

# Engineering

## BRUNSWICKAN

VOL. 86, No. 11

FREDERICTON, N.B., WEDNESDAY, FEBRUARY 9, 1955

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# PROFESSOR LOANE'S PASSING SAD NEWS TO THE ENGINEERS

## AGREEMENT NEAR ON ATHLETICS

### FUNERAL IS LARGELY ATTENDED BY STUDENTS, FRIENDS AND ASSOCIATES

Chances that agreement between the S.R.C. and the administration on the conditions governing the proposed Athletic Board will be reached in time for the Board to be set in operation next fall are looking better all the time.

The eight-man committee from the S.R.C. met with members of the administration for the second time in two weeks on February 1st and ironed out several points which made mutual agreement almost inevitable in the near future.

No changes are to be made in the structure of the Board without the sanction of the S.R.C.; and no deletion or admission of sports is to be permitted without S.R.C. sanction.

It is believed that the formation of the Board will be beneficial to all sports on the campus by providing the athletes with more and better equipment and travelling conditions.

Those present at the meetings of January 21st and February 1st were: Athletic Director, Pete Kelly; President Mackay; Business Manager, Macaulay; A.A.A. President, John Bliss; S.R.C. President, Don Fowler; S.R.C. vice-president, Bob Cass; Council Members, Ron Pearsall, Jim McKenzie, Betty Styran, Doug Sleeman and Charles Cheeseman.

The results of the two meetings will be taken up by the S.R.C. this evening at 7:30.

The Board, as decided upon at the meetings, will consist of: Chairman, President Mackay and six voting members of the faculty and alumni on the one side; and six voting members of the Students' Representative Council and the A.A.A. on the other. One member of each side is to be a female; and there will be two non-voting members of the faculty to act in an advisory capacity.

S.R.C. passes will still be honored as at present; and during the next two years there will be no increase in the tuition fees for athletic reasons.

All matters voted on by the Board will be passed only when a two thirds majority of all members present are in accord.

### TRIBUTE TO C. HERBERT LOANE

It is difficult indeed for us in the Faculty of Engineering to reconcile ourselves to the loss of our own "Herb" Loane. It is a great personal loss to each of us, as well as a serious loss to the University.

As a staff member, a classmate or as a student, he showed the traits that made him a gifted instructor, much loved and esteemed by us all. Our University, and particularly our Faculty, can ill afford such a serious loss.

Our sincere and heartfelt sympathy is extended to his sorrowing family.

Earle O. Turner,  
Dean of Engineering.

### NEWS BRIEFS

#### ENGINEERS LOUNGE

The chance for an engineering reading room may be going out the window. As many now realize an addition to the civil building is planned and rumor has it that space for a lounge has been scrapped.

### John R. Dean . . . Athlone Fellowship Winner



John R. Dean, third from left, a fifth year Mechanical Engineering Student, is shown above handing his letter of acceptance to Dr. H. H. Burness, extreme left, of the U.K. Ministry of Education, a member of the Athlone Selection Committee, which met here last month. Looking on are: J. F. Saunders, second from left, U.K. Trade Commissioner of Halifax, and Dr. E. O. Turner, extreme right, Dean of Engineering.

John R. Dean, senior mechanical engineering student, is one of thirty-eight Canadian Engineering graduates to win an Athlone Fellowship this year. Jack was named an Athlone Fellow following a meeting here on January 27. He became the first mechanical engineering graduate from U.N.B. to win an Athlone Fellowship, as this will be only the third graduating class of mechanicals.

A native of Campbellton, Jack will spend two years doing post graduate work in hydro-electric power in the United Kingdom. Beginning this fall he will spend one year in the U.K. in some industry related to the manufacture of hydro-electric power equipment.

Jack came to U.N.B. in September of 1950 on a Fannie Chandler Bell Scholarship from Campbellton High School. At present he is a Senior Class representative on the S.R.C. and secretary-treasurer of the Senior Class. He is also an active member of the U.N.B. Engineering Society and the Engineering Institute of Canada.

A son of Mr. and Mrs. Otto L. Dean, Campbellton, he is married to the former Leitha M. Turnbull of Fredericton. They have one child.

Members of the Athlone Selection Committee this year were Neil Pritchard, deputy High Commissioner for the U.K.; Dr. H. S. Burness of the U.K. Ministry of Education; Dr. E. O. Turner, U.N.B. Dean of Engineering, and B. H. Hagerman of the Provincial Government's Bridge Department.

### Good Time to Graduate

This is a good time to be entering one of the professions in Canada. There's a demand for professional men in almost every field of industry.

So says the survey of Industrial Requirements for Professional Personnel 1952-1956, produced by the Department of Labor in cooperation with the Executive and Professional Division of the National Employment Service and the Unemployment Insurance Commission.

A total of 774 employers, employing 22% of the non-agricultural paid workers in Canada, were sent questionnaires asking their estimated future requirements. Seventeen thousand professional men work for them.

Engineers head the "wanted" field. Mechanical and electrical engineers are in the highest demand.

