ay, February 6, 1950

SATURDAY FEB. 11 LS'

SON

# PHOTOS

VOL. 70.

campus.

bout 100 grads of ients.

ty of time to have and obtain your e Year Book.

in a week follow-

our window dis-

TUDIO

CLEANING DERING 77

ASH and CARRY



proposed by J. Harry Moore. During the evening many good of weeks, a very eminent engineer

WASSAIL SETS EVENTS ROLLING

attempt to get the engineers as a body to know each other

Monday saw a large banner unfurl over the front of the Civil Engineering building to herald in another "Engineering Week" at U.N.B. This week was established years ago in an

The Wassail set events rolling on Tuesday night. Castle Hall rock-ed as festivities reached a high pitch. Starting at 6.30 with a de-lectable chicken dinner served by the Pythian Sisters, the Wassail proceeded to accomplish it's nur-brock Hotel in the based of deaver-brock Hote the Fythian Sisters, the Wassail Ball Room at the Lord Beaver-proceeded to accomplish it's pur-brook Hotel in the heart of down-pose as it spread a warm and town Fredericton. Music supplied friendly "glow" over those attend-by the well-known Criterions will ing. Dr. E. O. Turner entertained the engineers with an informal talk which was followed by a toast proposed by J. Harry Moore. As an anti-climax to this week

During the evening many good stories, engineering feats, and jokes were swaped. Towards sunrise as the Brunswickan went to bed the last of the merry-makers were seen struggling towards their homes and pits in order to recuperate. Thus to give these last few a chance to rest, Thursday of this big week has been set aside as re-cuperation Day. of weeks, a very eminent engineer will appear on the campus Feb-ruary 20. Mr. John E... Armstrong, in his official capacity as president of the Engineering Institute of Canada, will speak Monday after-noon in the Memorial Hall. Noon in the Memorial Hall. As Chief Engineer of the Canadian Pacific Railway System, he is a man whom all students should be an-xious to hear. Lectures and labs

As the final effort of the week, have been cancelled for the event.

# better and to foster a feeling of unity and friendliness on the Third Guest Speaker

FREDERICTON, N. B., WEDNESDAY, FEBRUARY 15th. 1950

ENGINEERS PLAN BIG WEEK

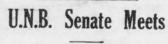
BRENBBRISE

BRUNSWEKAN

Dr. Linus Pauling

Once again U.N.B. is to be honored by having an eminent Canadian speak to the students on Wednesday, February 15. Mr. G. V. Ferguson, editor of the Montreal Daily Star and well known C.B.C. commentator, will be present on our campus today. Mr. Ferguson will be the third guest speaker to appear up the hill in honor of U.N.B.'s 150th anniversary celebrat-

Mr. Ferguson will present a special lecture in the Memorial Hall this afternoon at 3 p.m. All students are cordially invited to hear him speak on "The Newspaper in a Free Society."



Yesterday marked the opening of ing. As in years past this will be trated his argument with a variety erial. the Senate's most important meeting of the year. At press time details of the agenda were not yet available.

In a lecture on "The Place of Chemistry in Medical Research" in the Memorial Hall on Tuesday evening, Dr. Linus Pauling impressed a capacity audience with the importance of pure chemical research to the field of medicine. Dr. Pauling who is president of the American Chemical Society and head of the faculty of chemistry at the California Institute of Technology in one of the number of outstanding lecturers to be on the Campus this year in observance of the one hundred and tiftieth anniversary of the university.

Addresses Capacity Audience

The president of the University, Dr. Trueman, in introducing the speaker, listed the impressive array of doctorates conferred on Dr. Pauling by many of the leading universities in the World, in addition to which he mentioned that the speaker was the recipient of the highest civilian award attainable in the United States, the Medal of Merit. Dr. Argue expressed the official thanks of the assemblage to Dr. Pauling.

In an hour-and-a-half talk which | pounds." Beginning with the ar-

was thrown open to the towns- rangement of the carbon molecules people as well as the students and in a crystal, the speaker proceded faculty members of the university through the theories of half-valence, Dr. Pauling was at once technical metalic orbitals and resonance phe and interesting as he as he brought nomena to an explanation of the his wide knowledge of chemistry to structure of the molecules of a focus on the problems common to metal. Dr. Pauling managed to chemistry and medicine. He ad- maintain a keen interest with a vocated a common undertaking in crisp, staccatto lecture style and he University of New Brunswick the field of research for the mutual illustrative sketches and slides des-Senate's regular mid-winter meet- betterment of the science and illus- pite the esoteric nature of his mat-

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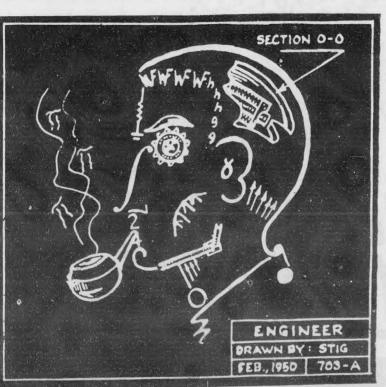
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#### G. R. RUICKBIE, F/L O.C. 333 (Rotary) Sqdn. R.C.A.C.

Engineers Train Youth

Perhaps many readers will won- adian Air Cadets. The majority of is headed by a board of directors, der what "youth moevments" have officers and instructors engaged and the chain of comamnd descende to do with an Engineering edition in the work of the local Fredericton to Provivncial and regional commitof a college newspaper; even a Squadrons, are graduate, or potencasual perusal of the following art- tial graduate Engineers, and R. C. In the case of the local squadron, icle will indicate why. The author A. F. veterans. icle will indicate why. The author A. F. veterans. will confine his opinions and facts to the youth movement with which he has been connected for the past three years, and attempt to point the R. C. A. F. The primary aim of the Royal Canadian Air Force the aims of the organization Air Cadet training is that of citi-and the graduates, potential grad- zenshin training to some 14,000 ministrative and training prouates, and the undergrads, who are Canadian youths. The movement is gram. Besides providing uniforms



self had made along this line. connected with the organization, particularly engineering personnel. The youth movement involved in this article, is the Royal Canneeds of all squadrons within their area.

Training for Air Cadets is divided into three phases, phase one for the first year Cadets, consists of training in Leadership and Morale, Drill, Sports, Navigation and Meteorology, Flying Hygiene, Airmanship, History of the R.C. A.F., etc., a total of 105 hours.

Phases two and three, for second and third year Cadets, also includes 105 hours of training, th difference in the program being that special subjects such as airmanship, photography etc., are accenuated rather than some of the general subjects. Besides having the advantage of equipment at hand to work with, which the normal lad cannot afford to buy, many other advantages lie in Air Cadet training. Hobbies, such as photography and model aircraft construction, and sports which include basketball, baseball and hockey, are a self. part of the Air Cadet curriculum.

part of the Air Cadet curriculum. Exchange visits to other Air Cadet Squadrons, also assume a prom-inent ppart in the training pro-gram. Other material bénefits, provid-ed for by the R.C.A.F., include the annual period of two weeks at sum-mer camp, at an R.C.A.F. Station;

of examples and informative slides. In his final address, Dr. Pauling The technical aspect of his talk expressed pleasure at the hospitalranged from the formation of fat ity shown him on his visit and at bodies in the plasma of the rabbit the opportunity to visit and lecture to the hereditary nature of sickle-anaemia in negroes. As an illust-Following Dr. Pauling's lecture

ration of the work that is to be on Monday afternoon, Dr. D. A. done Dr. Pauling cited the wonder- Keys, Vice-President of the Nationties, and local sponsoring bodies, drugs of the age, the operation of al Research Council and officer in which is as yet unknown either to charge of Canada's Atomic Energy chemists of medical men. He plac- Department at Chalk River. Oned the acquisation of this know- tario, spoke on the Chalk River ledge in the hands of those who project. This address was by spec would discover the complex struct- ial arrangement as Dr. Keys apure of the molecules making up the peared in Fredericton by invitation living organism, and went on to discuss the progress which he him-Dr. Keys spoke of the Chalk

River Community, of some of the He termed the advances made by less secret technical aspects of the

science in the understanding of the plant, and also of the recent dematerial world in recent years "re- velopments there. He stressed the volutionary" and promised even fact that those employed there reater steps in the years to come. were not concerned with the de-In an address Monday afternoon velopment of arms primarily, and to the students of the Arts and extended an invitation to university Science Faculties, Dr. Pauling de-livered a talk on "The Structure might seek to be employed with of Metals and Inter-metalic Com- the project.

