
JOANNE BRUCE

UNIVERSITY OF TORONTO
ENGINEERING SOCIETY
REVELATIONS 1970

COVER: MAYBE FRAMED BY REMOVING STAPLES
AT CENTRE FOLD
JOANNE BRUCE 1970

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REVELATIONS

A Brief Guide for Uninformed Freshmen
and Misinformed Artsmen

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FROM THE DEAN'S DEN

The boom of the cannon and the merry music of the Lady Godiva Memorial Band will have welcomed you to the lively company of students and staff, who constitute the Faculty of Applied Science and Engineering in the University of Toronto. On behalf of the staff, I add a warm personal welcome.

In the Faculty this year there will be some 2200 undergraduates, 170 professors and an equal number of supporting staff. The new Central Engineering Library will be open when you arrive, with over 100 study carrels. In Mechanical Engineering, assisted by Electrical Engineering, this is the year of the "Clean-Air Car Race". Related ecologically to this student initiated project is a major new research programme on Environmental Science and Engineering, chiefly concerned with water quality control. Our staff in Civil, Chemical and Mechanical will work with Geographers, Economists, Zoologists, Botanists, Lawyers in a team approach. Civil and Aerospace working with Economists and Geographers have launched a new research programme on Transportation Systems. Industrial is doing a

special study of production management for small firms. New materials such as flake-reinforced composites are being developed in Chemical and Metallurgy.

Ask your professors about their interests in engineering development and research, it may turn them on! A highly distinctive feature of the faculty is its strong interaction with the whole University.

But especially this is the year in which 24 students will serve as full members of Faculty Council and in which we shall redesign the working structure at the Faculty level. The essential issue is the quality of the lived academic experience. We are committed to providing a first-class undergraduate learning experience as the foundation for a professional career. If you find faults, let us hear about them.

First Year studies are hard work but the professional responsibility to make decisions which determine how technology shall be developed and used to serve and not to dominate man can only be won by sustained effort.

Associate Dean Craig, Chairman for First Year Studies Professor P.E. Burke, Faculty Secretary J.A. Gow, Assistant Secretary W.J. Dowkes, Professor Hewitt (Executive Assistant), and myself, as the administrative denizens of the Faculty Office, are here to work with you. Our doors are always open. Drop in.

James M. Ham
Dean

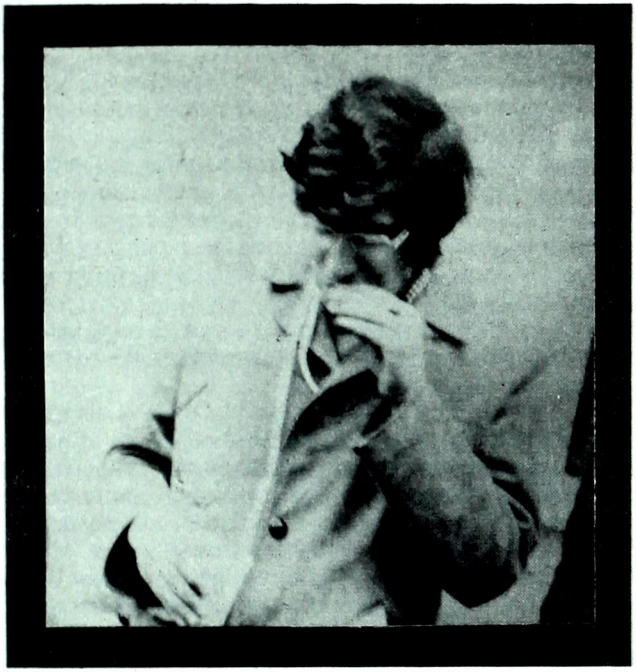
Since nobody ever reads introductions we thought we might not bother with one. However, here we are all the way to page four with still no prospect of revealing anything. Perhaps that is your first revelation: people around here never get to the point when much ado about nothing will do.

Anyway there are some things you should know about this book. At this time in your university career an incredible number of people feel it their duty to give you advice on every possible aspect of university life. We hope that as a dutiful and over-awed freshman, you'll try to assimilate all this information; everyone sincerely wants to help. Although we are as guilty as anyone else of plying you with advice, the thing we would really like you to get from this book is a feeling for both the style and spirit of Engineering of U of T.

We can't define these quantities on paper and indeed some people spend four years here and never come close to understanding. Those of us involved in preparing this book are concious of this spirit as an unseen presence (sort of like the Mill Building Ghost) at all our discussions and 'editorial disagreements' (euphemism for 'fights'). We hope that you come to be a part of this style as well.

We don't know if you have the traditional lofty expectations of university. If these hopes can be killed off by some impossible exam or slowly strangled by the pervailing cynicism then you won't be happy here. However under the impersonal exterior of this place you'll find people who can still summon the resources to be concerned with your fortunes. How sad that there are students who never get past the "Please Enter" sign outside the office of the Dean's secretary. Behind this and other similar trivial barriers you will find stimulating, intelligent and interested staff members. Sure you will find some unpleasent types in a faculty the size of ours, but don't let this dissuade you from meeting the amazing academic potential hidden behind those anonymous doors.

Finally, when the day comes that you wake up in a lecture to find that you are hopelessly lost and what's more don't give a damn anyway, welcome to the club. We have all been there; from there on it can only get better. With mirthful abandon, you may now procede to further Revelations.



The Right Honourable Michael Vivian Sefton, C.E., M.E.S., S.E., President of the Engineering Society of the University of Toronto.

MICKEY da "V" SPEAKS

(Due to an unforeseen technical difficulty, Mickey da "V" 's message never did reach us, but he takes time out from his visit to the high spots of Europe to wish you well.)

ONCE UPON A TIME. . . .

One of the doctors over at the Health Service, after giving a first year arts student a medical examination, was heard to say, "In view of your extreme condition, Mr. Barkwell, I have to recommend that you give up about half of your sex life.

The artsman replied, "Which half, thinking about it or talking about it"?

Engineering students generally tend to sneer at "Artsies". As the above ancient joke, quoted from a prestigeous Engineering publication, shows, we are ready at a moments notice to question the intelligence, virility and abilities of a fair number of our fellow students. What really sets you apart from all those freshmen in the other faculties?

First of all you're probably going to have to work harder than they are. Secondly, and possibly as a result of the harder work, you're going to have more fun!