Why the shortage?  
(Continued on Page 6)

### DEAN'S MESSAGE

The year 1955 finds the University well supplied with Engineering students in fact it was rather surprising, when the Engineering registration was published in December, to find that we showed an increase in registration over the last two years, far above the increase in any of the other Universities in Canada.

This is gratifying of course, but poses serious problems in space and staff. We hope and trust that the Provincial Government will recognize these problems in time to prevent any reduction in present standards, and to make it possible to give each of you the attention to which you are entitled.

A new building connecting the present and Mechanical Engineering building with the Electrical Engineering building is already well along in planning and design, and needs only the necessary financing to give us badly needed space.

We are assured by those who should know, that the present high registration in Engineering will not mean unemployment for graduates at least not until 1950. That will take care of all of our present classes.

Your Dean hopes that you will have a happy and profitable year in 1955.

E. A. Turner.

Respects were paid to the late Professor G. H. Loane Sunday afternoon at St. Paul's United Church in Fredericton by professional associates, students and former students, various church groups and many relatives and friends. Following the 2:30 services the funeral proceeded to the Fredericton Rural Cemetery for interment.

Pall bearers for Professor Loane were Dr. Colin B. Mackay, Dr. A. L. McAllister, Prof. H. W. McFarlane, Prof. J. O. Dineen, Prof. R. B. H. McLaughlin and C. C. Atkinson.

Professor Loane, associate professor of electrical engineering at the University of New Brunswick, died Friday afternoon at the Victoria Public Hospital here after a year of falling health. He had been seriously ill for the past week.

Prof. Loane resided with his wife and two children at 384 Parkhurst Drive, Sunshine Gardens.

He was born at Campbellton, Oct. 28, 1921, son of Mrs. Eliza and the late W. J. Loane. A graduate of Campbellton high school

and the University of New Brunswick, Prof. Loane had an outstanding academic career. He was among the first group chosen for Beaverbrook Overseas Scholarships attending London University in 1947-48. He received his electrical engineering degree from UNB in 1943, and joined the RCAF. He served until the war ended at Winnipeg, Man. with the rank of pilot officer.

After his discharge, he was employed for two years with the Bell Telephone Co. Ltd.'s engineering division and three years with the engineering department of Canadian National Telegraphs, Toronto.

### Receives MSc Degree

Prof. Loane joined the faculty of UNB in August, 1951, as an

### TO CHOOSE QUEEN AT FORMAL

Many Engineers are eagerly awaiting the Engineering Formal with fond memories of last year's dance still in mind. This year's affair promises to be bigger and better and large numbers of party loving engineers are planning to turn out.

The big event of the ball this year is the choosing of the Engineering Queen. This is the first year that the engineers at U.N.B. will choose a queen but it is expected that the event will become ritual in the future.

The ceremony will get under way with the announcement of the judges choice. There will be a short coronation procession followed by the crowning by the President of the Engineering Society. The crown is to be design of flowers. The queen shall also be presented with a gift from the engineering students. The judges will be Dr. and Mrs. E. O. Turner, Prof. and Mrs. E. E. Wheatley and Mr. and Mrs. R. E. Tweeddale.

Other events during the evening will include special dances, at which prizes will be given.

Dancing gets under way at 9:30 p.m. on Friday at the Beaverbrook Hotel.

### TRIP TO HAVELOCK

The intermediate and senior engineers were guests of Maritime Cement Company at Havelock last term. The Company not only showed them through their plant but also gave them a meal and provided a bus to Havelock. The trip proved so popular though that three more cars had to be provided by the engineering society.

The plant at Havelock is the only Portland Cement Plant in the Maritimes and is well located as Limestone, Gypsum and shale, the three main ingredients of Portland cement are found nearby and are transported to the plant by truck.



Prof. G. H. Loane

assistant professor of electrical engineering. He received his master of science degree in October of last year at the first fall convocation of UNB Law School in Saint John.

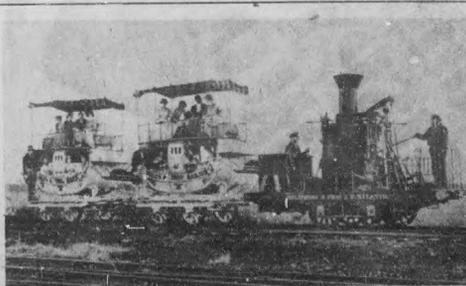
He was appointed to the post of associate professor of electrical engineering at UNB in September, 1954.

He was a member of St. Paul's United Church, Fredericton, and active in church activities. Prof. Loane was a member of the American Institute of Electrical Engineers, the Engineering Institute of Canada and the Association of Professional Engineers of New Brunswick.

Besides his wife, the former Dr. Anna L. Miller, of Carleton, N.S., and his mother, of Campbellton, he is survived by his son, Tommy aged 4, a daughter, Jane, an infant, and a sister, Miss Catharine Loane, of Montreal.

Prof. Loane's widow is a graduate in medicine of McGill University.

