates the junk on the map

Who is it goes to dig it up and finds it nowhere near

The mind scattered thin and tattered civil engineer.

Who thinks without his products we would all be in the lurch

Who has a healthier kid that he designates research

Who tints the creeks, perfumes the air and makes the landscape drear.

The stink-evolving, gas dissolving chemical engineer.

Who is the man who'll draw a plan for anything you desire.

From Trans-Atlantic liners to hair pins made of wire.

With "ifs" and "ands" however and buts

He makes his meaning clear

The work distaining fee retaining consulting Engineer.

Who builds a road for 50 that disappears in 2

Then changes it identically so there's no one left to sue.

Who covers all travelled roads with filthy oily smear

The tramp providing, rough on riding, Highway Engineers

Who takes the pleasure out of life and makes existence hell

Who'll fix a d. good looking one because she cannot spell.

Who substituted a dictaphone for coral tinted sea

The penny sharing, dollar wasting, efficiency engineer.

Who are the boys that shudder when a high brow neaves a sigh

Who are the boys who I am there with fuming main and might

Who are the lads who grease the earth and smooth the course of years.

The sly sticking, art deriding, hard boiled engineer.

## RADIO CLUB

March of 1947 saw five or six radio enthusiasts, members of the Freshman Class, eagerly seeking working space where they could carry on with their hobby—"Radio."

Dean Parr very willingly allotted the required space and thus the nucleus of the UNB Radio Club was formed.

During the summer holidays, these few original members sought ways in which they could enlarge the club's membership and still maintain interest throughout the year for an increased membership.

Several methods of doing so were decided on and have been carried out through the year, and today the club boasts of having one of the largest memberships amongst campus societies up the Hill, besides being one of the most active.

Thanks to the kindness of Dean Parr and Dr. Baird, members have a fully equipped workshop, transmitting room and operating room at their disposal. Dr. Baird has been



GEORGE RUICKBIE

mainly responsible for the loan of valuable test equipment and a receiver to the club, without which it would be impossible to carry on with some of the projects of the club.

Through the combined efforts of the members and SRC grants, club assets amount to over four hundred dollars worth of equipment and considering the SRC grants amounted to two hundred and sixty-nine dollars, the balance is a good indication of the spirit put forth by members of the club itself.

Almost every meeting has enjoyed an average attendance of 25 members, and technical films dealing with radio or electronics, have been shown at every meeting; on one fortunate occasion, Mr. Desautels, one of Marcon's leading engineers, delivered an address on "Frequency Modulation."

Code and Theory classes which will enable members to get their Amateur Operating certificates, have been held twice weekly since

not long after, Mr. F. M. Frederick, then a salesman for the Hughes-Owens Co. of Montreal, and later President of the same firm, suggested that the Engineering Society assume the responsibility for the sale of supplies to their members.

He agreed to advance the supplies on consideration that some member of the Engineering Faculty would use his influence to see that the bills were paid or the goods returned. Fortunately, through the early years, the student Managers were thrift personified, and although the store reported on a shoestring, a backlog of credit was gradually built up.

Plans are under way to form a Dominion-wide network among the Universities; UNB shares with UBC the distinction of being the first two Universities to hold regular schedules for the exchange of news items for campus newspapers. Dallouise has become a recent member of the network. It is not expected to have the network functioning fully until next fall, since many of the Universities.

(Continued on Page Five).

## SOCIETY MEETING



DR. E. O. TURNER

### Historical Sketch Of Engineering Stores

by E. O. Turner, Dean of Engineering.

Next year the Engineering Society store will have a 30th anniversary. During those years the store has given signal service to the students in Applied Science, and I might add, service to the University as well.

Due to the hard work and efficiency of the store Managers, who received little more than the business experience for their efforts, the credit of the store has reached a high level. Recently, for example, when the stock of Whatman's hot-pressed paper ran out, the Hughes-Owens Co., broadcast an appeal all over Canada, finally locating 250 sheets in Vancouver. These were flown East, and arrived in the nick of time. Service like that reflects the regard in which the store is held by the Companies who supply it. Representatives of these concerns have often praised the management, which is perhaps surprising as a new manager takes over each year.

Now that we have the largest registration in Applied Science in the history of the University, it might be well for our present students to know something of the history of the store. Immediately following World War I, prices of all student supplies were as high as the gods would stand. There was no government scrutiny of profits. The result was that the student draughting sets, slide rules, and other necessary student equipment, sold well above the list price of the manufacturer or wholesaler. Because of that, and because it was often necessary for students to lose an afternoon's work on the Hill, through lack of supplies that could be purchased only on Queen Street, steps were taken to provide materials on the Campus. In 1919 this writer approached the University authorities in this connection, but found them quite unwilling to undertake the expense or the risk involved in setting up a store on the Campus. However, not long after, Mr. F. M. Frederick, then a salesman for the Hughes-Owens Co. of Montreal, and later President of the same firm, suggested that the Engineering Society assume the responsibility for the sale of supplies to their members.

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(Continued on Page Five).

### One of the highlights of Engineering Week was the regular meeting of the Engineering Society which was held in the Common Room of Alexander College on Tuesday evening. Advance notices promised an interesting and enjoyable evening and it turned out to be the best attended meeting of the year.

Seven films, on a variety of subjects were shown. Among the most interesting was a coloured film on the Pacific Salmon Run and experimental work carried out by the Washington State University's Hydraulic Division on the problem of tracing the journey of the Pacific salmon on their way to spawn up the turbulent Fraser River. Two very interesting talks were given by Ed Eastedo and George Ruickbie. The concrete aggregate problems were the subject of Eastedo's address which he aptly augmented with slide illustrations. Calling upon his RCAF experiences as a Radar Officer Ruickbie chose Radar for his topic. Using light for a comparison, he explained in layman's terms the intricacies of this war-time invention which served us so well and is continuing to serve in ever increasing importance in peace time aviation.

Following the films and lectures, bridge and dancing were enjoyed, and a delicious lunch was served by the wives and lady friends of the members. All those present agreed that this had been a most interesting and enjoyable evening and are looking forward to similar occasions in the future.

It should be pointed out that during those early years the University authorities warned the firms supplying the store, that the Engineering Society was on its own, and that the University would not assume any responsibility. Perhaps this was a good thing for the Society. It knew that it must stand or fall on its own efforts, and took pains to see that success was assured.