Flying Scholarships to 250 Canad- they were taking time out ror par-ian Air Cadets, for which each ticipation in the movement. Any-Cadet receives at least 15 hours of one who has an interest in Canada's flying training and 60 hours of future and the youth who will some ground training at a recognized day help to direct Canada's desflying club; and exchange visits tiny, can readily see the advantages to the United States and Great that any lad can derive from such a Britain. Each year, 25 Cadets are training program, to fit him for chosen to visit the U.S.A. and 25 the task. One of the prime reto visit Great Britain; these trips, quisites of any engineer is to take lasting for three weeks, consist an active part in the social and of visists to various allied military welfare activities of the community establishments, visits to various in which he lives; in what better historical sites of interests, and way could he serve this community entertainment of a wide and var- and in what better way could be ied nature. These benefits involve the necessary training, than to aid no expense to the Air Cadet him- in the promotion of such an ideal movement

The first Squadron with which one is connected, seems to hold an attraction and an interest from which one cannot seem to divorce himself. For instance, F/O Bob Fownes, E. E. class '49, performed an exemplary job, first as an aero engine instructor and then as Eq-( Continued on page 8)

Page Two

### BRUSSWICKAS

Established 1867

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FREDERICTON, N. B. FEBRUARY 15, 1950 No. 12 Vol. 70

The Engineer and Education

A general shake-up of the engineering courses has been apparent in eastern universities in recent years. A broader outlook for and an appreciation of culture and of the humanities by the ly recognize the room. engineer were the purposes demanding the changes that occured.

The education of the engineer, as it might be called, is not were doing, thinking and worrying merely a whim of a few college professors. Leading engineers, What were we doing? Walking, both in Canada and the United States, realized that the univer-sities were turning out a great many engineers but that these a strange new vehicle called an road" with gusto and enthusiasm, engineers were basically technicians rather than true profes- automobile. Those were the days and joy was unrestrained. We had sionals, a stature which had already been legally recognized as when we didn't have to decide how better not forget that song. If we theirs. They noted, though it took them a long time, that the went by Railway. It was even fash- will be singing it again. In Siberia! young engineers arriving before their desks could readily dis-cuss and solve most engineering problems but were left gaping shares in the Railway Company. if asked to discuss world markets, the state of politics in Ottawa, slum eradication, the problem of handling men, or the heard of the welfare state. Webtraining of Canadian youth. These everyday worries, if they ster knew the definition of subsidy, be such, are best handled by the economist, the sociologist, the psychologist and the educationalist. Vet they affect everyone psychologist, and the educationalist. Yet they affect everyone out the votes. Now we are not only especially the professional who, as an educated man, is so often in danger of being atomized, but called upon to remedy the ills of the world. How can he even worse, we are being so over-supply a remedy if he has no knowledge of the ill? supply a remedy if he has no knowledge of the ill?

As a result of their complacent qualities art, music, and lit-What were we thinking about? erature help a man to appreciate the world about him and hence It wasn't how to save enough money to enjoy life on earth; a study of his fellow being helps him to understand human grandeur as well as human frailties and as a result leads him to a better understanding between himself a result leads him to a better understanding between himself gether to help your neighbor build and his fellow man and hence to the ultimate Utopia sought by his house. It was a quiet, comforthim for so many centuries. Thus a general knowledge of the able existance. There had been no majority of human interests besides a sound, detailed, complete, technical knowledge of his science is required of the professional engineer if he is to be the builder of mankind's future.

#### THE BRUNSWICKAN

.ng the grip on their trigger finger-or-heading for Baffin Land to study the migratory habits of the Blue-Billed Ki-Ki bird-or-but the list becomes much too lengthy.

Some of these gentlemen, believing that they have finally Some of these gentlemen, believing that they have finally Monday, Feb. 13-Founders' Day, found the correct terms and phrases that adequately describe 1950, was celebrated in the Meman engineer, have presented their definition to men of the legal orial Hall at 8.30 p. m. world, only to have their masterpiece shot as full of holes as a hesitant bride-groom at a shotgun wedding.

Herewith is what we believe to be one of the better defin-itions to come to our notice in some time. We print it with sincere appreciation to Mr. Harry McCleave of the St. John Dr. R. C. Wallace; the payment of staff of the New Brunswick Telephone Co. Ltd.

'An engineer is a person who passes as an exacting expert the Hon. D. L. McLaren, P..C., who on the basis of being able to turn out with prolific fortitude is the visitor to the university on infinite strings of incomprehensible formulae calculated with behalf of His Majesty, the King; microscopic precision from vague assumptions, which are based the chairman's remarks by the on debatable figures taken from inconclusive experiments carried out with instruments of problematical accuracy by persons "The Jest of Hahalaba" by Lord of doubtful reliability and questionable mentality for the avow- Dunsany, which it is understood ed purpose of annoying and confounding a hopeless chimerical had a cast of three professors and group of fanatics referred to too frequently as engineers".

Hmmmm-Webster might object, but us? We like it.

(period).

living at the mid-century, above

### **MID-CENTURY** REMINISCENCES

#### by E. O. Turner Dean of Civil Engineering

We are at the mid-century. Every-one is talking about it. Certainly it is in order for the Engineer to take account of stock, for he, as much as anyone, has been rearranging the furniture until we can hard-

Although he hates to admit such anything dreamed of at the centhings your Dean is old enough to tury's start. But it is against such answer questions as to what people a grim background, and on such a were doing, thinking and worrying treacherous footing, that we fear that every step may be our last. In 1900 we sang our Engineer's to get from place to place. We don't observe every precaution, we expectation that when your child-ren reach the year 2000, through your efforts they will enjoy an in-creased standard of living, without the spectre of disaster in the background.

Wednesday, February 15, 1950.

Founders' Day, 1950

The following were the highlights of the programme. Founders' Day Address by the disthe quit rent of one penny to the Lieut. Governor of New Brunswick, president of the university, Dr. A. W. Trueman; and a one act play

NOTICE

one student.

.Most of the graduate write-ups war of consequence for thirty years. for the 1950 year book have been What were we worrying about? received. However for those who Certainly we didn't expect to shuff- have not complied with our request le off this mortal coil by being atomized. Why should we worry the appointed class collctors or to anyway? We didn't have to sup-port any psychiatrists in those days. extending the deadline to the end All over the world people were not of February.

afraid to stand up and be counted However this deadline is definite on any issue. Today you shouid as all graduation photos will be in know your geography, or you will our hands at this time. Only those only stand up to be counted out photos which have an accompanyng write-up will be used in the

We have created a standard of 1950 Year Book. 1950 Year Book Committee

DEAD OF NIGHT

DEAD OF NIGHT, produced by RANK-EAGLE-LION, is the forerunner of the famous Somerset Maugham film QUARTET, in that it consists of a series of stories connected only by the psychology trend involved. One of the stars in this magnificent film is Michal Redgrave, who plays the part of a ventriloquist who is obsessed by This is not a very cheerful mesthe idea that his dummy is a real sage. But it is given in the hope and person and that he himself is only a doll.

This picture is an adventure in suspense of the type that has made Hitchcock famous. It will be enjoyed by all who see it.

7.30 P. M.

accounts for th ada's foreign tr the United Sta for all Canadian ion services, and cars loaded in largest contribu mum, ten percer and services. less than one f ln view of curr manufactured f with one partic

Newsprint Pape ed at Dalhousie, is made from sp wood. The wood the mill by wate still on it, in These are made u logs from the bo hydraulic pack-la

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a set of barkin measure twelve are forty-five feet about in a horiz and-a-half revolu The logs enter a barking drums, a against each ot bark is removed. have reached the drum, and as the pass through a wa washes them cl dirt. These logs use, either in the age in the yard, t out the winter m is frozen.

The bark from and burned in a ing plant, which waste material total steam use plant The cleaned right away, is th goes to the sulpl 80% to the grou We will now foll wood through th describe the di given to each p The manufactu pulp is exactly v plies. It's a mee of the fibres, one abrasion. There of machines used they all operate ciple. The type in Dalhousie is ing grinder, m Ltd. of Brantfo grinding-wheel and is composed borandum grit these blocks are

Editors Note-Alt

Technical Report

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### Wednesday, Fel

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### Dedication

It has been my pleasure to be President of the Engineering Society during this year and, as it has to all previous presidents, my time has come to say something for this our Engineering Brunswickan.

This year U.N.B. will graduate more engineers than ever before in her history; the second largest class of Civil Engineers in Canada (excluded only by U. of T.); the fifth largest group of Electrical Engineers in Canada; and has the distinction of graduating a higher percentage of student veterans than any other University in Canada (82%).

For the members of these two groups I express the wish that we may be not only the largest group of engineers to graduate from U.N.B. but also that through our efforts we will live up to the standards set by our predecessors.

I should like to dedicate this issue of the Engineering Brunswickan to our late classmate Lt. R. L. Hunter with a sincere sense of regret that he is not here to share in our activities.

R. G.

### **The Engineer Defined**

For years engineers and other astute types have been searching for a definition of the term "engineer" which will clearly define for all time just what an engineer is in, say, twenty-five words or less.

So far nobody has done it. Learned gentlemen who have pondered on the subject for some time have been observed, with a frustrated look on their face, to do very erratic things such asholding a revolver, loaded that is, at their temple and tighten-

Wednesday, February 15,

"DEAD OF NIGHT"

**PRODUCED BY RANK-EAGLE-LION** 

TEACHERS COLLEGE



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GAIE 554 Queen "FOR

y, February 15, 1950.

