

Engineering Week-the week die congratulate this 28th day of Sep- regular weekly SRC meeting has Engineers come into their rightful tember 1948 (6.30 P. M.) at the I. O. been postponed until Sunday afterown on the Campus. Credit for O. F. Hall to pay due reverence to noon at 2.30 p. m. so that he will this year's fine effort goes to Edi- his Ecclesiastical Highness, Stick be able to sit in on the meeting and tor-in-Chief A. McIntyre and his (better known as, "Slip"). speak to the Council on this year's Jehnny Holmes, the fast talking NFCUS projects. capable staff.

Tuesday night brings forth the big disc jockey of the Physics (ugh) lab, The Council meeting will be in Engineer's party being held this will lead us to our very maxima and the Forestry Building. The Presidents year at Alexander featuring films. minima (not to mention our integral) of all campus organizations are esin literally dozens of dirty little dit- pecially urged to attend, and and frolic, and food. Climaxing the week in true Engi- ters culled from the oily depths of many other students as possible.

lables were supplied gratu-

tiously by the Arts depart-

DEVIJE

Dept. natch!).

BLACK

dian Universities. It took George

a Senior Class meeting and the

lass of '43 pledged themselves to a

supreme effort to produce a show so

uccessful 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 work-

ing on it, many of whom began in

early January, are sure that it is.

aster of ceremonies.

Robinson to start the ball rolling at

neering tradition comes the Wassail, the Engineering Building, -Odd Fellows Hall-6.30. Want to Needless to say, there will be a ing the Christmas holidays UNB was nee everyone there, Boys.

enrolment with plenty of enthusiasm | freshments) and after dinner speak- penditures in all Canadian Universibeing shown at the regular meetings ers (brown crisp speakers). And ties. The Dominion Bureau of Stawhich featured technical films and there will be duckles of devilish tistics has been contacted in this check with the bench, and read addresses by graduate engineers. mirth and much clutching of glasses connection and is working in co-the angle right. This fall we had the pleasure of (brown crisp glasses) in grubby little operation with the UNB NFCUS the angle right. Now! Over an inch, a quarter, having as our guests Col. L. F. paws. Grant, President of the E. I. C. and In conclusion my children, may I

his party, who were entertained by plead, "Let us not hear the tinkle of Canadian university students will be bills." (brown crisp dollar bills, that is) the Engineering faculty at a luncheon held at D-Coy Inn following which Coi. Grant addressed the stu-Thanks goes to Marshall Howard P. S.-All words of over four syl- At UNB these questionnaires will dent engineers at Memorial Hall.

and committee for the very enjoyable fall party which highlighted last terms' activities.

The Engineering Store has had a very successful year under our com-RED'N petent manager, Johnny Busby. This year for the third time our society will be represented at the annual E. I. C. conference being held in Banif. These meetings have been very successful in establishing closer contact between the students

Next Thursday is opening night! 1 and graduate engineers thus enabling the students to know the practical Yes, next Thursday at Teachers' Colwork graduate engineers are doing. lege a rousing and original overture by Herby and his Bowery Boys will In closing 1 want to say a sincere

thank you to my executive L. Mof- herald the opening curtain on the fard, A. McIntyre and J. Busby for "Red 'n Black Revue," the biggest the very fine work they have done and most unusual stage show ever this year, and to all the boys for produced in these parts.

their enthusiastic support and in- In the past many students with terest in the society and its activities. | showman's blood in their veins have It has been a privilege to be your dreamed of a big extravagant stage show for UNB, similar to very sucpresident. cessful productions by other Cana-

#### OH DON. A CHESTNUT

I hope that I shall never be A Chestnut stripped at U.N.B. A lonely tree who upright stood Among its cousins of softer wood A Chestnut bereft of one fine digit Torn and scarred by a plaid-jacket midget Sewn in folders for all to see Subjected to ravages of Forestry!

J.S.B.-C.E.-'48.

Any similarity between above verse and any Campus fracas, is entirely and script compilation are George Advisory Service Council. N. E. intentional.

VETERANS' BALL

Hard working committees for di- matrimonial difficulties etc. con-To all those who have been lookrection, costumes, make-up, muste fronting students. ing forward to the Vets Club Annual props, tickets, publicity, etc., have EDITOR'S NOTE: It is hoped that Ball, we are indeed sorry to have to submitted budgets totaling over \$600 announce that this popular social of which \$200 is for costumes. (Wait event will not come off this spring. till you see those harem-girl cos-

Plans were completed to hold this tumes:!!). years' Ball on March 19th in the You all remember "Bar 48" which Fredericton Armouries. The pro- was acclaimed a tremendous success. ceeds were to be given to charity It was a mere preview compared to

Here is an important notice: You (i.e. Canadian Appeal for Children). the show that opens next week. can still get tickets for the "Bed 'n However with the sudden reversal Incidentally, if plans go well, Black Revue." They will go on sale of policy by the Senate, fe Gvm, there should be a very interesting again Up the Hill and at Alexander nssium, and announced date of display in a certain store window starting Monday, March 1st. If you Formal Con Ball one week ahead of downtown next week that is guar- want to be positive of your seats, the Vets Charity Ball, we deem if anteed to stop traffic. contact any Senior in the meantime. advisable to cancel the latter. If he hasn't any he'll get them for KEN RIDEOUT. Social Committee. See you at the show! I. CLARK, President. Chairman of the

### Dr. A. F. Baird **Acting President**

CONSTRUCTION ENGINEER

by Roger L. Waring At the Winnipeg Conference dur- Unpack the instrument, the tripod, too. This year the society has a record dinner, (a brown crisp dinner). Also commissioned to conduct on investi-liquid refreshments (brown crisp re-gation of Student Income and Ex-Set legs upon a solid coting, screw

> the angle right. back a hair; time in March 10 per cent of all

come in the mail. If you should re-

ceive one answer it promptly and

return to the indicated address. It is

receiving a questionnaire answers it

and returns it if accurate statistics

Any person interested in NFCUS

and its work please contact the local

chairman, Ed. Eastedo, or George

YA GUDDA GET

TA WORK

- IF YA WANNA / /

FLASH

be available for advice on domestic,

the Legion.

in the near future Mr. Mac-

Lean will find time to con-

tribute his long awaited col-

umn and reopen his office in [

GET RESULTS.

Boss of the big show is John FLASH:--E. L. O. P. News, Feb. 26.

Gandy, the Seniors' president, while 1948.-Engineers will soon have a

sharing the big job of stage-direction representative of their own on the

Robinson and Cam MacMillan. MacLean. Sophomore Civil student

Amiable Ed" McGinley will be our and also a widely known critic will

are to be obtained.

Robinson, SRC President.

ment. (The brown arisp Arts absolutely essential that every person

His elevations, accurate, exact. The top on, drop the plumb, level His unseen lines, meticulous as fact. With rod and transit, sums and signs, this man Transmutes confused disorder into plan.

Back just a whisker, half a

Amid unkempt accompaniment

Creat piles of lumber, mortar,

whisker. There!

brick, and earth-

of birth.



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

Who has to shut them down because the seats disappear

The bearing, waring, gearing, tearing, mechanical angineers. Who buys his juice for 1/2¢ and wants

in repair

to charge a 10¢. Who when we've signed contract can't deliver 1/2 the time

Who thinks a less of 26% is nothing queer The volt inducing load reducing electrical engineers.

Who is it takes transit, 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 mud scattered torn and tattered civil engineer.

Who thinks without his products we would all be in the lurch Who has a healthier idol 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-Atiantic liners to hair pins made of wire. With "ifs" and "ands" howe'ers 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 hs identily so there's no One left to sue. Who covers all travelled roads with filthy oily smear The trump providing, rough on riding,

Highway Engineers

Who takes the pleasure out of life and makes existence hell Who'll fire a d. good looking one because

she cannot spell. Who substituted a dictaphone for coral

tinted ear

The penny sharing dollar wasting, efficiency engineer.

Who are the boys that shudder

in which they could enlarge the **Of Engeneering** club's membership and still maintain interest throughout the year for an increased membership. Several methods of doing so were decided Stores on and have been carried out

through the year, and today the by E. O. Turner, club boasts of havng one of the Dean of Engineering.

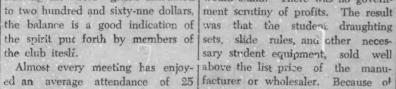
largest memberships amongst cam-pus socicties up the Hill, besides be-ciety store will have a 30th anni-the subject of Bastedo's address versary. During those years the which he aptly augmented with Thanks to the kindness of Dean store has given signal service to the slide illustrations. Calling upon his Parr and Dr. Baird, members have students in Applied Science, and, RCAF experiences as a Radar Offia fully equipped workshop, trans- I might add, service to the Univer- cer Ruickbie chose Radar for his mitting room and operating room sity as well. Due to the hard work topic. Using light for a comparison, at their disposal. Dr. Baird has been and efficiency of the store Man- he expained in laymans terms the

agers, w ho received little more than intracacies of this war-time inventhe business experience for their tion which served us so well and is efforts, the credit of the store has reached a high level. Recently, for ing importance in peace time aviacontinuing to serve in ever increasexample, when the stock of What- tion

man's hot-pressed paper ran out, the Following the films and lectures, Hughes-Owens Co., broadcast an ap bridge and dancing were enjoyed peal all over Canada, finally locat- and a delicious lunch was served by ing 250 sheets in Vancouver. These the wives and lady friends of the were flown East, and arrived in the members. All those present agreed nick of time. Service like that re- that this had been a most interesting flects the regard in which the store and enjoyable evening and are lookis held by the Companies who sup- ing forward to similar occasions in ply it. Representatives of these con- the future.

cerns have often praised the management, which is perhaps surprising as a new manager takes over each

mainly responsible for the loan of year. valuable test equipment and a re- Now that we have the largest ceiver to the club, without which it registration in Applied Science in the would be impossible to carry on with history of the University, it might some of the projects of the club. be well for our present students to Through the combined efforts of know something of the history of the members and SRC grants, club the store. Immediately following assets amount to over four hundred World War I., prices of all student dollars worth of equipment and con- supplies went as high as the crade sidering the SRC grants amounted would stand. There was no govern-



members, and technical films deal- that, and because it was often necesing with radio or electronics, have sary for students to lose an afterbeen shown at every meeting; on noon's work on the Hill, through one fortunate occasion, Mr. Desaul- lack of supplies that could be purniers, one of Marconi's leading engi. chased only on Queen Street, steps It should be pointed out that durneers, delvered an address on, "Fre- were taken to provide materials on ing those early years the University quenciy Modulation."