After a few years, credit was established with the large firms in New York supplying technical books, and for the first time books could be obtained on the Campus at the Publisher's intended list price. The Engineering Society turned this business over to the University Book Store when it was established a few years ago.

During these last years of general overcrowding, it is perhaps remarkable that students in Applied Science have been supplied at all, and the fact that work has been done on almost as usual, is in no small measure due to the efficient way in which the store has been managed. Regulations of the Society require that the Manager of the store be a Senior, who himself has been through the mill as a customer. He can therefore advise on the selection of slide rules, draughting sets etc. Not only do the younger students benefit in this way, but the profit margin has been kept at a minimum.



AND NOW, CONSTRUCTION OF THE STORE

# ENGINEERING BRUNSWICKAN

The Yearly Literary Journal of the University of New Brunswick.

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**STAFF PHOTOGRAPHER**

**EDITORIAL**

This year the students and Faculty of the Engineering Department, have combined their efforts to give the University a paper on Engineering Week that will be both interesting and instructive.

We have not tried to make it unusual because we feel that with the few Forsters on the campus, we have oddity enough for one University. When producing this edition we decided that if the paper proved interesting to the people directly connected with THIS UNIVERSITY, and especially the engineers, it would be sufficient reward for our efforts.

The "school spirit" of the student body during recent years has been of a hot and cold nature. But then we don't have to be "roh-rh" boys to get the most from University life. Probably "school interest" is a better expression of our desired objective—interest not only in the "mystery hour" at Physics or the "water works" in the Civil Building, but interest in any or all of the many campus activities.

We feel this interest may best be found in the Senior Engineering Class of our school. We will miss these men when they are gone because they have been the nucleus of all engineering activities. The fellows of the classes '49 and '50 are getting along in years and we cannot expect them to neglect their domestic activities for others.

There is a bright side to the picture however. The salutation of a balanced and happy campus life lies with the Freshmen. We are all watching them with keen interest, and expect them to stabilize a high school interest that has been oscillating along the "Y" axis for the last couple of years.

**"WE DON'T GIVE A DAMN"**

Everyone is familiar with the phraseology of the Engineers' Yell and everyone has his opinion of the same. Some probably think it tame and crude and some might even consider it the classic call for some mythical but gallant crusade. However, the vast majority, including the Engineers themselves, are completely indifferent on the subject. In other words, "We don't give a damn."

In a recent issue of "The Brunswickan" Bill Hine gave us a penetrating analysis of student life at UNB. His essay showed considerable thought, diving into the frustrations, maladjustments, interferences, and other facets of psychological study as applied to this campus. It did, however, seem a little inconsistent that he should consider Freud's theories as not having direct bearing on the situation. The greater part of the essay dealt with the social attitude of unscrupulous campus personalities revolving about a "mighty minority" in which the Co-Eds appeared to supply much of the inspiration and driving force. Yes, it must be admitted that student life at Mount A. and Acadia, which are truly co-educational universities, reaches higher or peaks of organization and enjoyment than it does here under the present circumstances. But there is nothing we can do about the social ratio at the moment, except possibly recommend to the Senate the establishment of a school of household science at the convenience of the good Lord Beaverbrook.

At a social function some time ago, a Freshman Arts student was introduced to a senior Engineer and had no time in proclaiming that he (the Artsman) came to university for an education rather than a mere technical training. Not having conferred with the Muses for some time, the engineer bade his fair escort a hurried "good-night" and dashed home to consult Webster on the meaning of education. Finding no mention of the slide-rule in the definition, he worried lest he were missing some essential feature of college life, until it occurred to him that likewise there was no guarantee of bread and butter attached to education. Reasoning in terms of such basic principles, the engineer represents a far greater cross-section of student ambition in Canadian universities today than does the education-seeking Artsman.

The average veteran student, though not exactly a confirmed cynic, has seen enough of the world and its workings to realize that he can be far happier by simply not thinking too much about it. He is perfectly aware, for instance, that another and more powerful war is as inevitable as the noon-day "soap opera" on CFNB, and he is equally aware of the fact that he, as an individual, can do absolutely nothing to prevent either of these calamities. Neither can he afford to allow his mind to dwell upon his own lot, lest he realize that his only carefree days were spent sipping from a bottle in his cradle, or in later childhood at a Brighton pub. His only solution is to avoid politics, religion, social meetings and newspaper editorials. Philly Gibb weaves his latest novel round the news story of 200,000 deaths in a single bomb blast at Hiroshima; but this startles the UNB campus no more than the British United Press revelation that Princess Elizabeth had bacou and eggs for breakfast after her wedding. Admittedly, some ears did prick up at the mention of D. V. A. training grant increases, which might permit the occasional purchase of a luxury called butter once more. But, all in all, the student today finds any form of thought an extremely unprofitable experience.

In order to shut our minds in merciful oblivion, it behooves us to put the less reluctant portions of our anatomy to extreme exercise. Some of us have our teeth knocked out playing hockey, some get blistered feet on the dance floor, some go down doubled and vulnerable in a haze of smoke and glory, and some wear thin at the elbows, can't find the way home, and are happiest of all. But whatever the diversion, we mustn't think too much lest our "inferiority complex" defect us before it becomes obsolete in the psychology texts. We must carry on undismayed with the eloquent message of our motto at every turn of the road: "We don't give a damn!"

Even though you, dear reader, have been attracted to this article because of the appeal of the title to the sadist in you, no doubt your subconscious mind still demands the happy ending of the fairy-tale. Possessing a latent literary ability which reduces this effort to a virtual shambling, you are cognizant of the fact that in this case we can't possibly live happily ever after without flouting all the rules of theme

## Radio Dispatching For Taxicabs

Condensation from an article published in "Electronics."

Two-way radio between dispatcher and cabs in a taxi fleet furnishes an important new market for communications equipment, affects important economy in fleet operation, and provides better and cheaper service for the riding public.

Many installations are now in operation in the United States and in Canada. One company, reports, since installation of the two-way radio system, takes an average of six per cent more for the same fleet, with the number of completed trips per hour correspondingly increased. On the basis of these figures, it is anticipated, in this case, the whole radio installation will pay for itself in 10 months.

"Over the meter" charges on out-of-town calls are eliminated with the installation of radio dispatching. This means that customers who formerly paid a meter charge from the taxi terminal to his place of call, as well as the required home to destination charge, now pay only for the actual mileage from home to destination.

Radio dispatching eliminates the unproductive return mileage formerly run by the cab on such calls.