### ers' Day, 1950

Feb. 13—Founders' Day, celebrated in the Memat 8.30 p. m.

owing were the highthe programme. Day Address by the dis-Principal and Viceof Queen's University, Vallace; the payment of nt of one penny to the rnor of New Brunswick. . L. McLaren, P..C., who or to the university on His Majesty, the King; an's remarks by the f the university, Dr. A. an; and a one act play of Hahalaba" by Lord which it is understood of three professors and

#### NOTICE

the graduate write-ups 0 year book have been However for those who mplied with our request their write-ups to either ted class collctors or to ook committee, we are the deadline to the end

this deadline is definite uation photos will be in at this time. Only those ch have an accompanyip will be used in the Book. ) Year Book Committee

#### AD OF NIGHT

F NIGHT, produced by LE-LION, is the forethe famous Somerset film QUARTET, in that of a series of stories only by the psychology lved. One of the stars gnificent film is Michal who plays the part of a st who is obsessed by at his dummy is a real that he himself is only

ture is an adventure in f the type that has made famous. It will be enll who see it.

### HT" LE-LION ΉE

Wednesday, February 15, 1950.

of interest.

newsprint.

on to a conveyor.

**ENGINEERING-AS APPLIED TO THE** 

MANUFACTURE OF NEWSPRINT

5:5:6

by Jack Flowers

less than one fifth of the annual wood consumption of canada.

In view of current national interest in the sale abroad of goods

#### THE BRUNSWICKAN

accepted stock passes through the ters, where the large chunks of This nozzle is open about half an fine screens. Here it goes through wood are removed; then it flows to inch, so that we have a rectangular perforated plates, is washed off, centrifugal screens, where the sul- opening half an inch high, and collected in tanks, and pumped to phite fibres are screened again and eighteen and one feet long. The yet another process of elimination through thousands of 1/16th inch liquid paper flows through this from rejected stock by centrifugal copper plates. These machines are screen, known as Fourdriner wire screens. The perforations in these called fine screens. The slivers The excess water drains through screens are .065 inches, and only and small uncooked chips are re-stock which comes through these moved here, and are a waste. The criss-cross screen on the wire. The Editors Note-Although this is not the winning paper of the annual plates is used to make newsprint total waste from screening amounts short ground-wood fibres give the paper; the rejected stock is, once to about 41/2% of the pulp made, paper bulk, while the long sulphite Technical Report Contest held each year by the Engineering Society, again, passed on to the wrapper and is used in the wrapper paper fibres bind the mass together, and it is among the better ones. It has been printed due to its wider scope mill.

filters, or deckers, which remove The 131 pulp and paper mills now in operation in Canada some of the water, and thus inconstitute an industry that stands first in employment, in The stock thus thickened, is then wages paid, in value of production, in capital investment, and stored in large tanks, with propelas a buyer of goods and services. The industry makes Canada lor agitators to keep it constantly ates the pitch, or any stickiness of ture. The web of paper is then the largets exporter of pulp and paper in the globe, and pro- in motion, until it is needed on the duces three of every five newspaper pages in the world. It paper machines.

accounts for the fifth of all exports—the largest item in Can-sulphite mill are treated chemicalada's foreign trade—and for more than a third of all exports to 1y. They are prepared for this prothe United States. It uses half the electric power generated cess by feeding them into a machfor all Canadian industry. It's the largest user of transportat- ine called a clipper, which is a ion services, and accounts for more than one of every ten freight heavy revolving disc equipped with cars loaded in Canada. The pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to national wealth and generation to the pulp and paper industry is the largest contributor to patient to the pulp and paper industry is the paper industry is the pulp and paper industry is the pulp and paper industry is the pulp and paper industry is the paper industry is largest contributor to national wealth, and generates, at a mini- the logs so quickly that a stick is The fibres of the sulphite pulp it, and then runs into the dryer mum, ten percent of the total annual value of all Canadian goods and services. It manages and conserves its forests, and uses onds. The chips are pieces of are long and slender—almost a onds. The chips are pieces of an inch long, and very des five feet in diameter and nine wood about one inch long, and an fine. This long length ensures ders five feet in diameter, and nineeighth of an inch thick. It is nec- strength to a sheet of paper, as teen feet wide. These revolve on essary that the wood be in this these fibres mat together in a horizontial axes, in roller bearings, manufactured from Canadian pulpwood, this paper will deal form for the chemical treatment, criss-cross manner, forming a and can attain a peripheral speed with one particular phase of the industry-the manufacture of so that the cooking liquor can pene- screen on which the shorter ground- of fifteen hundred feet per minute. trate the wood easily and digest, or wood fibres are caught and lie, Steam is injected into these drying

Newsprint Paper, as manufactur- inder 64 inches in diameter and 54 binding material between the wood it is formed on the paper machines. rows, one above the other, in such ed at Dalhousie, New Brunswick, inches long. Two of these grind- fibres, without trouble or subsequ- The sulphite pulp, and the ground- a manner that the cylinders in the is made from spruce and balsam ing wheels are mounted on one 10 ent waste. wood. The wood is delivered to inch shaft, one on each side of a

the mill by water, with the bark motor: thus, it's possible to run per, the chips are screened; all the mounts of both pulps are allowed then down to a bottom drying cylinder still on it, in four-foot lengths. two grinders from the one motor. large pieces are removed, crushed These are made up into booms, and the motors used are 2400 and 3600 and rescreened, and the sawdust gether with broke paper: broke der, and so on, to the end of the logs from the booms are fed to a horsepower, and run at 225 rev- and other dirt is removed as waste. paper it the name given to paper rows. Long, continuous canvas dryhydraulic pack-ladder, and dropped olutions per minute. The rough This sawdust waste goes to the surface, so essential for the grind- bark-burning plant mentioned pre-The conveyor carries the logs to ing wheels is maintained by a hy- viously, where it is burned. The a set of barking drums. These draulically operated sharpening de measure twelve feet in diameter, vice, on which is mounted steel vated to large bins located under vite druger to help in the druger are forty-five feet long, and revolve burrs: these move constantly across the roof of the digester building, and the whole lot is mixed with any possibility of bulging. about in a horizontal axis at four- the face of the grinding stone. and stored there until dumped into

and-a-half revolutions a minute. Above the grinding wheels, sup-The logs enter at one end of the plying them with a constant flow with the cooking acid. The cookbarking drums, and tumble and rub of logs, in the magazine-a metal ing acid is produced in the mill by have reached the other end of the magazine, it passes through to the limestone. The digestors are large drum, and as they tumble out, they bottom, to be mechanically placed steel boilers lined with brick into ures 223 inches, or slightly more against the grinding stones below which the chips are dropped until -the axis of the log lying in the the digestor is full: the spaces bedirt. These logs are now ready for same line as the axis of the stone : tween the individual chips are filluse, either in the mill, or for stor- fresh wood is then piled into the ed with cooking acid. The digestage in the yard, to be used through-out the winter months when water charged and full of logs.

Meantime, a large metal shoe, erature rises, and a pressure of The bark from the logs is dried, and burned in a special bark-burn-ing plant, which produces from this

mill. The good stock from these give it strength.

The accepted stock is run over fine screens contains a lot of water. Since it costs a lot of money to which is removed by filters: the evaporate the water, as much water thickened pulp drops into chests as possible is removed before stock treated with a solution of alum boxes, placed under the wire are dissolved in water . . . this elimin- decigned to draw off excess moisthe pulp resulting from improper pressed between rolls in a manner removal of the liquor when the pit similar to a large clothes' wringer. it will flow onto the paper mach- twee the nip of these rolls, and proines without any trouble.

dissolve, the sugars, and lignin or closing up the sheet of paper when cylinders, which are placed in two water, resulting in liquid paper.

flow through a box, so that there slightly over 1400 feet per minute, are no eddies or surging, and then which is among the highest rates against each other until all the box measuring 51 inches by 45 in- a chemical process involving sul- through a wide nozzle, which ex- of speed which paper is being bark is removed. By this time they ches. As the wood is fed into the phur in the form of brimstone, and tends the full width of the machine made. In order to carry the wet -in the Dalhousie Mill this meas- web of paper through the dryers

make coarse wrapper paper. The pumped to coarse screens or knot- than eighteen and one half feet. accepted stock is separated diameter holes, perforated through opening out to a continuous wire

Page Three

1 1

for temporary storage, where it is goes to the dryers, so vaccuum was washed. The alum also hard- A continuous woolen blanket felt ens and prepares the pulp, so that carries the wet web of paper betects the paper from damage, while All the logs have now been turn- helping to remove even more of the ed into groundwood pulp, and sul- water. After passing through two phite pulp, ready for the paper sets of rolls like this, the wet web of paper still has 66% of water in ent waste. After passing through the chip-uring machine, where the exact a-top row come between the cylin-ders in the bottom row. The perto pass, after which they mix to- then down to a bottom drying cylinwhich was not properly made-it's er felts follow the progress of the mixed with water, and returned to paper, over these dryers: their be made over again. Some colour- function is to hold the web of ing dye is also added to colour the paper against the dryer, to help in

> In the Dalhousie mill the paper This liquid paper is allowed to machines have operated at speeds (continued on page seven)



7.30 P. M.

waste material one-tenth of the total steam used throughout the plant

is frozen.

