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ENGINEERING BRUNSWICKAN

Engineering Dance Highlight of Week

The eighth annual Engineering Ball was held in the Lord Beaverbrook Hotel last Friday night, officially opening Engineering Week. Sponsored by the University of New Brunswick Engineering Society in conjunction with the local branch of the Engineering Institute of Canada, the Ball proved to be the most successful yet with over 120 couples in attendance.

The highlight of the evening was the crowning of Janet McNair as our Engineering Queen of 1956. She was crowned just before intermission by last year's Engineering Queen, Margaret MacLaren. Her crown was composed of white mums and pink roses. Janet, a first year Arts student, then led the engineers in the singing of the Engineers Song.

Lloyd Crawford's orchestra was at their best and kept the dancers extremely active. Refreshments for the too-tired were obtainable from the efficient cork poppers in the mezzanine, who did a land office business.

Three novelty dances provided much interest and lovely prizes. Spot dances were won by Mr. and Mrs. Lorne Berggren, Marjorie Mulican and Ted Corbiere, while an elimination dance was won by Peggy Jones and Ron Pearsall.

Among those present were Dr. and Mrs. E. O. Turner and a large number of the engineering faculty and local engineers.

Much of the credit for the success of the dance must go to the Chairman of the dance committee, Bill Ower, a fifth-year Mechanical. Bill stated just before the dance, "We have had a lot of fun getting ready for what I think will be the best formal yet". We must also commend our master of ceremonies, Jim Brooks, who handled all events very capably.

Everyone commented on the three lighted engineering crests which provided the needed atmosphere on the dance floor. Apparently, the civil engineering crest has been borrowed by some over-eager student. The dance committee would appreciate it, if the crest was returned to them as soon as possible.

By the time you read this 'our Engineering Week for 1956 will be practically over. The traditional hockey game between the Engineers and the Foresters will have taken place and we trust that the Engineers will have won as they have done continually in the past.

From last report, the banquet that has been contemplated for this coming Saturday, in the place of our Annual Wassail, has been cancelled.

Eighteen Science Sophomores Cut

(Queen's Journal) In the wake of a devastating set of Christmas examinations, 18 students have been required to withdraw from the second year of the faculty of Applied Science. Letters from the office of the Dean were sent out earlier this week, and received yesterday by most of the persons concerned, advising each student that his progress had been deemed unsatisfactory and that he would be required to leave.

A special faculty meeting held last Friday rendered judgment on the ill-fated group, only two of whom were repeating their second year.

No students in either the faculty of Arts or the faculty of Medicine were required to leave the university as a result of Christmas marks.

Sixteen engineering students ran afoul of a new faculty regulation first formulated last January, and in operation for the first time this Christmas. The regulation which is numbered 5(B) in the science calendar, states that "second-year students who fail in seven or more courses in December are required to withdraw".

Dean H. G. Conn said yesterday that the regulations were nothing new, and that they were merely being enforced. Last Christmas, he said, two second-year repeaters were required to leave.

Engineering Queen



Janet McNair

Janet McNair was crowned "ENGINEERING QUEEN" at the Engineer's Eighth Annual Ball which was held at the Lord Beaverbrook Hotel, Friday evening. Janet was crowned by last year's Engineering Queen Margaret MacLaren and was presented with a gift from the Engineering Society. She then led the Engineers in their traditional song.

Eighteen-year-old Janet, Fredericton's gift to the University of New Brunswick, is a lovely 5'3", blue-eyed freshette. She received her pre-varsity schooling at Fredericton High where she was very active in school activities. Janet's likes are many, her dislikes few. Being a very active girl she enjoys all sports, particularly swimming and skating which seems to hold a special spot in her heart.

The engineers feel they have made a wise choice in picking Janet as Engineering Queen and agree that with her winning smile, good looks and vibrant personality, she will also claim the title of Carnival Queen and hence, MISS U.N.B.

Letter from George Keith; Engineering Society Pres.

Engineering has come to be one of the leading professions in the world today and the demand for the graduating Engineer has never been so great as it is at the present time. You should not be lulled into a false sense of security due to this great demand. Only a limited number will reach the top of the ladder.

Employers are looking for students who have an "all around" education with a sound knowledge in the basic principles

The opportunities for an Engineer are numerous, but as in any adventure, the results are by no means certain. The element of chance can be greatly reduced with proper preparation, by both physical and mental conditioning. Regardless of your preparations there may be setbacks, and you must be prepared to retrace your steps and start over, and perhaps alter your plans completely. By setting your sights on a worthy goal, if you have the basic principles and determination, that goal is yours.

George A. Keith, President, Engineering Society



George A. Keith,

of Engineering, which stresses Mathematics and Physics. When you graduate, employers will be

Who Was Lady Godiva?

"Godiva was a lady who to Coventry did ride, Showing all the villagers her lovely bare white hide; The most observant man on earth, an engineer, of course, Was the only one to notice that Godiva rode a horse."

This is but one version used in the engineers' song yet many an engineer is vague as to its origination. Many have asked, "Who's Godiva", and "What did she do?"

Lady Godiva really did exist. During the ninth century, the townspeople of Coventry were heavily burdened by taxes imposed by Leofric, the Earl of Mercia, the husband of Lady Godiva. With pity in her heart, Lady Godiva pleaded with her husband for mercy. The Earl then bargained with her that if she would ride, naked through the market at noon, mounted on a white horse, that he would relieve the people of Coventry of their heavy taxes. Lady Godiva accepted his proposition and rode through the town clothed only in her long hair.

Another version to the story is that Lady Godiva told the town-folk of her agreement and asked that they stay behind closed doors and have their windows sealed as she rode through town. A tailor, called Tom, who unable to control his impulses, peeped beneath a curtain to see the naked Lady and was suddenly struck blind. He was given the name of "Peeping Tom".

Lady Godiva died in the year 1057, but the people of Coventry never did forget her, for annual celebrations were held in the town for many years afterward to commemorate her good deed.

Dean E. O. Turner Looks To Future

This year finds us all busier than ever with four hundred and thirty prospective Engineers on the campus. Fortunately, we can look forward to more space in the near future, with the proposed connecting building between the two Engineering buildings almost ready to leave the draughting board. It is expected that tenders can be called at the end of next month. Certainly the members of the three lower classes can look forward to the day when it will not be necessary to don overcoats and overshoes to travel between the three departments of Engineering.



Dean E. O. Turner

In industry, the Engineering graduate is still the most critical item in the economy. It has come to a point where we, on the Engineering staff are embarrassed, when some of our good friends of the past, are unable to enlist the services of any of our graduates. This picture should be most reassuring to all

undergraduates in Engineering, and they can have the pleasure and satisfaction that their's is a role most vital to the future prosperity of their country.

Your Dean wishes you health and prosperity in your work.

E. O. Turner, Dean of Engineering, University of New Brunswick

ENGINEERING AT UNB HAS A LONG HISTORY

The first lecture in engineering at the University of New Brunswick was given on February 15, 1854. Before further discussing engineering, at the University of New Brunswick, let us stop for a moment and see where our profession established its early roots.

In 1750, France alone had a recognized professor of engineers and a school for their recruitment and training. It was not until 1800 that the profession first emerged in England. By 1850, France was still leading the world as a centre of engineering. Germany, at this time was making great advances in the engineering field, while Great Britain and the United States were still struggling to their feet.

In New Brunswick two men played a great part in establishing engineering instruction at the University of New Brunswick or King's College as it was known until 1859. Regarding these two men, Dr. William Brydone-Jack, a professor of mathematics, natural history and astronomy, and Sir Edmund Head, Governor of New Brunswick, Dr. A. F. Baird wrote: "I regard these two men as having laid the foundations of our academic engineering structure of today".

In 1852 Sir Edmund Head wrote a letter to the Chief Justice of the province, also Chancellor of the College, stating the need of training in Civil Engineering. The council of the College took immediate action and on April 2, 1853 authorization was given to appropriate funds for lectures in Civil Engineering and Drawing.

Even before this date Professor Brydone-Jack had been giving lectures in surveying and astronomy, he being very interested in the Observatory which was built in 1851. Instruments that were used at this time were a sextant and a theodolite which may still be seen in the archives of the University Library.

Following authorization of the lectures in Civil Engineering an advertisement appeared in the press concerning this new course. It was to include among other things, lectures in logarithms, sines, tangents, etc., trigonometrical formulae, resolution of plane triangles, methods of surveying and railway curves. The first lecture was given to twenty-six students by Mr. McMahon Cregan on February 15, 1854. The course was divided into two parts with Dr. Brydone-Jack giving them a mathematics background in the fall and Mr. Cregan teaching his course during the winter months.

