

# Engineering

VOL. 64, No. 18

FREDERICTON, N. B., WEDNESDAY, MARCH 7, 1945

Price Seven Cents

## "ULTRA-PROM"—FRIDAY NIGHT

### Engineering Week to be Climaxed by Wassail Saturday Night

Last year, it was a little later than this, when you were guests of the Engineers at an informal dance held in the Gym. It was the week-end of the Interscholastic Basketball Tournament. Maybe you don't remember the date, but was a dollar to a doughnut that you do remember the dance and what a good time you did have.

This year a committee of three has formulated plans for a "Ultra-Prom" which has been designed with an eye to your valuable time, and in order to justify our endeavoring you up the Hill Friday night special emphasis is being placed on the music and atmosphere. We have heard from some quarters that if the lights are poor the male does not have to be, but your students are not to be denied a good time. The "Ultra-Prom" is to be held in the Gymnasium on Friday night, March 10th, at 8:00 p.m. The music will be provided by the "Ultra-Prom" band, and the refreshments will be served by the "Ultra-Prom" committee. The "Ultra-Prom" is a special event, and it is hoped that you will all enjoy it very much.

Should you feel that you are not yet ready for the "Ultra-Prom", you may wish to attend the "Ultra-Prom" on Saturday night, March 11th, at 8:00 p.m. This will be a special event, and it is hoped that you will all enjoy it very much.

You President have been to any of our previous dances, so we can't tell you by experience, but if you ask an appreciative, we will be glad to assist you in your endeavor.

And so, one and all, come to our dance and make us Engineers feel that we're quite the social leaders.

### Tea and Dance

At the conclusion of the basketball games Friday night, the Senior class sponsored a very enjoyable tea and dance. A very large number were in attendance and it was a most successful affair. The refreshments were served by the "Ultra-Prom" committee, and the dancing was provided by the "Ultra-Prom" band. The "Ultra-Prom" is a special event, and it is hoped that you will all enjoy it very much.

### The Inquiring Photographer

Your Inquiring Photographer carefully preserved his roll of film (it's hard to get, you know) and splurged all of it to give you the studies presented above.

**LOUD VOICES** seems to be fainting on deaf ears. Ed looks just as interested as if he were at any other lecture. No, Hargrave isn't peering into the future, but a galvanometer.

**BUBBLE TROUBLE**, Morgan concentrating, MacKenzie looking on, MacMillan kibitzing, as the sophomore traverse machos on. As Dr. Stephens says: "Some day we'll get a map of the d— place."

**GERMISH, FAIRISH!** Annie and Don Green busily investigating the wonders of radio. Believe it or not, the boys can actually make that jumble of junk tick. Ah-h—New Engineers!

**DEADON PECKIN'!** Yep, it's Celia and Helen with their heads together, and with only a transient between them! That looks sure, knives will be sharp. Hear he's got a bob in the hands of his publishers now, entitled "How I Do It!"

**HOBBES! NO—LOBBES!** Don't let that Coxar fool you, those jelly fingers haven't been riding the rode. They're ringleaders in local Wolf pack No. 373123A. Reading from left to right, Wolves Weyman, Scott, Henry and MacLean.

**BLONDE BOND**, our trusty treasurer, and his partner, Mort Margulian, prepare to give a demonstration of their lab technique. The moment is charged (as the battery) with suspense, hence the tense, expectant looks on the boys' faces.

### An Engineer of 100 Years Ago

DR. JOHN STEPHENS

In New Brunswick, in these times when we import most of our manufactured goods and look outside our own community for ideas and energy for technical advice, it may be fitting to recall a notable and successful engineering achievement of one hundred years ago.

In the Minutes of the Legislative Council of New Brunswick of July 2nd, 1844, the following entry is found:

"Submitted an application from Benjamin F. Tibbets for a Patent for an improvement in the steam engine. Approved. The application, accompanied by considerable detail, was made to the Government of Lower Canada."

The improvement in the steam engine described, namely compound expansion, was not itself original. Such engines had been described, built and abandoned. Tibbets' engine, however, had of the intermediate receiver type and was designed with a full appreciation of the advantages of the compound expansion principle. Tibbets' engine was a compound engine of moderate forces and low temperature range. It was designed by Tibbets in 1813 by nine years.

It is not surprising that original imaginative thinking should have been so notably conspicuous in the work of Tibbets. That is a common pattern of life.

It is a matter of great interest that the first compound machine engine in the world was designed and built in Fredericton one hundred years ago. Those of us who are familiar with local manufacturing conditions at the present time only realize that our progress has indeed been slow since the days of the old days. The present time only street on the site where they now sell motor vehicle licenses.