"What"? ! , you cry, "Is he sugesting there is simple joy in honest toil? " Not at all. The results of our years of honest (or dishonest) toil are often cynicism, boredom and eyestrain. The fun releases us from all this tedium and is focused around a number of groups within the faculty. One you may have already run into is **THE BRUTE FORCE COMMITTEE,** known to its friend and others as the B.F.C. This is a convivial group, to which all engineers belong (after initiation week) and to which all others don't belong (ever.) After payment of a professor's ransom at the Engineering Stores, you may wear the famous blue and gold button and join us as we terrorize the campus. The B.F.C. has the pleasent task of organizing "capers" which are festive occasions when large numbers of engineers generously donate a part of their lunch hour to visit **en mass** some less fortunate area of the campus for the purpose of bringing good cheer, edification and couth to the inhabitants. These visits are often climaxed by a stiff and penetrating speech amid much cheering and physicial encouragement from perceptive nubiles. In the past, this august group has lent its considerable support to such groups as "Pollution Probe", "The Flat-Earth Society" and "CTV's What-the-heck-in-the-world-will-we-use-for-a-funny-filler-on-tonight's-Newscast Organisation". These capers are always great fun, so watch for notices strewn in a secret manner about the engineering buildings and cum

One bunch which always cums is the renowned **LADY**

GODIVA MEMORIAL BAND. These guys, whose recorded excellence you already posess, have an amazingly colourful history. When sober they win prizes at music festivals and vist fairs like the C.N.E. and Expo '67. They also delight in spontaneously appearing in things like the Grey Cup Parade or Subway "openings". At less formal times they lead all the capers and make many unscheduled but not unwelcome visits to the various campus locations housing the lush annual crop of coeds. Life isn't complete for a U of T girl in residence without a midnight concert by the L.G.M.B. Membership in the Band is virtually a free pass to any campus event from football and hockey games to all dances and as a result **anybody** who can play **any** instrument joins the L.G.M.B. and is immediately accorded the adulation of the masses. Despite this large number of members, they manage to play surprisingly adequately and are thus a credit to Engineering. If you can contribute any musical talent to this noble cause, come join the Band.

Another explosive institution around the faculty is the **"SKULE CANNON".** The "Skule" part of the title, by the way, is something you hear alot of around here. The name comes from Applied Science's old name the "School of Practical Science" (S.P.S. for short). The particular building which carried that name gave its life that there might be a new Medical Sciences Building on its site. This has left the Meds students owing us a great deal, a debt which you should feel free to collect as often as possible. To get back to the cannon, this fine piece of ordinance is an actual operating cannon, and yet with the use of integrated circuit technology, it has been incredibly miniaturized. The present cannon, latest of a long line of Skule artillery, was produced by Mr. W.H. Kubbinga in 1950. Pending the results of the Strategic Arms Limitation Talks, the Engineering Society agreed to limit the escallation of weaponry at this point but warns all potential agressors that it is prepared to maintain the balance of power.

The cannon is most often found in the midst of its brawny cannoneers while the assembled crowds lustily sing a few rousing choruses of "Godiva", the Skule song and "Toike Oike" the Skule cheer.

At this time it might be appropriate to say something about **LADY GODIVA** herself. To listen to some of the campus unwashed, engineers are "neo-fascist-capitalist-exploiters" as well as "male-chauvinist-pigs". In answer to this we can point out that

our hard hats, marching band and cannon were our symbols long before the cleavage of American Society. Most of all however, we point with pride to our Patron saint, Lady Godiva, who was among the first to protest against oppression by a public and/or pubic demonstration. She understood something that many of our current radicals forget: the value of fun, and humour.

One of the things that now belongs to you as an engineer is **TOIKE OIKE** which is pronounced Toi-Key-Oik and is both the first verse of the skule cheer and also the name of the most popular publication on campus. The Toike, despite its long and colourful history is not one to stand on tradition. As you will find out Sept. 24th (the date of the first issue) the Toike is a paper with no censorship, hangups or over-inflated view of its own importance. Published every second or third Thursday, it is a spontaneous, humourous, and necessary alternative to sleeping during lectures.

The Toike is a vast improvement over the Monday-Wednesday -Friday fish-wrappings known as the Varsity, (the other campus newspaper) and is therefore distributed campus-wide so that all may partake of its joys. However, if the Toike's reputation for the funniest creative writing on campus is to be upheld, then its going to need your help. If you have ever had anything to do with a newspaper, yearbook etc., or want to, there is a place for you at the Toike. Especially valuable are those with experience in art, photography, advertizing, cartooning, writing and layout. The success or failure of the Toike reflects credit or discredit on everyone in the faculty so if you can help, come on out; the make-up parties are excrogenating.

Speaking of excrogenating, you may be doing just that after seeing all these people trying to involve you. All represent worthwhile organizations dedicated to preserving Skule Spirit (**SKULE SPIRITS** supplied by the L.C.B.O. or Chewie Louis, the bootlegger). No one can force you to become involved. We suggest that you have a real need to be part of something at this University if you are going to be able to see your studies in a realistic manner. If you have no girl, team, club, group or what ever, then your studies will be controlling you rather than vice versa and the inevitable academic disappointments and the tension and boredom will dominate your life at the expense of your sanity. Also, after all this moralizing, these organizations are really great fun so do try one or more of these activities.

A FEW WORDS ABOUT. . .

some of the things you may be wondering about are now in order. One of your largest expenses in the next few weeks is for **BOOKS AND EQUIPMENT.** One of the best bits of advice we can give is: "Don't rush out and buy all your books the first week." Find out first if your prof is going to assign problems from it or refer to it in the lectures. Some texts, in the past, (Graphics and Chemistry) have languished unused on shelves. Sometimes (eg, Computer Programming) alternate texts are far superior. Others (eg, calculus) are referred to quite a bit and will prove helpful. Also, make use of the Schaum's Outlines which cost much less than the text and are often much more valuable for the problem oriented course. When you do come to buy your books, use the U of T Bookstore only as a last resort. A & A's and other bookstores will give up to 10% discount vs 5% on hardcover books at the Bookstore where they really don't give much evidence of caring whether you get a book or not.

Slide rules and drafting equipment can be a large expense also. To find out what you really need, talk to some 2nd year men; they may even be able to sell you what you need for drafting. If you are unsure about slide rules, don't miss Prof. L.E. Jones (Official Engineering Archivist and Convicted Punster) and his lecture on this subject given during the first week of classes.