# THE OLD . . . AND . . . THE NEW

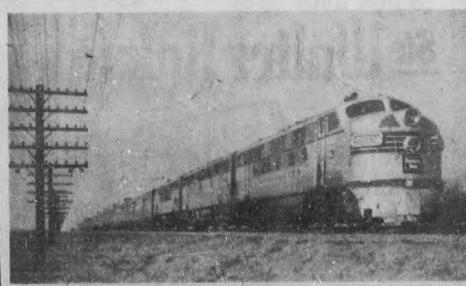


How would you like to travel from Fredericton to Montreal on breezy Bessie shown on the left. Some trip eh! Maybe even make it for the playoffs in the forum (in 1958).

This is another illustration of engineering achievements during the past 100 years or so, and how at least one of the discomforts of living have been made easier. It has often been remarked that there is no comparison between the engineer and the doctor. The engineer is merely a rugged character who walks about with a transit on his shoulder and a bottle on his hip whereas the medical man is the cream of society. While this may hold a particle of truth, it should be noted that the engineer can proudly look about and point to many outstanding examples of human effort—bridges, buildings, tunnels, radio and electronics to mention only a few while all the doctor can do is gaze at the tombstones and hope for a long life.

Seriously, however, the engineer's future seems bright indeed.

Tomorrows luxuries may well be today's headaches.





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### Your Engineering Society . . .

Your Engineering Society holds, as does any other organization, a storehouse of experience for anyone who is willing to tap it. Experience that is necessary in business and industry and cannot be had from books or study. This fact, obvious as it may seem, goes unheeded by a large percentage of engineering students.

In being canvassed for membership many gripe about the One Dollar dues. They claim they don't get anything in return. An ounce of thought would smother this idea. The savings made from only the privilege of having available the engineering stores, which are operated by the society, covers the membership fee many times. Profit made by the stores is small, usually about 10% (while the regular retail profit in the city ranges from 25% to 40%).

There is, however, another type of return that is of much greater value to the student. This is the experience gained in being an active member of the society. Here the student benefits in a number of ways.

1. He becomes acquainted with society organization.
2. He develops his powers of concentration and ability to make clear, concise statements.
3. He develops his speaking ability.
4. He widens his interests.

These things along with the most important of all, the development of personality, are invaluable. It seems odd that so few take advantage of this opportunity.



"I should have taken Engineering"

Enjoy a pipe with  
**Sir Walter Raleigh**  
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## Foresters Elect Queen

Foresters turned out en masse last week to give an overwhelming show of approval to Miss Sylvia Broadaxe as their nominee to the position of Campus Queen. Forestry Association officials termed the large turn-out of voters "the most enthusiastic ever".

When approached by Engineering Brunswickan reporters, Miss Broadaxe, who was smartly dressed in lace trimmed overalls appeared elated over her selection.

"I haven't been so excited", she related, "since the boom broke".

A native of EEL Lake settlement, R.R. 3, a small community fifty miles north of Boisetown, Miss Broadaxe came to UNB this year on a New Brunswick Clover and Alfalfa Growers Association Scholarship.

Her studies, particularly in the field of clover have given her intimate contact with many foresters. Miss Broadaxe is active in the social life of her community being choir leader of the Reformed New Truth Church of Immortal Light Inc. She is also champion pulp peeler of the Lower North-west Branch Miramichi River Valley.

Sylvia's unique personal charms, particularly her tree chopping prowess, have captivated the hearts of all foresters. One senior forester with a moonstruck look in his eyes was heard cooing into

## New Fangled Bathroom Amazes Foresters Family

Toronto, Ont. — Here is a mother's letter to her son in Forestry at U.N.B.

Dear Son:—

Your pa has a real good job now, the first he has had in forty-eight years. We are a good deal better off than we were. Your pa gets 14.95 every Thursday so we thought we would do a bit of fixing up. We sent for one of them new fangled things they call bathrooms you hear tell about in some homes. It is put in shape by a man called a plumber.

One side of the room is a big long thing like the pigs drink out of, only you get in that and wash all over. On one side is a little white thing they call a sink. This is for light washing such as your face and hands.

But over in the corner now son I'll tell you we've really got something there—this little contraption you put one foot in and wash it clean and then you pull a chain and you get fresh water for the other foot.

Two lids came with the dern thing and we ain't got no use for them so I am using one for a bread-board and the other had a round hole in it and framed grandpa's picture.

They are awful nice folks to deal with, they sent us free a big roll of writing paper with it.

Take keer of yourself,  
 Maw.



her ear, "Just you and me, and a little Lombard Chain Saw".

Foresters are to be commended on their selection. They not only gave evidence of an increasing ability to discern physical beauty (see cut) but also to appreciate those intangible qualities which make the difference between an ordinary girl and a good timber cruiser.

Engineers unanimously endorse the statement of one enthusiastic forester, "There's the kind of woman every forester deserves".

He used to have a yacht and a dozen women, but all he has left is a row boat and a couple of oars.

## SRC BUDGET

On Wednesday, January 26, The Students' Representative Council held their final Spring budget meeting, and after one or two minor cuts in the proposed budgets, wound up with a surplus of \$236.02.