The shaft of Tibbets' engine was about five inches in diameter and weighed several tons. It was so large that it was not possible to build it that it remained in use on the St. John River, in various vessels, for many years.

The Reinceur, the side wheeler for which this engine was made, was a very successful one. It was built at Douglas Harbour on Grand Lake. Tibbets had made a study of the river and had decided on the length and speed of vessels. He was able to predict the present day forms and conditions and thus place the paddles in the most advantageous position.

### KING'S COLLEGE

Civil Engineering, Etc.

A Course of instruction in Civil Engineering will be given at King's College by Mr. COLMAR HON. C.E.E., who has been appointed to that duty by His Excellency the Governor. The course will commence on the 14th of February next, and continue until the end of April. It will open to students of the College on payment of a fee of Ten Dollars, and to all other students on payment of a fee of Two Dollars. For the course of instruction, students are required to furnish the Registrar. The course will include the following subjects:

An explanation of the construction and uses of Levers, Pulleys, Screws, Gears, Belts, Shafts, and other mechanical devices. The principles of statics and dynamics. The principles of the strength of materials. The principles of the theory of structures. The principles of the theory of machines. The principles of the theory of fluids. The principles of the theory of heat. The principles of the theory of light. The principles of the theory of sound. The principles of the theory of electricity. The principles of the theory of magnetism. The principles of the theory of radioactivity. The principles of the theory of atomic energy.

### SOPH. TRAVERSE

"Do we have to carry that cumbersome thing around the campus?" one of the sophomores had asked to say the first time a transit was shown to him. He soon learned that he was expected to carry that bulky instrument, and in the not too distant future, the first Thursday afternoon, he was rolling around, and we all appeared, just about the time it was rather a bit down to him that we were just going to measure angles. To old professors, as like ourselves (well we had had one lecture on the subject), it seemed an awful waste of time to just stay in one place and measure four or five angles that were not going to be of any use to us.

The next week we really got going and I soon found. Our first station was down by the gym and if I walked up that hill once I'd be twenty times as tired as the rest of the class. That was the day we learned the value of our equipment, when that of a picker. When it was time to stop we were short on pickers. In my mind's eye, our party got a lecture on looking after college property. The poor pickerman had to carry his steps in order to try to locate the missing article, while we got warm in the Memorial Hall. Oh, yes, the picker was finally found. In the instructor's pocket! From rear chairman, to head chairman, to instructor, to student, we worked my way. Of course the day carried that transit around we had almost a food. There was water running everywhere. The spot where I was supposed to set up could hardly be found, and I had to stay perched on two little stones for the rest of the afternoon to keep from sticking out of sight.

We finally got the survey completed and then came the copying of notes. Two endless afternoon we were devoted to that pleasure, but our books were masterpieces in the end. At least, that's what we judged by the care that was taken of them. We weren't even permitted to keep them during the holidays, might get them dirty.

You can find us now, any Thursday afternoon, happily drinking away in the Forestry Droughtham. So far our plans have worked out all right. Of course, the but house was richly out of line, the pump house was on the current plan and the observatory had a missing side—but what are a few minor details like that among engineers!

—H. J. Baxter.

"Wass hael," a Saxo greeting, is said to have been first associated with the drinking of healths. Literally translated, "Wass hael" means "be whole," the forerunner of the more modern "Your very good health."

From the definition of "Wass hael," the grand-daddy of Wassail, you can see that the annual gathering of the Engineering Faculty and Engineering students is well named for it is a meeting of good-fellowship.

Planners for this year's Wassail say there is to be a fifteen dinner and entertainment provided as in the past. It will also be held, as formerly in Castle Hall with Mr. J. J. Colwell acting as caterer. So on Saturday night, "Wass hael."

"So who to the toast or the Wassail to propose, we'll have to see."

May drink others health without striking his own.

And tomorrow toppers health with our four.

Their startled, perturbed, lodged, and unamused, their unamused, perturbed beer.

# Brunswickian

Vol. 64, No. 18

ENGINEERING BRUNSWICKIAN

Wednesday, March 7th, 1945

## Many Renovations Planned

### C. U. P.

The recent celebration of Founders' Day has inspired a brief study of the government body of our province. The present personnel of the Senate is published from time to time in the "Brunswickian". On the Senate are members representing the Provincial Government, the Alumni and Alumnae and the New Brunswick Teachers' Association. They are chosen from time to time. Matters of policy and all matters affecting the University must be approved by the Senate.