GEORGE RUICKBIE

THE BOYS

October, and although they have not of credit was gradually built up. been as well attended in recent

fact that work has been gone on alweeks, it is hoped the \* old interest Plans are under way to form a



Washington State University's Hy-

draulic Division on the problem of

easing the journey of the Pacific sal-

mon on their way to spawn up the

turbulent Fraser River Two very

interesting talks were given by Ed

Bustedo and George Ruickbie. The

the Campus. In 1919 the writer ap- authorities warned the firms supply-Code and Theory classes, which proached the University authorities ing the store, that the Engineering will enable members to get their in this connection, but found them Society was on its own, and that the Amateur Operating certificates, have quite unwilling to undertake the ex- University would not assume any rebeen held twice weekly since pense or the risk involved in seiting sponsibility. Perhaps this was a

up a store on the Campus. Howeevi, good thing for the Society. It knew not long after, Mr. F. M. Frederick, that it must stand or fali on its own then a salesman for the Hughes- efforts, and took pains to see that Owens Co. of Montreal, and later success was assured. President of the same firm, suggest-

ed that the Engineering Society ablished with the large firms in assume the responsibility for the sale of supplies to their members. and for the first time bocks could be He agreed to advance the supplies, obtained on the Campus at the Pobon consideration that some member lisher's intended list price. The of the Engineering Faculty, would hister's intended us price. The Engineering Society turned this business over to the University Book business over to the University Book were paid or the goods returned. Store when it was established a few Fortunately, through the early years, he student Managers were thrift years ago.

personified, and although the store During these last years of general cperated on a shoestring, a backlog overcrowding, it is perhaps remarkable that students in Applied Science have been supplied at all, and the

weeks, it is noped the old interest will be revived very soon. A recent project of the club en-tails a survey of various radio and electronic firms with a view to obtaining summer employment for its ules for the exchange of news items who himself has been through the members; to date, 35 out of a pos-sible 52 firms have been written to, sible 52 firms have been written to, and although it is a bit early to pre-dict anything, a very optimistic view the network. It is not expected to have the network functioning fully until do the younger students benefit in is held by the Employment Commit- next fall, since many of the Univer- this way, but the profit margin has (Continued on Page Five). been kept at a minimum.

After a few years, credit was es-

when a high brow heaves a sigh Who are the boys who I am there with fuming main and might Who are the lads who grease the earthy and smooth the course of years. The sly sticking, art deriding, hard boiled engineer.

#### Friday, February 27, 1948 ENGINEERING BRUNSWICKAN Page Two Radio Dispatching THIRSTY ENGINERING For Taxicabs Condensation from an article pub- ENGINEERS To the Editor PRUNSWICKAN lished in "Electronics." Two-way radio between dispatcher The horse and mule live 30 years and cabs in a taxi fleet furnishes an And nothing know of wine and been important new market for communi- The goat and sheep at 20 die, cations equipment, affects important But never taste of Scotch or Rye. The Yearly Literary Journal of the Tuesday, economy in fleet operation, and The dog at 20 cashes in University of New Brunswick. Bim McIntyre C.E.'50 provides better and cheaper service Without the aid of Rum or Gin. Feb. 17th, 1948 The Editor. for the riding pubic. The cat in milk and water soaks EDITOR IN CHIEF And then in 12 short years it croaks. The Brunswickan. Jim Murchison C.E.'50 Many installations are now in operation in the United States and MANAGING EDITOR Dear Sir:-Ross Howard C.E.'50 "Walt" Smith C.E.'48 in Canada. One company, reports, The cow drinks water by the ton MAKE-UP EDITOR In a recent issue of the Bruns-Bob MacDiarmid C.E.'48 since installation of the two-way And when 18 is almost done. wickan, Mr. Hay and Mr. Rice stat-FEATURE EDITOR radio system fates have averaged; The hog when young is laid to rest ed that the Brunswickan is a Litersix per cent more for the same fleet, And never knows a cocktails zest. SPORTS' EDITORS Charles Mallory C.E.'48 ary Journal and I have yet to find Larry Moffard C.E.'49 with the number of completed trips The modest, sober, bone dry hen, something in their column which is Larry Carey C.E.'49 per hour correspondingly increased. Lays eggs for nogs and dies at 10. "Hack" Hillman C.E.'49 On the basis of these figures, it is The Lower animals are cursed beyond the mentality of a Grade ART DIRECTOR Ed Basiedo E.E.'49 anticipated, in this case, the whole Because they lack a liquor thirst. School student. If we wish to have BUSINESS MANAGER a paper that even compares with CIRCULATION MANAGER that of other universities, the first Oh, not for them the lusty song STAFF PHOTOGRAPHER thing to do (not only in my opinn 10 months. And noisy revel all night long. ion-but in the opinion of many "Over the meter" charges on out-Oh, not for them the merry quips This year the students and Faculty of the Engineer- of-town calls are eliminated with others), would be to remove the That freely flow from wine wet hips ing Department, have combined their efforts to give the the installation of radio dispatching. above mentioned column-and if no From birth they play a tragic part University a paper on Engineering Week that will be both This means that customers who other material is available-replace A stop before they fairly start. formerly paid a meter charge from it with advertising-which is much All animals are strictly dry. the staxi terminal to his place of call more interesting. If Mr. Rice and They sinless live and swiftly die. interesting and instructive. We have not tried to make it unusual because we as well as the regular home to dec-Mr. Hay wish to express their chilufeel that with the few Foresters on the campus, we have tination charge, now pays only for But sinful, ginful, rum soaked men ish opinions, let them do so in letreet that with the rew Portesters on When producing this the actual mileage from home to Survive for S-score years and 10. ters to the Editor. The compass and the square they use edition we decided, that if the paper proved interesting to destination. Another point in my "beef" Radio dispatching eliminates the But wines and beers they most abuse that as yet I have not seen enough the people directly connected with THIS UNIVERSITY, and especially the engineers, it would be sufficient reward unproductive return mileage former They always reach the very top readable material in the two Bruns-And pull with main till cork goes wickans each week which could be put into one GOOD weekly. The Equipment Installation for our efforts. The "school spirit" of the student body during recent pop. They draft and build and stretch the reply of the Brunswickan to this, 15 Physically the required equipment years has been of a hot and cold nature. But then we don't have to be "rah-rah", boys to get the most from an be adopted to existing facilities, that enough material is not handed wire University life. Probably "school interest" is a better ex- a dispatchers office to cover incom-Sing forty beers till they retire. in. However, what has happened pression of our desired objective-interest nct only in the to "The Pipe"-by Murchisan and McIntyre, "Little Timber" by

Fleming, and several sports write-

ring covers

: :---:::

"Well, I'm all set for the Prom . . . Perfection . . . Check!"

ous activities

"Mystery hour" at Physics or the "water works" in the necessary antenna atop a 60-foot

Civil Building, but interest in any or all of the many cam- mast conveniently located. A com-

We feel this interest may best be found in the Senior ing no storage problem plus mobile Engineering Class of our school. We will miss these men equipment is all that is called for. when they are go ne because they have been th nucleus of The fixed station equipment is reall engineering activities. The fellows of the classes '49 notely controlled by the dispatcher and '50 are getting along in years and we cannot expect A phase shift transmitting system them to neglect their domestic activities for others. provides a frequency modulated

There is a bright side to the picture however. The signal with sufficient deviation to salvation of a balanced and happy campus life lies with the allow voice and allow reasonable Freshmen. We are all watching them with keen interest, audio quality.

and expect them to stabilize a high school interest that has The receiver is crystal controlled been oscillating along the "Y" axis for the last couple of in order to ensure optimum signals from unattended equipment. vears. Mobile Stations.

"WE DON'T GIVE A DAMN"

s identical with that of that em-Eeryone is familiar with the phraseology of the Engineers' Yell ployed in the fixed stations but is and everyone has his opinion of the same. Some probably think it in- differently packaged. A loudspeaker ane and crude and some might even consider it the clarion call for is normally operative in the taxi but some mythical but gallant crusade. However, the vast majority, in- the receiver of a telephone hand set cluding the Engineers themselves, are completely indifferent on the can be used for conversations once communication is established. A subject. In other words, "We'don't give a damn." switch on the handset operates a re-

In a recent ssue of "The Brunswickan" Bill Hine gave us a lay to shift the antenna connection penetrating analysis of student life at UNB. His essay showed cor- from receier to transmitter, when ciderable thought, delving into the frustrations, maladjustments, inter- the cab operator wishes to talk back. ferences, and other facets of psychological study as applied to this (The mobile trans receiver can be conveniently located in luggage campus. It did, however, seem a little inconsistent that he should compartment of cab). The antenna consider Freud's theories as not having direct bearing on the situation. itself is a whic mounted through the The greater part of the escay dealt with the social attitude of unsucroof of the cab and works against cessful campus personalities revolving about a "raighty minority" in the metal rool as a ground.

which the Co-Eds appeared to supply much of the inspiration and Power in taken from the car storage

pact transmitter receiver unit entail-

Circuitwise, the mobile equipment

driving force. Yes, it must be admitted that student life at Mount A. and Acadia, which are truly co-educatonal universities, reaches high- EXTRA SERVICE or peaks of organization and enjoyment than it does here under the Because the majority of users of present circumstances. But there is nothing we can do about the so- cabs initiate requests for service cial ratio at the moment, except possibly recommend to the Senate the from telephones, call box dispatchestablishment of a school of household science at the convenience of ing systems have been in use for many years. These existing telethe good Lord Beaverbrook. phone systems fall into line with

At a social function some time ago, a Freshman Arts student was the new radio telephones. Now disintroduced to a senior Engineer and lost no time in proclaiming that patchers can send the nearest car to he (the Artsman) "came to aniversity for an education rather than a the phone last used, and when mere technical training." Not having conferred with the Muses for receiver. 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 tenns of such basic principles, the engnieer represents a far greater cross-secton 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 eware of the fact that he, as an individual, can do absolutely nothing to prevent either of chese calamities. Neither can he afford to allow his mind to dweil 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. Philip Gibb weaves his latest noval 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 cur 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" defeat us before it becomes obsolete in the psychology texts. We must carry on undismayed with the eloquent message as our motto at every turn of the road: "We don't give a damn!"



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 transtt-

A. F. BAIRD

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 shambles, 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

man. On the contrary, gather what conselation 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.



D1177E11'C

game results.