Another thing we'd like to expound upon here is **THE CARE AND FEEDING OF PROFS.** Despite what you may think, they do, to a man, know more about the subject than you do. Profs have no vested interest in destroying any of you. They are, however, human and subject to some very human hangups. One problem they have is that, with no training in teaching, they often have trouble in establishing communication. Many tiny hassles develop into major comfrontations simply because no student would go to the prof's office and explain that the method of handling a problem set was unworkable or that his writing on the board is unreadable from the back of the second row. The best way to avoid even these efforts is to take part in the staff-student coffee parties and get to know the staff and other students. There may, however, be some situations which no amount of friendly communication will heal. When his happens, run, don't walk to the faculty office and ask to see Prof. Burke, the Chairman of First Year Studies. He not only has the power to effect change and

wants to help, but he is one of the friendliest people you'll meet at the University.

While we're on the subject, we might say a little more about the **FACULTY OFFICE.** That's where you'll find the aforementioned Prof. Burke, as well as smiling Bill Dowkes, the Asst. Secretary, Associate Dean Craig, Mr. Gow. the Assistant Dean and Secretary, Prof Hewitt, and of course Dean Ham, himself, not to mention a whole host of comely nubiles. All these people are sincerely interested in helping you.

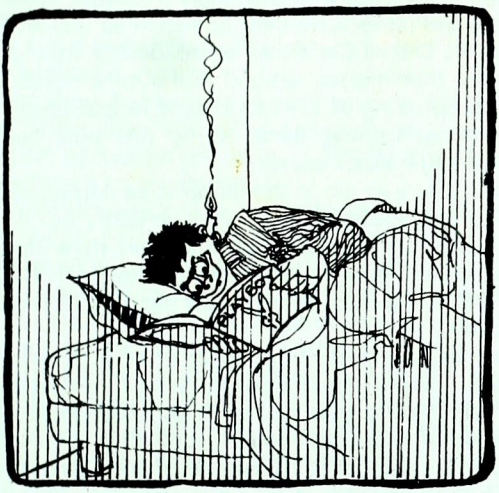
Two subjects freshman engineers are always curious about are **RESIDENCES AND COLLEGES.** Taking them in turn, if you are not already in a residence, chances are slim that you will change this year. However a very large number of students find it advantageous to live away from home sometime during their university career. What it lacks financially compared to living at home, it certainly makes up for in independence. If you're from out of town, of course, you are living somewhere away from home. However there are many types of residences to choose from, ranging all the way from a rented room through to university residence to co-op commune. No one type is best for everyone, so try to visit and talk with people in all kinds to find out what kind of home you should be committed to.

Living on campus and particularly in one of the college residences can add alot to your social life. Watch out however that you leave yourself some time for study and other trivial things. Even if you don;t live-inat ofeo f the coolleges you ona still jion one for $15.00. (Ed note our typist is obviously well lived-in). If you think you'll need the college library or mind paying a little extra for the few college dances or have high enough marks (80-85 and up) to warrant a scholarship there, then joining a college is for you. Otherwise, don't waste your money, since the facilities of most colleges are open to anyone. Mr. Dowkes in the Fac. Office is a good man to talk to if you have any further questions re residences and colleges.

The biggest problem facing you, of course, is four years of **WORK.** The best thing we can say to you is: don't get behind. Having said that, we admit that everyone does get behind sooner of later and must catch up. This is possible, barely. So, see your professor with your problem, but try to define ahead of time

specific questions. Really, in most of your work, organization is half the battle.

The staff tells us that the 'average student' will work an 'average' of 48 to 50 hours per week including classes. Be prepared to devote this time but remember that nobody's average and try to set some sensible priorities for yourself. No student ever does everything he is supposed to but if you organize yourself in order to have specific committments of time to schoolwork and outside activities then you can retain both your marks and your sanity.



The Average Engineering Student Spends 48 Hours . . .

The things that will loom largest in your life in the next four years are tearful experiences known as problem sets. Most of the work you'll do here, outside of note taking, studying and the occasional experiment, will involve solving a specific number of problems to be handed in at a set time and marked. The importance of these marks varies wildly but generally the problen sets are teaching tools, not examinations. If you do nothing else while you are here, do the problem sets — you'll probably pass with ease. If you haven't got them done on time, tell the demonstrator or prof, he may even give you an extension but at least he won't be angry with you (too much). Even though

problem sets are often your only method of self-assesment, virtually everyone has copied part of one or worked in a group on a supposedly independent effort at some time or another. Let us caution you, however, about falling into the habit of copying whole sets on many occasions. When the exams (which count a lot more) come, you are doomed!

We hear that in high school they still like the students to show up for most classes. At university your time is at a premium, so use it wisely. Some lectures are plainly a waste of time, so feel free to skip them. However, that seemingly irrelevant material covered during those boring lectures may not seem so useless during, say, the last weeks before Christmas or the period around the end of April, or, for that matter, around mid-summer when you do get your results. Speaking of Christmas (and indeed Study Week also) plan on getting nothing done during this time becuase that's exactly what will happen anyway.

We hope that you are in the mood to be depressed because we now have to talk about **EXAMS.** It is certainly not our intention to tell you how to achieve good marks on these disasters. (Our own marks show a really outstanding mediocrity). Rather, it is to impart to you a few tips concerng the fighting of this devestating holding action.

Firstly, they are virtually all made up of problems, not essays. This means it is really possible to get zero or some other incredibly terrible mark. Mostly you will leave an exam convinced that the proper course of action for you is to transfer to a basket weaving course at some community college. Be of good cheer! What really counts is how badly you did in relation to the rest of the class, since everyone may have failed; (then your zero looks only half as bad) Usually at Christmas they leave these marks so you'll be frightened into doing some work but on a final exam they are all raised until a class average of 65% – 70% is reached.

One usually walks into an exam feeling terrible (terrible personally, that is – we make no comment on your social skills). If there is a good medical excuse for this or even if it is just exam nerves, take advantage of the provisions for petitioning the Examination Committee. The way this is explained in the calendar, you get the impression that extensive hospitalization or death (yours) might just possibly be acceptable petition subjects sometimes. In reality anything from a bad trip to a bad cold is

legit and worth the short walk over to the Health Service. It costs nothing and may be worth quite a few marks. Do your petitioning at once, however, since they somehow suspect petitions which arrive simultaneously with the receipt of the final marks.