Normally this body meets three times per year, October, February and May. At the October meeting this year, many matters came to its attention related to the coming change-over of the University from its present name to the name of the University of New Brunswick. The President to carry out an exhaustive study of the many problems involved in the change-over.

It is interesting to know that at U.N.B. at our disposal was a photograph of the first observatory in the British Provinces. Although the early history of this old building is a little obscure at present, records indicate that it was built in Dr. Jacob's time, about 1830. Some of the instruments, however, belonging to the observatory of 1830 were given to the college in 1932.

However, that is all past history. It can still be used by any of the students, despite the fact that many of the attachments and useful gadgets have been removed from the building by careless or unscrupulous persons. The fate of the two "very fine" sidereal chronometers (star clocks) will probably never make a mystery. Nevertheless, if one is interested enough in astronomy, he can get a "one" quite well with what is left. The telescope is a six inch refractor with a focal length of seven feet. It is possible to view most of the planets, the phases of Venus, the moons of Jupiter, and the rings of Saturn. Other phenomena of the heavens may also be observed with skill.

The observatory building is of very fine construction. It has a revolving dome set on a system of rollers. The concrete base of the telescope runs from the dome right down to solid ground to ensure stability. The dome is sitting in one corner because the walls are settling away. A few repairs at this old observatory would extend the life of the observatory considerably.

Interest in astronomy and the observatory seem to have been revived during the last century. It is the observatory again, but just how far it will go depends upon the interest of the students and faculty. At present, the transit room or lower floor of the observatory is being used by the Art School, but this is just another infirmity that this historic old building will have to bear.

A. J. Cameron '45

Toronto (CUP).—The increasing importance of liberal as well as cultural, administrative and economic studies in the training of an engineer will force the adoption of a five-year course in engineering. This was the opinion of the Faculty of Applied Science and Engineering, at the annual meeting of the Association of Professional Engineers of Ontario.

He said that a survey of service men revealed that more wanted engineering as a career than anything else, and the majority of those hoped to obtain administrative positions. Additions of new courses could not help but add to the undergraduate years, he said, that "we must resign ourselves to a five instead of a four year course from now on." He added that the plan was not applicable in war time, but would be inevitable in the post-war period.

Afternoon, happily drinking away in the Forestry Droughtham. So far our plans have worked out all right. Of course, the but house was richly out of line, the pump house was on the current plan and the observatory had a missing side—but what are a few minor details like that among engineers!

—H. J. Baxter.

## New Building Electricals' Pride

With the most modern engineering building in Canada, with two distinct courses in electrical engineering, and with two specialists in their respective fields as instructors, we no longer stoop to claim campus supremacy—we have what is believed to be the best four year course in electrical engineering offered in the Dominion.

For the lazier inhabitants of the campus, let's go on a paper jaunt through the fluorescently lit 100,000 engineer's paradise. We'll use the front steps. Now we're on the first floor. That's a bulletin board directly ahead—convenient when you think where yours is or are. To the right is a drinking fountain. In addition, the first floor contains a large lecture room (seating accommodation of 80) with tiered seats, an office, a darkroom, a junior laboratory, a small lecture room, two storerooms, a private lab, containing a 400 short wave Marconi receiver, and the senior electronics laboratory.

Up the back stairs—oops! you nearly fall. Here we have our eighth and last floor storeroom, a transmitting room where a couple of seniors are busy patching up old VEC's, a miniature transmitter, capable of the maximum allowable output of 500 watts or five bands, and a radio room—contains fifty-one radios, all the way from a Sprague, to a great big "Great" with a one color control, down to a Canadian Boach, and including a Mohawk, a Sparrow, a Genetron, a Triax, a Rogers, Westinghouse and Peda. A small machine and work shop for repairing electronic equipment, including burnt-out meters, is conveniently close to the sophomore lab. A covered reading room, the "Wassail" library is situated at the front of the building.

Through a series of trap doors we could have reached the roof which contains flat expanses so constructed to enable a roof-sized antenna to be erected over the building. Down the front steps to the first floor again, then down another flight to the basement level.



contains two large power labs, a storeroom, a machine shop, a lavatory, and the building heating apparatus. Arthur will tell you of his two return tube boilers, with low pressure heating or 125 lbs. per square inch for high pressure power work.

This ground floor is inhabited by all the junior electricals and the power seniors. It contains, among other things, a non-condensing steam turbine, driving a 25kw, 135 volt D.C. generator, a new diesel, which was built, was dry by St. Arsenius' junior, of whom it has been said "He'll never know how close he came to the top of my pole." Also on this floor are two alternators, one a General Electric, the other a Westinghouse, which the students have a opportunity to compare.

