

s.p.s.
Handbook
***** 1971-72



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S.P.S. 1971-72

HANDBOOK

— a brief guide for uninformed freshmen and misinformed artisans —



Published by The Engineering Society
of the University of Toronto

THE MACHINE

BIG WHEELS

BOB MITCHELL
IMANTS JUMIS

LITTLE WHEELS

DEREK SMITH
ELEONOR LEWICKI
RON JAMIESON
DAVE PIKE

COGS

PETER TAYLOR
KNAR BASMADJIAN
JOHN VANNESTE
BRIAN MILLER
JIM RICHARDSON
CHRIS CRAGG
PAUL CADARIO
PETER NEWELL
MARK FELDMAN
BARBARA BAXTER
DAVE EASTWOOD
CHARLES DE LA RIVIERE
JAN

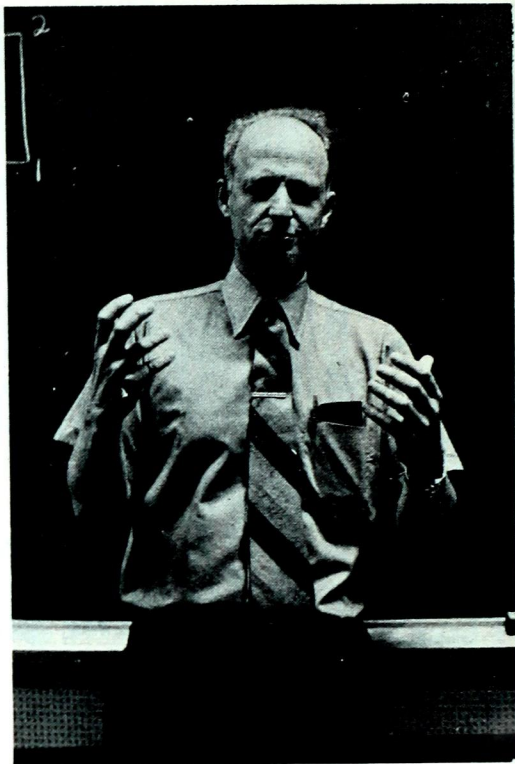
GREASE

ERIC J. MIGLIN

THE DEAN'S DELIVERANCE

If you take one mothball in this hand and one mothball in this hand, what do you have?

One helluva big moth!



P.S.

In two years the Faculty (called the School of Practical Science before 1906) will be celebrating with Ecole Polytechnique in Montreal the first centenary of engineering education in Canada (shades of EXPO!). Lest you think we are old and stuffy recall that there is only one "CANNON", one LGMB, that we initiated in Canada studies of Aeronautical Engineering and Aerospace, Biomedical Engineering, Engineering Science, Industrial Engineering etc. and are still pregnant!

If you ask about "outside" you will find "SKULE" everywhere, some 16,000 strong, dispersed throughout the technical and managerial fabric of Canadian industrial and governmental enterprise. The recent provincial study of the engineering schools of Ontario entitled "Ring of Iron" reserved for School two distinctive comments, the first that "all Canadians can take pride in its achievements and its international reputation," the second that "no other engineering school appeared to have more satisfactory interaction with other faculties in both teaching and research".

"Inside" this year you will be testing out a new curriculum designed on a term basis and providing, as suggested above, unmatched opportunities to elect a significant part of your studies throughout the diverse programmes of the University.

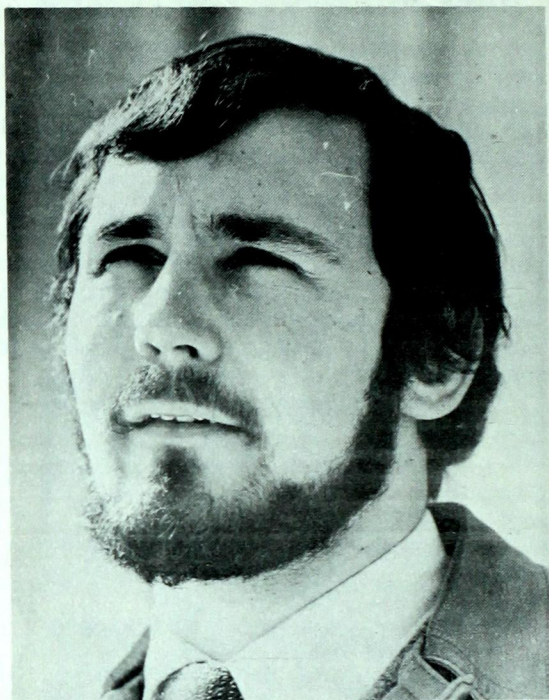
At a time when society at large is imputing many ills to the unbridled use of technology, we are concerned through the disciplined use of engineering principles to help you to understand, to design and to manage the humane development and use of "hardware" and "software". The parts of a well-designed machine interact with and complement one another in realizing a particular function. Our society today is a truly interactive one in which it is essential to perceive the distinctive parts of systems for industrial production, transportation, energy, water-supply, waste disposal, health care and shelter. Engineering education won through hard work can contribute to you a clear and constructive view on these essentially social issues.

See you in Calculus 2411. If not drop in to Room G167. Associate Dean Craig, Chairman for First Year Studies and Professor P.E. Burke and the Faculty Office Staff are here to work with you. Design something beautiful.

The Dean.

THE PRESIDENT'S ADDRESS

35 High Park Ave.



JESUS CHRIST, SUPERSTAR

Fellow Engineering Student:

This coming year has all signs of being an exciting and dynamic one for all of us within the Faculty. The Engineering Society Executive and numerous other people have been working hard throughout the summer in preparation for it. The plans and groundwork have been laid but all this will come to no avail without active participation on the part of each and every Engineer.

Those of us in Engineering have much to take pride in; we possess a greater sense of esprit de corps than do any other group of students on this campus. It is important to remember that we are all members of the Engineering Society and that the Society only grows and prospers in proportion to the effort we put into it.

This coming year can be a good one for SKULE if we all pitch in and work together. I ask you on behalf of the Executive to make a commitment to yourself and to your fellow Engineers, to participate actively as a member of the Engineering Society. Your life here at University will be better for it; the Society will be better for it.

Looking forward to working with you and for you.

**ERIC J. MIGLIN, PRESIDENT
ENGINEERING SOCIETY.**

THROUGH THE BROKEN KALEIDOSCOPE

The assorted styles that have been warped together to form this handbook provide a random sampling of that intangible which surrounds your career here; the spirit and style of SKULE.

Oscillating from the lunatic fringe to straight fact, the underlying purpose is the same; to inform you as to what is transpiring at right angles to your armpits for the four (or five) years you may (or may not) be here.

As a sermonette to frosh and whatever upperclassmen there are whose minds have not developed a case hardened exterior, your years here may need hard work to get through, but the reward can be much more than a piece of paper or an iron ring. If you possess beliefs or ideals you will be stalked by those who will try to ridicule and erode them. Don't let it happen. The people who get the least out of their lives at this university are the people with the thickest skins of cynicism. Keep an open mind on things, and keep your mind exposed. Don't make the classic academic retreat into books; go out and get involved in the learning experience that's happening outside of lecture hours. Become an active part of your environment.

The faculty staff is not quite as ponderous as the calendar paints them, (as you may well discover when you attend that great engineering institution, the smoker) and behind closed doors often lurk open minds. If you've got a problem, take it to them — they may actually want to help you.

Thusly cautioned, you may proceed onward to view through the broken kaleidoscope.....

B.M.

Apologies are extended to all those who had their material raped.

COLD TURKEY

And now for the heavy stuff (23.61 gm/cc at 20 deg. c). The who, what, where and why of Skule. A compendium of facts and trivia, which it is hoped will assist you, and mayhap even be of help to upperclassmen who have never taken the time to look past their bridge hand.

Books

All you avid knowledge fanatics have no doubt read the calendar. If you thought of buying the books listed with the courses; don't! You will probably find that different professors recommend different texts. You may find also that some texts are much better than others. A good bet is Schaum's Outlines. If you can solve problems you can pass, and Schaum's contains numerous solved and supplementary problems.

Along with slide rules and drafting equipment, books are going to cost you a lot of money, and you naturally want the best deal. A & A's and other bookstores are quite often cheaper than the U of T bookstore. The cheapest source of course is to find a 2nd year man who wants to sell his books and drafting equipment. Since the slide rule can be an expensive piece of equipment make sure you know what you really need before buying. Professor L.E. Jones gives a lecture (?) on this subject during the first week of classes. Don't miss it! (Ed. Note: I did).