The first recorded certificate of graduation in the engineering course was given on June 5, 1862 to Henry George Clopper Ketchum. There may have been others between 1854 and 1862 but no official record may be found confirming this.

During this time McGill University was also establishing its engineering course. From the records available it must be stated that although instruction in engineering was first started at the University of New Brunswick the first certificate of graduation in engineering was conferred to Mr. Godding of McGill in 1858. In conclusion it may be quite safely said that the University of New

(Continued On Page Six)

UIS Offers New Course

The University Investment Syndicate has been completely reorganized and the \$17 membership fee has been abolished. The constitution has been completely revised and plans for a better club are well underway.

The next official meeting of the club will be held on Monday, February 6, and will be offering a free investment course to all its members. The course entitled, "How to Invest Your Money", is one given by the Extension Department of the University of Toronto. It will last a total of ten weeks, covering various investment topics.

All U.N.B. students are welcome to attend these meetings. For further information consult the various notice boards.

Thanks!

The staff of the Engineering Brunswickan would like to thank all those who have assisted in publishing this issue and in particular would like to thank Fred Drummie for his help.



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Good Luck Graduates

This year of 1956, is one of the greatest and most important in the lives of some 40 engineering students at the University of New Brunswick. It is with great pleasure that we, the editorial staff, do hereby dedicate this Engineering Brunswickan to them as they prepare to join the ranks of U.N.B.'s alumni. We extend to them our best wishes for a future filled with achievement, happiness and success.

We are confident that the knowledge, the attitudes, the habits and the skills which they have acquired here, will be used by them intelligently, to meet whatever challenge life may present to them.

With the development of Canada today, unprecedented opportunities are available to the graduate engineer. We know that they will take full advantage of these opportunities and seek the position that will give them a challenge, and then go out to meet that challenge and defeat it.

We trust that they will remember their days at "U.N.B." with enjoyment and satisfaction and that they will look to the future with confidence in themselves and with determination to make the fullest use of their ability.

G.M.

New Look In '56 . . .

The Engineers may well be the first faculty up the hill to incorporate an international University tradition. A survey has determined that a large number of Engineers are interested in an exclusive faculty jacket. A committee has been corresponding with an experienced clothing manufacturer in an effort to have a stock of jackets on hand for the opening of the fall semester.

A proposed design was approved at the January meeting of the Engineering Society. Although some modifications may be introduced the approved design is as follows: the material will be Elkskin, red in colour and with a white strip down the arm. The back of the jacket will be adorned with black letters bordered with white and spelling U.N.B. ENGINEERING. The existing faculty crests will be used and the students year letters will also be black, bordered with white. Provisions will be made for a convertible lining a twelve-ounce slide rule pocket. In summary, the jacket will be almost identical to the Queens Science jacket which has been greeted with unanimous approval by the gaelic Engineers for some fourteen years.

Elkskin is an ideal material for casual wear. It is light, windproof, and waterproof. It wears well and maintains its new appearance after many cleanings. It is light enough for summer wear and suitable for spring and fall wear. Elkskin jackets, complete with lettering, will retail in a price range below that of the existing University jackets.

The value of such a jacket is the continuity of the same style year after year. Only our support is necessary to make the new look a complete success.

B.M.

Eng. Society, Then . . .

Founded in 1902, and bearing the distinction of being the oldest society on the campus, the Engineering Society at the University of New Brunswick, is also one of the oldest associations of Engineers in the province.

The first constitution for this Society was adopted on January 16, 1904, marking the beginning of a long and useful history. The "Engineering Store" was established in 1919 through the efforts of Professor E. O. Turner. The Joe Kaiser Memorial Loan Fund was set up in 1951 to commemorate the late Joe Kaiser, a third-year civil engineering student who was killed in the summer of 1950. The fund provides financial assistance to third-year engineering students at the university.

The early affairs of the society, for which there was apparently, great enthusiasm, and pride were handled by a board of Management which included both students and professors. At that time a pin was worn by all students to denote membership in the society. In 1910 the financial control of the organization was turned over to the students who have since retained that control.

. . . And Now

This marks the eighth year that the Engineering Society is sponsoring a Technical Paper Contest and in conjunction with the local branch of the E.I.C. its eighth annual engineers' ball.

However, the famed and traditional "Wassail," will not be held this year. This will be a disappointment to many, but a few incidents in the past few years have caused this drastic step to be taken. In its place, a banquet will be held, officially closing Engineering Week. Perhaps in a few years we may prove ourselves capable of conduct permitting the re-establishment of the "Wassail."

D.M.



Letters to the Editor

(Editor's Note: Many inquiries have been received from various persons pertaining to a mysterious letter which had been written by an Artsman and mailed to all Artsmen at UNB. This letter had been written with the intention of organizing an Arts Society. By popular request we are publishing a copy of it, followed by several replies to it which have been received by The Brunswickan.)

Dear Artsmen,

An Arts Society may sound a little out of place on the UNB campus, a campus accustomed to the presence of such noble organizations as the Forestry Association, the Engineering Society, etc., but a few of us radicals are attempting to get one started. It's high time we Artsmen asserted ourselves.

Did you ever stop to observe just who does the real work in the majority of campus activities? Anything worth doing and doing well is done by Artsmen. The engineers, foresters, et al, when confronted with this regurgitate in answer the now cliched phrase, "Artsmen are the only ones who have the time." Granted, we have the time; only because we are the more intelligent segment of the university society and are able to learn far more in less time than any other.

Consensus of this higher level of intelligence we have remained mute, rather than disillusion the masses around us and shatter their dreams of greatness. Nevertheless, the derogatory remarks which are being flung at us more and more each day will be answered. The time has come for us to step from the shadows and take our rightful place of leadership. We have let the ultra-practical, half-educated element of this campus bolster their egos at our expense long enough. The time has come to organize.

We will organize on Tuesday, January 10th at 5 P.M. in Memorial Hall. Come and voice your opinions of an Arts Society at this meeting. Suggested starters for the Society are a supper meeting, literary and humor magazines, and Winter Carnival projects. With respect to the latter: we have the most beautiful women on the campus in our faculty. The carnival Queen should be a cinch.

Don't forget, TUESDAY! MEMORIAL HALL, 5 P.M. If you can't come then send your valet, if he can't come then be sure to find out what happened. Big things are in store for UNB when we get rolling. Don't miss out, get out to this meeting.

Yours sincerely,
A member of the most powerful and intelligent group in these parts, namely — ARTS.

Dear Editor:

The letter, "Dear Artsman", is self evident. The Artsmen, hampered and limited by various literary inadequacies, are now trying to establish an Arts Society. Imagine that! After over 100 years these busy little bees have finally enough initiative (after directing everything else) to organize a society. If they are capable of this, which I doubt, then let it be. Speaking for the Engineers, who devote their lives to progress, I would not stand in their way or bother to cast any shadows.

Now, you "radical" Artsmen, before you set up Arts or Literary Societies it is necessary to master the Arts. Reading your letter, I find your slip is showing. You not only lack Art but your poor spelling is exceeded only by your inability to write the English language.

Artsmen are the only ones who have the time". This I must admit is only too true. You see, Artsmen, we Engineers already have our society and are busy running it. From the smallest club up to the SRC, the Engineers are most often in charge. Yes, Artsmen, we wish we had time. Will you help share our load? We find it difficult to do everything.

One more question still lingers with me — why do you who possess the, "most beautiful", choose your Queen from Science? May I be so humble as to make a suggestion to the Artsmen who feel lost in the shadows. My advice is: if your valet can't read your books and do your work, then do it yourself. The Engineers are tired of dragging your anchor.

Sincerely,
B. W. Ritcey.

Dear engineers.

An enginer societie mae sound quire on da campis; but I'm glad we stil go one. Widt a campis acustomed to da presents of such most powerfull and untelligent group in dees parts, namely Harts, one wood tink the enginer societie woodn't have a chance.

Did ya ever stop, and ya gotta stop, to observe woo does all da work on da campis. Anything wort doin is done well by Hartsmen, dats wat they said. So I stoped and observed. I guess ders nutin much wort doin because everytime I see a Hartsman he's doin nutin.

Grantid, us enginers got da time, after twenty lektures and five labs a week, however, it is nice ta know dat the Hartsmen are able ta learn far more dan any oder—any oder—dey didn't say wat oder. Dey claim ta have a higher level of untelligence and have remained mewt. Tank gudness, one of da fellas tried ta write a letter and wadda mess.

Da time has come dough, des Hartsmen are coming outta da shadows. Are us enginers, us half ejuacted element going ta let dis uneducatid group come outta da shadows and imbarus U.N.B. No, therefore, at da next enginerin meetin I suggest we move dat the Hartsmen got back where dey came from; da SHADOWS.