DIAL 550

#### Friday, February 27, 1948

### ENGINEERING BRUNSWICKAN

#### YOURSELF KNOW

by NATHANIEL GUBBINS from London Daily Express.

Lazy but lucky is the best way Old Moore Gubbins, the world- describe May-bora people. famous astrologer, has frequently The men are usually bar flies offered his inaccurate forecasts of The women are usually sluts. In fact, future events to the credulous pub- both sexes would be natural born lic. This week he will tag along spivs if they had any brains for behind more successful astrologers buying and selling. As it is, they who earn a crust of bread describ- lounge through life waiting for someing your character according to the body to look after them.

April 21. . . . . . May 20

And as they are born lucky, some month of your birth. Unlike most astrologers, who hard-working wretch usually does. write mainly to please women, this Although born under the sign of is written to annoy everybody- Venus, you are not necessarly beautiful. In fact, you are inclined to men. women, and children. fat and not very funny stories. You

would make good barmaids if you Dec. 20 .... .... Jan. 20 If you were born in this period were not such good bar flies, good you are mean, grasping, cagey, and publicity agents if you knew some nnier stories.

cunning. You will probably live to a great At school you will be hated be age, because you don't worry. You cause you are a natural sneak. You will also cheat at exams, and have no brains to worry with. May 21.....June 20 games because your greedy eye will

You were born under the sign of be fixed on the prize rather than Gemini, The Twins, which means achievement for its own sake. You will be successful in busi- you have a dual personality. This uess, so long as it is dirty business. is only a polite way of saying you You would also succeed in politics, are a double-crosser and a first-class

So far, club committees have not liar. You are every bit as lazy as the studied astrology. When they do, they will blackball all people born May-born people, but you are not in January. This will save a lot of quite so dumb.

resignations by other members, who . In fact, your mind is too quick for will find January-born people rude, most people. You have talked them into something before they know boorish, vain, and tight-fisted. If you are a January-born man where they are, unless you're trying your wife will hate you. If you are it on somebody of your own type.

I daresay most spivs were bo

# **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 subiects. 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 Ceology" 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. Christiani 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. 1984 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, aluminum, 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 Asiatia Society. Lectures and publications in Shanghai-1986 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 Pield 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 Civly Engineers and full Member in 1941. 1941-'46 elected Associate Member Institution 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 broadcast or. the R.A.F. Served in Inventions Committee in Shanghai. Interview ed applicants for commissions in Technical Branches of the Services. 1941: Japanese took over the Institute which continued to operate until 1942 when British staff was evicted. Then johned 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 Lunghua 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 Rebilleting and of Air Raid Precautions. Gave 12 public lectures and organized others. Repatriated 1945. In England in 1943 prepared the final report on the research work of the Foundations Research Committee and recuperated from internment. In October appointed Professor and Head of the newlycreated 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.

### RADAR by Prof. J.O.Dineen

Radar is a term coined from the descriptive phrase "radio detaction 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 unimpaired by darkness, fog, cloud, smoke, and most of the NEW ENGINEERING other obstacles to ordinary vision. Radar also permits the measurement of the range of the object it 'sees" with a convenience and preision entirely unknown in the past. It can also measure the speed of an bject moving relative to the observe ng station.

in some respects radar is inferior the eye. It is poor on detail and hows 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 the campus, having graduated in vertical photograph taken under Civil last year. This year as assist-

# MONORAILS

Page Three

### by JOHN BUSBY

An Oid Transportation System Offers & 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 h ad 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 seperation of grade which keeps these speeds consistant 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 Albert Stevens is well known on the streamlined cars safely above the tops of steel vehicles.

Comparison to the old and huge steel-shadowing structres which were so characteristic of the old elevators, Radar works by sending out radio materials and was a prominent mem- will stop immediately when we realize that Monorail operaant prof. he is in charge of testing

PROFESSORS

Prof. J. O. DINEEN

ALBERT STEVENS.

LLOYD HARGROVE

a January-born woman your husband will hate you. If you were in this period. both born in January, your children Superficial knowledge is one will be devils, born with houves and your assets in making friendships.

Although you are too indolent to tails. When you were born, the sun was acquire real knewledge, you can talk passing through the sign of the plausibly about anything under the Zodiac callea Capricorn, the Goat. sun. As a crooked auctioneer you And you January people have cne would be a great success. Women are advised not to marry thing in common with goats. You

Geminis. 'They get bored easily, stink. are not interested in anybody but February people are nothing but thenselves, are inclined to drink too pests. They are restless, vain, self- much, and are hardly ever faithful. Although they have two personalicentred boers, always worrying themselves and other people about ties, they are both unpleasant. June 21.....July 23 their health, talking rubbish about A born sucker, eh? Loyal decent, things they don't understand, joining societies and yapping about poli- dumb reliable, fend of your family,

tics and religion without the vaguest always imposed upon, honest, truthful-what a mess you are. knowledge of either. You can't tell them anything. What hopes have you of getting They know. They think they have on in this world, though you may be advanced ideas and believe them. O. K. in the rext?

selves to be "modern," whereas In fact, your personality is so dull they are more conventional than I can't waste any more space on it most people and usually have no except to advise you never to invest ideas at all unless they acquired your money if you are a man. If a woman, never speak to strangers.

thera from somebody else. February women, particularly, A real astrologer writes of your are obsessed with this idea of ba- type. "You will do well in all calling modern, always tercetting that ings connected with liquids." Eve, in her time, was "inodem"-This does not necessarily mean more modern and daring than the you would make a first-class admiral. majority of her descendants. It is more likely to mean you would Although February people be- make a second-rate potman.

July 24.....August 23 So. Here comes the greatlover, lieve they will succeed at anything, they usually succeed at nothing, unless somebody kicks them up behind. eh? if a woman, a vamp; if a man.

In fact, this is the best thing to do one of those people you never invite with them. When you know them home the second time. better, it will give you a great deal Also a bit of a political extremist too? A frothing Fascist or a schemof satisfaction.

ing Communist? Feb 20 ...... Maz. 20

What a cocky, domineering lot I think I can see you, 'Fond of you are. Like the February people, good living and finery, argumentative you know everything, too. And aggressive, selfish and greedy. heaven help anybody who upsets Keep out of my way, will you?

your vanity. You also believe you can de any- Just a fusspot, aren't you? Fussy thing better than anybody else, and bossy. Tidy and tyrannical. Failure after failure won't make any Worrying about your inside and difference to your self-esteern. You other people's insides. Never really will always think it is somebody happy unless somebody is ill and you can fuss over them. else's fault.

Nevertheless, you will succeed, From your crowd come the civil even if it is only by trampling on servants, the unadventurous respectsomebody else. If a man, you would ers of law and order. make a good, if unpepular, sergeant- Nothing much to say about dull, major; if a woman, a good and ex- same people like you except to actremely unpopular matten of a hos- vise you to stop talking about your pital. operation.

Sept. 24.....Oct. 23 Whatever you do you will be unpopular. As your Zodical sign. Another dull lot. The women are Pisces, is represented by two fishes, shy and homely (in both senses of which means you are fond of water, the word), and are given to sitting why don't you go and drown your-around clicking knitting needles and asking silly questions. self?

The men are much the same ex-March 21. . . . April 21 Hitler was born during this period, cept that they can't knit. Oct. 24......Nov. 22 so most of you can consider your-

According to this real astrologer selves half, or wholly, mad. But yours is not the foolish, irre- I have been reading, some of the sponsible madness which many greatest people in the world have young people affect in the hope that been born in this period. somebody will inistake it for genius. But don't let this go to your head,

Yours is the madness of the fixed You are cocky enough as it is. Reidea, the passion to impose your member that millions born under views on others, the determination this sign have never done anything to reach your objective at any cost much but poke their noses into other people's business. -to other people.

That is why you make such good You like freedom for yourself: serfdom for the rest. You believe policemen. Hiva flatfoot. Nov. 23.....Dec. 23 in keeping the lower classes in their proper place. If you happen to be- I've been right round the year long to this class yourself you will without finding anybody who doesn't al ways find somebody a little lower seem to be either a fool or a natural

Married in 1928 and has three children, a daughter studying in the University and a younger son and daughter. (Family in New Zealand during 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 scorer) the Columbia Country Club, and the Public Health Club of Shanghai.

> F. J. SANCER, Professor. 16 2 48



avorable conditions. waves from a transmitter of suffi- ber of the Engineering Society, one ton is neat and noiseless. cient power that measurable amounts of his successful undertakings being of radio energy will be reflected Stores Manager. We know he will radar, to a radio receiver which is our society. usually located at the same site as the transmitter. The properties of

the received 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 i modulated in such a way that it sends out very intense, very brief pulses of radio energy at intervals

Lloyd has come to the faculty that are spaced rather far apart in terms of the duration of a pulse. after a year with CFBC in Saint During the waiting time of the John. He is a UNB'er of the '46 transmitter between the pulses, the class when he made a showing in receiver is active. Echoes are re- Electrical. The University Radio

ceived from the nearest objects soon Club is fortunate to have him as a after the transmission of the pulse, member, his keenness is further profrom objects farther away at a slight- nounced by the fact that he has his rail to the engineering world. ly later time, and so on. When suf- own Amateur Station, known on the

ficient time has elapsed for the re- air as VE1PO. ception of echoes from the most dis-

tant objects of interest, the trans-ELLIS CUNNINGHAM mitter is keyed again to send an-

other very short pulse, and the cycle repeats. Since the radio waves used Cunningham with us and is doing a est ride without spilling. in radar are propagated with the swell job in the new machine de-

speed of light, C, the time delay, T, sign shop lab. Before coming to measurement is reduced to the meas- and some know him from his col- 70% reduction in operating costs.

urement of time. Modern electronic lege days at UNB in '31. Ellis is timing and display techniques have living on the Woodstock Road in his been developed to such a point that recently completed home. time interval of one-thirtieth of a

proportional to wavelength. Particueadily measured.