People.

Believe it or don't Profs are human beings. In spite of what you may hear from some segments of the university community, Profs are not out to destroy you and your offspring for centuries to come. Like the rest of the human race though they do make mistakes. It is inevitable in a faculty as large as engineering that problems will arise. When they do arise drop in on the prof and explain the problem. Remember "his door is always open." Many problems can be simply solved by talking. If the problem still appears insurmountable, drop into the Faculty Office and see Professor Burke, Chairman of First Year Studies. He has the power to change things and is always willing to help. Other luminaries in the office include Smiling Bill Dowkes, Asst. Secretary, Associate Dean Craig, Professor Hewitt, Mr. Gow, Asst. Dean and Secretary and Dean Ham (who is that man?). Backed up by a legion of feminine pulchritude, they too are there to help you. They really are sincere in their desire to help so don't hesitate to call in time of trouble.

As I said above talking sometimes solves problems, but a better catch-phrase would be, communication solves problems. During the year there are staff-student coffee parties and nearly every club has a dinner, which most Profs attend. Go to some of these events and meet the Profs and your fellow students. When you get to know someone, he may not be the specter you thought you saw from a distance. Learn to talk with people, not at them, and you will find a whole new world opening up to you.

Nitty Gritty

You may have the impression that all engineers do is drink, wench and march around having a good time. If you do, grab your tranquilizers and prepare for a shock. Your four (five) years at the University will be full years to be sure, but full of work. The latest figures from a leading clinical survey show that our group will spend 48 to 50 hours a week, including classes, working. Of course this time is for an average student, and I have yet to meet an average student. If by chance, you too are not an average student be prepared to spend a little more time working.

One of the most important things you will learn at university is the ability to organize yourself and your time. Working is important, but don't work yourself into the ground. Make sure that you have a certain amount of time set aside for outside activities. Organization and planning can allow you to maximize your enjoyment of life and minimize the pain (Industrial Eng. problem). Your planning should also include having a good time during the Christmas holidays, because nobody gets any work done then anyway.

Even with planning though, you will not complete everything you should. The feeling that the world is "out to get you" is extremely strong on Sunday nights when you realize that you have an essay, two lab reports and three problem sets due the next day. Don't panic! Everyone has this feeling from time to time. The best course of action is to make like the old tortoise and just keep plodding along.

The bane of every engineering student is the infamous problem set. These excruciating little gems consist of a number of problems which must be solved in a specified time and handed in to be marked. The value of these sets should not be underestimated as they are often the only means of self-assessment. Mark-wise they may count for a little; they may count for a lot; it depends on each professor. You will find that nearly everyone at one time copies part of a problem set or works as a group on one. Don't make copying a habit. You're only fooling yourself if you think you know the work because you handed in the problem set. You may be surprised when similar problems appear on the exam and you don't know how to do them. Which naturally leads to our next topic.

Armageddon

In Engineering the day of judgement is spread over two weeks. Having studied under Fu Manchu, the Faculty has this particular form of torture down to a fine art. There is no simple way to pass exams, although offerings to Zeus and Oden might not do any harm. We must admit that exams really show nothing more than your ability to memorize a few facts for a brief period of time, but so far they are the only yardstick available.

You may remember that exams in high school are mostly essay questions, and with a minimum of knowledge you can, if skillful, "snow" many teachers. Unfortunately exams in this faculty are

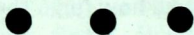
nearly always problems. It is conceivable therefore that you can get such staggering marks as one and two out of ten. Again don't panic! Marks are relative. The important factor is your position in the class relative to everyone else. Final exam marks are generally raised until a class average of 66 per cent is attained. The bell curve says whether you pass or fail.

In the past a large number of first year students have failed (25 to 30 per cent). It is reported that in the future the failure rate will not be so high, but don't depend on this to get you through. Approximately 12 per cent of the students withdraw, which is probably the smartest thing you can do. The advantages of withdrawal are many and well explained in the calendar.

Occasionally that nervous stomach before an exam is more than a nervous stomach. If it is more, drop into the health service to get a professional opinion. Even a cold is grounds for a petition. The impression gleaned from the calendar is that a fall from the top of the TD tower is the only grounds for a petition, but take this with a grain of salt. Any instance of ill health is grounds. The only real requirements are that the illness is legitimate and the petition is submitted within three days of the exam.

Commitment

There is a facet of university life that is not taught in the classroom. This is the growth of your personality. Getting involved in different organizations and doing things for other people can be extremely rewarding. There is a spirit and feeling of comradeship that will not be found in other faculties. It requires that you give of yourself and your time, but the rewards are immense. The memories and friendships you form at university will be with you for a lifetime. You may find out things about yourself that you never knew. Get involved.




"Did you hear about the medman that fell in the cesspool? He couldn't swim but went through all the movements!"

Did you hear about the artsie taxidermist who mounted animals?



It's for your own good you fool, get out of Eng Sci!



COMPLIMENTS OF THE ELM RESTAURANT & SUNDRIES

ELM

171 College St. at McCaul
(just across from Mining Building)

Serving Good Food

Full Course Meals....

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We carry a full line of school
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Refills at Discount Prices.



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\$1.00 OFF REGULAR
ADMISSION PRICE FOR
STUDENTS WHO PRESENT
THIS ADVERTISEMENT

HOT FISH

Within the deepest bowels of the insidious Mill Building lies the office and centre of operations of the only organization known which can strike terror into every heart in the entire world. From an office carefully disguised as a student store, this close-knit cadre of specialists directs an operation of unparalleled sophistication, with agents and operatives infiltrating every nuance of activity within and without its realm. The awesome group of which we speak is none other than the infamous Brute Force Committee. Under the leadership of the immoral Chief, eight Ministers rule the Departments of DeF!ence, Information, Propaganda, Flactotum, Amanuensical Archives, External Affairs, Nocturnal Events, and Blinded Dog. Each Department is an unstoppable spearhead crew. Together they form a Committee of unlimited potential.

The Committee passes no opportunity to exact retribution on those who oppose it, to bring frolic and humour to all, to bring scorn to those who cannot laugh at themselves, to do great and charitable deeds for the deserving few, to ensure the continued rule of those traditions which make Engineers the Great Men on Campus, and always to enoble the Engineer and vilify the artsman.

There is an agent of the Brute Force Committee in your own class. Seek him out and ask him for news. If you can't find him, he isn't doing his job. Volunteer yourself.

The signal to a Caper (the only true Brute Force Event) is a Tiny Toike. This leaflet, strewn secretly in official stairwells, bids forth the Committee masses to follow such spearhead groups as the Committee Syndicate (you'll recognize their distinctive hard hats), the Cannon, and the ultroneous Lady Godiva Memorial Band, to the trills, excitement, and fun of an original BFCaper. Cum with us, cum in unison, cum strongly, but cum!

BFCAPTIONS

No. 1 — to join us, simply find us. If you can't manage that, become an artsie.

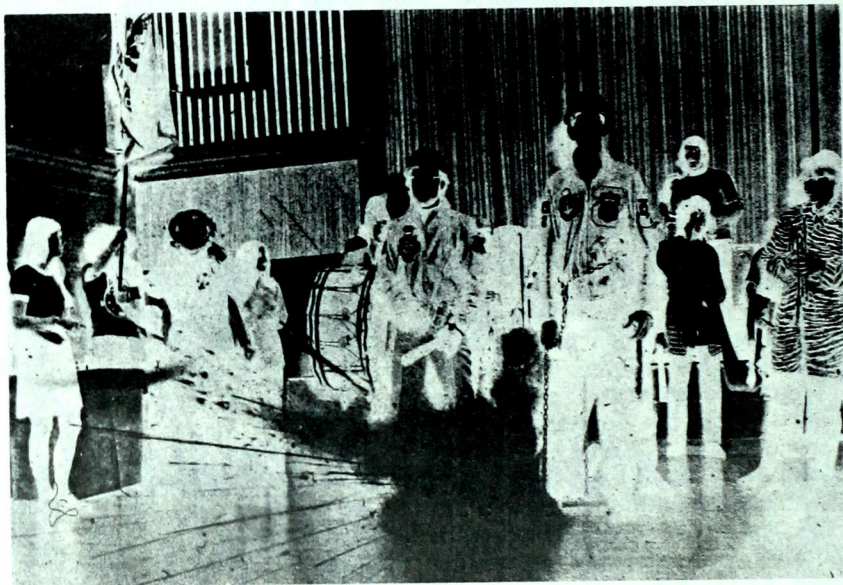
No. 2 — all Committee members bring your Engineering jackets, hard hat, and a black armband (very important) to Bloor & St. George at 1:30 p.m. on Thursday, September 9. **ENGINEERS ONLY!!**



The roar of the mighty Skule Cannon is the signal for the cumming of another excrogenating Cannonball. (Bring your Cannons, Bring your Balls!). This event starts off slowly as merely the best dance on campus all year, but things quickly rise at the crowning of Miss Engineering. From there the LGMB will take you higher. Watch out at all times for unexpected and titillating spurts from the BFC. Finally this incredible night reaches an overwhelming climax with the Intercourse Competition.