pass through a water shower, which

washes them clean of bark and

The cleaned wood, to be used right away, is then divided: 20% goes to the sulphite pulp mill, and 80% to the groundwood pulp mill. We will now follow the path of the wood through the two mills, and describe the different treatment given to each percentage. The manufacture of groundwood

pulp is exactly what the name implies. It's a mechanical separation into the wood by friction against of the fibres, one from the other, by the stone abrasion. There are several kinds of machines used for this work, but they all operate on the same principle. The type of machine used through canals to coarse screens, while still others make a paste or in Dalhousie is a magazine load- called Bull screens. These screens glue with it. The digestor coning grinder, made by Waterous are rotating cylinders with 3/16ths taining the finished cooked wood is Ltd. of Brantford, Ontario. The of an inch perforated plates mount- blown by pressure being released grinding-wheel used is artificial, ed on the outside surface. The and is composed of blocks of car- stock enters the cylider at one end, line at the bottom. When the diborandum grit of different sizes; and rejected stock is passed through gestor is empty, all of the pulped these blocks are bound and cement- to the other end: this rejected stock ed on a metal frame, to form a cyl- is further refined, and used to

the top of the digestor-the exces of the grinding stone. There are two hydraulic rams for each grind- gas being expelled through special er, mounted on either side of the pipes.

grinding stone; by grinding logs After 71/2 hours of steaming or on both sides of the stone, full use cooking, the wood in the digestor is made of the grinding surface. has been reduced to a pulp by the Under each grindstone are water acid dissolving the lignin or bindshowers, which wash the pulp fidre ing material between the wood from the stone into a shallow pit, fibres: the end of the cooking proin which the stone is submerged cess is noted by testing some of three or four inches; the temperat- the liquor in the digestor. This ure of the water is regulated at 180 liquor contains anly .3% of total degrees Fahrenheit, to ensure ef- S02 gas, and is a waste. It conficient absorption of heat generated tains sugars, lignins and resins amounting to almost half the weight of the dry chips. Some mills

After the pulp fibre is washed use this waste for the manufacture from the grinding stone, it flows of yeast, and others for alcohol through a ten-inch valve and pipe wood is in this blow-pit. Now clean, fresh water is run in, until the top

of the pulp is completely covered. The liquor drains out of the perforated bottom, and the water filters through the pulp, washing prac-tically all traces of this lipuor away.

The stock thus left is unscreened sulphite pulp. This material is then sluiced into a chest, and

**ROSS-DRUG** 

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**TWO STORES** Queen and Regent Streets

Queen and York Streets

Rexall Stores

U. N. B. **Coat Sweaters** Pure Wool and Good Wearing \$14.50 U. N. B. Jackets (Two-Tone) \$12.95 GAIETY MEN'S SHOP, LIMITED . . (Next to theatre) 554 Queen St., . "FOR THOSE WHO PREFER QUALITY"

Just hand him an Arrow Valentie and pucker up. If he's not too busy admiring it, he'll likely do the right thing. Arrow Valenties are sure-fire beau-pleasers. Men are really sent by those handsome Arrow colors. And as for neat-knotting . . . they slip around his neck as neat as your arms.

> Well don't just sit there daydreaming! Hop along to the nearest Arrow dealer. He'll be glad to help you select a tie or two to please that guy!

How to get kissed this Feb. 14

Look for the registered Trade Mark ARROW Cluett, Peabody & Co. of Canada, Limited.

TH WETPROOF MPER



EMBER-

CK TO YOUR LIPS

Page Four

#### THE BRUNSWICKAN

Wednesday, February 15, 1950.

5

5

0

Points

89

85

76

72

70

63

62

52

49

48

Won Lost Pl'd Pts

Section B

TEN TOP SCORERS

Team

Newman Club

Soph. Foresters

Soph. Science

Faculty

Foolish Frosh

Frosh Combines

Newman Club

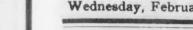
Jr. Kigmies

Soph. Science

SENIOR CIVILS

(continued from column 2)

Debating Society





### Axem

Wolfville (CUP)powerpacked Acadia A from Dal on Saturday to one. Major Kelly's tallied twice in the fin the third to win the c Intercollegiate Title.

Feature of the gan fired 90 shots at the T Acadia also defend

Valley league.

## **NOVA SCO** HOC

Feb.	
Feb.	
Feb.	1
Feb.	1
Feb.	2
Mar.	

I tried to kiss her by t One lovely, starry ni She shook her head And sweetly said, "No, not by a dam sit

And what did the p this morning? Nothing.

Naturally, but just express it this time?

Hillmen In Triple **U.N.B.** Victor Varsity Outshoot Swampmen Mt. A. Weakens in Final Minutes

Things looked pretty good for Senior Varsity over the weekend as the boys tripped up the old rival from the Swampland on Friday nite and on Saturday afternoon bounced right back again to take the measure of Aroostook State Normal School. Both games took place at the

### Lady Beaverbrook Gym.

The Mt. A. game got off to a ragged start, but at the two minute Nomral 77-65. The start of the mark Buchan broke the monotony by dropping in the first field goal for the Red and Black. U.N.B. was never overtaken. The boys out American team, but the fans who played the Mounties in all departments and led at quarter time by a score of 17-8.

The second quarter saw somes really fine team work by the Var-Smith carried the play continually into the Mt. A. zone. The Mount-les defence seemed pretty tight for Single Point a while but finally cracked and stayed cracked. U.N.B. out-scored

bang as the boys played rings and home series for the New Brunaround the hapless Garnet and Gold swick intercollegiate title. The someone breaking through for a squad. The forwards broke, passed girls from the swamps started very lay-up. The American team had and played together like veterans fast and led 13-3 at the quarter, trouble breaking away from their and guards Moe Atkinson and 21-8 at the half. The Mount A. checks and were often forced to Rudy Hanusiak broke up nearly girls showed superior speed and shoot from outside. every attempt by the Mounties at shooting during this half and seemfield goals. In the third quarter ed headed for an easy victory. Mt. A. racked up the amazing total

Varsity passes missed, plays failed son, would have won handily, usiak, who poured in 15 points, to click and everything went into Thompson hit with eight of ten scoring both on tap-ins and on push a general snafu. Maybe it was free tosses, while the U.N.B. girls shots from around the key. Gerry With thirty And then all of a sudden something ship changed hands several times. became inspired and three field minute. The teams conclude the stood out. goals were scored in the last thirty series next Friday at Sackville. seconds. The final score was 58-32. LINEUPS: Johnny Roberts and Bob Smith

topped the scorers with 14 and 13 cett 2, Thompson 12, Semple 4, respectively. Holmes sank ten for Harvey, Wassie, Tubb, Allen, Goodthe visitors. Also standing out for speed, Eaton, Heartz, Teakle. Varsity, Buchan, Hanusiak, Atkinson and Jenkinson.

isn't much to say about Scribner, Golding, Holder, Mr. Crawford and Co., Holmes, Lakes, Clark, Needler. Warner and Stothart tried hard. Mr. Ed. (Tantramar Terror) Cameron covered himself with glory by sinking five foul shots and no field goals. The Mounties played without the services of Eastman to which they will, no doubt attribute the loss.

sity squad as Buchan, playing his Co-Eds Lose By

U. N. B.: Moores 8, Webb 6, Lineups:

Stewart 5, Vermeeran 1, Wylie 7, AROOSTOCK STATE NORMAL

Over A.S.N.S. by Bill Ayer B. Senior Varsity went on their

biggest scoring spree of the year as they defeated Aroostock State game was delayed an hour and a half due to the late arrival of the stuck it out were treated to some of the best basketball of the year. It was the second meeting between the two teams this season, Aroostock taking the first game 59-50 at Presque Isle, but the round went to U.N.B. 127-124. The win was Varsity's sixth of te year, against five defeats.

In the first half, the Red and Black, led by Smith, Jardine and On Friday night the U.N.B. Co- Kakash raced to a fast break to team employed a fast break to Mt. A. 13-6 in the quarter and led eds lost a close 28-27 decision to good advantage, with U.N.B. conthe Mount Allison Co-eds. It was troling most of the rebounds and The second half got off with 3 the first game of a two game home scoring many times on passing and home series for the New Brun-plays which generally ended with

The second half saw the Aroos-In the second half the Red and and they moved into a 33-36 lead of three points while Varsity sank Black showed a complete reversal shortly after the half opened. At of form, and it looked as though this point the Hillman called a time As the fourth quarter began a they would pull the game out of out, and from then on they graddifferent story started to unfold, the fire. They held Mount A. score- ually pulled away from their tiring What happened no one seemed to less from the field, and but for the opponents. The feature of the half know but something sure did. sensational foul shooting of Thomp- was the shooting of big Rudy Hanoverconfidence, Gawd knows. While made only seven out of eighteen. Boulton also scored several nice all this was going on Mt. A. was Trailing 21-8 as the second half; baskets, and Johnny Roberts played steadily overcoming the long lead. got under way, the Red and Black, his usual brilliant floor game seconds left in the led by Webb and Moores, dropped Every member of the Varsity got game the Mounties had outscored in 14 straight points to forge into in on the scoring, with "Beanie" Varsity 15-4 in the fourth quarter, the lead. From then on the leader- Stairs netting a basket as the whistle went to end the game. For else happened. The boys once more with Mount A, winning in the final Aroostock, Manzo, Scott and Prince Moon

High scorer for the game was the Red and Black's Rudy Hanusiak, Mount Allison: Grant 10. Faw- with 19 points. He was followed Tea closely by Scott and Manzo of Aroostock, who had 18 and 17 re-Fool sppectively. Facu Jr. I

by Terry Kelly For 48 minutes on Saturday night it was a rugged, close checking

On Saturday afternoon the U.N. contest between Mt. A. and Varsity at York Arena. Then Tim Bliss broke a two all deadlock while his team was short-handed and thence the writing was on the wall for the Mounties who collapsed under an attack which added three goals in these last few minutes. The win gained U.N.B. first place in the N. B .-- P. E. I. league.