In addition to range, it is desir-ble to know the direction from able to know the direction from tolerated for aerodynamic reasons, a which an echo is coming. This has small antenna is required and hence increased accident votes.

been made possible by the develop- microwaves must be used. in the direction the beam is point- 1930's. By 1938 a chain of radar And this does not include equipment.

ing. If the antenna, and hence the stations was in operation in southern around the horizon, the strangest the development of modern radar including stations and rolling stock. echo will be received from each was given by the development in dustry and phenomenal develop- ing power.

ceived from it. ment followed. In time and money The Plan-position-indicator or spent, radar came second in import-

The development of radar has led rate method of blind-landing for airto the use of ever higher frequencies craft now in use at all the major challenges to free enterprise in many years. and shorter wavelengths. In the airports. It is also providing much

In the U. S A. one of the first Monorails to be built from the objects to be seen by the continue to be a strong supporter of was constructed for the transportation of heavy oil-drillbed 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 spring 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 twostorey 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 gyroscopes kept his 40-foot cars on an even, keel, attaining speeds up to 125 MPH. There was only one difficultythe 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 mono-

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, We are pleased to have Ellis a glass of water filled to the brim will undergo the wild-

An industrial-type train operated for six weeks with between the transmission of a pulse UNB he was with the Department a rock balanced on a cross-piece This remarkably smooth and the reception of the echo from of Education on Wartime Training ride, even for a monorail freight train, is due to the absence an object at range B will be at Moncton. He is well known and of side-sway; the vibration caused by flounge-grip is also an object at hinge b will be popular in the engineering building non-existent. The resultant decrease in friction means a T=2R+C seconds. Hence range popular in the engineering building non-existent. The resultant decrease in friction means a

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 electrics a range precision of 5 yards, can be breadth of the beam produced is 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

Demands for better and speedier transport had been lengths short enough to permit the The principle of pulse ranging answered in part by the interurban railway but it had its use of highly directional antennas, which characterizes modern radar disadvantages. Elevated and underground railways have so that a more or less sharp beam, was first used in America in 1925 for alleviated the situation also but their cost is a great disof radiation could be produced by measuring the height of the tone- advantage. Such grade separations do provide fast train by an 'antenna of reasonable physi- sphere. Following this, pulse radar service with freedom of right-of-way BUT-it costs from cal size. When the pulses are systems were developed by most of \$869,000 to \$1,118,000 for a single-track mile of elevated, sent in such a beam, echoes will be received only from targets that lie England and Germany during the \$3,000,000 to \$11,000,000 for a single bore mile of subway.

What about the suspended monorail? The bill for Radar beam is swept or scanned Engand. The greatest impetus to this system is estimated at \$300,000 per double track mile,

target when the beam is pointing di-rectly toward the target. Thus, the England of a powerful generator of microwave energy, known as the fold. As an example, a California Salt Company's mono. bearing of a target will be given multi-cavity magnetron. This was system operates small trains each carrying 6,000 lbs. of placed in the hands of American in-

Monorail would mean the elimination of bridges and PPI is a cathode-ray type receiver ance to the Atomic bomb during the a much higher gradient would be of needs used. It could which displays simultaneously range recent war. Already it is serving make long strides over hills and canyons. Reduced to its and azimuth data in such a way that many useful purposes in its peace- simplest form, the industrial line would still have the same he screen looks like a map with the time role. It is the basis of Ground- speed, safety and efficiency offered by its city cousins.

This monorail is undoubtedly one of the most exciting RAILROAD MAGAZINE

bserving station at its centre. Controlled approach, a highly accu-

of September, 1947. cm. wave- valuable information to the meteoroborn basket. ngth, we have what is called mic- logists in the detection and observ- SWISS CENTENNIAL. to oppress. So I'll try to say something nice You were a horrid little boy. You -wave radar. The superiority of ance of approaching storms. It is were alse a horrid little girl. You about you even if it is only to mainships, maybe the same taste for 1 nicrowave radar arises largely be- found on all airlines as an aid to kicked little boys who touched your tain some faith in the human race. ause of the desirability of focusing navigation and is finding similar use JOHN F. PHELAN 52 Again, according to this real as- quor. engine. You scratched little girls radar energy into sharp beams, so on steamships. Only the future and The women are described trologer, you're not a bad sort, any. The women and in adversity; bright being, cheerful in adversity; **OPTOMETRIST** who nursed your doll. that the direction as well as the the inexhaustible ingenuity of the Opp. Post Office you are grown up. The sooner you Like the June-born people, you the men as outdoor, sporty types, You are even more horrible now way. range of targets can be determined. mind of man will determine its de-Telephone 1727-21 Fredericton 366 Oueen Street are certified and safe under lock have a dual personality, the same given to making puns. In accordance with physical laws, velopment. or an antenna of a given size, the quick mind, the same easy friend- A pity. and key, the better.

Page Four

#### ENGINEERING BRUNSWICKAN

## ENGINEERING IN CHINA by Professor F. J. Sanger

INTRODUCTION: China has gone a long way beyond pigtails, 6" | sands. Rolling is by stone rollers hauled by animals or by unen. Gunfinger-nails, and mandarins even in most of her 450 millions remain yowder is obtainable almost anywhere-it will be remembered that primitive gardeners. For at least 4,000 years the problems of river the Chinese knew of gunpowder a long time before we did, but had floods and irrigation have been before the Chinese and there are his- not the sense (or otherwise) to kill one another with it, employing the torical records of unusual engineering ability in controlling tivers and new invention of firecrackers-Chinese still love a big bang, and celecutting canals. Many of the old canals still exist and do their job of brate with firecrackers as often as possible. In 1937 one of my gradlinking up the Yangtse with other rivers and thus providing good vates was trying to build a highway with kaoliang straw. In North trisection of a circle-but it is evewaterways in a country which is so mountainous that highways are almost impossible to construct between the centres of population which in appearance, for the grain which is fed to ianimals. Kaoliang also his trisected circle contains 384 perare in the main river valleys. Progress has been slow because of the provides a very potent wine very like vodka but more powerful still- rect degrees, not the 360 which has superabundance of human labour, the difficulties of transport, and the at a Chinese feast it behoves the visitor to be on his guard when the served for many, many years. philosophy of ancestor-veneration with such a philosophy a nation hest says "Kan pei" (i. e. "bottoms up"). The roads in wet weather A carpenter by trade. Black looks backwards and remains static. This article is based on an 11 are muddy tracks; in dry weather piles of dust. In between times the claims that the 360 degrees is a years' residence in Shanghai with travel within a 500 miles radius surface is good. Near the towns an attempt is made to stabilise the in the mathematical monstrosity – and this and on interviews and correspondence with engineers, many my own road by various means including the rolling-in) of ashes and treatment is his proof. graduates from a British Technical Institute where I was Dean of Engi- by salts. Nevertheless the Burma road is a monument to China, and neering and Building. The Institute was at Shanghai, which is the in- one can never forget the perfect road from Nanking to the Sun Yat dustrial centre of China as well as its chief port.

PRIMITIVE ENGINEERING: A short description of engineering western parkways. achievements seen in travelling around the countryside 'reveals the natural ability of the Chinese. In the hills of Shantung for example one occasionally comes across a waterwheel driving a flour raill through tury ago. Travel on the railways is interesting but hardly an engi- 24, 12, six and three-the final wooden gearing; the wheel may be 15' in diameter, and not one trace neering subject, and does not come in here. A locomotive driver has figure representing one each of his of metal is to be seen. This fabsence of metal fastenings is very notice- quaint ideas on lubrication, in common with most Chinese. He sees trisecting points.

able in primitive machinery. Home-made spinning wheels and looms no point in oiling his engine when it runs so well without oil. The able in primitive machinery. Home-made spinning wheels and looms no point in oiling his engine when it runs so well without oil. The the first six grades only, Black also entirely of wood are common in the small villages. In the rice fields way in which modern locomotives have been piled up and abandoned discredits the mathematical term of (which have to be flooded when the small plants have been trans- on the railways is almost unbelievable.

planted to it) are ingenious paddle pumps driven either by manpower There is no aircraft industry in China. Like every other race the 3.1416. on an endless chain moving up a sloping rectangular channel by means Chinese have speculated about human flight and legends tell of flights Actually "pi," used to determin of sprocket wheels at the ends. The upper wheel is driven by a tread- made by men using home-made planing surfaces, but the stories about the circumference of mill with two people walking on it or by gearing from the buffalc- the Chinese love of kites are not untrue. It is still possible to see 3.141592. Black says. shaft. Usually a conical roof of straw protects the buffalo which is a kites more than 100' long moored to stout posts. The top is a big Exectly, minutely and perfectly