The place is Hart House (kindly donated for the Engineering Cannonball by the Massey family), and the time is late November (kindly donated for the Engineering Cannonball by God) and the action is fast (kindly donated by Mario's Bakery, Newark, N.J.)

The Cannon is cumming, are you?



Skule Cannon at warp factor 4.



Girl explaining her cynical view of life: "We were out on his yacht when he told me a big blow was coming, so like a damn fool I let him tie me to the mast!"



Hustling Dance Entrance Exam

Speaking of orgies (if you weren't, why weren't you?), we also breed a Slave Auction (read Action). Each year, believe it or quit blocking my vision, the Engineering Society collects an unbelievable number of University (and other, if we can make them) wenches, and sells them to the highest bidder (badder, budder, bedder). It's all in the name of United Appeal, which makes it almost legal.

SPECIAL NOTE TO ENGINEERING NARCISSISTS: This year, for the first time in the history of anything, there will be a **MALE SLAVE AUCTION**. The Professional Women (as opposed to artsie women) will be given the opportunity to purchase select Engineering bodies. Don't miss this, one week after the Female Auction.



I know a girl who sleeps on her side — her boyfriend is indifferent.

Some girls are just like pianos. If they weren't upright they'd be grand.

The highlight of October is Homecumming Weekend. This campus-wide experience is a solid weekend of fun and frolic. Friday evening is filled with dances and other activities devoted to last-minute hustlers. Friday night we probe further intercourse co-operation by joining with the Professional Women to create an unbelievable yet finite number of erections known as Homecumming Floats. If there is any time left over after this first climax, movies of various natures (e.g. Mother) will run until well past breakfast-time. Saturday morning the various U of T groups display their erections to the entire city in the Homecumming Parade. Each year, of course, Skule produces the best Float (and the most truly floating Float), and gets disqualified on the most different counts — the record being eleven.

The reason for the rest of this insanity is the Homecumming Football Game on Saturday Afternoon. At the half-time of their concert, the LGMB graciously allows the U of T Blues to demolish some inferior team. This is followed by a mind-boggling number of victory celebrations, taking us well into Sunday morning. The Blue and White Society will probably fill Sunday with yet more excrogenation. Watch for the notices. The key to it all. . .DON'T SLEEP! It never hurts to get to bed now and again, but DON'T SLEEP! It is incredibly possible to remain awake for an entire weekend. (It is also incredibly possible to remain asleep for an entire week, both of which are equally harmless). If you don't live downtown, don't worry. . .the entire campus is open all weekend and you can crash almost anywhere. A sleeping bag is handy, being softer than a bare floor.



Engineers! . . . If it's the only thing you don't all year, be sure to miss the McGill Weekend. Mainly because we aren't going to McGill. After n-to the -69th McGill Weekends, there is nothing left intact in Montreal. This year we're perpetrating an Ottawa Weekend. The plot is simple: several busloads of revelers float all the way up there, and we spend the rest of the weekend tearing the city apart. Start thinking now about all the great things you'd like to do in Ottawa if only you were drunk enough. In order to get properly lubricated, if you happen to be underage, simply go to Hull (Go directly to Hull. Do not pass the Hill, Do not collect \$18,000). Oh yes, somewhere buried in all of this there is a football game, which no one can ever remember.



The time is January and like usual the campus is dead, suffering from a campus-wide epidemic of the January Blahs. But fear not, troops, the Engineering Society shall come to the rescue again. For this is the time for all good Skulemen to cum at the LGMParty (My, God that has a lovely ring! Actually it's the LGMBash). Once again the LGMBand captures the Hard House for an evening of fun, frolic and frivolity ("Cut that out, sweetheart, you know what that frivolity does to me". "Not there, there!")

Every year, precisely sometime in February, U of T's Engineers (Wake up, that's us!) put to shame Ben Hur, Maria Hymn, Hummpe Them, Wassamtta U., the U of T groundskeeper, and the rest of the world in an incredibly gross show of couth known (knevern!) as the Nth Annular Chariot Race. It is a well known astrological fact that the great spring thaw shall always precede the Chariot Race by one day. The object of the race is for each course (Civii, Electrical, Canadian etc.) to guide its vehicle through one circuit of Front Campus. As a consolation, those who finish first and miss all the fun win the J.P. Pots Memorial Trop-high. The chariot must pass inspection at both the start and finish lines. It must have two wheels which rotate, and must contain a driver (read masochistic sucker), who must have a pulse greater than 1 per minute (although he needn't be breathing). Ate pullers and infinite blockers are allowed. For the time of your life (which will be announced at the conclusion of the race), don't miss this truly crude event.



After an evening at the theater and several night-caps at an intimate little bistro, the engineer whispered to his SMC date, "How do you feel about making love to men?"

"That's MY business," she snapped.

"Ah," he said. "A professional!"

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- WILD KNIGHT ROOM
- LADIES & ESCORTS

OPEN:
MON. TO SAT.
12 noon to 1 a.m.

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of Bay on
Bloor



"...meet your friends..."

Two artists in Africa were caught by cannibals and put into a huge cooking pot. One artist laughed hysterically. Annoyed, the other artist asked, "What's so funny?" The first one replied, "If they only knew what I was doing in their soup!"

POLITICS

SAC (Some Like It Hot)

The Students' Administrative Council, popularly known as SAC, is the university-wide student organization. Depending on who you talk to, it is either an incompetent student union or an incompetent service organization.

In this large university it is SAC's incompetence which keeps us all together. However, SAC is the biggest mover for change in the university, and has been instrumental in establishing course evaluations. When SAC pioneered them four years ago, they were met with considerable distrust by staff and students alike. However, they are now a yearly ritual in practically all Engineering subjects, and are becoming important for deciding what shall be taught, how, and by whom.

SAC has fought, over the years, for reform of the university's top governing structure. They have adamantly insisted on parity, equal staff-student representation on all governing councils and decision-making bodies. Last year, SAC helped organize a 3-day strike in the Faculty of Arts and Science to underline student demands for parity on their Faculty Council. Next year will undoubtedly see more action in this area.

SAC publishes The Varsity, our tri-weekly campus newspaper. Widely known as "paper to wrap dead fish in", the Varsity is a shining example of why freedom of the press should be outlawed. This year's editors, Tom Walkom and Linda McQuaig, have promised a long-overdue change. If you don't like the Varsity, then all the complaining in the world won't help. The thing to do is to join it and change it. (Ed. Note: Read, infiltrate and destroy).

SAC also supports Radio Varsity, our local radio station. Smiling Pay Dymond and his gang at 91 St. George are always looking for technicians, newscasters and other assorted primordials to turn out campus-oriented entertainment.

SAC maintains a bureaucracy at its offices in the Old Observatory in front of Hart House to run the organization and help students of the university. If you ever have questions about any facet of university life, clubs, activities, on-or-off-campus, then the SAC bureaucrats can probably help. In addition, SAC maintains a reading closet and extensive files on education, university government, pollution and other topics of interest. If you want anything from \$20.00 bills to wedding invitations printed, then the gentlemen at SAC Press can help.

The student council is composed of representatives drawn, by population, from the colleges and faculties of the university. The president and vice-president this year are Bob Spencer and Phil Dack. Although they are constantly surrounded by, in their own words, "an air of chaos", they will probably do a good job involving students and getting things for students from the university administration. Ed. Note: (One man's meat). Bob and Phil are assisted by an executive of 10 members of Council, who are primarily responsible for policy setting and executions.