> With two more games per team | Hangovers remaining in the regular schedule. Townships the intra mural basketball play is nearing completion. In Section A the Foolish Frosh have gained number one position, two points up on the Faculty who were beaten by Newman Club the Jr. Kigmies. If Foolish Frosh Mooseheads can defeat the Faculty whom they Alumni have yet to face, they will probably Deb. Society end up on top; however, if the Sr. Civils

Faculty comes up the win a three- Soph. Foresters way tie way follow. In Section B Sr. Foresters the Newman Club is still on top, Soph. Engineers 0 with a no-loss record to date. There

and Deb. Society but each of these teams have only 6 points while the Bowlin Newman Club has ten.

er to date with 89 points-an aver- Burtt age of 17.8 points per game, which have definitely helped the Newman Russell Club to retain their undefeated re-Gorman cord. Bowlin is closely followed Miller by Elliot of Soph. Forester with 85. Coster Results of last Wednesday's play were:

Section A

Hangovers 44-Frosh Combines 33. Kigmies 41-Faculty 39 Soph. Science 45-Eastern Towa- rup comes through with the tieing ships 36.

100 Sect

Sr. 1 Sr. Soph been

STA

s 36.	goal and play gets cleaner and
lish Frosh 51-Residence 33.	cleaner with Tom Steel retiring be-
tion B	cause of a split lip, inflicted upon
Foresters 23, Deb. Society 31.	him by, "we haven't the money"
Civils 24,-Soph. Foresters 63.	Armstrong, his partner on Defence.
h. Engineers 19-Alumni Has-	At approximately 18.00 minutes of
ıs 53.	the third period Weston fired in
seheads 15-Newman Club 37	the winning goal for the Civil Sen-

ns 53. Dseheads 15					the third period Weston fired in the winning goal for the Civil Sen-
NDINGS:					iors on a pass from Al Hayes. Thus ends this sad story of the
Se	ection	А			downfall of the mighty Civil Sen- iors. Of course it was the ice or
m	Won	Lost	PI'd	Pts.	just luck but it couldn't have been that the Civil Seniors were the bet-
lish Frosh	5	0	5	10	ter team.
ulty	4	1	5	8	
Kigmies	4	1	5	8	QUIZ:-
nbines	3	2	5	6	n. a puzzle; a. hoax; one who quiz-

#### is a three-way tie for second place between the Mooseheads, Alumni Player Elliot Bud Bowlin is the leading scor-Little Owens Clark.

The first game of the N. B. Intercollegiate finals is over and the Swampers were ground into the dust. Let's hope that they are ground in a little farther in Sackville next week. Ted says that the score should be even bigger in the Stove Town. We shall see. LINEUPS:

Mt. A.: Cameron 5, Wallace, Holmes 10, Marshall, Tuttle, War-a lot of fun, and they would just ner 7, Stothard 1, Mills 7, Barritt 2,

erts 14, Atkinson 4, Hanusiak 9. spectators. They couldn't help but Smith 13, Jardine 2, Boulton, Buchan 8, Jenkinson 6.

Referees: Fitzpatrick and Rothernel

### Senators Govern Game

McAdom, a town of 3000, saw U.N.B. get licked 11-4 by St. Andrews Senators in the first game played in their new rink. On Thursday last the reformed Senators, starring Bud Stewart a former U.N.B. man, skated through our defence to whip varsity. The Stewart-MacNichol line was the most outstanding on the ice-scoring eight of the eleven with Stewart himself getting seven. This score however does not tell a true tale since U.N.B. actually put up a good fight with the Malone line standing out. teams to start the third and final Several plays were spectacular. period. Play is rough and hard but Twice St. Andrews scored and UNB the game is very, very clean. John retaliated in less than forty sec- Bell and Killen cheer them on to onds-one play in twelve seconds victory and clean play. Rus North-

(continued in column 5)

Spicer, Carlson 14, Prince 10, Clark 4, Soph. Science (Continued on page 8) Residence

#### Senior Civils VS. **Civil Seniors**

Monday Feb. 6th .- Prof. Moore stalked into the Senior lab to find only one or two of the boys at work and upon a very definite inquiry found out that this was the day of the big game; Senior Civils vs. Civil Seniors.

Of course there could be only one outcome of the game the Senior coast along and make a game of it U.N.B.: Stairs, Nakash 2, Rob- for the sake of the many Civil be a powerful team with "Wild Bill" Matheson, "Rocket" Poirier, "You'r a dirty player" Steele, "Silent Bill" in the cage and of course the mightiest of them all, "look at my wrist" Dick. Can't you imagine the gaunt feeling of the poor unfortunate Civil Seniors as they sat there and watched these stalwarts dress?

The puck is dropped and sticks fly. Bang! Bang! What's this? Two goals so soon, Oh well we ex pected that, but wait ; it's not the Senior Civils but the Civil Seniors who scored. Back come the Redshirts to tie up the game and forge ahead on goals by "Wild Bill" and Domville. See, they can't lose. By the time the second period is over the score stands at four to three for the Senior Civils. Back on the ice come the two

Residence

Com

zes; v. to puzzle so as to make fun of; to look closely at;

#### PILE-UP IN MT.A. ZONE



Most of the U.N.B. attacks ended as in the above shot Saturday Night against Mt. A. at York Arena. -Duke Three Allisonians defend Goalie Irving. U.N.B. players in the picture are (I to r) Bob Bliss, George Steele, George Kennedy and Tom Baliantyne. Linesman Bishop is on the extreme right.

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Also Leather Pat U.N.B. Sweaters an

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Est. 1889

bruary 15, 1950.

### Minutes

ed, close checking Then Tim Bliss nanded and thence ollapsed under an minutes. The win

5

5 ion B Von Lost Pl'd Pts. 0 5 0 5

3	2	5	6
3	0	3	6 6
3 3 3 2 2	$   \begin{array}{c}     2 \\     0 \\     2 \\     3 \\     3 \\     3   \end{array} $	35554	6
2	3	5	4
2	3	5	
1	3	4	4 2 0
0	4	4	0

#### SCORERS

eam	Points
vman Club	89
. Foresters	85
1. Science	76
ng Society	72
aculty	70
ish Frosh	63
1 Combines	62
vman Club	52
Kigmies	49
1. Science	48

### CIVILS

om column 2) gh with the tieing gets cleaner and 1 Steel retiring belip, inflicted upon ven't the money' artner on Defence. 18.00 minutes of Weston fired in for the Civil Senom Al Hayes. s sad story of the mighty Civil Senit was the ice or couldn't have been niors were the betAxemen Smother Dal.

SPORTS

Wednesday, February 15, 1950.

Wolfville (CUP)-Showing superiority in every department the powerpacked Acadia Axemen soundly trounced the 'Terrible Tabbies' from Dal on Saturday night at University Rink to the tune of 16 goals to one. Major Kelly's Lamplighters, led by Moe Siith's four goals. tilt they relied on packing inside tallied twice in the first, six times in the second and added eight in their own blueline and disorganizthe third to win the opening game of their defense of their Maritime ing the smooth skating U.N.B. for-Intercollegiate Title.

Feature of the game was the Superiority of Acadia forwards who rushes which paid off with two fired 90 shots at the Tiger Goaltender, 40 of them in the final period.

Acadia also defended Kentville Wildcats 9-2 to wind up leading the Valley league.

### **NOVA SCOTIA INTERCOLLEGIA TE HOCKEY SCHEDULE**

Feb.	2	St. F. X. at Dal. (St. F. X. 10-2	
Feb.	4	Dal at Acadia (Acadia 16-1)	
Feb.	11	Acadia at St. F. X.	
Feb.	16	Acadia at Dal.	
Feb.	25	St. F. X. at Dal.	

Mar. 4 Dal. at St. F. X.

I tried to kiss her by the mill, One lovely, starry night; She shook her head And sweetly said, "No, not by a dam site." -Log * * * *	A young woman Stepped out of bed Slipped into her robe Stepped into her slippers Raised the shade Uncovered the parrot Put on the coffee pot And answered the phone A masculine voice said	
And what did the professor say this morning? Nothing. Naturally, but just how did he express it this time?	"Hello, honey, just got a 24 I'll be right up She hung up the phone Took off the coffee pot Covered the parrot Pulled down the shade Stepped out of her slippers	

### Intramural **Basketball**

Perhaps the Allisonians learned a lesson in last week's defeat at wards. As a result their attacks were limited to one and two men goals by Tom Eastman and a few close shaves at the Red and Black cage which saw Harrigan give his very best.