Yores sincerely,
A member of the most powerful well lit, mobile and constructive group, namely
—ENGINEERS

Sir:

In a moment of idleness and utter boredom, I had the opportunity of reading a little mimeograph, or should I say "call to arms", from the hand of an artsman, who thought it necessary to convince himself and his fellow-arts people, of the greatness concealed in them. He apparently had been provoked by remarks from students in faculties such as forestry and engineering, and perhaps discovered signs in himself of inferiority complexes. However, it was a disillusion to me. Up to the moment of reading the mentioned self-praise, I had rather appreciated the arts-

(Continued On Page 5)

Engineering A Profession

Before trying to answer this question — so often asked by people on this campus, we must try to decide what is meant by the word "profession". The dictionary defines a Profession as "an occupation, requiring a knowledge of some department of learning or science". If this is the only criterion, Engineers with their five years of intensive training are most definitely professional men.

But you say a profession must have ethics. Here again you are emphasizing one of the things that makes engineering a profession rather than a trade. An engineer like any other professional man is bound by a code of ethics which demands that he will not undertake what he knows to be beyond his skill, and that in the service he gives, he will be conscientious to the limit of his ability.

These and other requirements of a profession can all be shown to apply equally well to Engineering as to the other "Learned Professions". However the most important argument is the one most often overlooked by both sides. The professional way — of gathering all pertinent data, subjecting to a mental and experimental test, coming to a decision, and then doing something about it applies equally well to medicine, law, engineering or any other profession which you might name. This way of thought enables them to meet new and different challenges which cannot be "looked-up". A tradesman such as a carpenter as a plumber does not have to think this way — he is seldom faced with a "new" type of problem in which the thinking has not already been done for him.

Because of these and other reasons and because it fills all the requirements of a profession, engineering may rightly be spoken of as one of the learned professions. — Reprinted from Gatepost

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WUSC ANNOUNCES 1956 SCHOLARSHIP PLANS

NFCUS MEETS AT UNB

Peter Martin, National President of the National Federation of Canadian Students will attend the forthcoming Atlantic Region NFCUS conference to be held on the UNB Campus. Dates for the meetings are January 29, 30. Mr. Martin will address the student body on Monday, January 30 in the Forestry Building.

Delegates from Dalhousie, Mt. Allison, King's College, St. Francis Xavier and St. Dunstan's are slated to attend the two day session. In addition, observers from Memorial College and Acadia University will be present.

This conference is held annually at a Maritime University and the delegates discuss topics of interest to the federation and its many members. On the agenda for this year are the student discount service SDS, discussion of proposed NFCUS scholarship plans, Student Life Insurance schemes and general NFCUS policy.

Sessions will be held in the lounge of the Students' Centre on Sunday, and in the conference room Monday. Officials wish to stress the fact that all those interested are invited to attend any or all of the meetings.

The local NFCUS Committee wants to take this opportunity to extend their appreciation to J. D. Creaghan Co., Kitchen Bros., Ashley Colter and Estey & Curtis for their support of the imminent conference.

WINTER CARNIVAL

Preparations for UNB's first Winter Carnival are now well under way. At the last meeting held January 18th, most committees had all their plans and arrangements completed.

All five faculties have nominated Queen Candidates as well as having appointed Float and Snow Sculpture Committees. The Men's Residence Society has also decided to enter a float and a snow sculpture in the competitions. Each entrant in the Sculpture Contest has been given an approximate area in which to erect its structure on the campus. A letter has been sent to all local organizations inviting them to enter a separate "City Snow Sculpture" event. Trophies have been donated for each of these competitions and our thanks go to Tractors and Equipment Ltd. and to J. Clark and Son for these.

Mackay to Open

The Carnival proper is scheduled to begin at 8:30 p.m. Thursday, 2nd. The official opening ceremony will take place in the new Lady Beaverbrook Rink with Dr. C. B. Mackay and the Queen Candidates on hand. Jim MacDonald will be MC for the opening, and other events throughout the Carnival. Following the official opening a Masquerade skating party will occupy the ice surface, while for non-skaters a dance will be held in the rink lounge. Prizes will be given for those in costumes only at this affair.

The Committee wishes to put forth a plea for all UNB students to bring their SRC cards to all events in the Rink. This is necessary because of a peculiarity in the tax setup.

The judges at the Masquerade will be the Co-chairmen, Bill Rae and Bob Ross, and the Secretary of the Carnival Committee, Roberta Selig. The prizes will be presented by the Queen Candidates. Admission is by Carnival pass or 50 cents.

Seven Floats

Friday at 2:30 the Float Parade will leave the campus by University Avenue. At present seven floats are entered. Five are faculty entries, one is from the Residence, the seventh is for the Band and is not a competitor. A rumour has it that at least one private float will also appear. From University Ave. the parade

The World University Service of Canada is pleased to announce the 1956 Summer Educational Programme which will consist of a three week Seminar in Germany, preceded by five weeks of Study Tours in different regions of Europe. The Seminar, jointly sponsored with the German WUS, will also be attended by seventy students from the U.S.A., Europe, the Middle East, Africa, and Asia. Following the Seminar two weeks free time has been allotted to enable participants to visit any personal points of interest which they wish to see. All U.N.B. applicants for this scholarship should contact Ron Pearsall in the Men's Residence before February 3rd. The local WUSC committee has been invited to choose one student to represent this University and under no circumstances will any applications be accepted after this date.

According to present plans, all the students and leaders will sail from Montreal on June 12th, and return to the same port on or about September 13th. During the outward sea voyage orientation sessions will be held to introduce participants to the programme as a whole, and the return voyage will include evaluation sessions of the summer experiences.

will proceed along Queen to Westmorland, up Westmorland to King, along King to Regent, and up Regent via Albert to the Campus. A trophy for the Float event has also been donated. Several local contractors and machine outlets have agreed to loan us the trailers for these floats.

Friday evening at 7, UNB and Acadia University will play an intercollegiate Women's Basketball game. This game will be followed by a men's game between UNB and St. Dunstan's, of Charlottetown. This is also an intercollegiate contest.

Immediately following the men's game the Carnival Queen will be crowned to preside over the remainder of the Carnival. Her first duty will be to open a sock dance at the Gym which will run until 1:30.

Saturday morning several athletic competitions will be running both on and off the Campus. At the Residence a swim meet will be held with possible entries from Mount A, Acadia, and Saint John as well as the host UNB team. In the gym a badminton tournament will be held. This is an open event. Outdoors a cross-country ski race and a snow shoe race are scheduled to finish in front of the Gym. At the Lady Beaverbrook Rink skating races have been scheduled, while at the Royal Road Ski Hill the ski meet which begins Friday will continue all day Saturday and Sunday.

Broomball

Saturday afternoon at 1:30 a hockey performance of Broomball will be put on by the co-eds. At 3:00 UNB Varsity will play Mount Allison in an intercollegiate game. Once again please remember your SRC cards.

Saturday evening a dance closing the Carnival, except for skiing on Sunday, will be held in Memorial Hall. All prizes and trophies will be presented at the dance. This dance will start at 8:30, and the Student Centre will be open.

Bob Ross and Bill Roy,
Co-chairmen

The purpose of the study tours will be to provide the participants with a background of personal experience and a basic understanding of European conditions, problems and attitudes to enable them to contribute more effectively to the Seminar. The students will travel in groups to one of the following areas: Germany, Greece, Spain and Portugal, Yugoslavia, or the U.S.S.R. All the groups will also spend a few days in Paris to study the work of international agencies, such as UNESCO and NATO. Groups destined for Yugoslavia and Greece will then proceed to Geneva to observe the work of the United Nations and to visit the international headquarters of the World University Service.

The scholarship is open to a U.N.B. student currently enrolled in a full time course. Applicants should currently be students within one year of graduation, or recent graduates who will be returning to university for at least another year's study; exceptions may be made under special circumstances however, and the committee encourages all who are interested to apply regardless of their academic year. Intellectual, emotional maturity, academic standing, and participation in extra-curricular activities will be considered priorities in the selection of the participants. Most important, applicants must be willing to take an active part in the promotion of international thinking on the campus on return. They will be expected to communicate their experiences to their fellow students and members of the community through articles in campus and local newspapers, speeches, radio and T.V. interviews, etc. Also the representative must submit a written report describing their experiences and evaluating them to the University President, Provincial Government Representative, Student Council, WUSC Local Committee, and the WUSC National Office.

Students interested in applying for this scholarship are reminded to contact Ron Pearsall before February 3rd to obtain application forms. Announcement of the winner will be made by February 15th.