SAC is constantly criticized as being too little concerned with the needs of students and too much concerned with petty campus politics and support for external groups. Every year, numerous examples can be drawn to support these changes. But no one ever does anything to change SAC. The Engineers and others on Council who think SAC isn't doing what people want are seldom supported by an angry but apathetic student body. Very few students phone their reps to offer suggestions, advice, or constructive criticism. Reps are usually acclaimed.

"The fault, dear Brutus, is not in our stars, but in ourselves".

As they say at SAC, "Struggle!" (Ed. Note: They really do say things like that at SAC.)

Faculty Council (Some Like It Cold)

Those of you whose tastes in politics run more to discussion than to confrontation would be advised to run for Faculty Council. The Faculty Council is the academic governing structure for the Faculty of Engineering. Composed of all teaching staff, (about 175), selected administrators and 24 students, the council meets monthly to debate and act on matters that directly affect undergraduate life in Engineering.

It is the Council that ultimately decides whether there will be a final exam (there probably will be), whether your marks need adjustment (they probably don't), whether two weeks is enough for study and exams (it probably is), and other matters of importance. It acts on the advice of its standing committees (which include Curriculum, Examinations, Policy, Scholarships, among others) where the decisions are really made. (Students sit on these committees).

Departmental structures are similar, and offer a somewhat different scope for student representatives. In a departmental academic council, you deal with professors you know, under slightly less formal proceedings. Departments, however, tend to have their decisions made by the Chairman, and, sitting at a department council meeting, one often gets the impression that approval and discussion are a mere formality.

At the Faculty Council, however, anything can happen and usually does. The people, students and professors, with something to say sit at the long table in the centre of the room. Most of the organized debate occurs from here, but it is the comments from the remainder of the

members' area which often determines whether a motion passes or fails.

Student members of Council are listened to and often specifically consulted concerning matters of Faculty policy. Still, most students believe that they must speak "extra responsibly" and have especially weighty arguments before they can hope to sway Council. Members of the teaching staff can get by with inadequate preparation and faulty delivery, but students must "do their homework" and speak well in order to persuade and convince. Sometimes even that doesn't help.

In their first year on Council, the students learned a great deal, and in the opinion of many staff members, contributed much to the decision-making process. Their advice wasn't always taken, but they participated actively and positively in the governance of the faculty.

In September, it is expected that meetings of Faculty Council will be open to observers. A limited number of free passes will be available on a first-come, first-served basis in the Faculty Office, one day before each meeting. So if you're free, come and see our Faculty government in action.

Eng. Soc. (Some Like It In The Pot Nine Days Old)

The Engineering Society is the student organization within the Faculty of Applied Science and Engineering and has the distinction of being the oldest Engineering organization in Canada, having been founded in 1885. The term "Engineering Society" is often confused with the term "Engineering Society Executive" and refers, contrary to popular usage, to the entire undergraduate body of the Faculty. The Engineering Society Executive is the actual central co-ordinating council for undergraduate Engineers within the Faculty.

The Engineering Society Executive handles the business and administrative details for the Engineering Society as well as organizing and co-ordinating a large majority of the social and educational activities for the Engineering student body. They organize the major social events within the Faculty such as the Cannonball and the Grad Ball. One of its very important functions also is the running of an extensive initiations and orientation program for the incoming Freshmen.

The Eng. Soc. Executive also supports and provides a headquarters for the controversial Engineering student newspaper, the TOIKE OIKE. It supports and provides a tactical command post for the infamous Lady Godiva Memorial Band and the clandestine Brute Force Committee. It has for many years now operated as part of its organization the Engineering Stores whose aim is to provide supplies to you at as low a price as possible.

In order to finance its activities a fee of \$7.00 is levied on each Engineering student giving the Engineering Society an operating budget of approximately \$15,000. While this may sound like a large sum it must be pointed out that the Engineering Society levies a substantially smaller fee than any other student council on campus.

S.A.C. REPS

**ENGINEERING
SOCIETY
EXECUTIVE**

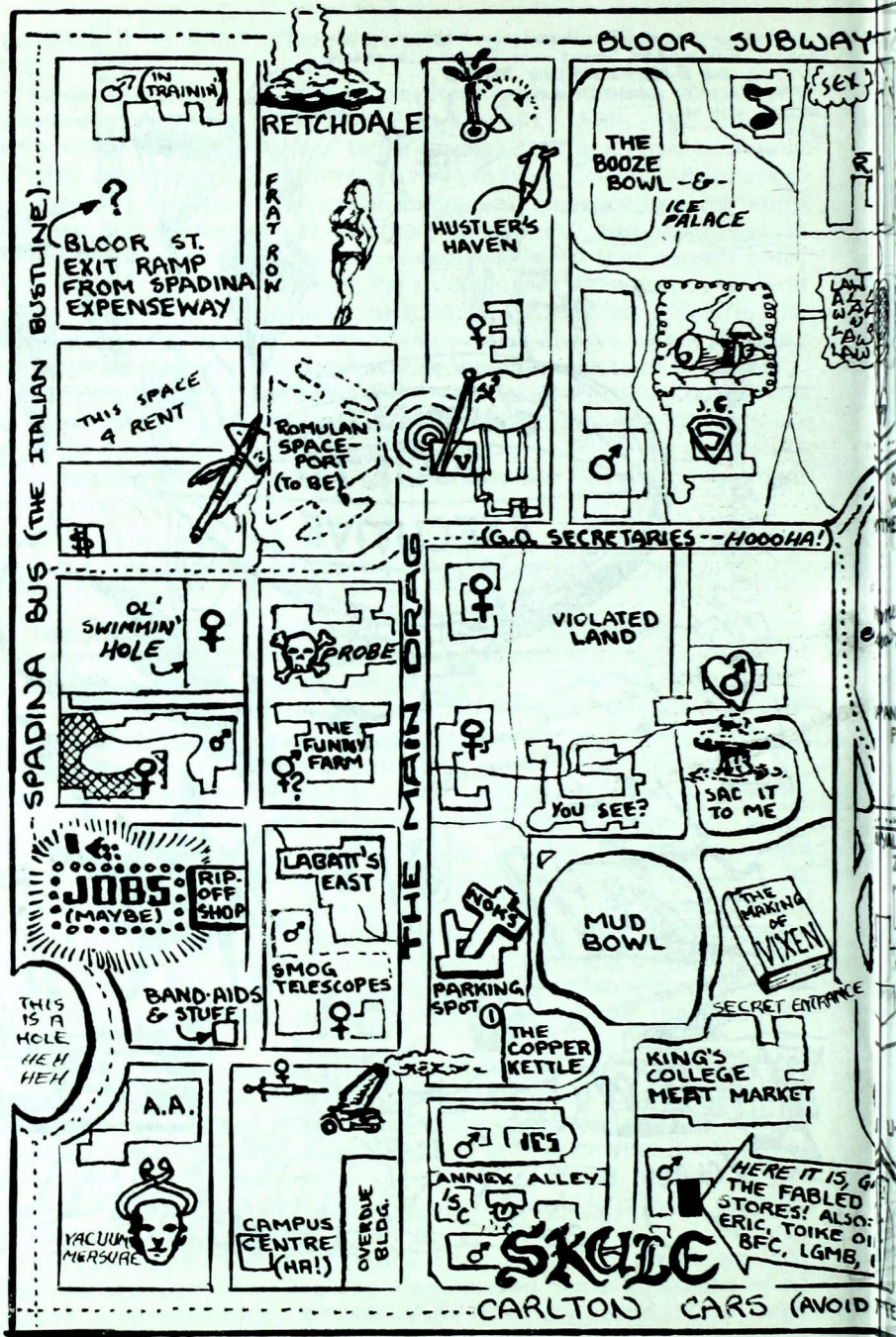
THE BIG 30

FACULTY COUNCIL REPS

COURSE CLUBS

A hand-drawn illustration of a river with the words "STUDENT BODY" and "CLASS REPS" written on rocks in the water.

Ron
 Jamieson / Bob
 Mitchell



SPADINA BUS (THE ITALIAN BUSTLINE)

(IN TRAINING)
BLOOR ST. EXIT RAMP FROM SPADINA EXPENSEWAY

RETCHDALE
FAY ROOM

HUSTLER'S HAVEN

THE BOOZE BOWL - & ICE PALACE

SEX

THIS SPACE 4 RENT

ROMULAN SPACE-PORT (TO BE)

(G.O. SECRETARIES -- HOOOHA!)

J.E.