valuable source of mechanical power but it is unusual to see protection dragon head in hamboo and paper; the body is made of sections fasten- to measure for the much-less-vauable human-beings. The efficiency of such a pump is quite high and in a few days the field is flooded by muddy and to mention the custom of putting flutes in the wings of doves so for a one-inch circle to 2.141500 for ises as they wheel around is elso wandering, for a one-inch circle to 3.141599 for water from the irriation ditch or creek. In the canals, rivers and that they make r creeks one sees junks and sampans. The junk is a well-known Chinese but interesting perhaps, and is remotely connected with flying. Chi-Armed with compass and pencil, ship which has not changed in a minute particular for many centuries. nese make good pilots incidentally. Black is ready to prove his theor-To end this section on primtive engineering attention should be ies and had already invented, he Pieces of junk have been fished up from a 600' depth in the Shanghai "mud" on which the city is built-that junk was sailing the China Sea called to the crippling effect of the lack of metals. The superb craftsquite a long time ago. Sampans are small boats for three or so pas- manship of the Chinese should be noted too, and with modern metals. degree circle. sengers with a single sculler at the stern for propulsion. Both junks machinery, and education, there is no limit to their capabilities: Chi-"I have found," says Black, "what and sampans have a spoon-shaped hull which makes them efficient ness excel in manual skill, patience, hard work and ingenuity. The man has searched for more than 3,ships though rather slow and travel in a sampon is like bobbing about pride in craftsmanship still exists and spiritual values are very im- 000 years, the perfect way to meaon a cork. On country roads and in cities too are carts, wheelbarrows portant. When one sees the poorest families living in rotting boats and open-sided trucks towed by men-not horses. These vehicles are with personal possessions practically zero, living from day to day on an insoluble problem in city streets owing to their very narrow tires garbage and odds and ends, and playing and laughing in their rags-LIFE and very high wheel-loadings. In the cities it is customary to have they have something which we have lost. Baby's heads have no hair MODERN ENGINEERINC: The Chinese have co-operated with blocks of stone in lines at the correct spacing so that the coolies may Old men's beards are just as bare guide the wheels on to the stone track where there is less road-frich foreigners and have picked up western techniques which they now tion (and the sheet asphalt surface is not cut into ever-deepening ruts). apply although the number of Chinese engineers is so small. Very lit-Between the cradle and the grave Rickshaws came from Japan, but are now very useful vehicles for the tle steel is produced in China although the iron ore and coal are wait-Lies a haircut and a shave. general public in China, and a nuisance for other street traffic. They ing to be used. One Chinese steel mill at Shanghai is producing reare beautifully made, for lightness, strength, balance and comfort and inforcing bars from pig iron and scrap in open hearth furnaces fired by the pueumatic tire has done a great deal to make a rickshaw ride a gas made in a producer. I have inspected the works and have tested very pleasant experience if one can forget about the puller Bickshaws hundreds of bars for users in Shanghai with consistently good results. All around Shanghai there are small factories making plastic arti les, fountain-pens, vacuum bottles, aluminum and sheet metal articles are used for carrying freight as well as persons and in the narrow The steel is reliable and the slightly lower tensile strength and ductility rough lanes between the fields are valuable means of transport. Chi- as compared with British structural steel is not drawback when the of all kinds, kitchen utensils, hand tools, flashlights, etc. The output is quite high but generally the lack of inspection gives unreliability. Sevnese well-drilling is still practised and for depths to 500' has advan- properties are known. Works control of the pour is as strict as in any tages over foreign mechanical equipment. The method originated in foreign steelvorks. The Chinese are excellent founders in ferrous and eral chemical works have been in operation for many years and Shanghai was well advanced i nthe manufacture of the sulpha drugs and hor-Shantung and all the well-drillers seem to be from that Province. The in non-ferrous metals. Examples which come to mind are cast-iron hole is drilled by a steel chisel bit on the end of a bamboo mpe made links for chain grates, cast-iron lathe-beds, phosphor-bronze "brasses" one compounds as well as in commercial chemicals. of thin strips clipped together. The top end of the rope is fastened i for a steam engine and cast-iron pipes which I have bought and tested CIVIL ENGINEERING: Returning to civil engineering after the to the borizontal strings of a 20' bow made of perhaps a dozen more before acceptance with satisfactory results every time. The chifn discussion of production engineering we might first note the modern buidings in Nanking, Kiangwan Civic Centre (just outside Shanghai) baraboos. Just above the ground level is a wooden crossbar on which grate links were compared with British made links for replacements two men shove down to dig the hole; when they let go and the tension when British supplies were cut off and proved themselves to be the the new wharf for Kiangwan, and the air-conditioned cinemas Shanghai designed by Chinese architects and engineers and built b in the bowstring raises the bit for the next shove. The hole is filled equal of the homeside product. Other steel products tested such as with muddy water to prevent caving in and sometimes steel casings are bands for cotton baling, spindles for textile machines, castings for Chineses contractors. Reinforced concrete is a very popular material used nowadays. The bit is withdrawn (for sampling or for other pur- miscellaneous articles and welded flanges all show the same good mawing to the cost of structural steelwork but Chinese engineers use poses, by a 20' diameter bamboo wheel: two men walk on a treadmill tertals and workmanship. There must be hundreds of small workshops steel frame structures where necessary. The bridge at Hanchow on the made of rungs near the periphery) of the wheel and the bamboo rope in Shanghai, but the output is very small of course. Chronium-plating Ch'ien T'ang River (which has the biggest bore in the world) was an nternational project, designed by American engineers from data supis wound on the rim of the wheel. The similar Canadian method uses works are kept very busy. Shipbuilding firms have progressed well beyond wooden junks. plied by the Chinese government; the foundations were by a Danish a cantilever spring of course, instead of the bow. Chinese bridges vary considerably from a simple granite slab to The Government has a shipyard near Shanghai which has built Cuscontractor, superstructure by a British firm and erected by the foundmarble arches. Long-span bridges are of bamboo-the Chinese have toms cruisers (on stocks and launched into the Whangpoo) complete ations contractor, approach work by Chinese Contractors, and all of hamboo car: still be seen in Japan also). Small-span bridges of the built ferry beats and launches however entirely without foreign aid altructure was in chromador steel and the foundations gave trouble in the swift river with a scour at the cofferdams. All the labor and better type are invariably circular arches, but it seems as though the though the men and engineers have been trained by foreigners of arch-principle has not been used and the bridge really consists of two course. There appears to be no reason why bigger ships should not be much of the supervision was Chinese of course. Soon after the bridge was opened a peer and two spans were blown up by the Chinese cantilevers built out from each abutment and then finished off with a There are Chinese firms making heavy electrical machinery but advance in 1937. such dimensions as to be quite unstable as two cantilevers. The road practically all of it is imported. At Hangchow on the coast of China Chinese contractors are as good as any in the world and know over the bridge is often small stone steps, making walking easy but there is a big generating station entirely under Chinese control. as much about "Extras" and other devious means of increasing the not assisting the wheeled vehicles very much. Since the approaches Special facilities are made for college students to take a course at the value of a job. Sub-letting and sub-sub-letting etc. is customary iso station in the summer vacations: these include the dorraitories, public that the work is carried out by a large number of small contractors rooms and sports fields and gymnasium. A great deal of electrical employing half-a-dozen men or boys. It is amusing to watch mail are only a few feet above water level the bridge rises in a big hump. equipment is now produced in China' lamps, fans, batteries, irons, raboys bricklaying, laying a thin line of mortar around the edges and Lumber is also used for bridges of course but generally stone is liators, heaters, kettles and telephone parts. eaving the middle of the joint empty (unless the clerk-of-works is preferred. Bandoo has many applications in primitive Chinese engi-A most important requirement in industrial development is round). Rubble may be used to help put concrete in a column. meeting. Drain pipes and water supply pipes of bamboo split longituchine tools. About 1938 a big demand arose for machine tools for Indinally are very economical. In the hills one sees these pipes running Measurements for payment need careful checking. It has been disdia and Malaya where armies were being equipped for the coming war. from mountain pools or streams to houses below where simple tanks covered that sloppy concrete is easier to wheel and to pour. These Shanghai engineers were interested and several Chinese firms began are put into the ground for storage. The tank is allowed to overflow are uncommon details however. The fact remains that the Chinese production, copying existing machines at first but soon designing their if sucply exceeds demand and the stored water remains pure. In ontractor and his men can do a perfect job. At the extension of the own. The Institute was recognized as the official inspecting body givmodern building the bamboo is used for scaffolding: at the top of each Shanghai Generating Station and American Superintendent and Resiing us a good insight into the industry. Our experience was that some pole is a sprig from a shrub to prevent unfriendly devils sitting on the dent Engineer were astonished at what the contractors could do. Outfirms could produce machine tools capable of passing the accepted tests top and causing accidents. Chinese roofs are well-known: the interior tanding feats which come to mind are the concreting of 1,000 cubi with all that was required in quality and finish. Others were not details may not be though. Chinese did not discover the "frame" ards in one continuous operation, the raising of a 50-ton steel girde capable of course, but the important thing was that most could, make principle and the roof truss is a combination of beams and struts. A o support some breaching 150' in the air using poles, pulleys, ropes these first-class machines. A big proportion of the machines were heavy beam is laid across the columns; then two short posts are and men on the nearby boiler house roof. A big steam drun of about added to the beam at a smaller span and another beam is laid across medium duty lathes, but later on more elaborate machines were dehe same weight was dextrously steered through steel columns and signed and produced including gear planers and milling machines, them. Then two more short posts at smaller span, beam, posts, and beams into its place in the boiler house again with the most primitive During the War a big bicycle industry grew up in Shanghai. The so on until the roof is completed. Light rafters 'are added and the roof quipment where modern appliances would have been of little use. bicycles are heavy because solid drawn tubing was (and still is) unis tiled with the upturned pitched eaves which are so attractive. Even In the Institute a squad of coolies unloaded three crates of the parts of available and welded tubing had to be used but the bicycles look just in modern buildings. Chinese architects retain the traditional eaves a big boring machine and erected the machine with the help of three and heavy roof although the building below is modern in design and like the British machines and give good service. The chain is the diffioles, rope and pulleys-and human muscle. concrete imitating ancient designs of partitions or pagodas but such cult part in bicycle-manufacture, but here there are two good firms construction. Sometimes one comes across monstrosities in reinforced Excavation is almost entirely by hand using pick and shovel with things are quite rare. The usual principle in dwelling houses has producing excellent chains with case-hardened working parts, made on amboo baskets for carrying spoil. Contractors often use modern surbeen a spressed frame with light partitions. Formerly the stressed quantity-production methods. The bicycle is a very popular machine veying instruments in setting out baskets but some still prefer ancient rucmbers (columns and beams) were of wood, occasionally of stoney in the Yangtse valley, not only for passengers, as it were, but also for nstruments like the water-level I saw in use in 1935. The level is freight. They are used for towing rickshaws in an interesting comsimply two cylinders connected by a flexible hose. Marks on the cybination known as a pedicab, developed during the War. Another and nowadays reinforced concrete is often used instead. Bricks and linders indicate levels. About 10 years ago, Dr. Terzaghi invented a tiles have been used for centuries-so have mud and straw which are thing for which our War was responsible was the small gas-burner us- very precise instrument called a misrometer hose level for measuring Highways in China are still primitive, and it should not be forgotstill the building materials of millions of people. ettlements inside buildings; it uses the same principle as the cruder ten that two hundred years ago (a very short period in Chinese hisinstrument of the Chinese. spectations the engine did not suffer seriously from tar and other There is little to be said about foundations or I may be accused of things distilled although no scrubber was provided. The producents troiting out King Charles' Head. For a very long time the Chinese tory) roads in England were mudtracks. Europe. Practically all the highways are earth roads. Short stretches have been stabilised with portland cement but were found to be in-adequate against the narrow-tired carts although very good for auto-mobiles. In mountainous regions where stored ways are earth roads are earth roads and for auto-mobiles. In mountainous regions where stored ways are earth roads are earth roads. Short stretches adequate against the narrow-tired carts although very good for auto-But in recent years some mobiles. In mountainous regions where stone is available without ex-tremely difficult transport, broken stone is used for waterbound/ roads. Labour is hired from the villages-men, women and children in thou-

**Carpentar Trisects** Circle, Claims 384

## Not 360 Degrees

from Montreal Daily Star. San Antonio, Tex.-In these days of trisecting angles, it's not surprising when

sulting figure one gets 180, 90, 45and then the trouble begins with the Sen Memorial on Purple Mountain, in every way the equal of the best final figure, some hard-to-calculate

Little can be said about Chinese railway engineering. Railways Black's trisected circle of 394 dewere introduced against considerable Chinese opposition about a cen- grees is divided thusly: 192, 96, 48,

His formal education consisting of

Friday, February 27, 1948

## right now your grades are good ....

but life holds harder tests

H; There!