SEC. ON CAMPUS PROF. SEES BRIGHT FUTURE FOR N.B.

Miss Rhoda Palfrey, Associate (Mission) Secretary, on the staff of the Canadian Student Christian Movement, is here on the first stop of her present tour of the Maritime Provinces. This is her second visit to the Campus and to the City of Fredericton since she joined the SCM staff.

While here she will be meeting with students, associates, and senior friends in the city.

A native of Nova Scotia, Miss Palfrey is a graduate of Mount Allison University in English, and prior to joining the National Staff of the Canadian SCM she spent three years in Japan, as a teacher under the auspices of the United Church.

Arriving here Sunday morning last, she spoke at the SCM "Open House" in the evening, on "The

Professor W. Y. Smith, head of the department of economics and political science at the University of New Brunswick, urged people of New Brunswick to have faith and be optimistic of the future as a remedy to increase the economic outlook of the province.

Professor Smith spoke Wednesday afternoon to the Association of New Brunswick Land Surveyors at a luncheon in the Lord Beaverbrook Hotel.

He spoke on the future of the economic situation in the province and outlined several ways

mission of the Canadian SCM". Monday evening she met with the executive and members of the Cabinet of the local unit, and Tuesday evening with members of the Advisory Board.

which will improve the economy of New Brunswick in the near future and gave a brief outline of the work done by the Royal Commission which investigated the economic picture in the Atlantic provinces last summer.

He pointed to a brighter outlook for the future. He said that development of hydro electric power, a greater demand for lumber and forest products, the discoveries of base metals in the northern part of the province, and Camp Gagetown will provide a rapid growth in economy for the province in the near future.

Professor Smith urged New Brunswickers not to be pessimistic of the future and to rid themselves of the psychological feeling that New Brunswick's economic picture will not improve in the future.

DAL 52 - UNB 47 See Sports Page

SRC HAS \$500 DEFICIT

Treasurer of the SRC, James B. McKenzie disclosed that the Student Governmental Organization has a \$500.00 deficit. He made this remark at the first spring meeting of the SRC, held in the Oak Room of the Student Centre last Wednesday.

Mr. Mackenzie outlined the major spending of the fiscal year 1955-56 and pointed out that although the council had more money this year, because of increased enrolment, they had spent more than was on hand. This deficit figure arrived at does not take into account a grant of \$600.00 to the Winter Carnival Committee, which is to be paid back to the council.

Officials from several Campus Societies were on hand to defend their budgets before the council. NFCUS was questioned rather closely on their plans concerning the money requested from the university. Chairman of the NFCUS Committee, Bill Griffin, outlined briefly several of the schemes toward which the grant would be put. Most of these plans are on a national rather than local level.

The Social Committee budget for \$900.00 covering the Con and Encaenia came in for some questioning by the members of the council. Hazen Marr, committee chairman told the council that the appearance of the dance would reflect their generosity in allotting them a budget. The Winter Carnival Committee reported that Mt. Allison University was issued a formal invitation to attend the winter event. It is expected that Mt. Allison will charter a train to bring all those students interested. It was also disclosed that the winner of the Carnival Queen contest has been invited to go to Dalhousie University to compete for the Miss Maritime University title.

Included in the budgets presented to the council was a sum of \$92.00 as a grant to WUSC. President of the local organization, Ron Pearsall, explained that the scope and size of World University Service Activity was such that they would need all the help they could get. He cited several examples, including the well known Summer Scholarships.

Mt. A at Carnival

Mt. Allison will be strongly represented at the forthcoming UNB Winter Carnival, it was learned today. The Sackville University will be chartering a train to bring down all those interested in the winter festivities. An official source said that upwards of 350 students will descend on the provincial university to take part. Winter Carnival officials are reported to be highly impressed with the spirit shown by these students.

GUEST EDITORIAL

In an editorial printed in the January 18th issue of THE BRUNSWICKAN, I noted the following statement,

"Until all the students in Canada are acquainted with all the activities and problems of the others then there is nothing to be gained from any national conference, whether it be CUP, NFCUS, or WUSC".

May I immediately express my most sincere and whole-hearted approval of this statement. In my opinion one of the principle reasons for the overwhelming amount of apathy among Canadian university students is a result of the disgusting lack of knowledge which they have about various campus organizations. A good deal of the blame for this condition must fall upon the organizations themselves for their "programmes of indoctrination" which have been considerably lacking in energy. However, one cannot lightly overlook the attitude of the students even when efforts are put forth. The chief means which organizations have of enlightening the student body of their activities are bulletin boards and campus papers such as THE BRUNSWICKAN; and yet, how many students carefully read such papers and make a point of examining bulletin boards frequently? I cannot help but be of the opinion that the number is astonishingly low.

However, I wish to draw to your attention that this condition of unawareness has not gone by unnoticed, and that at this very moment efforts are being made to at least partially correct the situation. In a future issue of The Brunswickan will be an article entitled "Asia-Democracy's Challenge". This is the first of a series of articles to be published for the express purpose of enlightening the students of the University of New Brunswick regarding the globe-encircling activities of the World University Service of Canada. It is hoped that this series will not only achieve its primary purpose, but

(Continued on Page Four)

BUDGET REPORT

A budget report is an innovation to the council's proceedings but I feel it is necessary because it will better acquaint the students with the SRC finances.

Since the present council took over there have been some important changes in the financial set up of the S.R.C.

The major change was in the method of financing athletics. Until this year the S.R.C. supplied the total monies which were spent by the various athletic teams. Athletic finances are now controlled by an athletic board made up of students, faculty and administration. The University now charges each student \$13.00 for an athletic fee and the S.R.C. fee was reduced by the same amount. This amount is approximately what each student paid towards athletics during the college year of 1954-55. Under the new set up the athletic budget increased by more than 40% with no increase in student fees for athletics.

Last Spring the council again decided to set aside \$3.00 per student to help pay for the furniture in the Student Centre.

S.R.C. fees under the council were raised by \$2.00 which brought the total paid by each student to \$17.00. With the increase in enrolment, fees and without counting athletic expenditures the S.R.C. has \$3600.00 more funds to distribute to student activities this college year.

The yearbook costs went up proportionally to the enrolment increase so that this year it receives a gross of \$5200.00 compared with \$4500.00 last year, approximately \$5.00 per student. NFCUS receives \$520.00, the Drama Society \$450.00, and the Camera Club \$115.00. Last term alone the Brunswickan received \$1600.00 for eleven publications and the Social Committee \$475.00 for the Fall Formal.

I have reviewed the major changes in the financial situation of the S.R.C. and have pointed out some of the important expenditures. I would like to take this opportunity to make one or two observations and recommendations. First, the disposable income of the S.R.C. has increased by \$3600.00; yet, at this time we have a budgeted deficit of \$581.81. We must be very careful not to increase our budgets just because more money is available. In closing, I recommend

(Continued on Page Four)

RAIDERS GET CONSOLATION

Houlton, Me. (Special)—University of New Brunswick Red Raiders, unable to match the championship form of Aroostook State Teachers' College of Presque Isle, managed to corral the consolation title in the annual Northeast College Basketball Conference tournament here last Friday and Saturday.

Raiders outpointed the host Ricker College Saturday evening 76-69 to snare the secondary award. Earlier in the competition, the UNB ballhawks dumped Washington State Teachers' College of Machias 76-68 in their quarter-final only to be stopped 84-74 after a valiant, but futile comeback in the meet semi-final.

The Championship Aroostook squad turned back Ricker easily, 89-63 in its semi-final and went on to romp home with the crown by seven baskets 102-89 over Husson in the finale.

Aroostook placed three men on the tourney all-stars. They were centre Maurice White, forward Gene Michaud and guard George Moran. The other members of the first dream team both were from Husson, forward Bob Cimbolek and guard Lou Hill. In addition, Cimbolek was judged by the picking panel as the season's most valuable player.

Eight players made the second team, due to voting ties. Two represented Red Raiders, Don Brannen and John Gorman.

RAIDERS NEXT GAME
UNB's next game will be Saturday night in the Lady Beaverbrook Gym at Fredericton. Fort Kent Training School is set to meet Raiders with game time booked for 9 o'clock.

Against Washington State in their opener, Red Raiders led all the way, holding a 20-13 margin at quarter-time, a 36-33 edge at the half and a 58-52 advantage with a quarter to go.

Brannen headed the UNB front in this tilt, bucketing 26 points. Jim Milligan contributed 15, Les Rheinlander added 12 and Gorman came through for 11. On the Washington side of the score sheet, Norwood ran up 22, Sternberg connected for 19 and Whitney threaded the needle for 13.