The budgets were passed as follows:

Disposable Income	\$11,245.56
Brunswickan Deficit	\$ 1,169.89
S.R.C.	\$ 90.00
A.A.A.	5,155.00
N.F.C.U.S. Levies: 790 @ \$0.25	197.50
Maritime Conference	14.10
Social Committee	780.00
Brunswickan	1,060.00
Radio Club	76.45
Year Book	2,250.00
Debating Society	63.60
P.A. System	10.00
Non-Athletic Awards	60.00
W.U.S.	83.00
<b>Total Budgets</b>	<b>\$9,839.65</b>
Plus Brunswickan deficit	1,169.54
	<b>\$11,009.54</b>
	<b>Surplus \$ 236.02</b>

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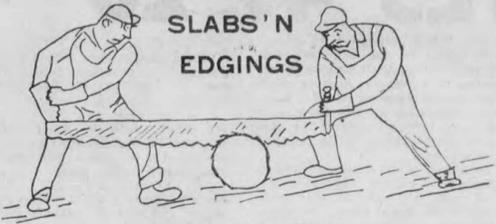
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# FEATURES



SLABS 'N EDGINGS

by Jack, Jim and Paul

The regular meeting of the Forestry Association was held on Monday night February 1st. General business was concerned mostly with Monte Carlo. Nite which is to be held on February 20th after the basketball game.

After the business was completed an interesting talk was given on "Big Game" by Mr. Bruce Wright who is director of Fish and Game for the Department of Lands and Mines. This talk was followed by the usual coffee and do-nuts and a movie on the 1954 World Series. Surprisingly enough, many Electrical Engineers turned out to see this.

Monte Carlo is well under way with all the old stand-by games: Crown and Anchor, Roulette, Electric Roulette, Rainbow, Over and Under, Craps, etc. To these will be added new games.

For those who don't know what Monte Carlo is: it is a chance to try your luck. For 25c. admission you obtain \$1000 in Monte Carlo money with which you play the games. In another room there is dancing for those who wish; however, we have found that most people do not indulge in this sport as long as they are able to play the tables. Plan now to attend the Gym on February 20th. There will be a basketball game, after which the Foresters will present their fourth Annual Monte Carlo. Bring your friends.

Because the Engineers have open house this week does not mean that we should have had open house in our Reading Room last week, as several Engineers found out. They were "civilly" asked to leave. Enough said.

When the Santa Fe Railroad was making its first trip across the desert, a circus was on board. One of the monkeys died and was carelessly thrown off the train. The Indians, following the train on their ponies, stopped to look at it, and never having seen a monkey before, took it back to the medicine man to find out what it was. The medicine man looked at it for a long time, then pried open its eyelids and peered into its lifeless eyes. He scratched his head and after a few minutes replied, "Ugh, long ago Civil Engineer made love to cat."

When the President of the Forestry Association was asked how he enjoyed the Wassail he replied "Oh, yes, it was a fair party, but just a tea party compared with the Hammerfest".

Ain't gonna do it for a dime no more. Did it last night till my back was sore. Fifteen cents is now my price; I'll do it slow and I'll do it nice . . . Shoeshine, Mister?

For a Light Smoke and a Pleasing Taste



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## Confidentially

Since this is Engineering Week we'd like to draw our readers attention to the large number of budding engineers on this campus who some day hope to set the world on fire; or, of course, even if they do, they will need the engineers to help them put it out!

Last week (Co-ed Week—surely you remember) was very exciting. Due to below zero weather the various outdoor events had a sparse attendance; however, indoor events such as the Apache Dance, the climax of the week, were a rip-roaring success. Vivent les hommes francs!

The sports women in the house have been bringing home some laurels lately—the swimming team has beaten the Saint John team once and are hoping for a repeat performance again this Saturday. The girls' basketball team defeated Acadia. Unfortunately they were beaten by Dalhousie. Next week, the badminton team leaves for intercollegiate competition. Carol Ann, one of the girls of Kelly's Pool Hall, decided that billiards were detrimental to her health, so she went home for a rest. Di Drew headed an expedition to New Hampshire.

Poor Sheila O'Connor was forced to vacate her room. There was a small accident and the walls caved in.

When are we going to be able to buy coffee on the campus? Have you noticed that many more lectures are being held in the Paradise Restaurant? Everyone is there but the profs.

We had intended to nominate an engineer as "Man of the Week" but after carefully examining all existing records and graphs, etc., we came to the conclusion that it was impossible to make a choice so we nominated Sheila Caughey, a lady, as Engineer of the Week.

## Reflections

by "LIZ"

Ah! Another of those eventful "weeks" not National Kleenex Week, not Let's Drink Orange-pop Week—but . . . Engineering Week!

When I think of Engineers, my thoughts automatically turn to Wassails. Wassails, are, as you know, taboo to the fairer sex. This reminds me that this is a women's column, and has no place in an engineers' paper. I conclude here then, with a curtsy to the noble Engineers.



## Sigma Lambda Beta Rho BY DIOGENES

Well, at last our long awaited formal is past. One unbiased observer was scouting around the building during the night and was seen to be recording some apparently interesting information which I was able to obtain for this column. The following are the notes made by the said observer.

What was in Bob Cass' room, and why were so many people going in and out of there?