LAW
LAW
LAW
LAW

OL' SWIMMIN' HOLE

PROBE
THE FUNNY FARM

VIOLATED LAND

YOU SEE?
SAC IT TO ME

THE MAKING OF WIXEN

JOBS (MAYBE)
RIP-OFF SHOP

LABATT'S EAST
SMOG TELESCOPES

PARKING SPOT
THE COPPER KETTLE

MUD BOWL

SECRET ENTRANCE

A.A.
VACUUM MEASURE

CAMPUS CENTRE (HA!)
OVERDUE BLDG.

ANNEX ALLEY

KING'S COLLEGE MEAT MARKET

HERE IT IS, G. THE FABLED STORES! ALSO: ERIC, TOIKE OI, BFC, LGMB, I

SKULE

CARLTON CARS (AVOID)

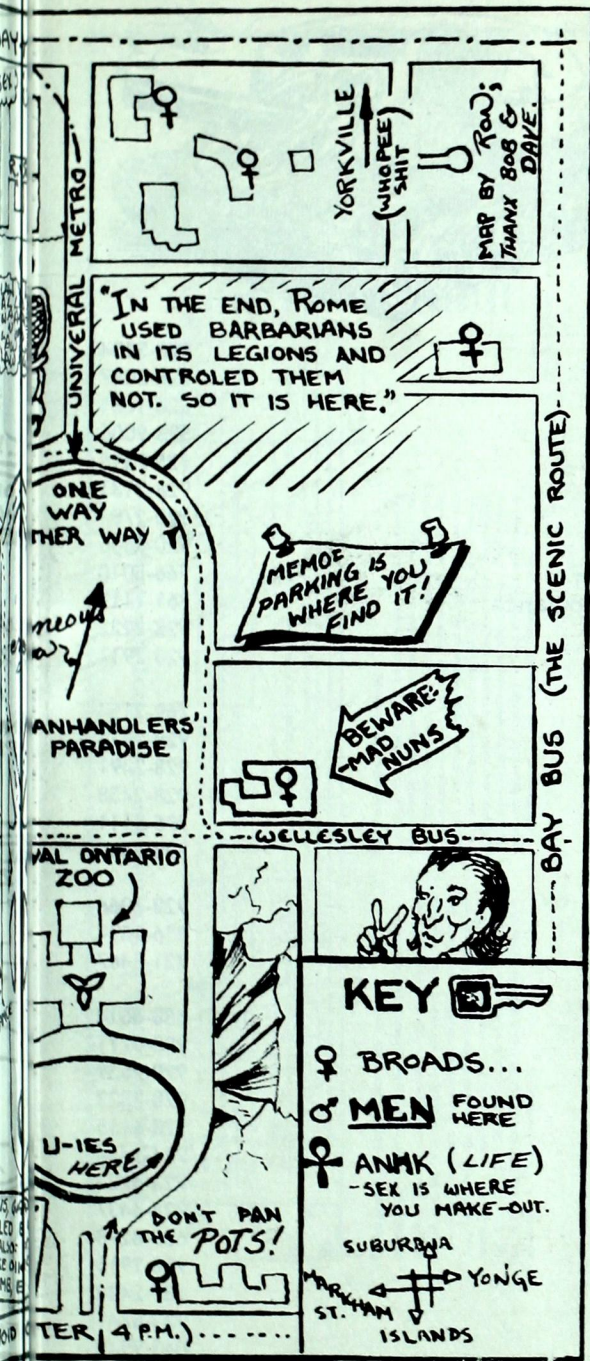
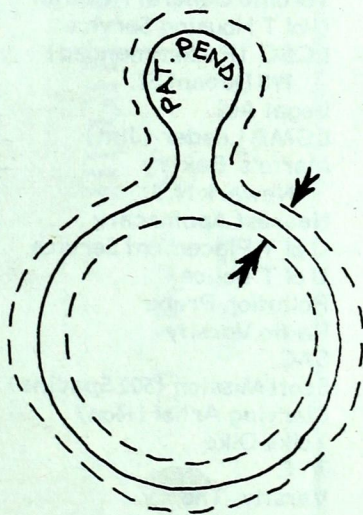
LEGEND

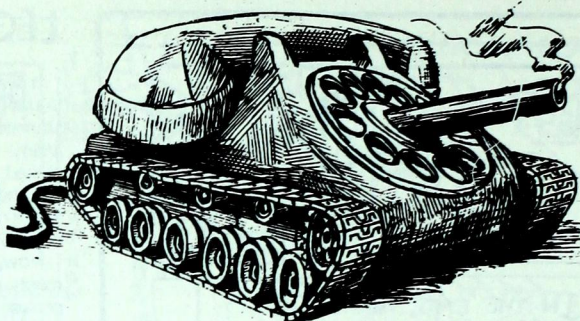
It was a dark and stormy night. Suddenly a shot rang out. A door slammed. The maid screamed. Many hours later, Chewie Louie raised his blinds and discovered the heinous plot. Someone had discarded an old university campus on his lawn!

Now, thanks to the magic of micro-chip technology, we are proud to bring it to you, conveniently pasted in the centre of this, your journal. To aid you in your travels about campus, we have also included the latest breakthrough in the field of optics.....

INSTRUCTIONS:

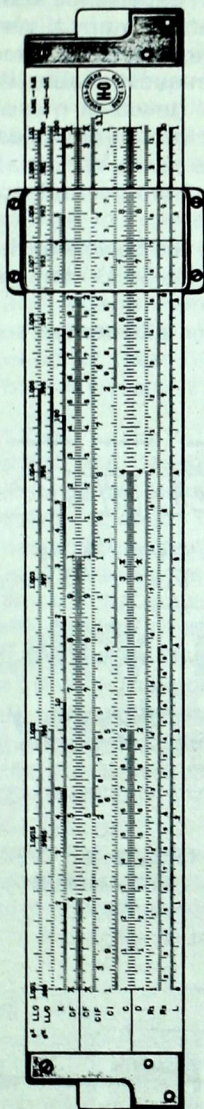
1. tear out along dotted lines
2. find small kid with granny glasses
3. deactivate subject, and insert lense (left if myopic, right is astigmatic) in apparatus from 1.





APSC Faculty Office	928-3134
U of T Athletic Assoc.	928-3087
BFC (Dave)	826-1661
Birth Control & Abortion Info.	533-9006
Campus Daycare Centre	925-7495
Dean Ham	928-3131
U of T Dental Clinic	928-2784
Dial-A-Commie	920-5806
Drug Crisis Centre 12 Madison	966-5010
Metro Emergency Fire & Ambulance	361-1111
U of T Emergency	928-2222
Engineering Society	928-2917
Eng. Soc. President (Svens Brother)	769-2154
Engineering Stores	928-2916
Hart House Activities	928-2491
U of T Health Service	928-2458
Toronto General Hospital	595-3111
U of T Housing Service	928-2542
LCBO (Recommended) 198 Dupont St.	922-7066
Legal Aid	366-9631
LGMB Leader (Jim)	421-8467
Mario's Bakery Newark N.J.	1-201-488-6614
Nearest Apothecary	923-0711
U of T Placement Service	928-2539
U of T Police	928-2323
Pollution Probe	928-6155
Radio Varsity	924-1444
SAC	923-6221
Scott Mission (502 Spadina)	924-4437
Starving Artist (Ron)	635-8298
Toike Oike	928-2916
TTC	487-2424
Varsity, The	923-8741
Womens Liberation	863-9949

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One particularly effective way in which the engineering student can embrace his university life is by partaking in an experience known as the Toike Oike. Here, ample use can be made of the many diversified talents of our fellow Skule men from photogs, artists, and cartoonists to writers of critical, satirical, humorous or even questionable literary works. This year promises even greater highs (lows) in meaningful dearth. The Toike provides an atmosphere of convivial uselessness surpassed only in meaningless idiocy by Toronto's own Varsity. It also keeps Skulemen well-informed of the lunacy, frivolity and cultural activities provided by your Engineering Society.

The Toike's offices are secreted deep within the bowels of the Mill Building. For a moving experience (Ed. note: No Shit) cum out to a make-up.

The Toike Oike is recommended reading for all members of the human race. GIVE TOIKE A CHANCE.