The Power seniors are getting a good practical layout, as a bus-bar system for switching from one part of the lab to another. This arrangement was found to be very look into the Electronics senior lab. The electronics lab gives a wide range for these work. This year the titles are: Frequency Modulation Transmission and Reception.

Design of a 1500 Amps for VEC's; Negative Feedback; Television Theory; Direct Antenna Design for Short Wave; and Lasty Generation and Transmission of Ultra High Frequency Power.

The labs are well stocked with test equipment, such as test oscillators, signal generators, electronic switches, square wave generators, vacuum tube voltmeters, multimeters, electronic voltmeters, condenser tubes, more than twenty cathode ray oscilloscopes, and over 500 small, amperes, ohmmeters, and voltmeters.

It is only during the last term of the college year that the power and electronics courses are entirely separate in electrical subjects. Dr. Baird takes the power men under his wing, while the electronics group are guided by Professor Dismore.

A YIP, but explanation, we reach the end of our tour. The building is a credit to an already distinctive campus. Commendable foresight has put the electrical engineering faculty in a position to absorb the post-war flood of electrically inclined youths.

J. E. Rough '45

## ENGINEERS VETO STORE TRANSFER

In 1924, due to the efforts of Professor Turner, the present Engineering Stores were established. Previous to this time, all supplies were obtained from the University. The stores were found to be very satisfactory because of the distance from the campus, the uncertainty of the proper material being on hand at the right time, and because the price charged seemed to be out of proportion to the value of the stock.

The Engineering Society therefore opened its own stores with the object of better service and lower prices. This latter advantage was possible because the only cost necessary was enough to pay the salary of a part-time manager and an amount to increase the stock to the proper material being on hand. This year the stores have served its purpose well and has not increased the price of the stock. The stores are now and will be in the future, a useful and profitable service to the Engineering students on the campus, and we know that it will continue to be regarded in that light by everyone.

## President's Message

Publication of an "Engineering Brunswickian" is now almost a tradition. This feature issue was initiated in 1912 and since then has been published in 1942 and since then has been published in 1942. The staff this year has worked hard in an endeavor to print a better edition. Responding to the wishes of several to print a less obscure paper, an effort has been made to provide more material of a general engineering nature, and at the same time satisfy those who appreciate articles of minor educational value.

Co-operation has been splendid. For more material was desired at an early date and was received promptly. To Dave Plummer, Editor, and his editorial staff, to the feature writers, reporters and proof readers, I would like to offer my thanks and sincere appreciation for their efforts.

The combining of the "Engineering Brunswickian" and "The Brunswickian" is a new venture. The Dances always has been popular and this year promises to match, if not better, previous entertainments. The annual Wassail, ever popular among the "miners," will climax the week's activities. Having maintained a leading position on the campus, the Engineers feel justified in calling this week their own. In the future I hope this week will be continued and that each year it will get better.

This year the practice of holding an Engineering Banquet in the faculty room was revived. Guest speaker was Dean McKel of Mount Allison University, in an effort to augment the knowledge of the engineer and to acquaint him with other fields of study. Dr. Louise Thompson, speaking on various problems of psychology in placing people in in-

It has never been the intention of the society to have the store open during the whole of the day; for if this were to be, the salary of the manager would have to be increased manifold and this extra money would have to come from the profits of the same turnover of goods and that would mean a sharp increase in the price of all goods sold. During the past few weeks we have heard many rumors that the stores are to be closed, but we are pleased to announce that for the present at least this is not to be. A meeting of the members of the Society, was held recently to obtain their views on this subject and it was unanimously decided that the stores should continue as in the past. It was felt by all members that the stores are to be closed, but we are pleased to announce that for the present at least this is not to be. A meeting of the members of the Society, was held recently to obtain their views on this subject and it was unanimously decided that the stores should continue as in the past. 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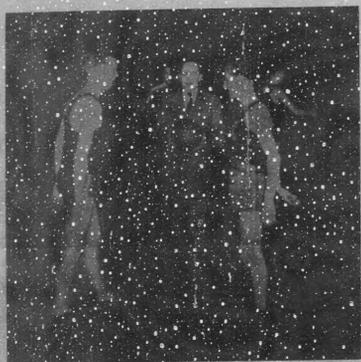
# HARKINS WINS TITLE FOR SECOND TIME

## Acadia Co-eds Play Here Tonight

The Acadia Co-eds will be here this Wednesday night to play a return engagement with the Co-eds. Our girls' team ventured forth several weeks ago on a not too successful trip east. During their sojourn, they managed to squeeze in a couple of games between dates. In one of these encounters, they tangled with Acadia, coming out on the short end of a 30-13 count. It was the first half that really beat the girls down there. In this preliminary struggle, the Red and Black were outscored to the tune of twenty-three to three. The second half guards started clicking and the game was fairly even. Maria Belong and Robert McAdam both made good on a couple of long shots (that to have you on the team girls) Jackie Eckard and Betty Price were also outstanding.