Why did the people coming up from the pool look so much more dishevelled than those going down?

What were all the coconuts doing at one of the tables? What kept them from upsetting?

Why did no one fall into the pool this time?

When was the art work done on the lounge shades?

Presumably no research is to be done on these problems. Seriously, many residents feel that the formal was one of the best residence formals in some years.

Last week there was a giggling group of co-eds in the pool doing their best to look glamorous in swim suits for the sake of their "guests" during the Co-ed Week splash party. This event was followed by a splash party of our own at which most of the splashers were more fully dressed. As usual, great quantities of water were slopped on the stairs and upper floors to the chagrin of Scotty, our "Happy Wanderer."

As this is the Engineers' Brunswickan, we will make no further cracks about their new column, except that in their title we can see no representation of Electrical Engineers. Perhaps the ignition system on the bulldozer is enough for them!

And finally, from our "Verses of Famous Songs" department:

A giddy young trollop from Yale.  
Had prices tattooed on her tail;  
And on her behind,  
For the sake of the blind  
A duplicate version in Braille.

## ARTSMEN'S LAMENT

I have been balled out, balled up, held down, held up, black-jacked, walked on, cheated, squeezed and mooched; stuck for war tax, excess profits tax, state dog tax, and syntax; Liberty bonds, baby bonds, and bonds of matrimony; Red cross, green cross and double cross; asked to help the society of John the Baptist, G.A.R., Women's Relief Corps, Men's Relief, and stomach relief. I have worked like hell and been worked like hell, have been drunk and got others drunk; lost all I had and now because I won't spend and lend the little I earn and go beg, borrow, or steal, I have been cussed, discussed, boycotted, talked to and talked about; lied to, lied about, held up, hung up, robbed and damn near ruined, and the only reason I am hanging around now is to see what in hell is coming next!

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Engineering week is on, and it's not too late to take in the remainder of the stupendous events which the Engineering Society has planned for you. This evening is the setting for "Open House", an event which every engineering student, let alone every UNB student, should attend.

The Lord Beaverbrook Hotel is expected to have its biggest fling of the year when the Engineer's Ball commences at 9:30 p.m. this coming Friday. Ken Bartlett, chairman of the dance committee, said that the evening is planned to entertain everyone. Prizes will be given away with the highlight being the selection of a "Belle of the Engineers Ball".

To a request in a large newspaper for 1 Queen's graduate in Mechanical Engineering, came the following reply: "Do you want two McGill graduates or one UNB grad working half time?"

A spacious room at one of the local halls was the setting for "The Wassail", one of the most irrepressible events of the year.

The meeting was well represented by the engineering students from all years, with the freshmen in full force. The ceremony commenced at seven o'clock with the President of Alcoholics Unanimous, Local 76 (Fredericton Branch) leading a line of bleary-eyed engineers and singing the engineers' song.

After all had assembled, the president commented on an extensive survey which had been made, revealing that man had been drinking since he first set foot on earth. "Early cavemen," he continued, "did not form bands for defense, nor for means of survival, but rather, to raise grapes necessary to make their wine."

Then the freshmen, kneeling unsteadily, repeated the pledge and staggered from the platform with candles mounted in the necks of their beer bottles.

Superstition surrounds the ceremony: the boys holding bottles with Moosehead labels will marry Co-eds, while those with Red Ball labels will have a share in the Saint John Brewery. At one point in the ceremony, three of the freshmen had to be forcefully ejected from the chamber when they were caught changing their Moosehead labels.

The ceremony was adjourned with the arrival of the local police force.

## WHICH I DRANK

I had twelve bottles of whiskey in my cellar, and my wife told me to empty the contents of each and every bottle down the sink, or else—, so I said I would, and proceeded with the unpleasant task.

I withdrew the cork from the first bottle and poured the contents down the sink, with the exception of one glass, which I drank.

I extracted the cork from the second bottle and did likewise, with the exception of one glass, which I drank.

I then withdrew the cork from the third bottle, and emptied the whiskey down the sink, with the exception of one glass, which I drank.

I pulled the cork from the fourth sink and poured the bottle down the glass, which I drank.

I pulled the bottle from the cork of the next and drank one sink out of it and threw the rest down the glass. I pulled the sink out of the next glass and poured the cork down the bottle and drank the glass. Then I corked the sink with the glass, bottled the drink and drank the pour.

When I had everything empty I steadied the house with one hand and counted the bottles, corks, glasses and sinks with the other, which were 28. To be sure, I counted them again and when they came by, I had 74, and as the house came by I counted them again, and finally had all the houses, bottles, corks, glasses, and sinks counted, except one house, which I drank.

Editor's note—He is not as much under the alcfluence of incohol as some thinkle peep he is!



The Day Begins Divinely!

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# ENGINEERING OPEN HOUSE TONITE

## GOOD TIME TO GRADUATE

(Continued from Page 1)

Most of the firms said there were still too few trained men. The universities were slowly catching up with the nation's demand for graduates, but they still have some way to go. This factor is expected to become less and less important in the future as supply meets demand more or less on an equal footing.