THE BRUNSWICKAN

Inaccurate shooting, brilliant goal Sandy Valentine - Junior Civil Representative on the Ski Team tending and goal posts kept Varsity from gaining an inpressive lead in a dull opening period. Lorimer opened the scoring after two min-utes on passes from Ballantyne and Malone and from then until the ten

everything except put the puck ia Snow's drive which was labelled races. The members of last years for an open corner and Irving rose Varsity team were not allowed to to great heights in the Mt. A. goal. compete. The large turnout and en-

In the second period Bob Bliss thusiasm of the contestants overscored after twelve minutes to nul- shadowed the poor ski conditions. lify Eastman's first period clinches but the driving Sackville centre by the finish flags to record the came back to rack his second best time of 30.4 secs. Second place counter of the evening when Har- went to Howie Boucher who was rigans arm deflected his high shot close behind, just 1/5 of a second into the cage. slower.

In the first twelve minutes of the The place and time of the racers third session it looked as if the is as follows-

tactics of the mounties would give 1-Kieth Taylor, Eng. them at least a tie but the afore-mentioned break finally came. 2-Howie Boucher For. 3-Dick Balance Eng. mentioned break finally came. After Tim Bliss' tie breaking goal 4-Leon Pond, For. Malone drew Irving out of his cage after a centre ice break to score 6-Bob Neill, Eng. the best goal of the night. Gaudet was given credit for number five 8-M. Cyr, Eng. leave after the puck had ricocheted off a defenceman's shoulder. George 10.-Allan Neill, Eng. Kennedy ended the scoring with

hour

Slap Shots .... The crowd was ot as big as expected.... Satur-manding lead of 4 points to the

BUILT BY

minute mark the Hillmen did Intramural Downhill Race Results team will be picked to represent everything except put the puck in the net. A post was struck on three occasions: Lorimer skate deflected Snow's drive which was labelled

30.4 secs. 30.6 secs. 31.2 secs. 34.4 secs. 34.8 secs. 5-Stig Harvor, Eng. 35.8 secs. 7-Dave Ballantyne, Eng 36.0 secs. 40.2 secs. 9-C. Edgecombe, Eng. 44.2 secs. 46.9 secs.

As far as we know Bob Coke is Ballantyne and Tim Bliss in on the play. Slap Shots .... The crowd was Cleopatra.' gitis."

30.0 secs

32.8 secs.





-Duke

### **Engineers Lead Ski Races**

Laurentians.

### Odds 'N Ends

Ad in paper-"Daughter, come home! All is forgiven. We're calling it Diploma because you brought it home from college.

The girl I left behind me I think of night and day. For if she ever finds me

There'll sure be hell to pay.

"F-e-e-t," the teacher spelled out "what does that spell Mary?" "I dunno."

"Well, what is it that a cow has four of and I have only two?" So Mary told her.

Mark Antony: "I want to see

"But Sir, she's in bed with laryn-

"Damn Greeks."

Page Five



-Duke at York Arena. b Bliss, George

Slipped out of her robe Crawled into bed and **Compliments** of Heard the parrot sav: "Kee-rist, what a short day!" Ann's Dress Shop 596 Queen St. Dial 8083 For best SHOE REPAIR, A1 materials, good workmanship, reasonable price, and prompt service come to Sam Shepherd 515 King Street, opposite CAPITAL THEATRE Also Leather Patches on U.N.B. Sweaters and Jackets CRESTS FORESTERS - THE ENGINEER .-PRE-MEDICAL By courtesy McGill Daily SCIENCE ENGINEERS RESIDENCE

You are always welcome at .

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ARTS

FLEMING'S

of course

Est. 1889

day night is not a populor hockey Foresters 2 points. Next week a night in Fredericton with the stores open till nine and Foster Hewitt easily change the whole picture. on the air at ten. . . . Tom Ballan-

slalom race wil be run which might For a comparison, some members of the Varsity team ran the same course, and their times were-Bud Mackley 29.0 secs.

Gordie White Ian Scott 30.0 secs.. Geo. King Cynthia Balch 42.6 secs.

An eimination cross-country race was held a week ago Saturday. The course started from the Gym, up through the orchard and wandered through the woodlot nearly to the Rangers School, and then back down to the Gym. Starter Bud Mackley sent off 4 langloffers on their lengthy run of a little over three miles and the best recorded time was that of Howie Boucher who completed the course in 32 minute

Bill Murray and Ian Scott were right behind for a complete elapsed time of 34 mins, and Bud Ballance and Don Maclaran trailed them. From these elimination races a

tyne lost another tooth when struck by a high stick.

Saint Dunstan's come in Thursday night for an encounter with the leaders. They play a more ope type of game than Mt. A. Th Bliss-Kennedy line is the hottest in Intercollegiate circles at the moment. They racked up seven points between them Saturday night.

INTERCOLLEGIATE TABLE U.N.B. 2 21 26 Mt. A. 
 St. Thomas
 1
 0
 1
 8
 10

 St. Dunstans
 2
 0
 2
 6
 16
 FUTURE GAMES Thursday, Feb. 16-St. Dunstans at U.N.B. Saturday Feb. 25-St. Thomas at I.N.B.

'How was the burlesque?" 'Abdominal."

"Do you know what good clean fun is?

"No, what good is it?"

Sign in nudist colony: Gentlemen playing leap frog, please complete your leaps.

1st Student: "Did'ya pass trig?" 2nd Student: "No I flunked. My teacher thaid I didn't know math from a hole in the ground."



#### Page Six

## **RADIO TELETYPE**

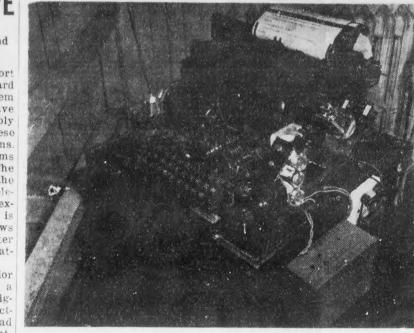
#### By Ken Creelman E. E. '50 and Bert Cosman E. E. '50

If you have tuned over the short wave bands of your radio and heard some wierd noises that didn't seem to make any sense, they may have been teletype signals or possibly telephoto signals. Many of these are trans-Atlantic news stations. Others send private radiograms overseas and to ships at sea. The military services of Canada and the United States are using radio teletype to an increasingly great extent for their signals traffic. It is somewhat amazing to see news printed out in front of you after tuning in one of the teletype stat-

For our thesis work in our senior year of Electrical Engineering a unit to receive radio teletype signals was constructed. The Elect rical Engineering department had two obsolete Model 12 page printers. These teleprinters were of the type used in news offices of radio Teletype Printer in the Electrical Lab. used in the Cosman-Creelman ding stage aspirants but they enstations and newspapers a number of years ago. They normally operated from the telegraph lines which are connected to the central newsrooms of Canadian Press and British United Press. While these lines were not available to us there are a number of radio stations transmitting news with the same telegraphic code as the Model 12. but in the form of two radio fre quencies. This code, called Baudot, it not like Morse code but is made up of "spaces" and "marks' rather than "dots" and "dashes" The problem for us was to receive these radio signals and convert them into marks and spaces to operate our teleprinter.

The first thing that had to be done was to change the speed of our printer from 40 words per minute to 60 words per minute to correspond to the standard speed of the stations we wished to receive. Special gears were obtained through the kindness of Canadian Pacific telegraphs in Montreal to convert our machine to the 60 word speed.

A communications receiver was a necessity also and luckily one was available in our labratory. The main item to construct was a discriminator unit consisting of tuned amplifiers, detectors, and D. C. amplifiers. The tube complement of were obtained from a manufactur-er who designed them especially for this use. A power supply deliv-in the four work have been gratifying and worth our many hours of work since October. was also constructed to operate the



-Duke

THE BRUNSWICKAN

Radio-Teletype Project.

#### ODE TO A FORESTER . . .

I think that I shall never see. A clod so dumb as you seem to be; When from my lofty perch I see You staring fondly at a tree. A tree which dogs would fain go near, But which to you seems Oh so dear. And how the citizens do shout, To see you, great big sodden lout, Chase the sexy coeds, slim, From tree to tree, and limb to limb-You never seem to get the dame, For coeds play a subtler game. Like a homing pigeon back to roost, When for some clues you need a boost, Who is it that you come to see? But the Engineers from U. N. B.

With abject apologies to Joyce Kilmer and our coeds for even associating them with (Ugh!) Foresters.

with a little practice. So far we have copied about a dozen different teletype stations transmitting news, stockmarket quotations, radiothe unit was 4-6J5's, 2-6H6's and of the traffic is in cypher form for grams and military traffic. Some 2-6V6's. Four special transformers secrecy purposes. The results of

TICKETS FOR ENGINEER'S DANCE ON SALE AT-ENGINEER'S STORE Wednesday, February 15, 1950.

### Red 'N Black Revue Telephone Building Toured By Radio Club

Once again, as in the two past years, the Senior Class Up the Hill

no competition in the Maritime Provinces. A Revue which presents skits, songs, chorus lines and feat-ure soloists, it is unique in this part of the country.