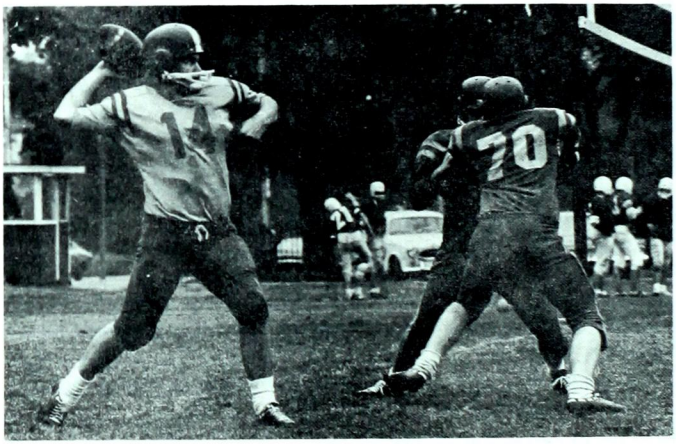
If you'll hold still for a few statistics, we can tell you that 14.8% of last year's class failed. This percentage is a major step down from previous years' and will remain about the same (hopefully – since in the past they've zonked 25 or 30 percent). This assurance, by the way, is from a 'usually reliable source close to the committee' (they aren't promising anything, are they?). In addition to the aforementioned failures, a further 12% were smart enough to withdraw in time to return without a failure record. The calendar should show you clearly enough the advantages of withdrawal. Other than that all we can say is good luck and if you find the secret of success phone us at 928-2916 and we'll take it off your hands at a reasonable rate.

Since we're discussing doom and disaster, this might be a good place to mention **ENGINEERING SCIENCE.** Firstly, let us say that despite what you may think, not everyone in the faculty is an Eng. Sci. dropout. While it is true that one sure runs into a lot of them, from the Eng. Soc. president down, there have been authenticated cases of students actually reaching fourth year in some course without ever having been in Eng. Sci. To be serious for a moment, between 1/3 and 1/2 of you will transfer some time before next year. Still, only about 5% actually flunk out so don't be too down-hearted. Do be prepared to work yourself to death. You'll find that Eng. Sci. is not really more difficult – just more work. If you're good at that you'll do well. There is quite a lot of dissatisfaction with the course. Some people have even termed it 'a meat grinder'. Be prepared to adjust, to do a lot of problems, a lot of supplementary reading, and, if need be, to transfer. If you can hack it, you're a better man than we (man! the typist here objects!) Ed note: Damn Women's Lib! Best of luck and remember, there really is no market for 170 aerospace engineers (honest!).

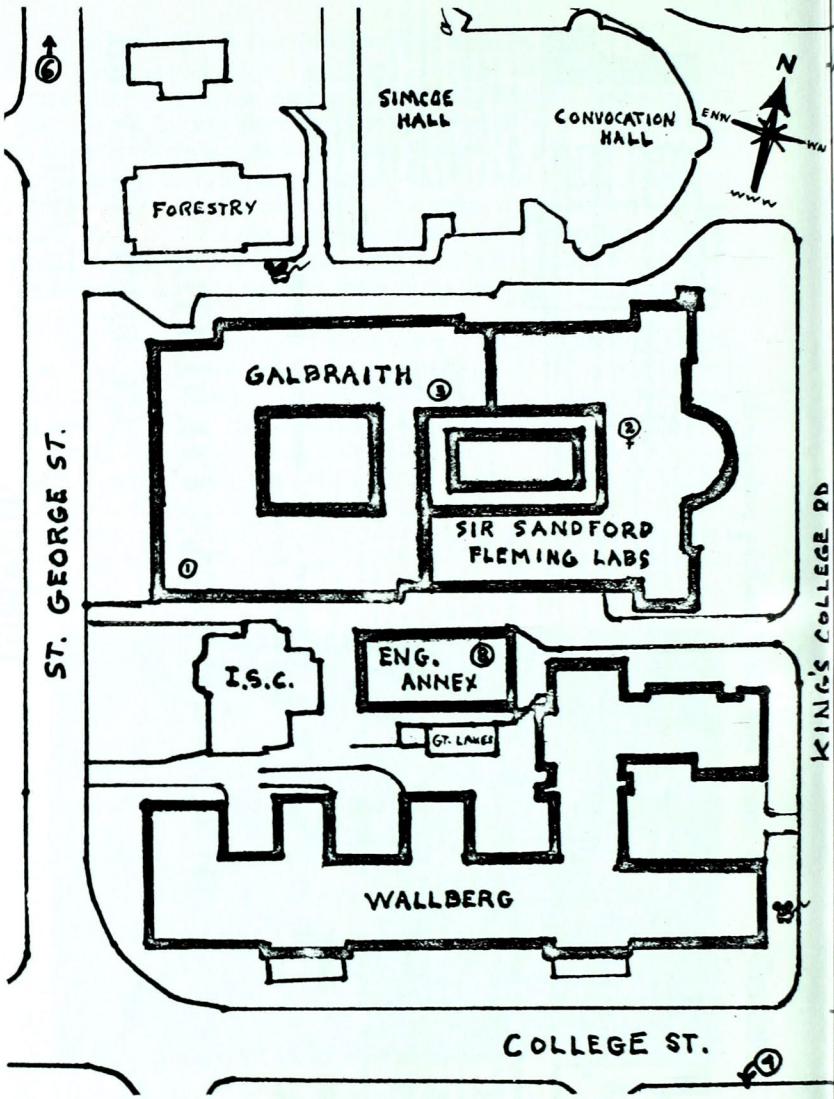
If things like Eng. Sci or math problems or life in general are getting you down – what to do? If you're **HUNG UP** or something for goodness sakes TALK to someone about it. Try the Health Service – you may actually be coming down with something!

And now for all you athletic types and even for the rest of us, the word on **SKULE SPORTS.** If you are some sort of super-athlete you can play on the University team. For everyone else, Skule Sports provide a welcome change from academic drudgery. There are teams in almost every sport you can name which compete in the interfaculty league as well as class teams and others which consist of people who share some common attribute. Two of the most successful of this latter type are the Eng. Sci. Dropouts and the Engineering Girls' Hockey team. The girls especially need your support (only figuratively, although they may borrow your shoulder pads!)