Thirty-nine personal fouls were called, 19 against UNB. Leaving early for drawing the fifth foul were John Forbes of UNB, Tracey and Dunn of Washington. In free throws, UNB registered on 22 of 29 while Washington could count on only 12 of 28.

Husson opened like a house afire in the semi-final tussel with UNB falling behind 32-11 during the premer quarter. Then Raiders turned on the steam, running the Hussonites into the floor for two periods, cutting the edge to eight points by the half, 43-31, and chopping it further to but one foul shot by the end of the third quarter, 59-58.

The torrid duel continued into the fourth quarter but Husson had too much and ran up a 25-16 edge to jump into the final against Aroostook, who in the meantime was having an easy 89-63 outing against Ricker.

A total of 33 personals were charged against both teams with UNB being tagged with 17, Milligan and Forbes both drew early show-ers for Raiders while all Husson's men managed to go all the way. UNB scored on 18 of 25 free throws, as against 17 points made by Husson on a similar 25.

Tourney MVP, Cimbolek, rattled the hoop for 24 Husson markers. Best shotsmith among Raiders was Gorman. He swished 22.

TAKE CONSOLATION
In the consolation decider, Ricker opened up a 22-17 lead in the first quarter and extended it a point in the second by outcounting UNB 14-13. Raiders, sparked by Milligan's hard-driving play and Bob Wightman's clever rebounding, snapped back into the running canto and wound up out in front 55-49. Ricker revived in the last quarter but UNB still outscored the hosts 21-20.

Ricker drew 20 of the 37 fouls. Joyce and Clough were sidelined.

How To Live With Your Worries

Some worries and anxieties are normal; we shouldn't dodge them. But some are useless and simply wear us down. February Reader's Digest tells about the kind of worry you should learn to overcome . . . and how you can wisely profit by putting sensible worries to good use. Get your February Reader's Digest today; 38 articles of lasting interest, including the best from current books and leading magazines, condensed to save your time.



Free Swim Periods

Monday—4:30 - 5:30 p.m.
Wednesday—4:30 - 5:30 p.m., 8:00 - 9:00 p.m.
Friday—4:30 - 5:30 p.m., 8:00

Survival Course
An eight-week water survival course is being conducted by the athletic department. All students are welcome to take part. Lessons are Tuesday nights, 7:30 to 8:30.

Red Line — A group of Communist agents secretly amassing strategic information and dispatching it to the Moscow hockey team in preparation for the 1956 olympics.

Hydros Sink 3 In 33 Seconds

UNB Loses 5-1 To Tommies; Meets St. Dunstan's Next

In the first game of the New Brunswick-Prince Edward Island Intercollegiate Hockey League, UNB's Red Devils suffered a decisive 5-1 defeat at the hands of St. Thomas Tommies in Chatham last Friday.

Cheerpeet opened the scoring for the winners early in the first period on assists from David and Boyle. Referees Canton and Cameron sent eight men to the sin bin in this period of play alone, as both sides displayed the rivalry and spirit which is the keynote of UNB-St. Thomas tussles in any sport.

Regan added two counters to the Tommies cause at 7:28 and 12:55 of the second stanza, the first unassisted and the second on a pass from Gulliver, to make the score 3-0 in favour of the home team. Dickie for the Devils netted the one and only UNB tally of the game at 14:25 of this period on a play from Ketch. Seven more warriors left the ice for misconduct during the stanza.

Gulliver, unassisted at 6:53, and Cherpeta at 19:38 from Boyle ended the scoring for the game to leave the Tommies on top 5-1. Five more penalties were called in the third to make a total of twenty for the contest.

Although their first intercollegiate fixture proved that the

Devils have a tough job ahead of them, Coach Kelly is certain that the result will be different on home ice.

This Saturday, January 28th, the Devils are at home to the St. Dunstan's entry in the league in a contest slated for the Lady Beaverbrook Rink, starting time is 8:00 p.m.

First Period
1—St. Thomas, Cherpeta (Boyle, David).

Penalties: Allen (UNB), Boyle (St. Thomas), McKee 2 for St. Thomas, Coombes (UNB), Trzop (UNB), McGinn (St. Thomas), Savoy (UNB). There were no official times taken during the first period due to the clock being out of order.

Second Period
2—St. Thomas, Regan, 7:28.
3—St. Thomas, Regan (Gulliver) 12:55.

4—UNB, Dickie (Ketch) 14:25.
Penalties: Haley (St. Thomas) 2:53, Allen (UNB) 3:45, 8:16, Mocker misconduct for UNB) 8:16, Ketch (UNB) 9:57, Boyle (St. Thomas) 14:20, Russell (St. Thomas) 14:34.

Third Period
5—St. Thomas, Gulliver, 6:53.
6—St. Thomas, Cherpeta (Boyle) 19:38.

Penalties: Cherpeta (St. Thomas) 3:22, Trzop (minor and misconduct for UNB) 4:24, Ketch

(UNB) 9:32, Regan (St. Thomas) 12:07, McGinn (St. Thomas) 13:37.
Exploding for three goals in the space of 33 seconds of the third period while playing at a two-man advantage, Hydros trimmed University of New Brunswick 7-5 in City Commercial Hockey League activity at Lady Beaverbrook Rink last Wednesday night.

Pat Boyle opened the machine-gun rally at 10:06 to break a 4-4 deadlock. Then Tim Bliss banged in a pair, at 10:34 and 10:39, to sew up the decision.

In the penalty box at the time were collegians Ed Allen and Hedley Savoy, both serving minor sentences. Allen was sent to the cooler at 8:48 and Savoy joined him half-a-minute later.

Bliss, Boyle and Bruce Jack were the big guns for Hydros. Bliss, in addition to scoring his two goals in five seconds of play, picked up three assists for five points. Boyle collected three goals for a hat trick while Jack slapped in two goals and helped on a third. Two-assist showings were engineered by Lloyd Bill and Don Boyce.

For UNB, Ron Ketch drew point on four goals, scoring one and helping on the other three. Bill Dickie tallied once, helped once for two credits while Jim McNutt, Ed Allen and Pete Mocker banged in acres. Pete Coombes assisted twice.

It was 2-2 after a period. Marksmen in the first frame for UNB were McNutt and Mocker. Boyle and Jack did the honors for Hydros. Ketch and Dickie made it 4-2 for UNB in the second. In the third, goals by Boyle and Jack set the stage for the tremendous Hydros rally. Allen climaxed the sniping with UNB's fifth marker with 14 seconds remaining.

First Period
1—UNB, McNutt (Ketch, Dickie) 5:45.
2—Hydros, Boyle (Bliss, Jack) 12:20.
3—UNB, Mocker (Savoy, Coombes) 15:30.

4—Hydros, Jack, 17:44.
Penalties: Boyle (Hydros) 7:10, MacPherson (Hydros) 13:40, Lalor (UNB) 18:00.

Second Period
5—UNB, Ketch (Coombes) 5:20.
6—UNB, Dickie (Ketch, Porter) 13:53.

Penalty: Boyce (Hydros) 19:06.
Third Period
7—Hydros, Boyle, 1:24.
8—Hydros, Jack (Gill, Bliss) 7:32.
9—Hydros, Boyle (Bliss, Boyce) 10:06.

10—Hydros, Bliss (Boyce) 10:34.
11—Hydros, Bliss (Gill) 10:39.
12—UNB, Allen (Ketch) 19:46.

Penalties: Coombes (UNB) 20; Allen (UNB) 8:48, Savoy (UNB) 9:18, Boyce (Hydros) 13:22, Lyons (Hydros) 19:52.

Dal Gals Shouldn't Have Come Here At All

Dalhousie University co-eds arrived late from Halifax, N.S., for their Maritime Intercollegiate Women's Basketball date Saturday night but played like whirlwinds to make up for the lost time, trimming University of New Brunswick Red Bloomers 52-47 at the Lady Beaverbrook Gym.

The Dalhousie girls were held up due to transportation difficulties. As a result, the contest scheduled for 7:30 o'clock did not get under way until 9 p.m. As far as Red Bloomers were concerned, it would have been better had the game never started.

The Nova Scotia sextet allowed the host girls an 11-4 edge in the opening minutes but surged back to knot the tally 11-11 and jump into a lead it never relinquished throughout the remainder of the activity.

Dalhousie finished the opening quarter in front 14-12, opened its lead to 29-22 at the half and possessed a 41-33 advantage going into the closing chapter. The UNB entry rallied in the fourth quarter, spearheaded by Iris Bliss and closed the gap to three points, 43-40, but wilted under the pressure as Dal finished strong. With a minute to go, the winners were on top by four baskets, 52-44, and coasted home.