**Equipment Installation**

Possibly the required equipment, a dispatcher's office to cover incoming subscribers telephone calls, radio control unit and microphone. The necessary antenna atop a 60-foot mast conveniently located in a compact transmitter-receiver unit entailing no storage problem plus mobile equipment is all that is called for.

**Fixed Stations**

The fixed station equipment is remotely controlled by the dispatcher. A phase shift transmitting system provides a frequency modulated signal with sufficient deviation to allow voice and allow reasonable audio quality.

The receiver is crystal controlled in order to ensure optimum signals from unattended equipment.

**Mobile Stations**

Circuitwise, the mobile equipment is identical with that of that employed in the fixed stations but is differently packaged. A loudspeaker is normally operative in the taxi but the receiver of a telephone hand set can be used for conversations once communication is established. A switch on the handset operates a relay to shift the antenna connection from receiver to transmitter, when the cab operator wishes to talk back. (The mobile trans receiver can be conveniently located in luggage compartment of cab). The antenna itself is a whip mounted through the roof of the cab and works against the metal roof as a ground. Power is taken from the car storage battery.

**EXTRA SERVICE**

Because the majority of users of cabs initiate requests for service from telephones, call box dispatching systems have been in use for many years. These existing telephone systems fall into line with the new radio telephones. Now dispatchers can send the nearest car to the phone last used, and when called upon hang up the forgotten receiver.

## THIRSTY ENGINEERS

The horse and mule live 30 years  
 And nothing know of wine and beers  
 The goat and sheep at 20 die,  
 But never taste of Scotch or Rye.  
 The dog at 20 cabbies in  
 Without the aid of Rum or Gin.  
 The cat in milk and water soaks  
 And then in 12 short years it croaks.

The cow drinks water by the ton  
 And when 18 is almost done,  
 The hog when young is laid to rest  
 And never knows a cocktails zest.  
 The modest, sober, bone dry hen,  
 Lays eggs for nogs and dies at 10.  
 The Lower animals are cursed  
 Because they lack a liquor thirst.

Oh, not for them the lusty song  
 And noisy revel all night long,  
 Oh, not for them the merry quips  
 That freely flow from wine wet lips  
 From birth they play a tragic part  
 A stop before they fairly start.  
 All animals are strictly dry,  
 They sinless live and swiftly die.

But sinful, sinful, run soaked men  
 Survive for 3-score years and 10.  
 The compass and the square they use  
 But wine and beers they most abuse  
 They always reach the very top  
 And pull with main till cork goes pop.

They draft and build and stretch the wire  
 Sing forty beers till they retire.

## LETTERS To the Editor

Tuesday, Feb. 17th, 1948

The Editor,  
 The Brunswickan.

Dear Sir—

In a recent issue of the Brunswickan, Mr. Hay and Mr. Rice stated that the Brunswickan is a Literary Journal and I have yet to find something in their column which is beyond the mentality of a Grade School student. If we wish to have a paper that even compares with that of other universities, the first thing to do (not only in my opinion—but in the opinion of many others), would be to remove the above mentioned column—and if no other material is available—replace it with advertising—which is much more interesting. If Mr. Rice and Mr. Hay wish to express their childish opinions, let them do so in letters to the Editor.

Another point in my "beef" is that as yet I have not seen enough readable material in the two Brunswickans each week which could be put into one GOOD weekly. The reply of the Brunswickan to this, is that enough material is not handed in. However, what has happened to "The Pipe"—by Murchison and McIntyre, "Little Timber" by Fleming, and several sports write-ups which were handed in?—These were either butchered beyond recognition or were rejected entirely, and columns like "Food for Thought" were printed. The result?—The above writers become disgusted with such treatment and discontinued their efforts. So it is not for lack of material that the Brunswickan has slipped. Also, I am quite sure that the majority of students would appreciate one large issue each week much more than the two very small poor issues we are now receiving.

One suggestion for material would be a few write-ups on inter-collegiate sports, which are rarely mentioned.

One more "beef" which I have heard discussed at great length has to do with campus opinions that have been expressed in the Brunswickan. They are taken from a too small percentage of the students to contain an accurate report. When the students disagreed with the ideas of the Brunswickan, the paper suggested that there must be something wrong with them. Possibly the fault is not with the students as much as it is with the Brunswickan? As yet I have to meet ONE person who thinks that the new title-head is an improvement over the old one. Personally, I agree with Dalhousie University.

There has been many suggestions and criticisms in this column, but by the results, very little has been done—(except by the childish replies of Hay and Rice). Please, if we have to suffer, let it not be entitled—"Food for Thought!"

Yours sincerely,  
 KEN FULTON,  
 St. Engineer.

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A. F. BAIRD Acting President

and consistency. That is because you are uncertain whether or not the writer is as personally morbid as his product might suggest. Let us hope at least that none of you could be so naive to reckon that your favorite faculty has been dealt a foul blow by a mere would-be transmittant.

On the contrary, gather what consolation you may from the assurance that he will be the happiest man on the campus if only he has caused you to pause for a moment and THINK. . . . Then if you still don't give a damn, well, he doesn't either!

ANONYMOUS.

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KNOW YOURSELF

by NATHANIEL GUBBINS

from London Daily Express.

Old Moore Cabbins, the world-famous astrologer, has frequently offered his accurate forecasts of future events to the credulous public. This week he will tag along behind more successful astrologers who earn a crust of bread describing your character according to the month of your birth.

Unlike most astrologers, who write mainly to please women, this is written to amuse everybody—men, women, and children.

Dec. 20.....Jan. 20 If you were born in this period you are mean, grasping, cagey, and cunning.

At school you will be hated because you are a natural sneak. You will also cheat at exams, and games because your greedy eye will be fixed on the prize rather than achievement for its own sake.

You will be successful in business, so long as it is dirty business. You would also succeed in politics.

So far, club committees have not studied astrology. When they do they will blackball all people born in January. This will save a lot of resignations by other members, who will find January-born people rude, boorish, vain, and tight-lipped.

If you are a January-born man your wife will hate you. If you are a January-born woman your husband will hate you. If you are both born in January, your children will be devils, born with hooves and tails.

When you were born, the sun was passing through the sign of the Zodiac called Capricorn, the Goat. And you January people have one thing in common with goats. You stink.

Jan. 21.....Feb. 19 February people are nothing but control freaks, always worrying themselves and other people about their health, talking rubbish about things they don't understand, joining societies and yapping about politics and religion without the vaguest knowledge of either.