For the reward-minded there are a number of letters, awards and trophies to be won which you can find out about in the Engineering Athletic Association Constitution (available in the Stores) or from the president, Max Bosotti at 248-2262 or Publicity Man Zbig Galuszka at 537-7587. You'll need a locker early if you're going to avoid the rush so hurry to take part in the football, soccer, rugger, vollyball, hockey, basketball, squash, waterpolo, swimming, lacrosse, track, golf and sex. Skule teams have scored well in the past; we depend on you to maintain our tradition.



Skule Q.B. Drops Back for a Pass . . .
While Trinity Blockers Separate the Men from the Boys(! ? !)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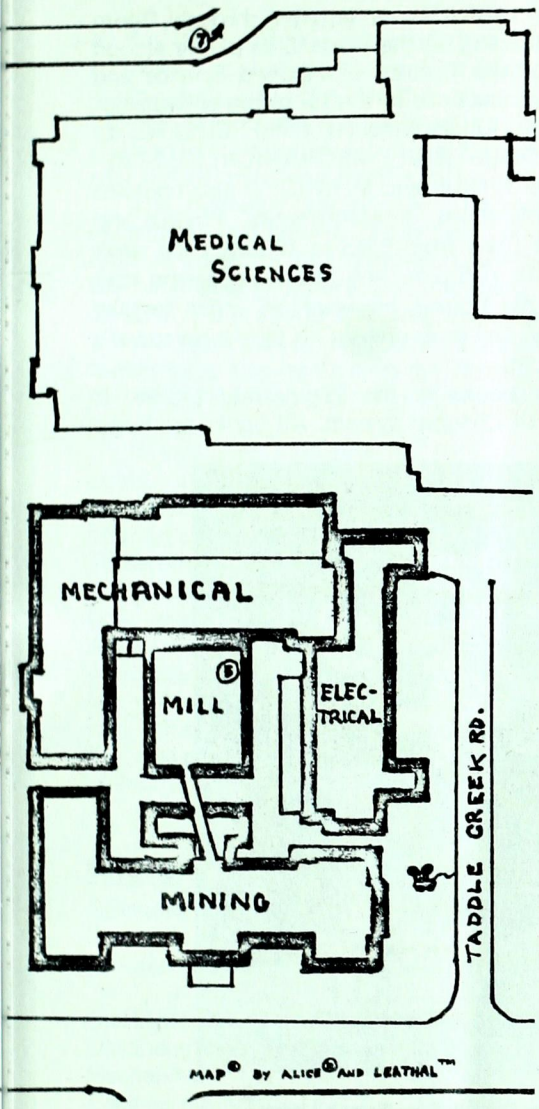
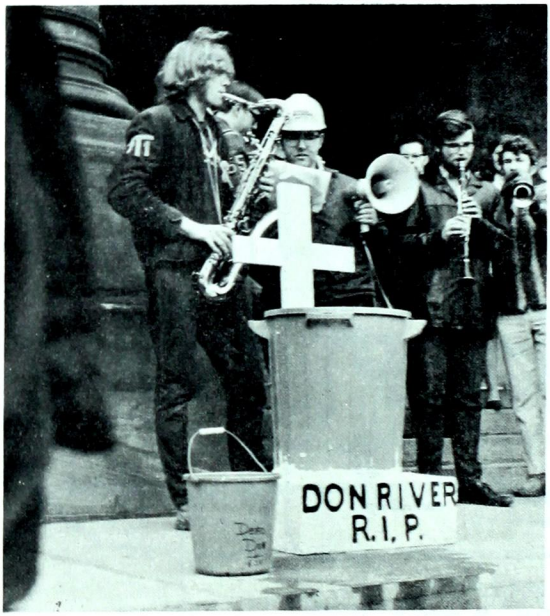


ENGINEERING BUILDINGS

1. Faculty Office
2. Eng. Undergrad. Terminal
3. Eng. Library
4. Grad's Restaurant
5. Eng. Stores
6. Drill Hall (Dances)
7. Main Library
8. Cafeteria

The **ENGINEERING LIBRARY** is entered through Room 224A of the Galbraith Building on the North Side of the second floor. As the library for the Faculty of Applied Science and Engineering, it maintains collections in the following branches of engineering: AEROSPACE (undergraduates only), CHEMICAL, CIVIL, ELECTRICAL, INDUSTRIAL, MECHANICAL, METALLURGY, MATERIALS SCIENCE, and MINING. It also contains supporting scientific publications in Mathematics, Physics and Chemistry. The library is open from 8:45 to 10 p.m. each week day. Saturday hours are 9 to 5 p.m. Any interested person may consult material within the library. However, in order to take material out of the library, one must present his plastic borrower's card obtained at registration.

The arrangements of books in the Engineering Library is according to the Library of Congress system. All books are listed



Band Banned for Studying Dirty Notes in Library.

in the card catalogues. One of these, the author-title catalogue, consists of alphabetical entries of authors, joint authors, editors, organizations and titles. Another, the subject catalogue, consists of Library of Congress subject headings for books only. There is a small separate catalogue listing M.Sc and Phd theses by author for civil and electrical engineering only.

The reference librarian will be more than happy to assist students in finding difficult material, and to aid in answering any type of question for information whether it may be available in the engineering library or elsewhere. During the fall term especially, but also at any time thereafter, the reference librarian will be ready to conduct brief tours of the library and answer questions so that newcomers may familiarize themselves with it. A revised guide to the engineering library is available.

If you ever find time to **RELAX OR STUDY** your library books, or other matters, there are several places you can go. Apart from Hart House, I.S.C., and the colleges etc., there are a number of rooms in the Engineering buildings set aside for this purpose. These range from the relative quiet of the Library with more than 100 study carrels, to the club common rooms where you may find Coke machines, card players and, unfortunately, Radio Varsity. Also, although you're not really supposed to be there, if you find an empty classroom or problems room, nobody is going to kick you out until its time for a scheduled class. Help us maintain this easy relationship by being tidy and quiet. Here is a summary of the designated study and relaxation space in the Engineering buildings.