The thrill of producing such a show belongs to the marvellous Many hours of gruelling work in rehersal are put in by these bud-

joy doing it.

and actresses is free. Proceeds from the show go to the Senior Class which uses them in order to sponsor the Senior Dance during Encaenia week. The remainder of the funds is handed over to the Life Executive of the Graduating class to be used to defray any future correspondence costs or expenses which the class as a whole might incur.

Tickets for the show of the year will be available shortly. The critics who have had a preview of the production highly recommend it and hope that every one will be present on March 1, 2 and 3 to enjoy it.

What well-known Senior Electrical Disc Jockey leaned against the doorbell at 1 A. M. Friday morning when bidding his girl friend good night? We hear that the landlady was very annoyed.

---- FOR A -----

QUICK LUNCH

- VISIT OUR -

LUNCHEONETTE

FOUNTAIN

is presenting the Red 'n Black Wednesday, Feb. 1-The U.N.B. Revue. Originated by the Class of Radio Club met at the office of the 48, the Revue is a community ef- New Brunswick Telephone Co. on for under the direction of the Grad-uating Class. Bringing forth all Ralph Williams who conducted the available acting talent at UNB it affords to the students as well showing them how the exchange in as to the citizens of Fredericton an Fredericton is run. Some of the event which may be looked forword luckier fellows were taken upstairs to. For three evenings-this year where they were allowed to watch March 1, 2 and 3-the auditorium the long distance operators at their of Teacher's College will be the work. Mr. Williams and two assisscene of a stage show which has tans explained the workings of the

emergency power supplies and eq-uipment used in producing the

dial tone and the busy signals etc. The functions of this equipment cast which includes students from were also explained to the interested groups.

Finally the groups arrived in the testing room an were shown how the various instruments are used to keep the communication Time given by these young actors lines in working condition. All questions were answered very ably by the group's hosts.

Red 'n Black Revue TICKETS ON SALE Wed. 15 - Forestry Bld. Thurs. 16 --- Engineering Bld.

Fri. 17 - Arts Bld.



ruled-plain-quad

Wednesday, Febr

PASTEURIZ
NEW ARI
U. N.
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U. N.
U. N.



ay, February 15, 1950.

### ne Building Toured y Radio Club

lay, Feb. 1—The U.N.B. o met at the office of the swick Telephone Co. on et and were met by Mr. illiams who conducted a tour of the building, nem how the exchange in n is run. Some of the lows were taken upstairs y were allowed to watch stance operators at their Williams and two assisined the workings of the dialing system and also e group a teletype mach-ration. They were then he room containing the power supplies and eq-used in producing the and the busy signals etc. ions of this equipment explained to the inter-

the groups arrived in g room an were shown various instruments are eep the communication rking condition. estions were answered by the group's hosts.

'n Black Revue KETS ON SALE 5 - Forestry Bld. 16 --- Engineering Bld. - Arts Bld.

oose Leaf Supplies

ing Covers **3** sizes

oper Covers Refills

ed-plain-quad

Wednesday, February 15, 1950.

#### THE BRUNSWICKAN

## Television for Canada in 1951 . . .

#### by Arnold Duke

Television broadcasting in Can-1 the transcription disc and magnetic ada will become a reality in the tape. In remote and network broadfall of 1951 with the setting up of casting coaxial cable and the micthree transmitters by the Canadian ro wave beam replace the tele-Broadcasting Corporation. Toronto phone line in carrying the proand Montreal will be the first cities gramme from point to point. Into be served by Canadian Televis-cluded in this article is a photo-ion. Toronto will have one English graph of a Bell Telephone Comvidio outlet while Montreal will pany micro wave repeater stations have one English, and one French. in the Boston-New York circuit. The standard to be adopted will Stations of this type are located be American. This will mean the about every 35 miles and carry telepicture image will consist of 525 vision programmes from one city



-Duke Television News Broadcast as received from WBZ-TV Boston Channel 4 and originating in Washington, D. C.

horizontal lines scanned 30 times to the other where they are broada second. A few television receiv- cast through regular television staters have already been made in Can- ions.

ada to these standards. These are In the United States eighty-four are put in the ends of the paper used in southern Ontario and Brit- television stations are now in oper- cores, and circular pieces of the ish Columbia, areas now covered by ation, thirty-three more have con- same cardboard wrapper are put American television stations. At struction permits. A television on the ends; the whole is wrapped present twelve channels are avail- network now operates along the At- up and pasted. able for television, and are number-ed 2 to 13. Allocation of these Atlanta, and from New York west channels to Canadian cities within 250 miles of the U. S. border has erates along the west coast. At cilled on labels, which are pasted already been made through an a- present programmes on one net-greement between the American work have to be recorded to be the customer is also stencilled on. Federal Communications Commis-sion and the Canadian Department the two can soon be linked, to form ped, either by railfoad, or by steam-The channels allotnotwork

Page Seven

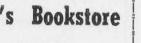
#### ENGINEERING AS APPLIED

(continued from page three) at high speeds, a system of rope carriers has been devised, which is known at the Sheehan rope carrier. Two ropes run parallel to each other, and pinch together, thus holding the wet sheet, and carrying it under one dryer, around the bot. tom of it, up between it and the next dryer, up over the top of the top dryer, down again, and so on, until the paper has passed over every dryer. In this way different sections of the sheet come into contact with different dryers at different times, so that water is evaporated uniformly from the sheet.

The sheet then passes through calender stacks, which are a series of smooth iron rolls, mounted on top of each other. These revolve and press and iron out the dried paper until a smooth surface is ob-tained. To help get a good finish, the paper is dampened slightly before calendering.

The paper has now been made. It is wound on large iron cores to diameters up to forty inches by means of a drum winder, which simply revolves the core as the paper comes out of the calender stack, and rolls it up on the core into a large roll called a reel. The reel is transferred by means of a hoist to a stand behind another winder machine: here the paper on the reel is unwound, and passed through a winder machine, to be slit into any width desired, and again wound on paper cores to whatever diameter is desired. A roll of paper sixty-nine inches wide, will contain about 8,760 yards of paper if the diameter is thirty inches, and will weigh 1,625 pounds; the weight of paper is thirty-two pounds for 500 sheets twenty-four by thirty-six inches in size.

These rolls now go through a process called finishing. In this process the roll of paper is numbered, and then wrapped with the heavy cardboard paper made from the rejected pulp, mentioned previously. Three inch wooden plugs



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ansport. ed follow a pattern similar to the A. M. broadcast channels now in probably join the stations in Toroperation. In New Brunswick, Fred- onto and Montreal. A second link ericton, Moncton, Sackville, Campbellton and Edmundston were given one channel each while Saint John received two.

Television Broadsacting Techniques are very similar to those developed in twenty years of audio broadcasting. Radio broadcasts may originate from four sources, "live" in the studio, recorded, remote control, or from a network. In television the same sources are available. In the recorded group the medium is different, motion picture film and slides replaced

The first network in Canada will

ship, to wherever the customer's newspaper is located.

From forest to printing press, the manufacture of newsprint is made possible through the efforts of engineers, and application of engineering principles.

### Model United Nations

A meeting of representatives from various campus societies was held on Tuesday night Feb. 7 for the purpose of forming a model United Nations. Stig Harvir was elected President of the committee and Derek Wiggs was elected secretary.

It was decided seeing that the idea was adopted so late in the year that instead of a model assembly which would be too large an undertaking on such short notice that instead a committee on economic and social affairs would be formed. So far cooperation has been received from several societys and those who have not sent representatives are asked to do so. A meeting will be held in the near future



-Duke Bell Telephone Micro Wave Re peater Station near Hartford Conn.

from Toronto to Buffalo would join it to the American Network; however, most of the programmes will be of Canadian origin. Television on any major scale in Canada will be impossible for some time as it is at present economically unsound to place transmitters in areas serving less than 100,000 people in its 65 mile radius. It would probably cost Canada her total annual budget to build a vidio network equal to her present radio networks.

Page Eight

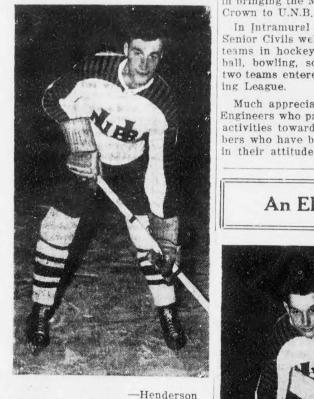
### ENGINEERS IN SPORTS

by Gus McIntyre, C. E. '50 and Bob Gander, C. E. '50

This year as in the past the En- Bert Dunphy whose injury while gineers have played a prominent participating in English Rugby has part in sports on the campus, both forced him to discontinue his colon Varsity and Intramural teams. lege career. George Jardine one of Through their keen interest and the most enthusiastic sportsmen on the sacrifice of valuable time, they the campus showed up well in Enghave helped to maintain a standard lish Rugby and at the close of that in sports at U.N.B. which is second season migrated across the tracks none in the Maritimes. This to the Gym to become a favorite credit is due to a great extent to of the gallery in his basketball the influence of the veteran stu- prowess, along with Bob Smith and dents, who have helped in a large Nakash both members of anyones degree to increase the interest in all-star term. campus next year.

Stuart all of which are now gradnedy, Bliss, Smith, Jardine, Hunter, Hockey title to U.N.B. this year.