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HART HOUSE

Hart House holds a unique position on campus. It is one of the few places, with the exception of SPS, that actually accomplishes something useful. (Needless-to-say, engineers are present in most of the clubs and on many of the committees in the house.) The House features numerous clubs such as: Camera, Scuba, Amateur Radio and Revolver Clubs. If you want to relax (sleep) this is the place to go; the HH Library features the softest sofas on campus. Other facets of the house are eating facilities, record rooms and the athletic wing. If you are desirous of possessing one of the limited number of lockerettes in the athletic wing, hurry with ATL in hand to the key office where for a nominal fee you can acquire one.

The best way to learn about the House is to spend some time there. The week of September 6 to 10 is orientation week in the House. All the clubs and organizations will be peddling their wares, so drop in and have a look around. One feature of the House that should not be overlooked for those over 21 is the Black Hart Pub every Wednesday and Thursday from 4:30 to 11:30.

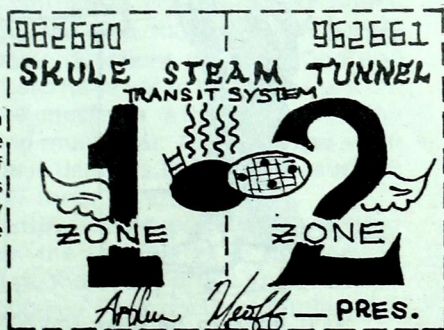
THE EIC

The EIC is a Canada wide association of engineers providing for; the exchange of ideas and information, and the coordination of its constituent societies. The U of T student branch of the EIC gives you activities and services. The activities include such things as noon hour films and speakers on topics of interest to engineers and others (a great place to eat your lunch, and it's free to everyone). Also included are smokers. And what is a smoker, you may well ask. A smoker is an opportunity to meet interesting people, listen to informative speakers and get bombed out of your gourd.

Well now, what about services? EIC provides on-the-job counselling. This is an opportunity for you to spend a day with a practicing engineer in the field of your choice. This can help you to determine what engineering is all about and to give some direction to your studies. The monthly magazine 'The Engineering Journal' and the newsletter tell you about upcoming events and noteworthy happenings in engineering. Also provided is a summer jobs program designed to find the engineering student an engineering summer job. There's lots more to the EIC, so join now.

Special Offer

Now, thanks to the Faculty of S.P.S., which narrowly outbid the United States senate, we are proud to announce the inauguration of regular SST runs on the south campus. As part of our special get acquainted offer, lucky you receives two free tickets! Have a nice trip.



PLACEMENT CENTRE

"Looking for a Summer Job?" —

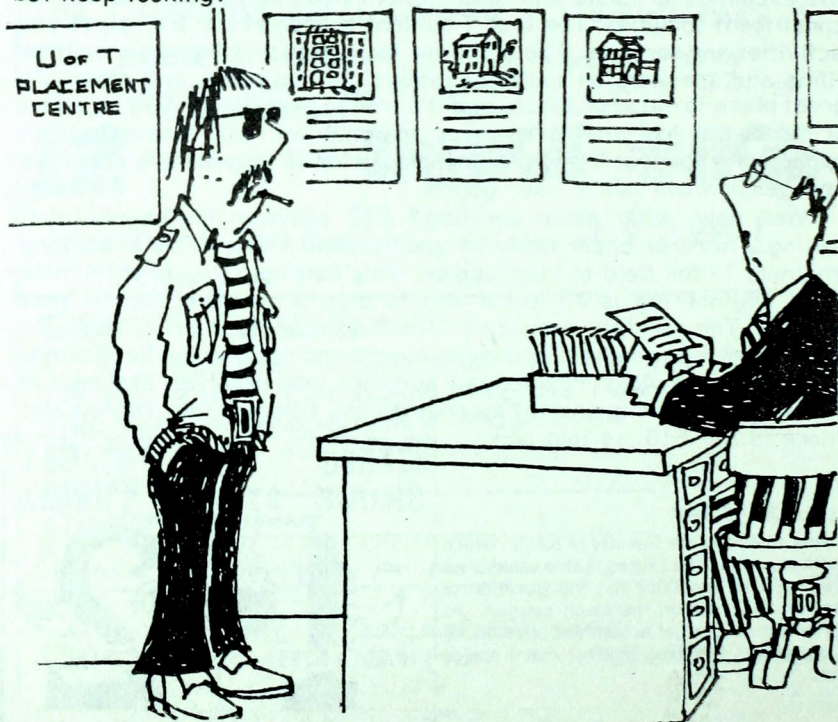
The University of Toronto Placement Centre is a good starting point. An early visit enables you to make best use of the services it offers. These are as follows:

1. Before Christmas they post a list of companies which will be coming on campus to interview students for summer jobs. This also shows what discipline and year students the company wants to hire and when the interviews take place.

2. They supply you with application forms for these companies which you (a) take to the interviews or (b) they send to the company which then invites you (or not) for an interview.

3. You arrange through the placement service the time and date of your interview. Generally a company interviews for two or three days, say in January or February. To ensure that you get an interview and get one that is convenient for you it is essential to go to the Placement Centre early on the day that signing up begins.

4. Part time and odd jobs are also advertised through the Placement Centre. Remember though that the Placement Centre only arranges these things. It does not guarantee you a job. So start there but keep looking!



'It'll have to be near town — I'm an urban guerrilla.

POLLUTION PROBE

Pollution Probe has, since it was formed in February 1969, been successful in informing the public of the gravity of our technology's violation, largely unchecked, on the ecology, and in pressing for governmental and industrial action against such negligent abuse of the environment. Officially part of the U of T's Zoology Department, Probe nevertheless functions very autonomously. With a membership of over 2,000, a permanent staff of about 15 and many volunteers, it is financed almost entirely by donation and corporate and governmental grants. There is also an Advisory Board, headed by Dr. D.A. Chant.

Here are some of the areas in which Probe has had a hand.

1. The successful banning of DDT in Ontario and then Canada
2. A verbal overhaul of the Pesticide Bd. of the Ont. Dept. of Health
3. The exposure and clean up, by threatened court action, of year-long illegal sewage pollution by the Borough of Scarborough
4. The analysis of detergent phosphate content and subsequent government action.

Summer Probe projects will be continuing in the fall to keep pressure on industry and government for at least six months.

Recycling: Public pressure and private negotiations to force industry and government to begin recycling "garbage"

Consumer's guide: The supermarket as an environmental disaster area.

Noise: Probe's own Noise Pollution Control Act will be introduced to the public and legislators

Downtown: Tackling some of the more obvious sources of pollution

Urban growth: The environmental effects of the unlimited growth of Toronto

Resort areas: Continued investigation of the problems caused by septic tanks in the cottage country

In addition, Probe's staff have several other projects underway.

Energy policy: Probe's case for a sound, environmentally-oriented policy on the use and export of oil, gas and water, prepared by experts from across Canada.

Provincial election: A committee in every riding to make sure the right questions are asked — and answered.

Despite the public assurances of politicians and the glossy public relations of industry, we realize only too well that we have barely made a dent in the problem. The basic questions of population and economic growth vs. resource limitations have yet to be faced head on.

During the next 18 months, three elections will be held in the Toronto area — federal, provincial and municipal. As Probe has often stated, environmental quality in Ontario depends in large measure on strong and enforced legislation at all three levels.

Anyone interested in helping to continue these projects or wanting to push for a positive response from the candidates in the coming elections should call 928-6155 or drop into the Probe office at 43 Queen's Park Crescent (on the east side of Queen's Park north of Wellesley).

BANDIED ABOUT

If you watch the CBC News exclusively, you have never heard of the Lady Godiva Memorial Band. If, on the other hand you are aware of the world at large, you cannot imagine life without our bungling buglers. The LGMB is composed of enthusiastic engineers (some of whom are actually musicians) and one or two token artsies (in case we need hostages). They attempt (and sometimes succeed) in raising hell around campus, city, and any other City of Miami that happens along. In addition, they are admitted (although it's rarely admitted) free...and always ejected free...to (and from) hockey games, football games, dances, and the human race (but only if the members refuse to invite us). Their popularity rests in the fact that no one knows where they'll turn up next: like in the past they've turned up in Montreal, this year they intend to turn up Ottawa and even Vancouver (Grey Cup. . .watch for us and or with us!)

If you're at all interested in ignoring the next four years in style, and have the least bit of musical ability (NOTE: ability necessary, talent not a prerequisite!), forget Jim Richardson's article which follows, and join the Band.