You can't sell them anything. They know. They think they have advanced ideas and believe themselves to be "modern," whereas they are more conventional than most people and usually have no ideas at all. Indeed, they acquired them from somebody else.

February women, particularly, are obsessed with the idea of being modern, always tittering that they, in her time, was "modern"—more modern and daring than the majority of her descendants.

Although February people believe they will succeed at anything, they usually succeed at nothing, unless somebody kicks them up behind. In fact, this is the best thing to do with them. When you know them better, it will give you a great deal of satisfaction.

Feb. 20.....Mar. 20 What a cocky, domineering lot you are. Like the February people, you know everything, too. And heaven help anybody who upsets your vanity.

You also believe you can do anything better than anybody else. Failure after failure won't make any difference to your self-esteem. You will always think it is somebody else's fault.

Nevertheless, you will succeed, even if it is only by trampling on somebody else. If a man, you would make a good, if unpopular, sergeant-major; if a woman, a good and extremely unpopular matron of a hospital.

Whatever you do you will be unpopular. As you Zodiacal sign, Pisces, is represented by two fishes, which means you are fond of water, why don't you go and drown yourself?

March 21.....April 21 Hitler was born during this period, so most of you can consider yourselves half, or wholly, mad. But yours is not the foolish, irresponsible madness which many young people affect in the hope that somebody will mistake it for genius.

Yours is the madness of the fixed idea, the passion to impose your views on others, the determination to reach your objective at any cost—to other people.

You like freedom for yourself, freedom for the rest. You believe in keeping the lower classes in their proper place. If you happen to belong to this class yourself you will at any time somebody a little lower to oppress.

You were a horrid little boy. You were also a horrid little girl. You kicked little boys who touched your engine. You scratched little girls who nuzzed your doll.

You are even more horrible now you are grown up. The sooner you are certified and safe under lock and key, the better.

April 21.....May 20 Lazy but lucky is the best way to describe May-born people.

The men are usually bar flies. The women are usually sluts. In fact, both sexes would be natural born spivs if they had any brains for buying and selling. As it is, they lounge through life waiting for somebody to look after them.

And as they are born lucky, some hard-working wretch usually does. Venus, you are not necessarily beautiful. In fact, you are inclined to fat and not very funny stories. You would make good barmaid if you were not such good bar flies, good publicity agents if you knew some funnier stories.

You will probably live to a great age, because you don't worry. You have no brains to worry with.

May 21.....June 20 You were born under the sign of Gemini, The Twins, which means you have a dual personality. This is only a polite way of saying you are a double-crosser and a first-class liar.

You are every bit as lazy as the May-born people, but you are not quite so dumb. In fact, your mind is too quick for most people. You have talked them into something before they know where they are, unless you're trying it on somebody of your own type.

I daresay most spivs were born in this period. Superficial knowledge is one of your assets in making friendships. Although you are too indolent to acquire real knowledge, you can talk plausibly about anything under the sun. As a crooked auctioneer you would be a great success.

Women are advised not to marry Geminis. They get bored easily, are not interested in anybody but themselves, are inclined to drink too much, and are hardly ever faithful. Although they have two personalities, they are both unpleasant.

June 21.....July 23 A born sucker, eh? Loyal, decent, family reliable, fond of your family, always imposed upon, honest, truthful—what a mess you are.

What hopes have you of getting on in this world, though you may be O.K. in the rest? In fact, your personality is so dull, can't waste any more space on it except to advise you never to invest your money if you are a man. If a woman, never speak to strangers.

A real astrologer writes of your type: "You will do well in all callings connected with liquids." This does not necessarily mean you would make a first-class admiral. It is more likely to mean you would make a second-rate potman.

July 24.....August 23 So, here comes the great lover, eh? If a woman, a vamp; if a man, one of those people you never invest your money in. Also a bit of a political extremist. A frothing Fascist or a scheming Communist?

I think I can see you. Fond of good living and finey, argumentative, aggressive, selfish and greedy. Keep out of my way will you?

August 24.....Sept. 23 Just a fusspot, aren't you? Fussy and bossy. Tidy and tyrannical. Worrying about your inside and other people's insides. Never really happy unless somebody is ill and you can fuss over them.

From your crowd come the civil servants, the unadventurous respecters of law and order. Nothing much to say about dull, sane people like you except to advise you to stop talking about your operation.

Sept. 24.....Oct. 23 Another dull lot. The women are shy and homely (in both senses of the word), and are given to sitting around clicking knitting needles and asking silly questions.

The men are much the same except that they can't knit. According to this real astrologer I have been reading, some of the greatest people in the world have been born in this period.

But don't let this go to your head. You are cocky enough as it is. Remember that millions born under this sign have never done anything much but poke their noses into other people's business.

That is why you make such good policemen. Hiva flatfoot.

Nov. 23.....Dec. 23 I've been right round the year without finding anybody who doesn't seem to be either a fool or a natural-born basket.

So I'll try to say something nice about you even if it is only to maintain some faith in the human race. Again, according to this real astrologer, you're not a bad sort, anyway.

Like the June-born people, you have a dual personality, the same quick mind, the same easy friendship, maybe the same taste for liquor.

The women are described as bright being, cheerful in adversity; the men as outdoor, sporty types, given to making puns. A pity.

Biographical Notes on F.J. Sanger

Chartered Civil and Mechanical Engineer.

Born in 1905 in Hampshire, England. Educated Government and private secondary schools. 1921 entered Royal Dockyard, Portsmouth as Indentured Shipwright Apprentice; three years on steel construction with working parties, one year in Drawing Office. Four years in Dockyard School studying Naval Architecture and allied subjects. 1925 Won Royal Scholarship in Engineering, Kitchener Memorial Scholarship, Elgar Scholarship in Naval Architecture and went to London University, Imperial College of Science and Technology with the first two scholarships to study Civil Engineering. In vacations worked as Shipwright in Portsmouth Dockyard and Draughtsman with Consulting Civil Engineers. Awarded Associateship of City and Guilds Institute in Civil Engineering, on completion of undergraduate course in 1927. Studied one year postgraduate in the Imperial College, majoring in "Hydro-Electric Engineering" with "Reinforced Concrete Design," "Economic Geology" etc. as minor subjects. Awarded Diploma of the Imperial College in 1928. Also graduated in London University with B.Sc. (Eng.) London degree, with 1st class Honours.

After leaving college in 1928, worked for a year with Messrs. Christian and Nielsen (London office) as Reinforced Concrete Designer and estimator.