The visitors worked a snappy defence well against the UNB defence and had three of their number into double figures in the scoring. Elizabeth Montgomery paced the attack with 15 points, including seven baskets. A former standout for Saint John teams, Ruth McLeese accounted for six baskets and two free throws. Carolyn Fleming accounted for 11 credits, three of them foul heaves.

However, the individual star on the wood was UNB's Iris Bliss. The third-year scientist from Fredericton displayed a deadly shooting form to dump through an amazing 30 points. She tossed in 11 field goals, mostly on soft push-shots. In addition, she dipped eight free tosses.

Plagued by bad-luck in her sniping, Lois Lange had to settle for 12 credits. Lois compiled four baskets and a like number of gift markers.

Referees Gwen McMullin and Marvin Betts were strict in their whistle-blowing and called no less than 65 fouls. UNB drew 29, Betty Evans five of them.

On the resulting trips to the free-throw line, UNB connected for points on 15 of 27 while Dalhousie three through 12 of 29.

Red Bloomers' next game in the seaside loop will likewise be played at home. It's set for Feb. 3rd with Acadia University of Wolfville, N.S., slated to trade baskets with UNB. The loss leaves UNB with a 5-2 record for activities so far. The girls from up to hill captured five of six exhibition starts.

Summary
Dalhousie—Fleming 11, Matheon 5, Chipman 7, Montgomery 15, McLeese 14, Stacey, Thompson, MacDonald, Wright, Anthony, MacPherson.

UNB—Bliss 30, Lange 12, Johnston, MacNeill, Hornbrook 2, Evans 3, Ramey, Scovill, McDade, Caughey, Edwards, Baird.

Score by Quarters:
Dalhousie 14 15 12 11—52
UNB 12 10 11 14—47

Referees: Gwen McMullin and Marvin Betts.

PUCK PLAY
The results of last week's play in the Intramural Hockey League are as follows:

In the first game on Friday evening, Freshman Engineers A swamped Science 5-0. Don Clark with two, Bill Allen, Alfred Wallace and Bill Allen counted for the victors.

Foresters won a close victory over arts by a 2-0 edge with Ian Campbell and Ed Wong doing the scoring.

On Sunday Foresters 12's added another victory as Ron Harrison netted three against the lone Junior Engineers tally chucked up by Les Blight.

Ted MacElman with two, Maynard Bennett and LeRoy Rankin rapped up four to edge Intermediate Engineers 4-3. Walter Dohaney, Dick Fitzmaurice and Dave Gammon scored for the losers.

Freshman A's defeated Senior Engineers 6-0 in the third fixture. Pete Chalmers with two, Bryce Allen, Underhill, George Street and Bill Stewart did the scoring.

The finale saw Science top Freshman Engineers B by a 6-1 score. Bill Smith, Mac Watson, John Burns, Dow Johnston, Bob MacKinnon and Andy Patterson counted for the winners while Auger added the lone tally for the losers.

Curling Club On Prowl For Ice

The club was then informed by Athletic Director, P. C. Kelly, of the unfortunate news that the curling, which had been scheduled to take place in the Lady Beaverbrook Rink on Sunday evenings, had to be cancelled because of a request from the Ministerial Association of Fredericton that the Rink be closed on those same evenings.

A Ways and Means committee, consisting of Bill Patterson, Irvine Read, and Peter Kent, was appointed to assist the executive in looking into possibilities for curling during the remainder of the season, and it was decided that should no ice be available this winter, the same executive would procure ice at the beginning of the curling season, 1956-57, and thus provide a full winter of this sport for all curling enthusiasts on the campus.

Make Caughey was elected president and John Woods, vice-president, while Keith Pugh and Alex Matiece were chosen secretary and treasurer, respectively.

Caughey told the members of the budget that he had submitted to the A.A.A., and commented on the acquisition of one rink of stones from the St. Andrews Curling Club.

University Skiers Find Snow While Others Can't
Peter, Peter, snow flake senter, Make each day a weather breeder; When the clouds a storm foretell; Make it really snow like hell.

As an addition to last week's Progress on Skis: In France a new skiing garment has been designed out of latex and nylon which will cut one second off a racer's time over a mile at 50 mph, and the French Olympic team has a new ski which is adjustable as to camber, but the Olympic Committee is debating whether or not to allow its use.

SWIMMERS TO PORT
UNB Junior Varsity men and a combined Varsity and Junior Varsity women's teams will meet a squad representing the Saint John High Schools in the Port city this Saturday. A return match is slated for the UNB pool on the 4th of February as part of the Winter Carnival.

Month Remains For Bird Work
With only about a month remaining before the Maritime Intercollegiate Athletic Union tournament, UNB's varsity badminton team is hard at work sharpening up for the big test. The final team will be picked in about two weeks.

Team officials state the prospective players must register a 100% turnout at workouts to make the team and qualify for varsity letters. The following players are candidates to represent the Red and Black:

Co-Eds—Di Johnstone, Iris Bliss, Barb Fisher, Barb Evans.
Men—Allan MacDonald, Al Stimen, Ian Watson, Ken Beanlands, Warren Robertson.

All others interested in varsity badminton are asked to telephone Dick Brown as soon as possible. You can reach him at 3565.

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What kind of an Engineer are YOU?

CIVIL?

Now that special branches of the profession have developed, what is the field of service of the man now known as a civil engineer? It remains a very wide one. While civil engineering is not directly concerned, for example, with the designing of machines or the operation of mining or chemical processes, it has to do with the provision of the foundations for machines and with the structures that house them. Roads, tracks, and bridges for transportation; dams, tunnels, and pipe lines feeding the turbines of water power plants; reservoirs, tanks and distribution systems for water supplies — all the static or stationary structures involved in modern engineering are in the field of the civil engineer.

His work covers all that may be included in the term "structural engineering", not only the design of structures and their foundations, but also their construction. In order to appraise a proposal or to locate the works to be built, surveying is necessary and forms part of the training of every civil engineer. Good maps and charts are essential for many purposes and they are the work of civil engineers and land surveyors.

Municipal engineering is a division of civil engineering, the provision of adequate water, sewerage and highway systems being essential to city life. City management is a special outgrowth of municipal engineering, the broad training of civil engineers fitting many for work of this kind. Correspondingly, in Canada and other parts of the world, irrigation projects are directed by civil engineers, and many great works have been built for this purpose, of which the Boulder Dam is an outstanding example.

ELECTRICAL?

Electricity has become a dynamic and vital part of all phases of life, in the factory, in the home, in transportation. Although electrical phenomena have been known for hundreds of years, the commercial use of electricity dates back to 1831, when Faraday demonstrated the first dynamo. Since then, the telegraph, electric light, and radio have followed in rapid succession until today the applications of the electrical principles are practically limitless.

Electrical engineering can be divided into four branches: electrical equipment manufacturing, light and power, communication and electronics. The electrical engineer engaged in equipment manufacture may aid in the design and manufacture of motors, radios, household electrical equipment, etc. The field of light and power includes the design and operation of power generation and utility plants. Communication engineers are concerned with research and development, and the problems affecting the fields of radio, telegraph, and telephone. Electronics generally includes special applications of electrical principles involved in radar, television photo-emission, and countless other devices of importance to industry.

Regardless of the electrical engineering field he enters, the electrical engineer must combine several phases of science in his work. The application of the electrical phenomena requires a working knowledge of algebra, calculus, and trigonometry in designing motors, communication equipment, electrical devices, and electric power distribution systems. He must often use this theoretical knowledge of mechanics, heat, light or acoustics in practical knowledge application of such devices as illumination systems, transformers, public address systems, and electrical power driven machinery.

Over one-fourth of electrical engineers are employed by manufacturers of electrical equipment; twenty per cent are engaged in communications; and seventeen in power generation and public utilities.

Because of the broad range of electrical engineering, the new entrant in the profession will probably spend one or two years in a training program conducted by the concern employing him, during which time he will be expected to become familiar with the various applications of the electrical principles in the plant, and the plants



equipment. With additional experience, he may achieve a position in management or research.

Government agencies predict that the use of electrical power will double in the next decade. Moreover, new applications or radar, the expansion of ultra-high-frequency carrier systems and to television, and the development of other new uses of electrical principles in industry and communications indicate a steady expansion of the profession which should provide many new areas of electrical engineering in the next decade.

MECHANICAL?

Many years ago, one of our ancestors probably discovered that crude wheels attached to an axle relieved him of the task of carrying his food, water, and fuel on his back. Perhaps when his cart became mired in the prehistoric slime; he cut a long pole, braced it against the wheels, and pried them loose. It is not inconceivable to suggest that, in employing the basic principles of the wheel and the lever, some enterprising primitive man became the first mechanical engineer. For many centuries, man's knowledge of mechanical principles was so limited that no specialists were required to apply them. But, the industrial revolution, accelerated by the invention and application of many new types of machinery, created a need of men whose training and experience qualified them to design and construct new machines.