Harder indeed! Life was never a lenient schoolmaster. And making the grade in life demands all a man can muster in the way of knowledge, ability and forethought.

Especially forethought! The sort of forethought that prompts a man to start charting a life insurance program early in youth. The sort of forethought that enables a man to realize that whatever the experiences life holds for him - earning a living, getting married, raising a family, having earning power out off - he is better equipped to meet them and enjoy them when he has behind him the security and protection provided by life insurance.

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> Sunday 6.30 P. M. - CFNB A House in the Country ' is presented by

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"REMEMBER WHEN YOU CHOOSE THAT GIFT-CHOOSE THAT PERFECT GIFT-JEWELLRY FROM BRADLEYS."

Chinese ideas on sewerage are interesting and unusual perhaps. It seems as though every effort is made to preserve the natural nitrogen cycle. Only the most important houses' and buildings have septic tanks draining to the nearest water course; for most of the population carts pass along the streets every morning to collect the "night-scil" which is taken to a central station and loaded into boats which take it to the fields where after storage in earthenware kongs it is thrown back to the soil by long-handled dippers. Shanghai has main drainage for a good part of the city and two disposal plants (bio-aeration) method), but that is essentially a foreign provision.

Water supply is normally primitive but in most towns water is available at a tap, even if several houses have to share one supply point. In the countryside the houses are near a stream and that serves for everything, water-supply, washing food and clothes (in the stream direct) and sometimes as the sewer although little valuable fertilizer is wasted by farmers.

Chinese professional engineers have two big societies to which they may belong. The Engineering Society of China is an internaltional body with headquarters at Shanghai, and there is a purely Chinese Engineering Society.

CONCLUSION: China is developing rapidly. By foreign assistance both in China and by the education of students abroad, a body of engi-

neers is being built up capable of bringing China up to a modern industrialized state but they have a very long way to go. And while the present political and economic conditions persist, everything is retarded still more. The War very seriously hampered this development too. Chinese workmen have all the skill required; Chinese engineers are as good as any in the world. The materials are there and China has a great future-but when will engineers be allowed to work in peace?

#### VOL. 67, No. 21

### FREDERICTON, N. B., FRIDAY, FEBRUARY 27, 1948

Page Five

PERSONAL His friends in Class '50 are very glad to see that Arn. Smith has recovered from his long illness and he and his pal are attending lectures Quality Clothing at moderate prices Gaiety Men's Shop LIMITED 554 Queen St. Fredericton Next to Gaiety Theatre NATCH SUEDE JACKETS \$ 19.50 ea. . . . . LANG'S for Campus Clothes 88 Carleton St.

WOODBRIDGE CAMPS For an enjoyable Onting or Private Dance come to the Queen of the Forest, Chickadee Cabin, Birchwood Lodge,

Sea Sheli Cabin or May Flower Villa situated at Forest Hill. Phone 518-11.

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with your

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IF you've never smoked a burley tobacco, you'd be surprised how it keeps your tongue cool, packs so easily, burns smoothly, and stays lit with a minimum of light-ups. You can smoke it all day long, and still come up for more.



### ENGINEERING BRUNSWICKAN

Friday, February 27, 1948



#### **Dairy Kings** Dairy Kings Win Win York Title **Protested** Finale

Edge UNE 5-4 in Hectic Battle. In one of the most thrilling games Defeat UNB 7-6-M.A.H.A. Orders to date in York Arena, the Fred-

Dairy Kings

Even Series

Page Six

Game Replayed on Tuesday. ericton Dairy Kings defeated UNB 5-4. The game, which was packed

with spills and thrills, was decided feated UNB Senior Varsity 7-6 in late in the third period, when a pase the third game for the York County from behind the UNB net deflected Championship. The game was off "Knucker" Irvine's stick into the played under protest by UNB as wooly session at York Arena. lower left hand corner of the net. Dairy Kings used Bun McLenahan. ice was rather This sends the series into a third who at the time was registered with and final game for the Yock Coun- the Fredericton Capitals. Despite torrid brand of hockey which con . title.

York County Title.

Perhaps the most spectacular per- han was played and consequently former of the night was Dougie a repay of the game ordered. On the Sewell, who recovered from a Ist face of it, it would seem only that period injury to some back and fire the Dairy Kings wanted to tce a period injury to come back and fire his second goal of the night. Tricky and elusive. Sewell gave the Dairy King: the sperk they useded. Out-that another \$ \$ \$ gate was taken King: the sperk they useded. Outtanding for UNB was "Pete" Kelly, into consideration.

Down UNB 9-7 in Fast Exciti Game at York Arena. Knucken Irvine Uses Anvil and Hammer o Ballantyne Head.

The Frederictonu Dairy Kings de-In the grand finale of the York County League Playoffs, the Fredericton Dairy Kings defeated UNB Senior Varsity 9-7 in a wild and a telegram reportedly received by tained everything from a near Dairy Kings management, McLena- for-all to a comic opera.

The Dairy Kings jumped their customary 4-1 lead in the 1st period but before the period had ended UNB blazed in two quick

gainst Grand Falls.

Donovan

Fletcher Takes

Last Wednesday night UNB's



The Engineers Are Proud To Present:

ISLANDERS TAKE FIRST GAME

THE UNB SENIOR VARSITY HOCKEY TEAM. From left to right: Back row-Coach Pete Kelly, Bob Wykes, Tom Mt. A. Takes IN BASKETBALL

Faster St. Dunstans' Squad **Outskates Tired Home Team** At York Arena

> Intercollegiate Hockey finals the fast skating Red and White St. Dunstans

Under the direction of Junier Forester Bedard the Junior Engi-neers processed the Married Vets in the Intermural Hockey Finals last

Ross "Punchy" Walker in the In the first game the Vets were UNB goal, turned in an outstanding hopped to a pulp, barked, put performance and practically held his hrough the grinders, chipped and team together, beating off rush after inally digested by a 3-1 score. Lack- rush by the Island boys. Ross Kellie ily 14 of the Married Vets 26 lines opened the scoring in the second minute of play on a pass from survived for a night game. The second game was a complete Sammy Sansom. Towards the end bleaching job. The Forester goalie of the period Blanchard tied it up Dupuis did a bang-up job of fine for the winners. The period ended screening, the forwards doing the in a 1-1 deadlock.

filtering. The game ended up in the finishers to the tune of a 3-0 from Ryan and Bedard and it looked as if the Red and Black runch hutout. The Junior Foresters are to be line was away but St. Dunstan's engratulated on their efficient and again held them to a draw on a goal

**Junior Foresters** New World Champs sextet of Charlottetown took a com-By H. HILLMAN

In the first game of N. B.-P. E. I

manding lead in the two-game total

tinct dislike to Tom Ballantyne and Norm Williams arly 4-1 lead in the 1st period as tecks deep into enemy territory. Only the dogged determination of UNB got their usual set-legs. The pounced on top of Tom, who was the Dairy Kings kept UNB from ice, which was very slow, caused the lying on the ice, and proceeded to

to be proud of in our Red and Black | Kings.

**GYMNAKHANA** 

pucksters.

winning the game and title. The game was quite rough in spots and referee Bill Lifford passed out nine penaltics, five to Dairy Kings and four to UNB. The third and were never headed. final game between these two teams is slated for York Arena on Saturday

Feb. 21. Score by periods .--

1st Period .- Dairy Kings 2 UNB 2 2ad period -- Dairy Kings 4 UNB 3 best game of the season. led the ing ahead to the tune of 9-7. Srd period -- Dairy Kings 5 UNB 4 UNB'ers into battle. UNB:-Goals by: Pete Kelly 2, George Steel and Ian Sewell. Dairy Kings:-Doug. Sewell 2, Red

Leachman 1. Neill Sewell and "Knucker" Irvine.

## Medallion

Winners Intyre The following have qualified as Dickson, Kelly. UNB: Ryan 2, Hicks, Gaudet,

the Red Cross Swin.ming and Water Safety Instructors on the recent course conducted by E. B. "Ted" MacLean, Provincial Director Tomorrow evening don't miss the

of S. W. S. fer the N. B. Division Red Cruss.

will be admitted on their passes. ciety "Bronze Medallion." The qualified: - Welton Taylor

Tom Nettleton, Bob Wismer, Andy INTRAMURAL BASKETBALL Smith, Lorne Pelton, Earle Ryerson, Bruno Seppala, Sack Boomhomer, is as follows: Fred Spinney, Larry Hunter, Dave Team Worthen, Ed Curtis, Frances Milon Faculty

Chemists (Teachers College). Ir. Civils Sr. Civils INTERCLASS HOCKEY Soph and Jr. Elec. All those interested in interclass hockey are requested to contact Senior Elect. their class member on the A.A.A. or Residence Pete Kelly. As organization must be Alexander 2

made immediately to start play for Foresters the Ryan Cup, please get your Newman Cub teams together.



And when you need that garment of clothing or furnishings that's dif-

With the hockey spirit on the campus and in the city revived pound him about the noggin. Pete through the efferts of the York Athletic Association and our own hocplayers to rifle their passes and the result at times proved disastrous to Kelley finally disturbed Knucker at key officials, we wish to introduce the team representing UNB to the Mt. A. cagers came back with a terboth teams. UNB closed the gap in Tom, who took a well-aimed thrust. students. For the past several years little has been known of the rific arrange of successful long shots the 2nd period but the Dairy Kings Te top it all off. Tom, who took hockey team or its activities except its constant battle with the ele- to take the series 111.67. Eastman's ON THE LEVEL ceived a minor penalty for his part ments on an outdoor rink. Now we can all see them in action and shooting stood out in the contest forged ahead again in the 3rd and things easy to avoid a penalty, re-Kenny Gordoa, who pulled the in the fraces and Shorty Clark near-follow their play in a spirit that is hockey's own.