A Civil



George (Teeder) Kennedy is the driving centre of

THE BRUNSWICKAN

#### **Engineers Train Youth**

(Continued from page 1) uipment Officer; in any article of

correspondenct, Bob's opening re-marks have concerned "our Squad-ron". P/O Phil Hastings, E. E. class '49, came up the hard way, getting his start as a Cadet with the Saint John Squadron, and offered his assistance to the Fredericton Squadron as a drill instructor. Phil is now taking over the adjutant's job in the local Squadron. P/O Ralph MacWilliam, E. E. class '50 has assisted very ably as Equipment Officer and is a Flight Commander since Bob left. F/O Harry Kalpakis,

E. E. class '50, confines his activitintramural sports and we are sure that they will be missed on the hockey team commenced intensive Link Trainer in soupy weather, Taking a look at the past, we re-Taking a look at the past, we re-training. Engineers were well re-presented on the Varsity team with Theory of Flight; the lads are wonmember such names as Ryan, Gar- Gaudet, Steele, Walker, Kennedy, dering how they'll get the Link land, Stothard, Cye Spear and Bud Thompson, Donkin, Dohaney, all "airborne" when Harry leaves, F/O prominent members of the Varsity Ken, "Spider" Dick, C. E., class '50 uate engineers and who helped the line-up. You can be assured that has been the boys Navigation and college capture championships. To- all of these Engineers will do their how to get the Link back to Fredday we have Gaudet, Steele, Ken- utmost to bring the Intercollegiate ericton when the ceiling is zero at Barker's Point. F/O Tom Steele,

C. E., class '50, has provideed ex-Laurie Hunter another Engineer whose outstanding performance at cellent training in Armanent and on Range work; the only "shot" he failed to miss, being the one he the Intercollegiate Swimming Meet (undefeated in any intercollegiate competition) played a steller roll stopped during an intramural hockey game. Before closing this article, it in bringing the Maritime Swimming

would not be fair to omit men-In Intramural sports we find the tioning the names of the officers Senior Civils well represented with and instructors of other faculties, teams in hockey, basketball, volly- who have done so much in the proteams in nockey, basketball, tony ball, bowling, softball, soccer and two teams entered in the new Curl-ing League. Much appreciation is felt by the Much appreciation is felt by the

Engineers who participated in these activities toward the Faculty members who have been so considerate in their attitude towards sports.

An Electrical

it started in '47, and there are five Cadets, amongst all the others, who owe him a hearty vote of thanks, for his training in Navigation and Meteorology, which helped them to

gain their Air Cadet Wings. thanks, Len. Others include Les Dobson, class '52, Tom Prescott, class '49, and Les Gray, class '50.

Fellow students, there you have it. A youth movement where you can derive unlimited benefit and satisfaction yourself, and at the same time, perform an invaluable service to the youth of Canada.



Physical Education Department. Jr. Foresters-6, Civil Seniors-1 Consolation Series-PLAY-OFFS Tuesday Feb. 7-Hut 13-5, Fresh Combines-4 .... Civil Seniors-5, Senior Civils Soph. Science default game to Y. R. Cruisers. Finals-(Best of 3) Sr. Foresters-5, Alex Angels-3. Sunday, Feb. 12-Silver Streaks-5, Fresh Forest-Jr. Foresters-2, Senior Forest-

ers-1. Semi-Finals, Saturday, Feb. 11-Consolation (Best of 3)

Wednesday, February 15, 1950.

Senior Foresters-3, Silver Str-York River Cruisers-6, Hut 13 eaks-1.

Monday Feb. 6-

Tuesday, Feb. 7-

Wednesday, Feb. 8-

# YEAR BOOK PHOTOS

We have already photographed about 100 grads of 1950 and many others have appointments.

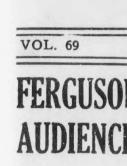
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The Editor

Ferguson, addres on Wednesday a Role of the New the series of lectu New Brunswick granting of its cl Dr. A. W. Truem the University of spoke, in his introd of the speaker's jou which included se "London Times" an nipeg Free Press' with the position o 'Montreal Daily S guson is also a we commentator and with the United Na mission on Freedon and the Press.

In his most intere arly address, Mr. F the role of the fr larger freedom which, he though democracy. He tol ering of students, : and members of th that the "Fredom has been rightly d the keystone of a

He then went birth and growth o ern newspaper ar for freedom of ext sessing the value o today, Mr. Ferguso its power to swav the truth was gre ated but that at th part in the whol process was a vit marked that for the properly, it must general frame wo and spoke of the la information when comes a state mon complete state mo ler and Stalin. Although Mr. F ted that the prese ers are open to crit that there was amo papers in Canada after objectivity in ted manner. He criticisms by refe cent British Royal the Press. In closing Mr. F ed that in the mai is swayed by the e and although the its share of the versity student m his responsibility.

second line which is the top scoring threesome in the N. B.-P. E. I. League ... George, who hails from the Port City is a Junior Civil Engineer.

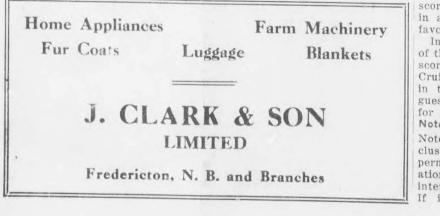
Walker, Harvor, (Biddiscombe ?!!) and many others all doing their part to keep U.N.B. at the fore front of intercollegiate sports.

Last fall, returning students found Canadian Football well established on the campus due to the efforts of MacIntyre and several others. It is the opinion of the Engineers that this sport be given full recognition and the full support of the S.R.C., and that any movement to do away with this sport would not be in the best interest of the university.

new activity on the campus was against Mt. A. Bob is a Junior bolstered by such stars as Body, Electrical from Fredericton. Harriott, Geneau, Mosher, Harvor, in their quest for the Maritime Intercollegiate Championship which was successful even against the boys from the swamp with their classy imports from the West Indies.

In track we had Boby and Dick 17, Clayton.

Gale who although not starring sup-ported their team to the utmost. Tribute should be paid at this point to the sacrificing efforts of Hanusiak 19, Jenkinson 2.





-Henderson

Bob Bliss, Right Winger on the Varsity hockey team scored the all important 3rd goal at the twelve minute mark of the 3rd period which Soccer, another comparitively proved to be the winning counter

#### U. N. B. VICTOR

(continued from page 4)

week as the Intramural season drew to a close. Two serious injuries were sustained by Lowery of Frosh Combines and goalie Bunbury of Angels, both had to be taken to the hospital to get slashes sewed up. The brand of hockey which has been played shows that the boys are really keen on our National sport. There was only one let-down in the week when the Sophomore-Science team failed to show up to play York River Cruisers.

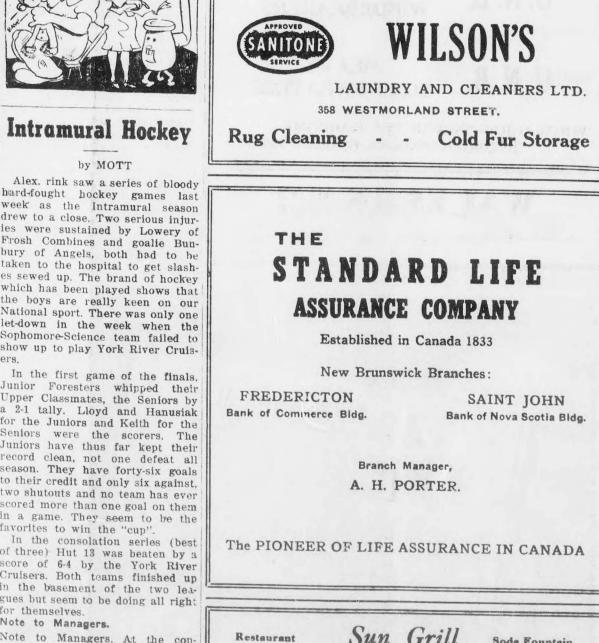
by MOTT

In the first game of the finals, Junior Foresters whipped their Upper Classmates, the Seniors by a 2-1 tally. Lloyd and Hanusiak Sommers 2, Clapp, Scott 18, Manzo for the Juniors and Keith for the Seniors were the scorers. The Juniors have thus far kept their record clean, not one defeat all season. They have forty-six goals to their credit and only six against, two shutouts and no team has ever scored more than one goal on them in a game. They seem to be the favorites to win the "cup".

In the consolation series (best of three) Hut 13 was beaten by a score of 6-4 by the York River Cruisers. Both teams finished up in the basement of the two leagues but seem to be doing all right for themselves.

#### Note to Managers. Note to Managers. At the con-

clusion of the finals, if weather permits, there will be an elimination tournament for all the teams interested in playing more hockey. If interested please advise the



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These addresses. ent men represent fields of study, show how academi out on the campus ial role in the bu fessional life of th

From Dr. T

. . . the Un Brunswick claims further the aims shin, to enrich the the spirit of every the hill, to equip women with the t ful living in a wo miracle, and to do of God and in gre those who with plot'ed our course half ago."

-From Dr. A. M troduction to Dr. Founder's Day, Fo