In 1929 joined the Royal Air Force as Education Officer, with rank of Flight-Lieutenant, for technical training of aircraftmen. Served five years, mainly with aero-engine fitters, teaching "Drawing," "Internal Combustion Theory," "Mechanics of Flight," etc. 1934 elected Associate Fellow, Royal Aeronautical Society.

In 1934 went to Shanghai, China, as Head of the Department of Engineering and Building in a new Technical College—the Henry Lester Institute of Technical Education. (Post corresponding to Dean of Engineering and Building in Universities). Planned all courses from the beginning. Designed heat engines and hydraulics, electrical power laboratories. Two day-courses of University standing—"Mechanical Engineering" and "Civil Engineering and Building." Sixty Freshmen each year. Evening courses in many technological subjects with augmented local staff. Institute recognized by London University and Matriculated students took the London B.Sc. (Eng.) External examinations conducted in Shanghai by the British Consulate representing the University. Lecturing mainly in "Materials," "Applied Thermodynamics" and "Fluid Mechanics" (all subjects including laboratory classes). Considerable commercial testing of steel, aluminium, concrete and other materials. Consulting work mainly in materials, but also in other local problems. Research in Soil Mechanics and Foundations from 1937 to 1942 (part-time only). Member and Member of Council of the Engineering Society of China and member of several Committees. Hon. Sec. and Treasurer of the Foundations Research Committee of the Society. Member of the Royal Asiatic Society. Lectures and publications in Shanghai—1936 Recent Developments in Internal Combustion Engines (Eng. Soc. China) 1939 Three papers on Soil Mechanics (Eng. Soc. China), 1939 (with collaborator) Models in Engineering, (Eng. Soc. China and Inst. C. E.) 1938. M.Sc. (Eng. Lond., on Foundations Research. 1941 Inst. C. E. paper on the Design of Engineering Laboratories in the Henry Lester Institute. 1946 Special Report on the Field Research on Field Foundations in Shanghai (Private circulation only). 1941 Natural Flight (Royal Asiatic Society). 1941 elected Associate Member of the Institution of Mechanical Engineers and Member of Committee of China Branch of the Institution. Also member of the Federation of British Industries' Apprenticeship Committee, China. In 1937 elected Associate Member of the American Society of Civil Engineers and full Member in 1941. 1941-746 elected Associate Member Institute of Civil Engineers (membership delayed by the War).

On outbreak of war in 1939 volunteered for Government Service but was asked to work in the Institute. Lectured and lectured on the R.A.F. Served in Inventions Committee in Shanghai. Interviewed applicants for commission in Technical Branches of the Service. 1941: Japanese took over the Institute which continued to operate until 1942 when British staff was evicted. Then joined voluntary society, looking after British interests, in the Relief Section, later as Organizer and Director of the Civil Assembly Office formed to assist British Nationals ordered to internment camps by the Japanese. Interned at Lungkuang in 1943. Labour officer in camp of 1,800 persons, men, women and children. Councillor and Executive. Lecturer and school teacher. External examiner etc. Chairman of Technical Committee. Organizer of Rebuilding and of Air Raid Precautions. Gave 12 public lectures and organized others. Reappointed 1945.

In England in 1943, prepared the final report on the research work of the Foundations Research Committee and represented on inter-ment. In October appointed Professor and Head of the newly-created Drawing Department of University of New Brunswick and arrived in Canada in January, 1947.

In the spring of 1947 became Member of the American Society for Engineering Education and Member of the Canadian Institute of International Affairs.

Married in 1928 and has three children, a daughter studying in the University and a younger son and daughter. (Family in New Zealand (living war)).

Has travelled in China from Hong Kong to Dairen and in Japan, and resided in Shanghai for 11 years. Shanghai Golf Club, Shanghai Cricket Club (Club scores) the Columbia Country Club, and the Public Health Club of Shanghai.

F. J. SANGER, Professor.

RADAR

by Prof. J.O. Dineen

Radar is a term coined from the descriptive phrase "radio detection and ranging." It is an addition to man's sensory equipment which affords genuinely new facilities. It enables a certain class of objects to be "seen," that is, detected and located—at distances far beyond those at which they could be distinguished by the unaided eye. This "seeing" is unimpeded by darkness, fog, cloud, smoke, and most of the other obstacles to ordinary vision. Radar also permits the measurement of the range of the object it "sees" with a convenience and precision entirely unknown in the past. It can also measure the speed of an object moving relative to the observing station.

In some respects radar is inferior to the eye. It is poor on detail and shows only the gross outline of an object. Radar is at its best in dealing with isolated targets in a relatively featureless background, such as aircraft in the air or ships on the sea. Though modern high-definition radar does afford a fairly detailed presentation of such a complex target as a city, viewed from the air, the radar picture of such a target is incomparably poorer in detail than a vertical photograph taken under favorable conditions.

Radar works by sending out radio waves from a transmitter of sufficient power that measurable amounts of radio energy will be reflected from the objects to be seen by the radar, to a radio receiver which is usually located at the same site as the transmitter. The properties of the reflected echoes are used to form a picture or to determine certain properties of the objects that cause the echoes. The transmitter may send out CW signals, or signals modulated in a number of different ways. Of all the types, that which is most highly developed is pulse radar. This rapid growth came about because of the military necessity of World War II.

In pulse radar, the transmitter is modulated in such a way that it sends out very intense, very brief pulses of radio energy, at intervals that are of the duration of a pulse. During the waiting time of the transmitter between the pulses, the receiver is active. Echoes are received from the nearest objects soon after the transmission of the pulse from objects further away at a slightly later time, and so on. When sufficient time has elapsed for the reception of echoes from the most distant objects of interest, the transmitter is keyed again to send another very short pulse, and the cycle repeats. Since the radio waves used are propagated with the speed of light, C, the time delay, T, between the transmission of a pulse and the reception of the echo from an object at range B will be T=2B/C seconds. Hence, a range measurement is reduced to the measurement of time. Modern electronic timing and display techniques have been developed to such a point that a time interval of one-thirtieth or a microsecond, which corresponds to a range precision of 5 yards, can be readily measured.

In addition to range, it is desirable to know the direction from which an echo is coming. This has been made possible by the development of radio techniques on wavelengths short enough to permit the use of highly directional antennas, so that a more or less sharp beam of radiation could be produced by an antenna of reasonable physical size. When the pulses are sent in such a beam, echoes will be received only from targets that lie in the direction the beam is pointing. Hence the antenna, and hence the beam, is swept or scanned around the horizon, the strongest echo will be received from each target when the beam is pointing directly toward the target. Thus, the bearing of a target will be given when the strongest echo signal is received from it.