Building	Room	Description
Galbraith	322	Electrical-Civil Common Room
Galbraith	224	Library
Sandford Fleming	330	Engineering Science Common Room
Old Electrical	205	Industrial Common Room
Old Electrical	215	Industrial Reading Room
Mechanical	331-2	Mechanical Common Room
Engineering Annex	101-7	Cafeteria
Mill	106B	Mickey da "V"'s Office

EVERY SKULE YEAR.....

is loaded with a number of amazing events, the first of which is **FRESHMAN ORIENTATION.** This event is a must. You have already paid for it so take advantage of an opportunity to meet new friends, lose old ones, and make valuable contacts amongst those misty moguls, the upper classmen. On Saturday everyone meets in front of Convocation Hall. After an hour of spontaneous amusement, buses leave for the Caledon Hills. There, an hour of work is followed by lunch (drinks provided free) swimming, sauna baths, certain sporting events devoted to demonstrating ball control, and a Lady Godiva Memorial Concert and a bus ride home (not necessarily in that order).

On Sunday freshwomen, from Nursing, Pots and other courses join us at Convocation Hall. After a brief mating period we head by devious routes to the Toronto Islands where we mutinize the ferry, devour free food and have an afternoon of frivolous mirth and joy. Most people return in time for their first class (in October)..

On Thursday Sept. 24th, orientation continues with the FRESHMAN DANCE This dance is an exclusive event for Freshmen and Women only. There is no admission charge. Merely prove that you are First Year (or a woman) and enter. The dance features a live band, free drinks and a chance to beat the upperclassmen to the women.

Like all other Universities, Toronto has the best basketfoot-hockeyruggerball team in the world. This small, but dedicated group of athletes, known as the **VARSITY BLUES** is responsible for much of the campus entertainment. The Blues generally field a strong football team, a nearly invincible hockey team and the Blue & White Rubber Band (a half time show, which fills in between LGMB concerts). Games are followed by Pagan rites known as Hustling Dances. Costing less than a dollar apiece, hustling dances attract hordes of Engineers some others and an excrogenating assortment of feminine pulchritude. Each and every sweet young nubile is intimately scrutinized by an implacable panel of dirty old men in order to maintain the world renowned Engineering Standard of Excellence.

Also associated (although loosely) with sports is the

When the Blue footballers head to Montreal, U of T students follow, for the biggest bash of the year.

Busses leave the University on the Friday and return Sunday. The happenings on the buses and in Montreal are only limited by your imagination. In previous years the LGMB has lead massive parades through downtown Montreal, closed subways and played atop PLACE VILLE MARIE on its way to the football field.

After the game there is a victorious tour of McGill University's women's residences (even if we lose), wild parties, and sorties into the famous night spots of Montreal.

Souvenir and record hunters break out everywhere. Many of these trophies are on display at the Engineering Stores, the others went home by bus when they sobered up. Last year the world's first international street ping-pong championship was played in a major downtown intersection. The table was donated (unwittingly) by the Russian consulate.

Later in the year, another football oriented event occurs. **HOMECOMING WEEKEND** celebrates the revival of an age old rivalry between Queens and Toronto. On Friday, there are dances, reunions (that's when people add water to dehydrated unions for supper) and wild parties. Afterwards all the drunks, heads and straights (who have been mainlining water all evening) who can still walk, gather in secret places to spend the night building floats for a parade on Saturday. The parade is highlighted by a final pass in front of a reviewing stand where high (literally) dignitaries judge the best floats. Engineering has never failed to be disqualified. It's always for minor misunderstandings over the rules such as hijacking competing floats, arresting Claude Bissell at gun point or driving through the reviewing stands. Saturday night features a Hart House Victory Dance.

Virile Boys in the Band play Montreal. Score: Engineers: 182, Montreal: O.

Hart House dances have class. The best before Christmas HHD is the **CANNONBALL'** The Cannonball is famous for its midevening celebrations, in which the **ENGINEERING QUEEN** is crowned, and the winners of the **INTERCOURSE COMPETITIONS** are announced.

The best after Christmas HHD is the **LADY GODIVA MEMORIAL BASH.** The Bash is great, unpredictable and usually your last chance to get a date for the **WINTER CARNIVAL.**

The Winter Carnival is a non-existant event which Engineers traditionally enjoy celebrating. It's all very complicated but in essence the winter carnival is run by Artsies who give Engineers money and ice to build an ice palace. On a Friday afternoon Skule offically opens the W.C. (Winter Carnival) with its world famous Chariot Races and hunga-dunga festival. A week passes in which nothing happens until we offically close the Carnival with the **SKULE AT-HOME.**

The At-Home is a semi-formal dance featuring an orchestra, rock band, food and a bar, and is famous for closing the Winter Carnival.

Every year the Engineering Society helps out the United Appeal by holding the nth annual **ENGINEERING AUCTIONS.** Choice beauties (usually women) are auctioned off in front of a raving crowd of about a thousand Engineers. The lucky girl gets an evening with an Engineer, complete with free tickets to something (it's always different). To simplify bidding a class rep buys the girls with money collected from his class. A raffle is held amoungst the contributing class members to determine the date.

The auction itself is amazing. Everybody comes with the intension of grossing out everyone else. Some classes appoint gross-committees, who dream up ways to turn the whole affair into a gigantic horrow-show. In and amoungst shouts and screams of "skin, skin", "jump up and down" and thrown projectiles, the whole thing ends up looking like a hockey game in the Gardens with sex. (High sticking anyone?)

All this brings us to **STUDY WEEK,** a week of no labs or lectures, designed to let us catch up on our studies, improve our minds and even study for those upcoming exams. It just goes to show you the difference between theory and practice. We ski.

Finally the year ends with the **SPRING ELECTIONS** of Feb. 26, 1971 and the **EXAMS** in April. See the following schedule for the dates of this and other disasters.