ATTENTION FROSH:

If you want to play with the LGMB and you can blow your own horn or can get a hold of someone else's, please get in touch with LGMLEADER Jim Richardson at home (421-8467) or leave a message in the Engineering Stores. The Lady Godiva Memorial Boot Camp will show you how to blow your horn and do it in Skule at the same time, with excrogenating results. Like free football games, free Hockey games, free Dances, free booze, free fun, free girls, free.....So, if you

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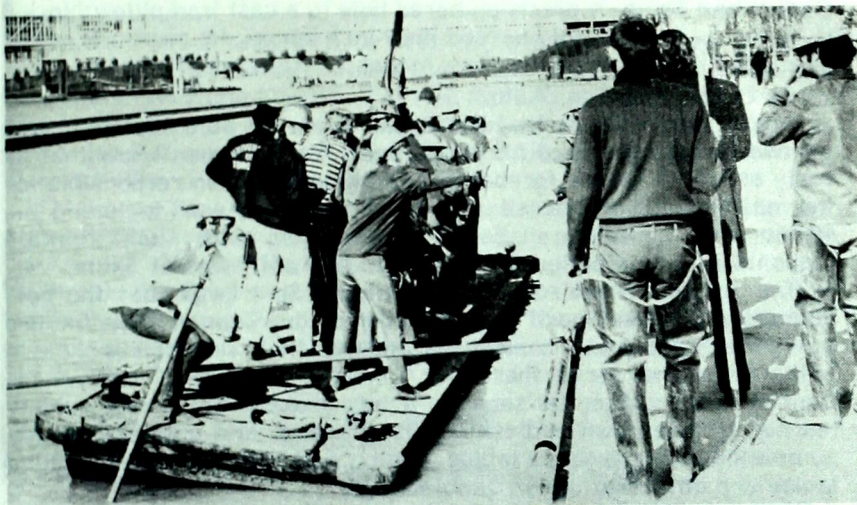


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have any, or absolutely no, or even less musical talent, please strike it in our direction and become a member of the Engineer's celebrated (but definitely not celibated) LGMBand.



Boys in the band innovate rear entry.

TWELVE INCHES COLD STEEL

As the Lady Godiva Memorial Band, Chorus, and Flying Phuque League sings out the last "Drink rum!" of our famous Engineers' Hymn, a nondescript, yet quietly impressive man takes the last drag on his cigarette. Expectantly, he awaits the drum roll (hoping the drum doesn't roll), then lowers his burning fag (Ed. Note: !). Suddenly, a magical flash of burning powder and BOOOOOM. TOIKE OIKE TOIKE OIKE, OLLUM TE CHOLLUM TE CHAY.....Yes (Virgin(ia), the Skule Cannon has once more reported the glory of Godiva and her magnificent Bang!

Since its introDUCkTion to Skule in 1936, the Cannon has become a constant companion of the BFC, LGMB, LCBO (a wholly owned subsidiary), et al. Serving in many capacities (3.7 max.), from a starting gun at the Chariot Race, to a finishing weapon at the Granite Club, it has become a symbol of Skule and what Skulemen stand for. The violent bang from its 12" barrel may also be seen as a symbol of what Skulemen lay for. Because of the Cannon's obvious talents, art-sies and medsmen have always desired it. As a result, our beloved Cannon has actually been abducted three times: by UC in 1944 (Ed. Note: U.C.?!?!), and by the medsie in '49 and '59. Clearly they couldn't make it to '69. Swift BF Action has always restored Skule's most prized possession. In '59, so grateful was the BFC for its return that they actually released the entire Meds Building, captured in a nightraid.

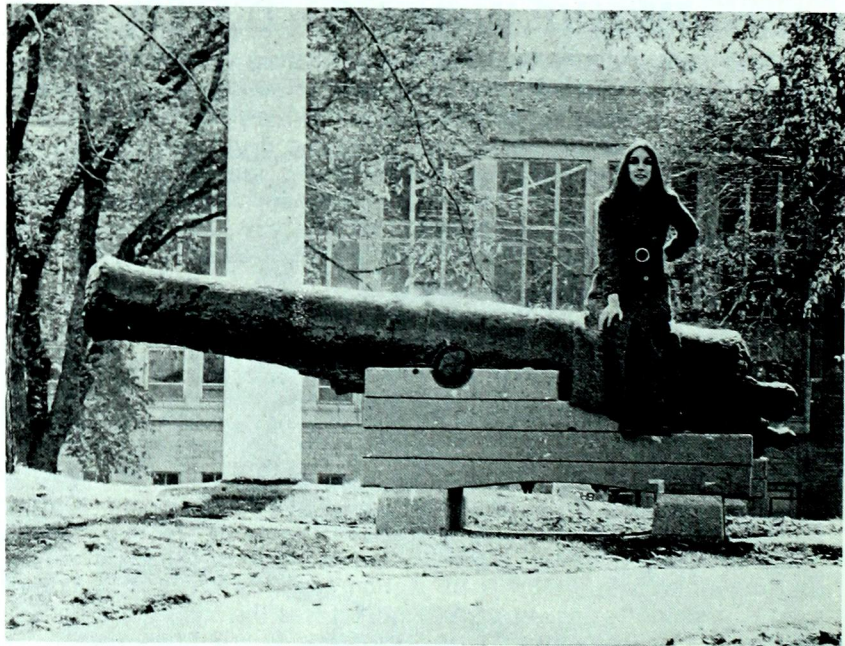
It is written that in the dark days of 1936, master craftsman W.H. Hubbinga, in his infinite skill and patience, did fashion from a seemingly ordinary water pipe a Cannon, dedicated to the glory of Godiva and Skule. A precision-bored hole in a cast iron pillow block 8 in. x 4 in. x 1 in. adoringly housed the 9-inch barrel. Its awesome power precluded the necessity for any means of transportation.

And light shone on Skule.

And it came to pass that each year, the most able Skuleman was trained in the secrets of his dread post. All Skulemen knew that as early as 1300 A.D., the forebearers of Skule had been responsible for the maintenance of defence works and engines of war, including the sitting and mounting of Cannons. The man with such ultimate responsibility was called the Attilator. And so it was at Skule.

The Attilator required four assistants. So it was that the red-helmetted Cannon Guard came to protect the Cannon from Skule's many foes. Armed with truncheons, and with their very bodies chained to the device they serve, these four 'Likeable Gentlemen' remove the Cannon from danger as soon as it has spoken. This crew quickly learned to dive down endless flights of stairs, and unblinkingly accumulated such debris as tables, chairs, and little old ladies (Young ladies are not listed under "unblinkingly").

Except for the intrusion of a "borrowed" yacht gun, the original piece lasted from 1936 to 1950 (whew!), when the immortal Hubbinga once again emerged to fashion an even greater barrel 12in. long, and



"Happiness is a warm gun!"

made it to weigh 20 lbs. When this device was removed by a group of foes disguised as graduate Engineers, the BFC let the world know of its anger, and the Cannon was returned intact from England by a true former Skuleman.

In 1967, Skule assembled a crew of specialists representing all known Cannon technology. These five Engineers produced a new and even more invincible Cannon. The 1950 Kubbinga Cannon was fired for the last time at the 69 Cannonball by none other than the Dean. It is now presented annually to the fourth year student who does something of merit (like produce the Grad Ball).

It is known throughout the civilized world that the Cannon shall cum at such Engineering favourites as football games, the Freshman Dance, the Chariot Race (usually almost as effective as Civil's blockers), the Grad Ball, and the (-fanfare-) CANNONBALL. Watch for it: the life you save could be your own. Cum with it: the life you create could be.....Protect it: the honour you protect could be SKULE'S.



A hermit is a guy who goes off by himself.



"Gadzooks—I've never seen the gods this angry!"



Six inches on a bun.

BOB: Say Eric.

ERIC: Yes Bob.

BOB: How long is the hair on the rabbit?

ERIC: I don't know Bob, how long is the hair on the rabbit?

BOB: About fourteen seconds!

SPORTS!

Godiva Needs Your Athletic Supports

The major sport at Skule is spectating. You will find that the best occasions for partaking of this sport occurs at football and hockey games. The snag here of course is in acquiring tickets. A block of tickets is allotted to each faculty and college so that it is first come first served. The tickets are sold at Varsity Stadium and require your ATL card for procurement. Unfortunately we hit another snag here, in that you have to watch the Varsity to find out when they are on sale. Often you will find that Skule's second sport (drinking) happens at these games so that it works out as a great day or evening's fun. "Come on out and be part of a football game." If you really want to be part of a game though, why not join a Skule team?