"hat trick" and Arnie Dickinson, by received a sore head as Tom Dairy Kings brilliant goalie, were went rushing madly after him. Peace

soon reigned and the game continu- No. 1. "BIM McINTYRE-Goaltender (5'8"; 150 lbs.). Bim is a George Steele, playing perhaps his ed with the Dairy Kins finally poll- Sophomore Civil and comest from Saint John. During the war he was couldn't stop the onslaught of long spectively this season. with the R. C. A. F. overseas. In '46 he played with the Saint John shots. Campbell stood out for UNB

Captain Bob Ryan was outsanding Dry Dock Royals and last year with UNB. Birn is also Vice-Presi lent

and decide the York County title. Both goalies were right on hails from Kapuskasing, Northern Ontario and is a Sophomore Forester. in a swish from shots outside of the classic has always been several times Whoever wins we have all seen a their toes at all times as Arnie Dick- His hockey career to date includes Junior and Intermediate in the keyhole. wonderful series and we have a team inson again shone for the Dairy N.O.H.A. for the horae town, Albert College in 1941-42 before join-

ing the RCAF, UNB 1947-'48. Tom also plays football, Intranural The series is over and the Dairy Dairy Kings scorers: Gordon 3, Kings are champs for this year. We Bashethall and loves to eat, above all.

Cumeron, Bowlen, D. Sewell, Mc- wish them all the luck in the world No. 3. ART PLUMMER-Left Defence (6'1"; 190 lbs.). Art is another foggy city boy and is a Junior Pre-Medical student. Art played two years with Saint John High before joining the RCAF. While at Jardine 14, Smith 6, Atkinson, Moore Centralia he played Intermediate in the O.H.A. for the' Air Force. 2, Gagnon 1. This is Art's third year on Varsity defence and he has had three successful seasons with the football team. Art's interests include the Fly- Ketchum 15. Cameron 20, Eastman

ing Club and Veteran's Club. No. 4. GEORGE STEELE-Right Defence (5'11"; 170 lbs.). George

super gym display being presented at own Keith Fletcher took a decision City Director of Athletics. Much john St. Peter's in a three-round comes from that great family of golfers in Rothesay and is a Sophostruction in life saving and the candidates were all successful in quali-out the program so the evening Gvm. Donovan, former Maritime three years while in High School and in the Air Force. Perhaps his didates were all successful in quali-fring for the Reval Life Saving So-fring for the Reval Life Saving So-the Reval So fine show of boxing and ring ex- a goaltender while in grade school.

perience but could not get in under No. 5. IAN SEWELL-Left Defence (6'0"; 165 lbs.). Ian comes Keith's longer reach to do any ef- from Baie Comeau, Quebec and is a Sophomre Forester. Ian learn- Grant Davidson led the scorers with phy. Congratulations boys. Due to the boxing meet there was fective damage. Fletcher held him ed his hockey playing with Bishop's College School and the Canadian Biggar, Aif Johnson, Don Vogei, Ted Cadenhead, Murray Harris, Rollie no Intramural Basketball played off with sharp jabs to the head and Cadenhead, Murray Harris, Rollie no Intramural Basketball played off with sharp jabs to the head and Army Overseas, He and his brother Pete have been largely responthis week. The standing at present took a clear decision on points. suble for the success of the Alexander outdoor rink this year.

910 13 pleasing 84 lb. kids Johnnie Vaughn 820 16 and Lloyd Gordon, both of Saint five years in Bathurst while attending Sacred Heart School and College this comfortable margin taken away in the dving minuter

8 ? 0 16 John. They put forth an energetic where he got his B.A. 6 4 0 12 and fine display of boxing. In the No. 7. DON HICKS-Centre (59"; 160 lbs.). Don is a Junior Pre-6 3 0 12 other feature bout Phil Gordon of Dental student and comes from Dorchester. This is Don's third sea-5 5 0 10 St. Peter's gained a TKO over Boyd son with Varsity and has played in High School and with Debert, N. 450 8 Hudson of UNB in the second S., while in the RCAF. Don was I eading batter in the York County 4 6 0 8 round. The UNB'er put up a fierce County Baseball League. He has served on the A.A.A. two years being 3 7 0 6 scrap against the former Maritime past Secretary and present Vice-President. 2 Flyweight champ but the latter's ex- No. 8. BOB RYAN-Captain and Right Wing (5'7"; 155 lbs.)., Bob 190

181 2 perience in the ring proved too being Howie's brother, came from Truro and is a Senior Civil. In nuch for Hudson. The remaining bouts on the card 1941 Bob helped Truro Junior Bearcats to the Nova Scotia title. He much for Hudson.

were the elimination bouts for the played for Acadia in 1942-'43, Pictou Shipyards' A.P.C. entry 1945 Were the elimination bouts for the and UNB 1947-'48. Bob's fingers are well acquainted with the plane S. Tech. March 19 for the Intercol- key board and he can often be found pounding the ivories at the gym. legiate meet. All fixtures were won No. 9. TED BEDARD-Left Wing f5'8"; 158 lbs.). Ted is from by decisions and the boys displayed North Bay, Ontario and being coach of the Junior Foresters Hockey as follows: team must be a Junior Forester. Ted played junior hockey in North The crowd was small but made Bay and Intermediate with Charlottetown Navy and UNB Ted also Jr. Civila plenty of poise. It is too bad that plays Intramural Basketball for the Newman Club. Soph. Foresters more hadn't attended because they No. 10, ROSS KEI LIE-Left Wing (5'8"; 155 lbs.). "Kellie" is a Debaters not only missed a good meet but the Verdun boy and is a Freshman Science student. If the Montreal area Soph. Engineers UNB Memorial Fund suffered also. he played for Verdun High School and juvenile. His experience in Soph. Arts Amby and his boys deserve a pat on the back for their efforts and we Canadian Football gained him a berth on UNB's English Rugger Vets Club

team last fall. No. 11. CY SPEAR-Centre (5'11"; 185 Ibs.)., Cy is a Junior Civil Newman Club hope they do well at N. S. Tech. (1). Johnnie Vaughn (84 lbs.) No and hails from St. George. The big man of the second line played Geologists (1). Johnnie Vaugni (64 105.) (10) and man Burnies High School hockey and also a season in the Army. Cy Sr. Civils Snag McMorran (125 lbs.) decisioned played on the Alexander College Baseball team in the summer of 1946 Roy Power (154 lbs.); (3). Bill Stew- and played Varsity Football last year. Faculty

art (180 lbs.) decisioned Jim Reid (180 lbs.); (4). Clint Hayward (125 town is Dunnville, Ontario, and is enrolled as a Sophomore Forester. week-127. Ibs.) decisioned Ian Thomas (123) He played Juvenile and Junior hockey in Dunnville and was active in

cisioned Harry Crocker (160 lbs.); hockey while at H. M. C/ S. Cornwallis. lbs); (5). Dick Gorham (160 lbs.) de-(6). Hal Skovmand (174 lbs.) deci- No. 13. ED SEARS-Right Wing (5'6"; 145 lbs.). Being from Bathsioned Lou. Melanson (171 lbs.); (7). urst Ed naturally likes hockey and played three years in High School. Stan Jobb (147 lbs.) decisioned Fen- Besides being an ambitious Sophomore Engineer he is Treasurer of

ton Scott (141 lbs.); (8). Phil Gordon the Newman Club. 14 lbs.) TKO over Boyd Hudson No.14. SAMMY SANSOM-Cenrte and Left Wing (5'7"; 155 bs.), (114 lbs.); (9). Keith Fletcher (135 Sammay is a Senior Forester and comes from Stanley, N. B. This is lbs.) decisioned Bobby Donovan Sammy's fourth year with Varsity making him the old man of the team. He also played in High School and one year for Rothesay Col-(135 lbs.). Officials: Referee-Prof. Bob Mc-egiate School. This year he coached the Senior Foresters dynamic Laughlin. Judges: Johnny Vey, M. Colwell, Jol. Christensen, R. C. M. P. No. 15. ROSS WALKER-Coaltender (5'9"; 150 lbs.). Hailing from Laughlin. Cpl. Christensen, R. C. M. P. Seconds-Doug Tims, Pete Peter-Montreal "Punchy" performed with Snowdon Canadiens Montreal son, Murray Laird, W. W. Laskey, High. A Freshman Science student, he also takes Badminton very seriously. Announcer-Doug Cooke.

With an elaborate exhibition shooting Mt. A. dethroned the UNB considered triumph achieved without y Jim Avers. Basketball Kings at Sackville last the services of rugged Chief Laurier The third frame opened fast and Saturday night. After dropping the who was away consulting Fearless

> Capitalizing on this and a pair of penalties St. Dunstan's scored three more with Blanchard, Mahar and McDonald scoring.

which featured little ball handling Last year Varsity bockey stars The following is a brief outline of each player as the team now and poor shooting on UNB's part. Bud Stuart and Gene Petrocee are The Red and Black scemed to lack performing with the St. Andrews only five penalties. The unfriendly the punch of former years and they Senators, and Ottawa University to home team was most surprising, be-

**Both Series** 

Many students missed the usual as he fought hard all the way. Fast breaking Mt. A. guard Tony Robin- hilarious writeup of the Co-Ed-Facagain slated to come to blows to try and decide the York County title. Lutre Both gualles were right on the for under the provide the Society. as entertaining as the game itself.

> Mt. A. now advances to the This year the Intermediate athlete Maritime finals to be held next t UNB is enjoying unprecedented opportunity to partake in sports In-

> Summary: UNB 28-Buchan 2, tramural basketball, hockey and Gamer 8, Murphy 1, Campbell 4, bowling have had a record numper of participants, in which the Engineers supplied 10 teams. Con-Mt. A. 86-Robinson 6, Lounder. gratulations are certainly in order for the physical department for such

31, Tucker, McCoy 14, Russell: grand job of organization.

The junior tilt proved the better The following 12 men received game of the evening, with the hardootball letters at the A.A. meetighting UNB Juniors edging the ing: Capt. Bob Weir, Len Wade, Cy Mounties' younger squad 54 - 51. point deficit from the first game Jack Grant, Art Plummer, "Shep" and never ceased attacking Captain Sheppard, Ken Fulton, Fred Dun- letics by the student body, especial-20 points and observers felt it was

In 1941-'42 car Athletic Director sire to get in the game still seems Junior Varsity's best game of the w L D Ptr 9 1 0 13 pleasing 84 lb. kids Johnnie Vaughn ing trought together the crowd-9 1 0 13 pleasing 84 lb. kids Johnnie Vaughn year. UNB led from the opening Kelly was charged from right to left to be there. Whatever your favorite

Both titles held by UNB for years ow go back to the 'Tantramar. from St. Stephen led his team to a ago. Summary: Mt. A.-Montgomery

er 11, Edgett 4, Black, Parker 11, G. tet at Sackville with 31 points. Marshall 4. son 20, Jacobson, Blackmer 2.

2. Church, Glass 4, Havnes.

BOWLING LEAGUE The standing up until Feb. 26 is

nonth.

National League.