1970-71 FRESHMAN SCHEDULE

Sept.	10	Thurs.	Freshman Registration & Orientation
	11	Fri.	Dean's Address & Orientation Cont.
	12	Sat.	Hart House Farm
	13	Sun.	Toronto Islands Picnic
	14	Mon.	Lectures Commence
	21	Mon.	President's Address
	24	Thurs.	Toike Oike (First Issue) & Freshman Dance
	25	Fri.	Start of 3-Day McGill Weekend
Oct.	12	Mon.	Thanksgiving Holiday
	15	Thurs.	Toike Oike
	21	Wed.	Eng. Soc. General Meeting
	23	Fri.	Fall Elections
	30	Fri.	Homecoming Dance-Drill Hall
	31	Sat.	Homecoming & Float Parade
Nov.	5	Thurs.	Toike Oike
	13	Fri.	Cannonball
	19	Thurs.	Toike Oike
	20	Fri.	College Bowl Hustling Dance-Drill Hall
Dec.	10	Thurs.	Toike Oike
	11	Fri.	Last Lectures — Fall Term
	14	Mon. to	Fall Examinations
	22	Tues.	
	23	Wed. to	Christmas Holidays
Jan	3	Sun.	
	4	Mon.	Spring Term Commences
	14	Thurs.	Toike Oike
	15	Fri.	Last Date for Spring Fees
	16	Sat.	Lady Godiva Memorial Bash
Feb.	4	Thurs.	Toike Oike
	6	Sat.	At-Home
	15	Mon.	Last Day to Withdraw without Penalty
	15	Mon. to	Study Week — No Lectures
	19	Fri.	
	25	Thurs.	Toike Oike
	26	Fri.	Spring Elections
April	8	Thurs.	Last Lectures — Spring Term
	19	Mon.	Spring Examinations

You may have already heard of **HART HOUSE** and the large number of facilities it has for U of T students in the SAC Handbook or in Hart House's own publications. What you may not know, is that it plays as large a part in the lives of Engineering students as they do in the operation of the House. Such clubs as the Camera, Radio, and Scuba Clubs have many Engineering members and would welcome more. HH is a great place to relax and unwind and, if your social life catches up with you, there are any number of comfortable chairs where you can sleep and thus avoid cramps from sleeping in those hard classroom seats.

THE WARDEN'S MESSAGE

The Warden and the Staff of Hart House offer a warm welcome to the Engineering Freshmen class of 1970. You are all members of this House and, like the Engineering classes of former years, we hope you will make full use of the various facilities which Hart House provides.

Hart House is governed by student committees and the different activities of the House throughout the year are planned and executed by students — all the way from Bridge and Chess tournaments to music and art shows featuring everything from the popular to the classic.

Hart House is for everybody — whether you like to swim or to eat — it is all here and you can enjoy yourself from 8.00 a.m. to 11.00 p.m. from Monday to Friday. On the week-ends the House is open even though some of the daily food and athletic services do not function then. Among the more popular activities with Engineers are the projects initiated by the Amateur Radio Club and the Camera Club. All of the latest equipment is available for those interested. Bridge, Chess, Archery, Table Tennis, Squash are also popular.

We look forward to seeing you during your studies at the University of Toronto.

E. A. WILKINSON
Warden

One of the nice things about this university is **THE INTERNATIONAL STUDENT CENTRE.** The centre, right in between the Galbraith and Wallberg buildings (which makes it fairly international) is a fascinating place where cultures meet and intermingle. The most important thing about the centre, one soon realizes is that it is not a 'foreign student centre' but an 'international' one. While some activities are directed solely at a particular group of foreign students, most of the dances, lectures, picnics, displays, seminars etc are devoted to fun and learning for both Canadian and visitor alike. There are far too many activities and facilities to be listed here so pick up their pamphlet or just drop into 33 St. George Street. There's always something going on.

One of the more interesting and at the same time frustrating things about Engineering at U of T is the exposure to those fascinating beasts, the IBM 360/65's. You'll make their acquaintance through the **ENGINEERING UNDERGRADUATE TERMINAL (E.U.T.)**

The history of the EUT (which is run by the faculty) and ICS (Institute of Computer Science) which provides the computer facilities to the EUT) has been somewhat checkered. ICS particularly has angered students and professors in the past by its alleged indifference to student problems. However, Prof. R.A. Collins in Civil Engineering (Rm G230), our representative on the Computer Users' Committee, says that ICS is now on an even keel and operating in a satisfactory if not ideal way. If you have a complaint about the computer service, you're getting, please tell him – he'll do all he can to help.

It is easy to allow yourself to spend so much time on computer programming that you neglect almost everything else (even sex unless you believe in automation or Women's Liberation). Academically it isn't worth that much, so watch that you don't get excrogenated.

If you have had a job this past summer you were lucky. Many of your fellow students didn't. Thus it would be a good thing to investigate the **PLACEMENT CENTRE** at the corner of Spadina and Willcock. Don't be too hopeful. They can't create jobs which don't exist so you'll have to do a lot of the legwork on your own. The staff really work hard trying to find jobs for the students but until the present economic conditions improve considerably they

BFC Chief Supervises Ball Handling at Hart House Farm during Freshman Orientation

Frosh get Canned during Nth Annual Engineering Chariot Race.

won't be able to help the large number of freshmen applicants except to give you a lot of useful advise about how to look for a job on your own. Also, if you don't really need the money, there is a file there of all the volunteer projects which go on in the summer and need people to help. Start looking for next years summer job yesterday.if not last month. GOOD LUCK! ! !

Occasionally when you tire of peanut butter and jam sandwiches, forget your lunch or trade it for a subway token and two used Varsitys, you may want to know about **EATING OUT.**

Almost every building on campus has some eating facilities. Beware of Mew College and the Engineering Annex. Nu College changed it catering staff last year after an outbreak of alleged food poisoning. The quality of food immediately skyrocketed until it became merely inedible. The Engineering Cafeteria (in the Annex) is a Venda-dung paradise.

Machines dispense (for ridiculously high prices) a meagre selection of inedible food. However there are lots of tables and chairs for cards or eating your own lunch.

The Medical Building has a new and clean cafeteria with many facilities (not to be mistaken for the morgue) Unfortunately the food is somewhat in character with the building (clinical? ! ?)

University College has a large underground cafeteria known as the Refectory. Engineers have been eating there for a long time despite a certain coolness in the attitude of the male? artsies towards us. No one yet has reported on the quality of the food. The nearest we came was a comment from a soul who kept muttering: "Wow oh! wow! wow! " Too bad there's only one of me; the rest of you girls will have to be disappointed."

Hart House offers several facilities. The Tuck Shop is noted for selling assorted U of T nicknacks such as nightshirts (what? ! ?) and sweatshirts. Cokes, milk, candy bars and doughnuts are available along with a place to sit and enjoy them. Last year the Tuck Shop was used as a pub Thursday evenings. "The Black Hart Pub" may be continued this year. The Arbor Room has a typical cafeteria atmosphere and has hot edible meals, excellent milk-shakes, sandwiches and snakes at reasonable prices. The Great Hall is more sophisticated and serves hot meals of good quality and fair prices.