A small number of the firms—about 3%—said they were preparing for a drop in business and had, in fact, already experienced a decrease during 1952 and 1953. The report points out that only a very few firms were affected and generally they were small, employing 50 or less. Any men put out of work by these trends would have no difficulty in finding new jobs in the next few years. The report emphasizes that it deals with the demands of private industry and not government or institutional agencies.

On the whole, it is Canada's expansion that is creating the new jobs. Asked what was the main cause of the new jobs becoming available to professionals, most of the firms replied that they were expanding and needed more staff. Other reasons listed were the expansion of research activities and defense orders.

Some firms took the view that technological innovations had gone far enough for the time being and there was less immediate need for highly trained researchers.

So with few exceptions it remains the same story: employers competing for available trained men. They found it difficult to get enough men or women in any profession.

The chemical and petroleum products industries had the hardest time filling their ranks and had to turn away a number of professional men who applied for jobs. The reason for this, the report explains, is that further specialized training is necessary

in the work, and facilities available for such training are limited. A brief analysis of the outlook by professions shows:

**Chemical Eng., Chemistry**  
There are between 3,000 and 4,000 chemical engineers and between 5,000 and 6,000 chemists employed in Canada. Every branch of industry reported a demand for more. A steady increase in jobs can be expected in the years to come.

Companies working mines, oil wells and quarries expect to increase their professional staff on an average 20% each year until 1956.

**Civil Eng.**  
There are between 8,000 and 9,000 civil engineers working now. The demand for these men is less great than for other branches of engineering. The report says that there should be an average increase of about 4% while other engineers can expect around 7½%. This is explained again by supply and demand. There has been no great shortage of trained civil engineers and so no backlogs have built up to be filled later. New staff taken on here represents new jobs created.

But despite this reduced demand there are still jobs vacant for any civil engineers who want them.

**Electrical Eng.**  
There are between 6,500 and 7,500 in the country. They are still in great demand and can expect an average annual 8% increase in jobs available.

Because of the difficulties in predicting future requirements in the electrical apparatus industries some of them have made conservative estimates of staff requirements for 1956. If, of course, new business comes their way the demand will be stepped up again.

**Mechanical Engineers**  
Between 7,000 and 8,000 mechanical engineers are employed in Canada. They too can look forward to the next few years with an average increase of 9% in jobs available.

## ENGINEERS ARRIVING AT CANADA CEMENT



### ISN'T IT THE TRUTH!!

(Read when you have time)

#### INTERPRETATION:

The plans and specifications are to be taken together. Anything shown on the plans and not mentioned in the specifications, and anything mentioned in the specifications and not shown on the plans, is to be considered as both shown and specified. Anything wanted by the Engineer, or any of his friends, or anybody else, except the Contractor, shall be considered as shown and specified, implied and required, and shall be provided by the Contractor, without expense to anybody but himself.

If the work has been done without expense to the Contractor, the work shall be taken down and done over again, until the expense is satisfactory to the Engineer.

#### PLANS:

The plans are to be considered diagrammatic and disgraceful, and are to be followed only where space conditions make it impossible to do otherwise.

Anything that is forgotten or left out of the plans and specifications but which is necessary and required for the comfort and convenience of the Owner, whether he thought of it before or after the execution of the contract, shall be provided by the Contractor to the satisfaction of everybody—but the Contractor—and in full accord with the evident intent and meaning of the specifications and without extra cost to anybody but the Contractor.

Anything that is right on the plans is to be considered right; anything that is wrong shall be discovered by the Contractor, and shall be made right without telling on the Engineer or indicating it on the bills.

#### RULES AND REGULATIONS:

The work throughout shall comply with all the rules and regulations, caprices and whims of all City, County, Provincial and National and International Departments, Bureaus and Officials, having or not having jurisdiction over the same.

#### MATERIALS:

All materials shall be of the best of their several kind and the Contractor is expected to know and provide the best, irrespective of what is specified in the details.

The Engineer reserves the right to change his mind about what is best. Any change necessary to make the work and the materials fit the mind of the Engineer, shall be made by the Contractor without extra cost.

#### PERMITS:

The Contractor shall obtain all permits and shall pay all fees, dues, assessments, subscriptions to masked balls, organizations, outings, and all hat and dinner checks.

#### DAMAGE:

Any damage done by the Contractor shall be paid by the Contractor as liquidated damages and not as a penalty.

#### GUARANTEE:

The Contractor shall guarantee, and does hereby guarantee that he will keep in complete and perfect working order, anything that the Engineer asks him to attend to, as long as there is no more work in sight in the Engineer's Office.

#### ARBITER:

In case of any dispute arising as to the nature, character or extent of the work done, specified, or implied, the matter shall be decided by referendum and recall, after which the decision may be set aside and reversed by the Engineer. The Engineer's decision shall be final.

#### PAYMENTS:

Payments, if any, shall be made as the work progresses in the amount of 85 percent of the value of the work done, as judged by the Engineer.

In any case shall the judgement of the Engineer cover more than enough to cover the payroll every Saturday night. The material men must take their customary chances.