The Plan-position-indicator or PPI is a cathode-ray type receiver which displays simultaneously range and azimuth data in such a way that the screen looks like a map with the observing station at its centre. The development of radar has led to the use of ever higher frequencies and shorter wavelengths. In the range shorter than 30 cm. wavelength, we have what is called microwave radar. The superiority of microwave radar arises largely because of the desirability of focusing radar energy into sharp beams, so that the direction as well as the range of targets can be determined. In accordance with physical laws, for an antenna of a given size, the



Prof. J. O. DINEEN

NEW ENGINEERING PROFESSORS



ALBERT STEVENS.

Albert Stevens is well known on the campus, having graduated in Civil last year. This year as assistant prof. he is in charge of testing materials and was a prominent member of the Engineering Society, one of his successful undertakings being Stores Manager. We know he will continue to be a strong supporter of our society.



LOYD HARGROVE

Lloyd has come to the faculty after a year with CPBC in Saint John. He is a UNB'er of the '46 class when he made a showing in Electrical. The University Radio Club is fortunate to have him as a member, his keenness is further pronounced by the fact that he has his own Amateur Station, known on the air as VE1PO.

ELLIS CUNNINGHAM

We are pleased to have Ellis Cunningham with us and is doing a swell job in the new machine design shop lab. Before coming to UNB he was with the Department of Education in the Wartime Training Division. He is well known and popular in the engineering building and some know him from his college days at UNB in '31. Ellis is living on the Woodstock Road in his recently completed home.

The principle of pulse ranging which characterizes modern radar was first used in America in 1925 for measuring the height of the ionosphere. Following this, pulse radar systems were developed by most of the European countries, including England and Germany during the 1930's. By 1938 a chain of radar stations was in operation in southern England. The greatest impetus to the development of modern radar was given by the development in England of a powerful generator of microwave energy, known as the multi-vacuum magnetron. This was placed in the hands of American industry and phenomenal development followed. In time and money spent, radar came second in importance to the Atomic bomb during the recent war. Already it is serving many useful purposes in its peacetime role. It is the basis of Ground-Controlled approach, a highly accurate method of blind-landing for aircraft now in use at all the major airports. It is also providing much valuable information to the meteorologists in the detection and observation of approaching storms. It is found on all airlines as an aid to navigation and is finding similar use on steamships. Only the future and the inexhaustible ingenuity of the mind of man will determine its development.

MONORAILS

by JOHN BUSBY

An Old Transportation System Offers a New Challenge to Free Enterprises—

Engineers who lament having missed the dramatic days of railroad construction may discover that they are in time to see an exciting new chapter added to the story of rail transportation.

You may ask—"What is this idea and how will it speed up rail service?" The answer is MONORAIL. One rail instead of the conventional two. Once constructed this system can combine the speed of the airliner with the safety, comfort and economy. In case this appears too visionary we'd like to point out that Europe has been using railroads of this type for a good many years.

The Germans built a high speed line 45 years ago. When figures were last available, they showed it had carried half a million at speeds in excess of 125 MPH. If this doesn't impress you, then the safety record will. The system at that time had not had one fatal accident involving either passenger or employee in all the years of its existence.

The proponents of Monorail, who include some of the leading engineers and transportation authorities in the country, agree that it has many advantages not offered by other forms of transportation. Two outstanding points in favor of this system are the high speeds obtainable and the generation of grade which keeps these speeds constant and safe regardless of the condition of surface traffic.

In other words, the Monorail would be supported on standards that would provide sufficient elevation to keep the streamlined cars safely above the tops of steel vehicles.

Comparison to the old and huge steel-shedding structures which were so characteristic of the old elevators, will stop immediately when we realize that Monorail operation is neat and noiseless.

In the U. S. A. one of the first Monorails to be built was constructed for the transportation of heavy oil-drilling equipment over six miles of heavy mud. The only roadbed necessary was an A-shaped frame resembling a fence, 10 feet high.

Connecting these frames was a stringer which, in turn, supported the single rail.

A few years after the first monorail effort, a new line sprang up, running in the section of land now called Brooklyn where a Mr. Boynton succeeded in running a locomotive on a single rail. The locomotive was, perhaps, the strangest part of this early monorail. It consisted of a single driving wheel, eight feet in diameter and a two-story cab which housed the engineer on the top deck with the fireman shovelled coal downstairs.

In 1900, Brennan, an Irishman laid a single rail on the ground using the conventional rail and cross-tie type of structure. He kept his 40-foot cars on an even keel, attaining speeds up to 125 MPH. There was only one difficulty—the whining gyroscopes were too persistent in keeping the cars in a vertical position and when the track curved, the train didn't.

In 1901 the Germans successfully operated the Elberfeld line—the first which proved the advantages of monorail to the engineering world.

To get into more technical language—As the amount of banking is automatically controlled by centrifugal force, curves can be negotiated at eighty or ninety MPH. The correct amount of lean is present, so regardless of speed, a glass of water filled to the brim will undergo the wildest ride without spilling.

An industrial-type train operated for six weeks with a rock balanced on a cross-piece. This, remarkably smooth ride, even for a monorail freight train, is due to the absence of side-sway; the vibration caused by flounce-grip is also non-existent. The resultant decrease in friction means a 70% reduction in operating costs.

Monorail is highly practical and soundly engineered.

Improvements of public transportation have not been one of the major advancements of our age. In fact we have slipped backwards. The popular interurban electric which provided swift and pleasant travel have virtually disappeared from among the ranks of our transports. Busses have been substituted. The overloading of surface transportation has slowed down commuted traffic and has increased accident votes.

Demands for better and speedier transport had been answered in part by the interurban railway but it had its disadvantages. Elevated and underground railways have alleviated the situation also but their cost is a great disadvantage. Such grade separations do provide fast train service with freedom of right-of-way BUT—it costs from \$800,000 to \$1,118,000 for a single-track mile of elevated, \$3,000,000 to \$11,000,000 for a single-bore mile of subway. And this does not include equipment.

What about the suspended monorail? The bill for this system is estimated at \$300,000 per double track mile, including stations and rolling stock.

The industrial applications of the monorail are manifold. As an example, a California Salt Company's monorail system operates small trains each carrying 6,000 lbs. of salt over a 10% grade at 20 MPH, with only 2 1/2 HP driving power.