This week the girls are really out to avenge that defeat and a swell game is in store for all you fans. So, see you at the gym tonight!

## AS TOURNAMENT STARTED



ALDERMAN MUNDLÉ tosses the ball in for the first jump as the High School Interscholastic Tournament got under way last Thurs. night. Spectators and Centreville met in the opening match.

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## SENIOR SPORTSMEN

The engineers of the Clubs of 45, have contributed much to the athletic programme of U. N. B. The Varsity men of the Senior Engineers are: "Devon" Gist, Minor Basketball (4 yrs), Football (2 yrs) and Track (1 yr), "Doc" Young, Football (2 yrs) and Boxing (1 yr), Charlie Barker, Boxing (4 yrs), "Brock" Red-Ford, Football (2 yrs) and Doug McKee, Boxing (1 yr).

In interschool competition, the coaches have been the backbone of the Senior Hockey team. Such engineers as "Scottie" Mulhern, "Bud" Adams, "Stumpy" Ayers, "Red" M. Adamson, "Gosain" Weak Eyes, Mackenzie and Charlie Barker, have been members of this team for four years. Having won the Championship each year since

# SPORTS

## Varsity Cagers Win Two Over Week-end

### Down Scoudouc Airmen 45-31

The "pride and joy" of the campus settled all question of doubt that their "rabbi" followers might have had as to their invincibility, when they turned back the fast flying airmen of Scoudouc by a 45-31 score Saturday night, before a capacity crowd.

Surprisingly enough, most of the teams seem to be fairly well matched, and to prove that in the first seven games the league lead has changed hands four times, with different clubs holding the lead each time. Currently the Aces lead with 48 points, followed by Wildcats 45, Clippers 41, Maroons and Spartans 37, Pirates 35, Hawks and Spartans 34 and Gladiators 4. With four games left, the race seems to have devolved into a struggle between the top six clubs, each of them having a real chance at the league crown.

Crucial games on the schedule for this week are the Wildcats vs. Eagles, Aces vs. Beavers, and Maroons vs. Tigers.

The league record has been broken so far this year, and others

### BOWLING LEAGUE

Things were quiet on the bowling front last week, for the league cancelled all games so that the boys could see the basketball tournament finals with unfettered brows. This gives us a golden opportunity to review the league highlights to date, so here goes:

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### Defeat Mt. A. 52-20

In the return game of the U. N. B. - Mount A. hoop series, the varsity five triumphed the Mounties to the tune of 52-20. This victory compared with Friday of last year.

The first game of the evening saw Fredericton High meet Centreville in this contest. Gerry Lockhart's boys defeated Centreville 31-19.

**Spirit**

To my mind, the tightest team in the tournament, not excluding Harkins, was the Purple and Gold squad from McAdam. In their first game, these boys drew the highly regarded Woodstock quartet. The McAdam boys fought on even terms right up to the last few minutes, when the Red Raiders managed to get a couple of baskets that gave them their four-point margin of victory. In this contest, Ronny Tommy, one of the outstanding players in the tournament, sprained his right hand and this injury bothered him noticeably during the game with Harkins.

"Alec" Moffat was the dark plug of the McAdam team all through the tournament. He and Arsenault combined on some of the best passing plays seen in the many games. Due to an ankle injury received a few weeks ago, he was somewhat slowed down, but nevertheless he showed up as one of the best players on the court. A lot of

## Defeats Saint John in Finals McAdam Takes Consolation

Climaxing the biggest and best tournament yet, Harkins High of Newcastle walked off with the provincial interscholastic basketball championship Saturday afternoon when they defeated Saint John High, 22-13. The north shore team won by hard way, winning over Campbellton in the first round, and then going on to defeat Robbsey, Woodstock and Saint John.

This championship team has no individual stars. It is a well-balanced outfit with every man a scrapper. More than anything else, these Harkins boys showed plenty of teamwork and that old necessity called "fighting spirit." Nice going, gang! It was a well-deserved win.

This year, due to the large number of teams entered—thirteen in all—the tournament had to be started on Thursday evening, as compared with Friday of last year.

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