Grossmans, a licenced liquor lounge is the closest spot to the campus to buy beer. About a block and a half south of college on Spadina, it features an unusual atmosphere and reasonable prices.

On the other hand there are the catering trucks which sit on St. George St. Some of the food is edible but the prices aren't.

Chouie Louis (alias: The Grads') restaurant is a good spot to eat. The food is quite and the prices are fairly. Engineering profs and many students eat here. The Grads is situated on College St. just opposite the Wallberg Bldg. (see map number four), and is exceptionally handy for sustenance during your labs.

For those of you who can't even afford an evening coffee, never mind eating, the Toike will gladly accept some of your time and even a little work in exchange for a free case of heart burn or half a Pizza Pizza Pizza.

The **ENGINEERING STORES** are managed on a non-profit basis by Engineering students who donate their time. As a result everything sold there is priced lower than anywhere else. They handle paper, slide rules, draughting equipment, rubbers and all sorts of hunga dunga, with the exception of hard cover texts. In the same general area (the back room) the President's (Mickey da V's) office, the Toike Office, Mother Acker, the photo-copier and the Lady Godiva Memorial Coke Machine are found.

The stores also serve as a collecting place for souvieners and trophies, the starting point for capers and a general rest home and care area for Engineers who couldn't find their lectures.

The **U OF T POLICE** control parking on the campus, watch sit-ins and protect buildings and casual on-lookers. Known as the Mickey Mice, they occupy small, semi-glass boxes on all entrances to the University, not to be mistaken for telephone booths or Johnny on the Spots with observation privileges. The worst disturbance they've had to quell occurred when a very healthy Great Dane refused to be curbed. A squad of ten officers spent two hours and twelve cans of Mickey Mace trying to drive the dog off in order to rescue a man trapped in an extremely wet telephone booth.

WHO'S RESPONSIBLE FOR ALL THIS MESS? ? ? ? ? ? ? ? ?

There's nothing like an academic community to bring out man's innate love of committees and bureaucratic government. In the belief that you can't tell the plagues without a programme, we present a brief outline of what to expect.

First of all there's your very own **ENGINEERING SOCIETY.** This group to which we all belong (and pay) is run by an elected Executive which meets every two weeks or so in the Debates Room of Hart House. The current President is the Rt. Hon. Michael Vivian Sefton C. E., M.E.S. (otherwise known as Mickey da "V"). The Executive is responsible for overseeing the organization of dances and other social events, creating channels of internal and external communication and co-ordinating the student groups within the faculty. Your chance to elect a **FIRST YEAR PRESIDENT** and others to represent you on this body is comming up Oct. 23. Since this body spends a large chunk of your money we hope that you will vote wisely.

In First Year, your class will have a class rep to provide direct communication with you but when you move on to higher years you also have a Course Club to organize various social activities for you and to represent you on the Eng. Soc. In addition these clubs take part in staff-student committees at the department level. These committees are most important in maintaining the conditions necessary for an effective education.

Students are also represented by 24 members on the **FACULTY COUNCIL.** This council is made up, in addition to the students, of the teaching and administrative staff of the faculty and is the ultimate authority within the faculty. The committees of this council have the real power in this faculty and, with this, the first full year of student participation, the student representatives will help to decide the most important facts of your academic life. They have earned the right, without protest or demonstration to discuss faculty policies on failure rates, semester structure etc.

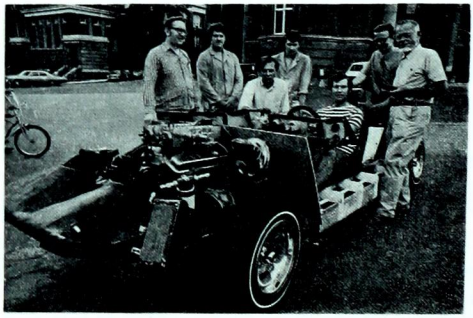
Another political structure which rips off your fees is the **STUDENTS' ADMINISTRATIVE COUNCIL.** This group handles well over a quarter of a million dollars a year and is headed by a full time elected President, Rod Hurd. This year's vice-president is Eric Miglin, a student in III Industrial Engineering. There are about 60 representatives from the various faculties and colleges

who as SAC function as the student government. SAC has been going through a period of irrelevancy but there is some hope that this year it will emerge as a useful body. They do have useful information regarding course critiques and student aid etc. Don't be afraid of their office staff — under their radical rhetoric they are often very materialistic human beings, hording thousands of blotters, posters and other inscrutible papers.

In the matter of **UNIVERSITY GOVERNMENT,** there is little we can tell you which wouldn't tend to make you as confused as the rest of the university community. Some say that only Dr. Bissell and Robin Ross, the Registrar, really understand how this university runs now and they aren't telling. However all of this will change (hopefully) as a result of the June meeting of the University Wide Committee.

This body, made up of members from all segments of the University Community (Students, Staff, Administrators, Alumni, Support Staff etc.) managed to set an outline for a future Top Governing Structure of the University as a unicameral body on which all would be represented. While no group within the UWC was completely happy (mind boggling isn't it?) with the result, all of us (and you too) should press for the production of a new University of Toronto Act to do away with the present bungling and confusion.

All the structures we have mentioned require students who are willing to sacrifice their time and energy for the good of their fellow students and the university. We hope that there will be many such students among you, the class of 7T4.



Engineering Students and Profs during Building of Their Entry in Clean-Air Car Race

And so we come to the end of this gripping saga of courage, mystery, and romance. We assume that having gotten this far, and with the end clearly in sight, you don't much care for long, tiresome conclusions and summations. For us, it has been a long summer of meetings, hassles, "identity crises", "major policy decisions" and some rather musical phone calls. If we had it to do over again, we'd probably condense the whole thing onto one ditto page suitable for airplane folding, and hope for the best. You and your successors **will** have it to do again so suggestions and/or pleas for improvement are always welcome.

At this point we would like to thank Jean Bubba, our loyal late-night girl-child and all time wierd speller, and all those others who worked on this weighty tome. Thanks also to Dean Ham, Profs Burke and Tracy and to the U of T Dept. of Physical Plant for their co-operation and valuable contributions. Finally, thanks to Mike Sefton, our hard-working pres. who has been (at least up until now) a good sport about the whole thing. Well-----that's it----have a good year!

Alice & Brian