Monorail would mean the elimination of bridges and a much higher gradient would be of needs used. It could make long strides over hills and canyons. Reduced to its simplest form, the industrial line would still have the same speed, safety and efficiency offered by its city cousin.

This monorail is undoubtedly one of the most exciting challenges to free enterprise in our years. RAILROAD MAGAZINE of September, 1947.

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**RED 'N BLACK REVUE CHORUS LINE**



Here are some of the girls in the chorus line of the Red 'n Black Revue. The line is so good that our photographer snapped four pictures before he remembered to turn the film. It's a good thing they weren't wearing their harem costumes. He might never have made it out of the Ladies Reading Room.

**PARLEZ-VOUS**

Levels, transits, tapes and chains—Eng.  
Dynamos, bridges, turbines, cranes—Eng.  
Who says it that drained the flood, And dammed the Nile to save the mud? Eng. of S. P. S.  
Who built the walls that balked the sea?—Eng.  
Who drink their fill of TNT?—Eng.  
Who pulled Jonah out of the whale, And built the Ark for Noah to sail?

Who really love the girls the most—Men who do and never boast—Who was it put the heat in hell and slammed the door and rang the bell?  
Who always make the most of life, Who are always ready for the strife, Who won the war against the Hun, And put the D-olls on the run.  
Who take the bumps of life with calm, Who do not curse but sing a Psalm, Who trudge along in slush and dirt And work till they can wring their shirt.

Who'll get to Heaven when they die, Grow little wings and learn to fly, And who will guard the golden gate And swear at those who come in late.

**CHORUS**

Eng. Eng. men of S. P. S.  
In that fanning brine we soak and hold it with the best.  
Gin and Rye with lots of beers will make us ever Engineers.  
Then all the way we'll have to pray God help us with our beers today.

**RADIO CLUB**

(Continued from page one)  
ities will require more time to get clubs formed and equipment gathered together. However, the beginning of the project speaks well for future development and next fall should see things really "bubbling" in the University Amateur Radio field.

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**Egbert says**  
"I can't understand how some people manage to study in the library."  
Maybe studying in the library is an art in itself . . . it's a little difficult to acquire. But here's one art easy to acquire and fun to practice, the knack of having the money to buy the things you want—when you want them.

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Try it . . . you'll like that feeling of "I can buy it".

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**WHAT IS A "THRIFTY"?**  
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2. Quality—fine fabrics, fine workmanship.  
3. Value—your money's worth and more.  
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# PUCKSTERS TAKE N. B. TITLE, WIN THREE LOCAL GAMES

## Shutout Mt. A

Turning a last minute threat to the title aside Saturday night, the UNB Varsity Hockey team shut out the determined Mount Allison sextet 2-0 in their last game of the N. B. section.

Earning the right to meet St. Dunstan's University of Charlottetown for the N. B. P. E. I. title, Pete Kelly's impressive squad had to work hard to get the victory they did as the Mount Allison defense and goalie repulsed them again and again.

The Hicks, Bedard, Ryan line made many rushes on goal and succeeded when Ryan scored well on in the first period. Early in the second, Bedard made the only other goal of the game. Many times both sides had chances in the open against the goalie, but failed each time to get past him. Sansom harried the losers around their own net with great perseverance. Mount A. had four penalties called and UNB two.

This win gives UNB three victories out of four games in the league. Mount Allison and St. Thomas have another game scheduled but the outcome will not affect the UNB title. The series with St. Dunstan's will be total goals in a home and home series.

## Win First Of Local Series

The Hicks, Ryan, Bedard line of UNB's hockey squad piled up another margin of victory for the red and blacks as the first York playoff game went to Hillmen Tuesday night.

Just playing even in the first period as seems to be their habit, the Varsity sextet were held 2-2. The second period saw them build up a three goal margin without a score by Irvine's team. In the third, Dairy Kings rallied with two goals to UNB's one, leaving the final at 4-4.

Hicks got two goals and two assists. Ryan had two goals, Bedard four assists. Kelly and Kellie each scored one. Ballantyne, Caudet, Spear and Sewell came in for assists.

## Marysville

With its usual slow-starting scoring power, the UNB hockey team beat Marysville Royals 11-4, to tie with Dairy Kings in the York League.

Ted Bedard was high point man with three goals and three assists. The other members of the first line, Don Hicks and Captain Ryan got three and two and one and two. A feature of the game was the appearance of coach Pete Kelly on the ice in a defence position. Other UNB scorers were Kellie, who made two, Sears with one goal and an assist, while Sewell made two assists from defence.

## Capitals

UNB's hockey squad came a step closer to the top place Dairy Kings Thursday when they trounced Capitals in a third period offensive which put them ahead, 9-4, at York Arena in a regular game of the York Intermediate League.

Don Hicks again led the victors with three goals and two assists. Ted Bedard scored two, with one assist. Mezzies got two for Caps.

UNB took the lead with two goals but were quickly tied up. Before the end of the period they were two in front again at 4-2. The second period added one goal to each side and the final session saw the college men go ahead to outscore their opponents four to one.



Don Baird SPORTS EDITOR



Almost buried in defending players, skyscraper George Garner (33), makes another of his successful field goals in the above picture taken at Saturday's game with Mount Allison. Attempting to stop his shot are Ed. Cameron and Gordie Eastman.

## Intramural

In a table-tennis tournament Monday, Doug Rouse defeated A. L. Kelland in the final after the two had eliminated a field of 24.

Ceologists defeated a short-handed Faculty bowling team in the playoff for the fall league, Monday, 4-0.



Shown above is Ted Bedard, of UNB's Hockey punch-line. Second high scorer in York League, Ted has made 12 goals and 13 assists in League and Intercollegiate games.

The table below is a record of UNB Varsity hockey players' scores in Intercollegiate and York League games, not including exhibitions and play-offs:

	Goals	Assts.	Pts.
Hicks	22	13	35
Bedard	12	13	25
Ryan	6	14	20
Sansom	4	9	13
Spear	5	6	11
Kellie	5	4	9
Caudet	2	6	8
Phummer	3	5	8
Sewell	3	3	6
Dickson	3	2	5
Steele	2	3	5
Sears	2	2	4
Ballantyne	1	1	2

## Foresters and Pops Fight to a Tie

In the first game of their championship series, Junior Foresters and Apartment Vets. fought to a two-all tie Sunday.