The final payment, if any, shall be made only when everybody is satisfied, except the Contractor.

Any evidences of satisfaction on the part of the Contractor shall be considered as just and sufficient cause for withholding final payment.

#### FINALLY:

The Contractor shall accept and thereby does accept the conditions hereinafter appearing for himself, his ancestors and progenitors, his family, his heirs, executors his ox, and his ass, and any stranger that is within his gates.

Compliments of Bulldozer

## CEMENT KILN . . . .



Shown above is a kiln used in the manufacture of Portland Cement by Canada Cement Company at Havelock, N.B.

## ON BINAURAL PERCEPTION . .

Once upon a time there was a great dungeon deep under Deannora Castle. It often had been used for the medieval purpose of corrective politics, but now it was populated only with mice—many, many mice. The dungeon was pitch black, with not a single gleam of light, and in order to survive, the mice had to perceive binaurally the direction of approach of the castle cats. Wherever the cats would go in the inky pit, the prey would have just departed, leaving the smell of mice, but no audible mice.

Above, in the castle rooms there was a remarkable cat, the pet of a noble duke and his duchess. Tommy was not like other cats, for he was the re-incarnation of Prof. Kamstak Lodov, the great Russian scientist, well-known to have discovered the principles of depth perception and stereo several centuries ago.

One day the mice in the dungeon became a problem to the noble duke because he wished gently to incarcerate a noble enemy gently since he well knew that possibly some day the noble enemy might instead be incarcerating him. So the Duke of Dannemora called to his footman, and directed that Tommy be placed in the dungeon in an unframed frame of mine. But Tommy refused at first to be led down the wet stony steps to the creaky iron dungeon door, and called first for the sharpest pair of scissors in the kingdom. When these were found and brought to him, he sat down and cut off all the tips from all his claws—an odd procedure indeed for a cat about to enter into predatory activities. But remember, Tommy was the re-incarnation of Francois Popoy, world famous Russian binaural scientist.

Tommy then allowed himself to be led down the wet stony steps to the creaky iron door, and while in transit, please note, he made no clicking sound with his claws, no transient noise—only a dull padding centering around 250 cps, as he had no doubt planned.

For all of three weeks and three days the great iron door was left closed and locked, but finally there came the predestined hour, and as the hinges groaned open, Tommy staggered out, replete and bursting with masticated mice, the product of 4 and 20 days of using low-pass filters. As Tommy recuperated on his pillow he began to reflect. The cloying taste of mice fingered overlong, and he yearned insatiably for other fare, even if only as a chaser. Well knowing by experience with mice that the ability of potential prey to perceive direction of approach depended upon keeping the sounds of his approach below 1,000 cps, he again clipped his claws to prevent the clicking, and set out across the moat on a black moonless night to find his fortune. Suddenly a strange and exciting scent was in the air, and as he followed it along well-filtered in his 250-cps way, Tommy was abruptly trampled to death by an old lady in a wheel chair with an ear-trumpet, who was binaurally astute down as low as 80 cps with a 9-inch ear spacing.

Tommy had made a miscalculation.  
Tommy even today is again being re-incarnated.  
From Audio Engineering Journal.

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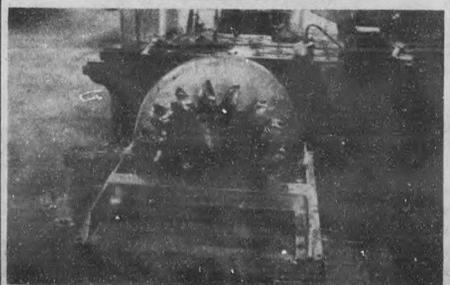
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## WASSAIL SAT. NIGHT

## PELTON WHEEL CONSTRUCTED IN MACHINE SHOP



Shown above is a Pelton wheel during assembly. All the work done on the wheel—designing, machining and assembly—was done by the senior mechanicals. It will be on display for open house this evening in the hydraulics lab.

## EXPECTED TO BE ONE OF THE BIGGEST EVER

This year as in the past, the engineering buildings will be open to the public. A number of very interesting displays are on hand including a model of a 52,000 h.p. hydro electric set sent by English Electric. Events get under way at 7:30 with the programme listed below.

## FIELD AND OFFISH FABLES

One day last summer, I was seized by that diabolical urge to go fishing. Since one must satisfy his natural urges where socially possible, or suffer frustration, I strapped by trusty slide-rule to my side, grabbed my rod, tied a leash to Cuthbert, by faithful measuring worm, kissed my transit a fond farewell and headed for a stream where fish might be had.

After extensive stream gauging and water velocity tests, I located a lovely spot—a veritable fisherman's paradise where the water flowed clear, deep and rippled over dirty brown sand. In the water, the trout could be seen playing at their little games such as Black Jack, button, button, who's got the button, shiny and baseball. Dizzy Trout was pitching his finest game of the season. I paused a moment to rest and prepare my tackle. I need not have bothered for the play was around right end and failed to reach the secondary.

After tying a plump line to my rod, and selecting from my wallet a 4" x 4" angle for attachment to the line, I cast around for bait. However, so out of practice was I that my casts were extremely inaccurate, and at last I was forced to secure a young python from a nearby Sikh colony. Then, I dropped my line into the water and waited.