American League Bunnies (game in hand)

Residence Hares (game in hand) Bishop has high single

Age 22) .. - Pete is a westerner coming from Winnipeg where he began very discouraging and hard to take his brilliant hockey career. In Montreal he played on a Juvenile tearn, (I KNOW) but it can be short lived Junior Royals and Senior Royals. In 1933-'35 Pete came to the Mari- if you will give yourself a fair times and joined the Charlottetown Abbies of the Big Four. He turn- chance to come back. ed pro with St. Louis Eagles of the N.H.L. in Jan., 1935, going to You have proved to me the

ing a carry-over from the Intermediate Series FROM PETE

UNB's strength soon dwindled.

The game was fast and clean with

P. C. KELLY "THE COMEBACK TRAIL."

I have been very much impressed with the enthusiasm shown in all ly the veterans who have had to attle the comeback trail. The de-

joyed, but will now require a little Red headed Gordie Eastman more effort than it did a few years

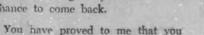
3, Chapman 8, E. Marshall. Tuck- decisive victory over the UNB guin-Not very long ago most of the Gordie just couldn't miss Saturday boys had to drop everythig and UNB:-McDougall 12, Gibson, night with his long cne-hand thrusts. think along more serious lines. A Miller 5, Donald 6, King 5, David- Constant practice with perfect co- few of you no doubt had the opporordination have made him outstand- tunity to keep active in athletics ing in baseball, basketball and hoc- during your service life. The majority would find it difficult to get

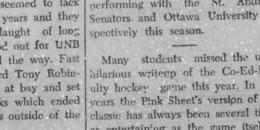
the boys together for the games you Congratulations are in order for enjoyed so much and took for Mount Allison Basketball teams on granted around your own home their brilliant display this year. tofn. With the new life and change Coach Bill Crawford's strategy of environment you soon shelved Pts. cracked the UNB attacks and we of the idea of a ball game after your 10 the Engineer Bruaswickan feel their working day was over even if facilities were available, consequently victories were descrying. other habits soon formed.

The University Ski Team is away You seldom realized how much 2 this week-end collecting laurels at good those after school games did 2 Laval in the invitation Ski meet. On for you until a few years later when March 2nd, the Intercollegiate Swim- the opportunity to play returned 61/2 ming meet will take place at Acadia You went out on the field and found 61/2 UNB has a strong entry. the spirit willing but you were not

Bates College basketeers of Lewis- physically fit to start where you left 1/2 night at the local gym. They have was so great that you allowed your ton. Maine. will be on the seen tothe a fine record and one should see a were too old and soon dropped the good brand of basketball.

idea of participating in anything that increased the heart beat. That period of finding the going tough is







ferent then come to the city's smartest men's store.

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PLAYING COACH PETE KELLY-Right Wing (5'101/2"; 175 lbs.; Timers-Cec Garland, Bob Smith.

Detroit Red Wings in the fall. While Pete was with them they were. still love to play and can enjoy ath-N.H.L. Champions in 1936 and 1937, winning the Stanley Cap both letics today as you did in your years also. Between then and 1941 he alternated between the Pitts- 'teens. If our department has failburgh Hornets and the Wings, going to Springfield, and New York ed to make room for the activity Americans in 1941 and 1942. From there Pete went into the service. you would enjoy participating in Every one knows him now as our Athletic Director. MGR. WILL ROGERS comes from Bathurst and is a Junior. He welcome your suggestions.

was appointed Assistant Hockey Mgr. but became Mgr. on resignation of George Ruickbie.

don't fail to contact us. We will

P. C. KELLY. Physical Director. Page Eight

THE BRUNSWICKAN

Friday, February 20, 1948;

**Point Lead** 

# PUCKSTERS TAKE N. B. TITLE, WIN THREE LOCAL GAMES **Beat Mt. A. In First Game**

#### 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 Charlettetown 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 suc-· ceeded 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 vic tories 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 day, Doug Rouse defeated A. L. and blacks as the first York play- Kelland in the final after the two off 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 6-4. Hicks got two goals and two as





Almost buried in defending play- Saturday's game with Mount Alliers, skyscraper George Garner (33), son. Attempting to stop his shet the Lady Beaverbrook Gymnasium makes another of his successful field are Ed. Cameron and Gordie Eastgoals in the above picture taken at man.

#### Foresters and Pops Intramural

In a table-tennis tournament Monhad eliminated a field of 24

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



gue and Intercollegiate games.

Fight to a Tie In the fist 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.

American League, opened with goals day night at the armouries. Murphy, a new guard for UNB by Pete Sewell and W. Kelly (aston) evened the score after seven minutes in the third.

#### **Co-eds Win Game** Take Four **Lose Series** Senior Varsity took the lead over In the preliminary game on Sat-Mt. A. at the Beaverbrook Gym 29urday afternoon the UNE ladies 25 in the first game of the home-

**Basketball Series** 

basketball team defeated the Mt. A. and-home series or the N. B. Intergirls 14-9, but lost the home-andcollegiate Basketball crown. nome series. Ted's men will travel to Sackville It was another close-checking,

this week-end to fight the other half hard fought game with the local of their contest with the Gamet and girls leading 6-5 at half time. In Gold, carrying only a small margin 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

The line-up for UNB :- Baxter, 4. Wylie 10, Quinn, Graham, Robin-

JAYVEES LOSE

Of

In the first of a home-and-home total point series for the N. B. Junior Intercollegiate crown played at

The last half resembled basket-Saturday last, the UNB Jayvees ball only at times, and the type of Junior Varsity five by a score of 31- play suited the Mt. A. attack as they bowed to a fighting Mount Allison outscered Owen's crew 17-9... Referees Johnny Vey and Jerry

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, MacDou-

gall 3, Glass 2, J. King 2.

Army Wins Again A fast drive by Canavan and full game time.

Smith, and poor shooting by UNB Line-ups: Varsity gave Fredericton Army a UNB:-Moore 2, Garner 7, Camp-Junior Foresters, champs of the 41-36 win over the Hillmen Tues- bell 8, Smith 7, Jardine 3, Atkinson

2. Gaynor, Buchan.

Sport Highlights

Mt. A .:-- Ketchum 4, Can

bell and Smith leading the way,..

UNB took command from the start

and by half time the locals were

Lockhart were kept busy calling

fouls, and UNB garnered 7 of their

9 points on free shots. Tony Robin-

son, Mt. A.'s hard-working guard

left the game on his quota of per-

UNB missed the scrappy playing

of Roberts, who was ineligible, but

'Moe' Atkinson substituting for him,

played an outstanding game for the-

sonals, with three minutes to go.

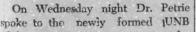
leading 20-8.

**VOL. 67** No. 22 \$12,235 Raised Dr. Petrie Organiz The Associated Alumni campa

the UNB War Memorial Fund to Hall into a student centre opened under the chairmanship of Dr. Ad ton. It was reported that \$12,235

the end of the first day of the c the Boxing Meet and the Bates held recently at UNB were donate neering Society, the U-Y Club and tentions 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 Alurant and organizations that feel inclined to donate to the War Memorial. Dr. J. R. Petrie, President of the UNB Associated Alumni has just returned from an organizing trip to Ontario and Quebec where he helped form commit- pile tees and where he attended the campaign drive banquet in Montreal talk also attended by S. R. Noble, Gen-Bru eral Mapager of the Industrial De-Dir velopment Bank and honorary treasurer of the War Memorial fund, and part by the Hon. M. F. Gregg, honorary chairman of the fund drive. 194



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tak

for the total point series. Jayvees will go with them. The game was the roughest of the year, following the pattern of scoring for UNB with 10 and four competition with Mt. A. There were 24 personals called, Mt. A. commitpoints respectively. ting 15 of them, with the Hillmenmaking good on 11. There was no sign in the first son, Vail, Mooers, Monteith, Spicer. half of the highly touted play of the Mt. A. ieam. With Gamer, Camp-

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

#### Marvsville

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

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 UNB Varsity hockey players' scores, Thursday when they trounced Capiput them away ahead, 9-4, at York play-offs: Arena in a regular game of the

Hicks York Intermediate League. Don Hicks again led the victors Bedard with three goals and two assists. Ted Ryan Bedard scored two, with one assist. Sansom Menzies get two for Caps. Spear

UNB took the lead with two goals Kellie but were quickly tied up. Before Gaudet the end of the period they were two Plummer in front again at 4-2. The second Sevel period added one goal to each side Dickson and the final secsion saw the college Steele men go ahead to outscore their op- Sears Ballantyne ponents four to one,

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

Shown above is Ted Bedard, o than overcome the slim margin our UNB's Hockey punch-line. Second team has in the total point series. high scorer in York League, Ted has The first game got away from made 12 goals and 13 assists in Leathe referees at times and they missed quite a few minor infractions.

The table below is a record of Worthy of extra praise for their work for the home team were tals in a third period offensive which games, not including exhibitions and George Garner, the new centre man, who played an all-out game while

Pts. retaining his sense of humor, and 35 'Moe' Atkinson, who, after sitting on 25 the bench most of the year, played 20 an excellent game for the full 40

The climax of the big sports day 8 Saturday was a fitting thriller in the 8 final of the N. B. Intercollegiate 6 Hockey Section. Sammy Eansom 5 doesn't pack much weight but cer-5 tainly has the scrappiness that will 4 bother the opposition no end.

sist Baxter) in the first period. Bob starred as high point man of the Robinson 1, Eastman 5, Tucker 1, Mackie made it 2-1 at the end of game with 14 points. Jardine got 8, Russell, Anderson, McCoy 7, Lounthe period. Day (assist by Charl- Campbell 6, Smith 3 and Gagnon 2. dey, Parker.

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Club at Moncton concerning the campaign program for funds. At the meeting 61 UNB graduates elect- In ed 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 Co meetings of 50% of the ERC reps, (2) Co elections of Freshmen representatives to be held during the first three | hel weeks of October instead of after Christmas. Among the beefs presented at the meeting was that of de Walter Fleet's that Chemistry lect- un ures of the Freshmen class are not int suitable to members of the class and W that slides should be abandoned and | tin smaller classes with text books would tio be appreciated by the students. A "hot" discussion concerning initiation the was tabled until the next meeting a this coming Monday night.

MacKenzie Chapter Votes \$25 The MacKenzie Chapter of the me U-Y Club has voted \$25 for the Stu- no (Continued on page seven)

in Intercollegiate and York League Goals Assts. 22 13 13 12 14 13 minutes. 11