In general, mechanical engineers design and supervise the operation or manufacture of machines for producing, transmitting, or using power. Power generating machines include steam, internal combustion, and hydraulic engines. Transmission equipment includes conveyers, gears, shafting, and heat transfer equipment. Machines that use power include lathes, fans, industrial furnaces, automobiles, locomotives and countless other machines which are indispensable to factory, home and office.

Mechanical engineers find employment chiefly in industries which process iron and steel, and which manufacture machinery and transportation equipment. They may do research into methods of producing basic metals, or they may plan, design or supervise the construction of drill presses, gasoline engines, jet engines, washing machines, refrigeration equipment, machine tools, etc.

The engineers first job usually resembles a professional apprenticeship in which he gets practical experience and learns to apply his theoretical knowledge. Mechanical engineers frequently work at a factory production job or in the drafting department. Later promotions may lead to positions as assistant engineers, designers, superintendents, managers, or chief engineers. Many mechanical engineers who possess exceptional ability occupy executive positions.

Mechanical engineers constitute the largest professional group in the U.S.; they number about 130,000.

The prospective mechanical engineer can look forward to excellent employment opportunities in the field of his choice.

LETTERS TO THE EDITOR (judging from that note), they (Continued From Page 2) would expect from their fellow-people, who, unCanadian-like, campus organizations, such as had not organized themselves, Forestry association and Engineering Society, maintaining their place on the campus none the less.

A great pity! A pedestal constructed by a great many earnest degraded itself to an organization of artsmen over many years has been destroyed by a direct blow from within their own

Are You Prepared?

Has the average graduate engineer the preparation required to enter industry, and be worthy of his degree? Has he had the opportunity for adequate preparation through the university? Does his passing exams give him the right to feel prepared? Whose fault is it if he is not prepared? Whose loss is it if he is not prepared? (a) His (b) Industry's (c) or the university's?

The average engineer graduating from this faculty is expected to have a basic knowledge of engineering fundamentals plus enough practical experience in the field so that he can integrate himself into industry quickly.

In most cases it can be safely stated that—the student does not know what phase of industry he is interested in until he is in his graduating year or later; he has not gained any practical experience in any particular industry; his knowledge of engineering principles is not gained for application reasons entirely, but rather in order to pass examinations; his applications of these fundamentals in labs is not usually done to his advantage; he does not make good use of the professors and lecturers, the brains of whom he is paying \$600 a year to pick.

The practical experience system used in Canada is probably not as effective as the apprenticeship system of Great Britain because experience seldom gained a long desirable and advantageous lines here, whereas in the U.K. the engineer has two years to get oriented before professional demands are made on him.

The engineer loses because he is not prepared to carry out the function required of him by the firm. Many young engineers are disliked by people who must co-operate with them because they are put in a position where their administrative authority is not backed up by the kind of technical knowledge that can only be gained through experience.

The firm loses because engineers are in high demand and the company must pay high wages to a graduate while he undergoes an extensive training program.

For both these preceding reasons a bad taste would reflect back on the University.

It would be advisable for larger companies to send their personnel men to the University to interview the freshmen, offering summer training programs and possibilities for jobs after graduation. It would be much less expensive to train, or lose, an undergraduate trainee than a graduate one. The student's incentive would increase and the failure rate would probably drop.

—(Reprinted from "Toike Oike")

group, in an attempt to organize, as everything apparently has to be organized. Individuality is no virtue anymore, it seems.

I sincerely hope I do not stand alone in my regret. My last and final hope is that the science people, who feel in that direction will be able to restrain their organizational urges and refrain from erecting an unnecessary counterbalance to the now existing illustrious groups.

Gino Blink
Science

Dear Editor,

The Students' Representative Council has a deficit of \$508.81 in its Spring Budget. Tonight the members of the SRC and a few concerned students who are interested in how their \$17.00 SRC fee is spent will meet in the Oak Room of the Student Centre to complete the Spring Budgets.

This Spring the SRC has a disposable income of \$1282.77 more than last Spring yet the budgets total \$508.81 more than the funds available. The figures above do not include the \$600.00 loan to the Winter Carnival. This deficit will have to be cut at the meeting tonight.

I sincerely hope many of our fellow students will take the opportunity presented tonight to show an interest in their money and in the student government of UNB. It is true that only our elected representatives have a vote but the students have the freedom to express their opinions in the meeting and to advise their representatives on any matter.

Yours truly,
Jim McKenzie
Treasurer SRC

Fictionary Dictionary

BACHELOR: A man who never makes the same mistake once, or one who falls into a woman's arms without falling.

BACTERIA: The rear of a cafeteria.

BAD ACTOR: A man who is egged on by ambition and egged off by the audience.

BEEF: A potato with high blood pressure.

BLOTTER: Something you look for while the ink dries.

BOY: Like a canoe; he's handled more easily if paddled in the rear.

BRIDE: Hit or miss proposition. If you don't make a hit you remain a miss.

COLD CASH: So called because few of us can keep it long enough to warm it up.

COLLECTION: Church function in which many take no more than passing interest.

COURTSHIP: Period in which the girl looks around to decide whether she can do any better.

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ENG. SOCIETY SPONSORS TOURS TO BEECHWOOD, CAMP GAGETOWN

Gagetown Proves Interesting

The afternoon of November 23rd was a gay day for some sixty 4th year engineering students as they embarked on an educational tour of Camp Gagetown. As the two bus loads of happy tenors left the Civil Engineering building the chant of the "Engineers Song" could be heard across the camp. With hoarse throats, the tribe soon arrived at their destination. Colonel Akerly, army liaison officer at Camp Gagetown and an engineer himself, was on hand to welcome the boys, and distributed miniature site maps of the camp. With Colonel Akerly and Professor Stevens taking the lead in an army panel truck, we were off on a nineteen minute tour which took us across newly constructed roads. Many stages of building construction were noted and very good commentaries were given by John Abernethy and Bill Sears as we rumbled along the streets.

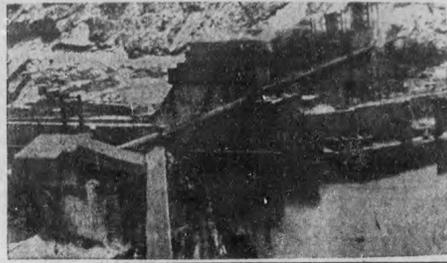
The buses soon came to a halt and we disembarked. There before us stood the Central Heating Plant which was found to be most impressive. The huge building is 100 feet tall and towering above it a 175 foot smoke stack. A large area on the right of the plant was reserved for storage of coal. This coal is then taken to a storage room located in the plant itself. The room is large enough to hold four carloads and is used to thaw the coal. The fuel is then delivered by automatic conveyors to the hoppers.

The eight enormous coal hoppers are located in the upper storeys of the building of which six are to be used upon completion and the remaining two hoppers to be kept as spares. Bulk Minto coal will be placed into the hoppers, then dropped through shutters into a pulverizer, which is located in the basement. From here the pulverized coal is conveyed through an eight-inch pipe to one of the three boilers where it is consumed.

A vacant spot was left for the construction of an additional boiler should the need arise. At the time of the tour, one boiler was in operation using oil as fuel until January 1st, at which time coal would be used.

Four men are required to operate the plant, all of which are civilians. These include a chief, shift engineer, and two firemen.

Two hundred and ten tons of coal are consumed by the plant daily giving it an output of 70,000,000 BTU/hour. It is estimated that about 20% of the coal would remain as ash. This amounts to about 40 tons a day.



Seniors Visit Power Site

A gay gathering of some thirty five senior engineers and three guards (engineering professors) toured the Beechwood Project last November 24th. The tour included a glimpse of the Muniac Road diversion scheme and a further diversion . . . at Muniac a crew was busy blasting bedrock some thirty feet thick. Large quantities of fill made the existing road hard to find but only the bus driver seemed perturbed.

The lunch time whistle was calling the crews back to work when the bus stopped in front of the cafeteria for food. The Engineers in charge of Beechwood were on hand to welcome the group and shortly after lunch the row divided party set forth to seek out the secrets of Beechwood. The picture above shows a complete view of the west section of the project. The work was divided into the construction of the cofferdams and

A neat vacuum system would be used to clean the boiler of such ash, and piling it so that it may be trucked away.

From the heating plant spread twenty-two miles of heating lines with pipe reduction from 10 to 2 inches. Six circulators and two standbys are also used in the lines. Water leaves the plant at 366 degrees fahrenheit and returns at 180 degrees fahrenheit with a constant pressure of 125 p.s.i. being maintained.