After an overtime period of 15 minutes this game, which was the first of a best in three series was declared a draw, and two or three more games will be held. The next is tonight at Alexander.

Junior Foresters, champs of the American League, opened with goals by Pete Sewell and W. Kelly (assist Baxter) in the first period. Bob Mackie made it 2-1 at the end of the period. Day (assist by Charlton) evened the score after seven minutes in the third.

## Sportscribes Scribbles . . .

-By The Chief

Ted Owens' outfit had Mount Allison razzle-dazzled in the first half Saturday, but the visitors recovered enough to take the edge in the second. It will be a tough battle on the Mount Allison floor, where away from home disadvantages will more than overcome the slim margin our team has in the total point series.

The first game got away from the referees at times and they missed quite a few minor infractions.

Worthy of extra praise for their work for the home team were George Garner, the new centre man, who played an all-out game while retaining his sense of humor, and 'Moe' Atkinson, who, after sitting on the bench most of the year, played an excellent game for the full 40 minutes.

The climax of the big sports day Saturday was a fitting thriller in the final of the N. B. Intercollegiate Hockey Section. Sammy Sansom doesn't pack much weight but certainly has the scrappiness that will bother the opposition no end.

## Beat Mt. A. In First Game Of Basketball Series

### Co-eds Win Game Lose Series

In the preliminary game on Saturday afternoon the UNB ladies basketball team defeated the Mt. A. girls 14-9, but lost the home-and-home series.

It was another close-checking, hard fought game with the local girls leading 6-5 at half time. In the second half the 'Hill-girls' fought hard to overcome the big lead built up by Mt. A. at Sackville but to no avail.

Wylie and Bearisto did all the scoring for UNB with 10 and four points respectively.

The line-up for UNB—Baxter, 4, Wylie 10, Quinn, Graham, Robinson, Vail, Mooers, Monteith, Spicer.

### JAYVEES LOSE

In the first of a home-and-home total point series for the N. B. Junior Intercollegiate crown played at the Lady Beaverbrook Gymnasium Saturday last, the UNB Jayvees bowed to a fighting Mount Allison Junior Varsity five by a score of 31-26.

The home team must now overcome a five point deficit when they travel to Sackville this week-end for the return match.

UNB line-up: Davidson 6, Donald 6, Gibson 4, Miller 3, MacDowall 3, Class 2, J. King 2.

### Army Wins Again

A fast drive by Canavan and Smith, and poor shooting by UNB Varsity gave Fredericton Army a 41-36 win over the Hillmen Tuesday night at the armouries.

Murphy, a new guard for UNB, starred as high point man of the game with 14 points. Jardine got 8, Russell, Anderson, McCoy 7, Loun-Campbell 6, Smith 3 and Gagnon 2.

### Take Four Point Lead

Senior Varsity took the lead over Mt. A. at the Beaverbrook Gym 29-25 in the first game of the home-and-home series or the N. B. Intercollegiate Basketball crown.

Ted's men will travel to Sackville this week-end to fight the other half of their contest with the Garnet and Gold, carrying only a small margin for the total point series. Jayvees will go with them.

The game was the roughest of the year, following the pattern of competition with Mt. A. There were 24 personals called, Mt. A. committing 15 of them, with the Hillmen making good on 11.

There was no sign in the first half of the highly touted play of the Mt. A. team. With Garner, Campbell and Smith leading the way, UNB took command from the start and by half time the locals were leading 20-8.

The last half resembled basketball only at times, and the type of play suited the Mt. A. attack as they outscored Owen's crew 17-9. Referees Johnny Vey and Jerry Lockhart were kept busy calling fouls, and UNB garnered 7 of their 9 points on free shots. Tony Robinson, Mt. A.'s hard-working guard left the game on his quota of personals, with three minutes to go.

UNB missed the scrappy playing of Roberts, who was ineligible, but 'Moe' Atkinson substituting for him, played an outstanding game for the full game time.

Line-ups: UNB—Moore 2, Garner 7, Campbell 8, Smith 7, Jardine 3, Atkinson 2, Caynor, Buchan.

Mt. A.—Ketchum 4, Cameron 7, Robinson 1, Eastman 5, Tucker 1, Russell, Anderson, McCoy 7, Loun-Campbell 6, Smith 3 and Gagnon 2.

## Sport Highlights

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VOL. 67 No. 22

## ALUMNI WAR

### \$12,235 Raised Dr. Petrie Organizes

The Associated Alumni campaign for the UNB War Memorial Fund to Hall into a student centre opened under the chairmanship of Dr. A. J. VanWart.

It was reported that \$12,235 the end of the first day of the campaign. The Boxing Meet and the Bates held recently at UNB were donated to the Society, the U-Y Club and the Y Club and donations of making donations or students for the memorial.

Many Alumni groups in both Canada and the United States have organized committees to carry on canvassing of Alumni and organizations that feel inclined to donate to the War Memorial. Dr. J. K. Petrie, President of the UNB Associated Alumni has just returned from an organizing trip to Ontario and Quebec where he helped form committees and where he attended the campaign drive banquet in Montreal also attended by S. F. Noble, General Manager of the Industrial Development Bank and honorary treasurer of the War Memorial fund, and by the Hon. M. F. Gregg, honorary chairman of the fund drive.

On Wednesday night Dr. Petrie spoke to the newly formed UNB Club at Moncton concerning the campaign program for funds. At the meeting 61 UNB graduates elected A. Douglas Foster of Moncton as President of the new club.

Dr. A. F. VanWart, chairman of the drive, who graduated from UNB with his B.A. in 1917 and his M.A. in 1920, is a past president of the Associated Alumni. Dr. VanWart, a well-known physician, is at present New Brunswick's representative in the Canadian Medical Association.

## News In Brief

**Freshmen Make Recommendations.**  
The Freshmen at a lively meeting Tuesday night decided to make certain recommendations to the SRC which include: (1) a quorum for SRC meetings of 50% of the SRC reps, (2) elections of Freshmen representatives to be held during the first three weeks of October instead of after Christmas. Among the beefs presented at the meeting was that of Walter Fleet's that Chemistry lectures of the Freshmen class are not suitable to members of the class and that slides should be abandoned and smaller classes with text books would be appreciated by the students. A "hot" discussion concerning initiation was tabled until the next meeting this coming Monday night.  
MacKenzie Chapter Votes \$25  
The MacKenzie Chapter of the U-Y Club has voted \$25 for the Student Centre.  
(Continued on page seven)