I awoke with a sinking feeling. Indeed, I was sinking into the water. As I was about to go under, so it seemed, I succeeded in seizing a tree which grew conveniently by the water's edge. Now, great numbers of trout were pulling at my feet and the tree continued to bend until finally I was clinging tenaciously to its very top. But resolutely, I refused to play hide-and-seek with them. I have detested the game since infancy. Finally, angered by their frequent illegal use of fins, and obvious off-side infractions, I gave a last Herculean twist. At the same instant, the fish released their respective vice like grips and I flew homeward through the air at a speed proportional to the resonant frequency of the tree.

I saw many interesting sights on that last mad flight. I passed through Rangoon at 4:31 a.m., A.S.T., nearly colliding with the Ocean Limited in the station, and arrived in Fredericton at 12:30 p.m. in spite of a heavy gale encountered at N30°, 60°13'W. After a hurried snack of filet mignon and toasted armadillo-sau gratin, I returned to my home and crawled wearily into my sack. I was asleep before you could say, "Engineers are relatively broadminded fellows who deserve greater financial remuneration and social prestige for their valuable work."

—Reprinted by request

## PERSONAL NOTES

Prof. Stevens, one late evening on his way home noticed a motorist in trouble. Approaching, he said to the driver:  
A: "Motor trouble?"  
Driver: "None"  
A: "Out of Gas?"  
Driver: "None"  
A: "Tire down?"  
Driver: "None, didn't have to."

A bum approached Prof. E./E. Wheatley in the street and said, "How about 20 cents for a cup of coffee?"

To which Tiger replied, "What! What! Coffee is only 10 cents." The bum then answered, "Yeh, but I'm keeping a woman."

## Civil and Mechanical engineering Buildings

**Ground Floor:**  
Hallway:—  
Working scale model of 52,000 H.P. hydro electric set manufactured by English Electric Company of Canada for the government of India. Similar to installation at Beechwood.

**Hydraulics Lab:—**  
1½ H.P. Hydraulic Tubon-Generator manufactured by fifth year Mechanic Engineering Students.  
Scale Model of spillway for Beechwood Power Project in New Brunswick.

**Mechanical Lab:—**  
Air flow measuring devices  
Orsat gas Analyser  
Calorimeter for measuring heat value of fuels  
Torsion and Tensile testing equipment  
Miscellaneous drawings done by the students in various years of the engineering course.

**Basement:**  
Soils Lab:—  
Aggregate investigation for concrete structures lab.  
Concrete specimen manufacture and testing Testing Machine.  
100 Ton hydraulic testing machine. Testing of concrete samples for durability and cyanide modulus of elasticity.

**Machine Shop:—**  
Operations of lathe, planer, milling machine and shaper, heat treatments and welding.

**Engines Room:—**  
Diesel, steam and air operated engines  
Air compressors and steam turbines.

**Furnace Room:—**  
Modern oil fired steam boiler, hot air engine, steam engine-generator sets.

## Second Floor:

**Model Building:—**  
A scale model of a typical modern industrial building with overhead crane.  
Detail drawings and design data, also various blue prints of building and bridge construction.  
Proposed Extension to Civil and Electrical Buildings.

A scale model of the proposed extension to the Civil and Electrical Buildings built from the architects drawings by two senior Civil Engineering Students.

**Electrical Engineering Building**

**Ground Floor**  
Dark Room:  
X-Ray apparatus.

**Electronics Lab:—**  
Thyratron motor speed control meters built by students.

**Wave analyzers.**  
Photo electric cell circuit.  
Illustration of basic principles using cathode ray oscilloscope.

**Counters Tube Display.**  
Measurements Lab:—  
Remote control circuits.  
Mechanical illustration of the theory of electrical wave motion.

Circuits representing power and communications transmission line used for characteristic measurements.

**Standards Lab:—**  
Radio and audio frequency.  
Standard Meters.  
Meter Testing Panel.  
Teletypewriters.  
Telephone circuits.

**Basement:—**  
Power Lab:—  
New Test bench laboratory facilities.

Use and properties of transformers, alternating and direct current motor and generators. Rectification of alternating current to direct current by various methods.

**Second Floor:—**  
Servo Lab:—  
Radar Room.  
Radio Room, containing transmitters and radio club apparatus.  
D.C. metering.  
Simple A.C. circuits.

## The Student Engineer

I stood on the bridge at midnight,  
A simple Pratt Truss span,  
My fingers were held fixed end-

ed,  
In the clasp of my dear love,  
Ah,  
While I there surveyed her  
(Ah, but my love was fair),  
A diagonal wind load suddenly  
Caused tensile stress in her hair.  
I said, "Willst thou measure with me  
The chart of Life's unknown  
road?"  
And my heart by reciprocation  
Set up an impact load.  
"Thou art the illumination of my  
life  
I pray thee do not dim it."  
The joy when she softly whispered  
"Yeh"  
Exceeded my elastic limit.

— Adapted from Minnesota Technologist

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