For a safety measure a 375 kilowatt mobile power plant is kept on location, in the possibility of power failure by the New Brunswick Power Commission.

Colonel Akerly later stated that by the end of 1956, the camp would accommodate 5500 troops permanently. This indicates the tremendous progress that is being made by the construction firms.

Professor Stevens thanked the Colonel for the splendid tour and the engineers halls of U.N.B.

ENGINEERING AT UNB (Continued From Page One)

Brunswick was the first university in Canada to inaugurate instruction in engineering.

It wasn't until 1873 that the third school of engineering was established. This was at L'Ecole Polytechnique. Other Canadian Engineering schools that have been established are: University of Toronto (1878), Queen's University (1893), University of Manitoba (1907), Nova Scotia Technical College (1908), University of Alberta (1909), University of Saskatchewan (1912), University of British Columbia (1915) and Laval University (1937).

Following its infancy, engineering at the University of New Brunswick grew slowly. It was not until August 15, 1889 that a Chair in Civil Engineering and Surveying was established. Even then there were insufficient funds for the required instruments and equipment.

Electrical Engineering was the next to be recognized and in 1893 George M. Downing was made Professor of Physics and Electrical Engineering.

In 1900 the graduates in engineering were still receiving certificates of graduation similar to that given to Henry Ketchum in 1862. However, at the graduation exercises in the spring of 1900 the first degree in engineering was conferred.

It is worthy of note that the first degree in electrical engineering may be seen in the electrical building where it is prominently displayed. It was conferred to Kenneth Chestnut in 1904.

1900 also saw the construction of the civil engineering building. The University had to build its own power line from Charlotte Street to the new building. The wiring in the building itself was done by the students and the professors.

In 1902 the Engineering Society was formed and in 1907 the degree in engineering was changed to a B.Sc. in Civil and Electrical Engineering with provision made for an M.Sc.

Lectures in Mechanical Engineering were first given in 1908 but it was not until 1953 that the

pouring of concrete for the sluice gates.

The mixing plant at Beechwood supplied all the concrete needed for the project. The cement was shipped by railway car to the site where it was stored in large tanks next to the mixing plant. The aggregate supply pile was quite an engineering achievement. What looked like a huge pile of stones and sand had beneath it a large metal tube with a conveyor belt. Inspection of the inside of this tube revealed numerous traps through which specified aggregate sizes could be obtained and conveyed to the plant. The plant was mechanically operated and a handful of men produced large quantities of concrete merely by pushing the right button. The concrete was carried by a conveyor belt (see foreground of picture) where it was then pumped through pipes across a specially constructed suspension bridge, and then poured into the forms of the sluice gates. Good concrete was essential to the project and every effort was made to produce the best mixture. The sieving of the aggregate was carried out by a processing machine obtained from California. This was the first use of this process in Canada. The usual crushing and preliminary breakdown of the aggregate was noted, but an additional treatment for obtaining aggregate of proper density was used when the aggregate was transported to a large mixer. The mixer was filled with a heterogeneous mixture of aggregate, water and magnetite. Agitation of the mixture causes the separation of the material in the mixer into two constituents; that which is more dense than the magnetite and water mixture and that which is lighter in weight. The desired mixture was easily removed, graded and shipped to the concrete plant. The magnetite was recovered by a large worm gear and electromagnetic roller.

The tour was completed with the inspection of the offices, machine shop, boiler house and stores. Due to the location, the Beechwood Project was self-sufficient. All work on the proposed dam is being done at the location. A chat with the working staff revealed experienced and skilled men were being used. One of the men had previously laid sheet piling in Africa.

LIFE

Man comes into the world without his consent and leaves it against his will. During his stay on earth his time is spent in one continuous round of contraries and misunderstandings. In his infancy he is a devil; in his manhood he is everything from a lizard up. In his duties he is a damn fool; if he raises a family he is a chump; if he raises a cheque he is a thief and the law raises hell with him. If he is a poor man, he's a poor manager and has no sense; if he is rich, he is dishonest but considered smart; if he is in politics he is a graffer and a crook; if he is out of politics you can't place him—he is an undesirable citizen. If he goes to church he is a hypocrite; if he stays away from church he is a sinner. If he donates to foreign missions he does it for show; if he doesn't he is a tightwad. When he first comes into the world everyone wants to kiss him—before he goes out everyone wants to kick him. If he dies young, there was a great future in front of him; if he lives to a ripe old age, he is in the way.

Life is a funny proposition after all.

respectively.

The history of engineering at the University of New Brunswick has been a long and outstanding one. Even now, with such a great demand for engineers, facilities must be enlarged. Teachers will be called late this winter on the additional structure which will connect our two present buildings.

WOMAN

She's an angel for truth, a demon in fiction—
A woman's the greatest of all contradictions;
She's afraid of a cockroach, she'll scream at a mouse.
But she'll tackle a husband as big as a house.
She'll take him for better, she'll take him for worse;
She'll split his head open and then be his nurse.
And when he is well and can get out of bed,
She'll pick up a teapot and throw it at his head.
She's faithful, deceitful, keen sighted and blind;
She's crafty, she's simple, she's cruel, she's kind.
She'll lift a man up, she'll cast a man down.
She'll make him a hero, her ruler, her crown.

You'll fancy she's this, but you'll find that she's that,
For she'll play like a kitten, and fight like a cat.
In the morning she will, in the evening she won't;
And you're always expecting she will, but she won't.

JOKES

A forester knocked at the heavenly gate,
His face was scarred and old;
He stood before the man of fate
For admission to the fold.
"What have you done?" St. Peter asked,
"To gain admission here?"
"I have been a forester sir,
For many and many a year."
The pearly gates swung open wide;
St. Peter rang the bell;
"Come in and choose your harp," he said,
"You had your share of hell".

Two men slightly under the weather were asking the desk clerk in a hotel for a bed with two rooms.

"You mean a room with two beds", he replied.
"Yah, thash what we want", said one, and very shortly they found themselves in the same bed.

"Shay", said one of the men, "there's someone in my bed".
"Now that you mention it", said the other, "there's someone in my bed too".

A terrific struggle took place for several minutes.
"I got mine out", said one finally. How did you make out?"
"Not so good", replied the other, "he threw me out".

"That's all right", said the first, "come and sleep with me".

A box has been placed in the Students' Centre and all students are asked to submit photos. The photos should be glossy prints (not negatives) and at least 2" by 2". Please submit only photos that are reproducible. A caption may be included if so desired.

Why Worry?

We wonder why folks worry . . .
There are only two reasons for worry—either you are successful or you are not.
If you are successful there is nothing to worry about. If you are a failure there are two things to worry about. Your health is good or you are sick.
If your health is good there is nothing to worry about. If you are sick there are two things to worry about. You are going to get well or you are going to pass on.
If you are going to pass on there are two things to worry about. You are either going to Heaven or you are not.
If you are going to Heaven there is nothing to worry about, but if you don't, you'll be so busy shaking hands with old friends, you won't have time to WORRY.

SUCCESSFUL WILL

The following is what one would call a successful will.
A merchant who was told that he had only a month to live, called a lawyer to have his Will drawn up.

"Fix it so that my overdraft at the bank goes to my wife—she can explain it. The debt on my car goes to my son—he will then have to go to work to keep up the payments. Give my goodwill to the supply houses—they took some awful chances on me and are entitled to something. My equipment you can give to the junk man—he has had his eye on it for several years. I would like six of my creditors to be pallbearers—they have carried me for so long they might as well finish the job."

The Heir of the Ages

Dating back to utmost antiquity, Engineering was an Art for long centuries before it became a Science.

Tubal Cain, legendary father of the young Engineer, and placed by Genesis, seven generations after Adam, was described as the instructor of every artificer in brass and iron.

The heir of a great tradition, one which has recognized no aristocracy but genius—the primitive smelters of iron and copper; the ancient workers in bronze and forgers of steel; the discoverers of the lever, the wheel, and the screw; the daring builders who first used the column, the arch, the beam, the dome, and the truss; the military pioneers who contrived the battering ram and the catapult; the early Egyptians who channeled water to irrigate the land; the Romans who built great roads, bridges, and aqueducts; the craftsmen who reared the Gothic cathedrals—these are his forebears. —(From, "A Professional Guide for Junior Engineers", by William E. Wickenden.)

A canny Scot was engaged in an argument with the conductor as to whether the fare was to be five or ten ten cents. Finally the disgruntled conductor picked up the Scot's suitcase and tossed it off the train just as they were crossing a long bridge.
"Hoot man", screamed Sandy, "first you try to rob me and now you've drowned my boy".

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