Squash

Skule usually fields two teams of about 6 players each. Equipment for the sport is minimal; running shoes, shorts, and a racket (\$10 to \$14) being all you need. If you are really hard up a racket and G-string will suffice. Matches are played weeknights between 6 and 8:30. All matches are played at Hart House and information is available there on the rules and court reservations. Get into a different racket; play squash for Skule.

Football

One of the most prestigious sports in Engineering Athletics is interfac football. The season starts in mid-September and runs to near the end of November, climaxing (oh-h-h) with the Mulock Cup Game, emblematic of football supremacy in the Interfac League. The league is divided into three divisions, and Engineering plays in the premier division against perennial (as in flowers) champions Vic, PH & E and St. Mikes.

In recent years, the Skule Football team has fared badly. The last time the Engineers made the Mulock Game was in 66, only to lose to Vic. This is a grievous wrong that must be righted. All big mean bastards in first year will be expected to help avenge the honour of SPS (smaller bastards may also qualify, depending on their degree of meanness).

Skule football season starts with an organizational meeting in the first week of classes. Practices start the second Monday of the term and are every evening on the back campus from 5 to 6:15. Be not afearred to cum. The team supplies all equipment. There is also a promise of a touch football league for the fall of 71. For details contact the football commissione. .

Basketball

In Engineering basketball, all levels of competition are offered. Don't get the "I'm not good enough attitude." Come out and get on a team. How? Announcements will appear in the sports section of the Toike or call the basketball commissioner.

The senior and junior skule teams begin tryouts in late October, but if you want something less serious try playing on a class team. The

competition is against other classes or small faculties. However the number of class teams allowed for SPS may be limited; so if you are interested in forming one, contact the BB commissioner as soon as possible.

Lacrosse

Basically the rules for Lacrosse at U of T are designed so that everyone from veteran to rank beginner can play. Even if you don't have a lacrosse stick you can play for Skule; your Athletic Association will provide one. Let's get out there frosh — everyone who joins the Lacrosse team gets to play. The schedule starts in early October and with playoffs runs to late November. The interfac lacrosse champs are awarded the Dr. W.A. Dafoe trophy. Skule has won a total of seven times (in 40 years). Those wins came mostly in the good old days (30's and 40's). Since then we've been hard up. Notices of Meetings and practices will appear in Mid-Sept.; watch for them.

Hockey

Engineering offers everything from first division interfac to intramural hockey. The teams are broken into the following categories.

- 1) Senior Skule (1st division interfac)
- 2) Junior Skule (3rd division interfac)
- 3) Intermural (grow your own class team)

See your Hockey Commissioner for details.

Rugger

Seven-a-side rugger is played at the interfac level and the Engineers usually field a team to both the junior and senior divisions. Each team carries 9 players on its roster, and practices usually start about the first week of October. Games are played on the back campus and practices are held for lack of a better time in the mornings. Skule usually puts together a strong cohesive running team and this year there will be a regular coach to put us all in shape. The fastest way to get into shape is to do some good hard running. Beginners are invited to show up for practices and if there is popular support we may even institute a third team. The season carries on until the end of November. For some real rough and tumble action contact the Rugger commissioner and watch for notices at the end of September. See you on the field.

Volleyball

The Engineering Volleyball team has won the Victoria Staff Cup for the last 19 years. If you want to play for the winners for a change, sign up for volleyball. For those who think it is an easy sport, come out to practice and see how silly you'll look. If you are an interested beginner, cum out and we'll make a player out of you. The season lasts from October to mid-February and practices are twice a week. See you at the first practice.



Wet your whistle?

Waterpolo

Waterpolo commands tremendous interest on the interfac scene. Engineering fielded a strong team in the 70-71 season and finished second in the first division. If you are worried about the amount of time involved, relax; practices are usually held on Saturday mornings (but are optional) and games are usually scheduled during the week with no more than one a week for each team. So, for an evening's exercise and enjoyment, play H₂O — polo.

Swimming

Skule boasts one of the stronger teams in interfac competition. In the 70-71 season they finished second in the Interfac Swim League. The Interfac program is designed to maximize participation and enjoyment, which it does well. It must be emphasized that exceptional swimming ability and prior experience are appreciated, but not a prerequisite (however swim trunks are). If you are interested sign the list in the Stores, early in the first term or contact the swimming commissioner.

Soccer

Usually Skule fields two or three teams to play against equivalent teams from other faculties. The quality of soccer ranges from beginner to near intercollegiate level. Games are played at lunch hours or after classes. The season lasts from October to late November. New players, especially first year, are welcome. Watch for signs of the organizational meeting during the second week of classes.

For all you Engineering athletes that participated the Engineering Society sponsors the "S" Dance at the end of the year. The dance is free, including the buffet, and the elixirs served are said to have a highly beneficial effect on the tried and tired. This one is a must; don't miss it.

Sports Commissioners

FOOTBALL	WAYNE MADDEVES	461-1289
SWIMMING	BARRY R. BOWERMAN	278-1645
WATERPOLO	ADAM GESING	487-9333
SOCCER	GARY KUMPULA	425-7363

Commissioners for the other sports will be posted in the Eng. Stores. Watch for them.

If her lips are on fire, and she trembles in your arms, forget her. She's got malaria.

A.B.G.F.U.F.A.M.A.

COOKS — usually of historical value, lab reports which are passed on from previous years. Learn to use these early in the year as they save time, improve marks and make marking easy for the demi, since the results have been perfected over the years.

DEMIS — also affectionately known as "dum demis" these guys are either senior or graduate students. Don't be scared off by their superior and knowledgeable air, bug them enough and they will help you. They are paid to do just that.

CAPERS — ingenious plots produced by insane minds and carried out in great spirits. Always a lot of fun, sometimes profitable (we steal things), sometimes criminal (we get caught). Don't forget that moving University property from one part of the campus to another is not stealing.

F! — expresses a typical engineering opinion about everything, sometimes preceded by an expletive "oh". Not recommended for use as a symbol on math exams.

CRAP — Input from Profs and Demis and Output to Profs and Demis. This is a self-generating closed system.

LIBRARY — Carefully disguised as a make out room on second floor Galbraith Building. By avoiding the librarians and carefully sleuthing, you may discover it owns every engineering-type library book on campus.



Awestruck artsman fondles engineer's tool.

A mental hospital inmate escaped and raped the first woman he saw. The toike oike sent a cub reporter to cover the story, and the fledgling scribe figured this was his big chance to make good so he wrote a dozen pages of copy replete with detail.

But his editor frowned at the volume of words and told him to cut it down to bite-size. Which the cub did three more times, the editor turning thumbs down on each revision.

Finally in disgust, the young reporter pecked out just one line that covered the whole affair:

"NUT BOLTS AND SCREWS!"

EAT IT OUT & WASH IT DOWN



The ENGINEERING CAFETERIA (in the Annex), is the closest to the Engineering Buildings and is therefore the noisiest and the most crowded. Most of our students who like to gamble find it the ideal location for that daily poker and bridge game. The vending machines and coin changers give it that "Las Vegas" air. Food, if ever obtained from the machines is usually dehydrated, molded and inedible. There is some sort of hot food available during lunch hours, but fortunately there is no place to sit.

The NEW COLLEGE CAFETERIA should be avoided. The food and its consumer self-destruct 5 seconds after intake.

The MEDICAL BUILDING CAFETERIA is being used by more engineers, each year. Full course meals are available during lunch and dinner hours but you have to hurry in order to find a place to sit.

UNIVERSITY COLLEGE REFECTORY has vending machines, semi-edible food and more girls than Engineers.

HART HOUSE is actually the best place to eat on campus.

It has four eating spots of varying quality.

1) Gallery Dining Room offers table service (shirt and tie) (licenced).

2. Great Hall: full course meals during lunch and supper. Prices are reasonable.

3) The Arbour Room has great milkshakes.

4) The Tuck Shop serves snacks to Jocks and others.

TRUCK CATERERS found most on St. George Street cannot be avoided. Too bad.

Now, to take the taste of that food out of your mouth, try some of the more popular places to. . .

WASH IT DOWN

HART HOUSE PUB located in the Tuck Shop, serves only beer on Wednesday and Thursday nights. A good, comfortable little place to meet your friends after the daily lectures.

THE EMBASSY, located on Bellair just north of Bloor St., has been the most popular spot for the Engineers. You can meet your fellow classmates there usually after tests, exams, labour day, thanksgiving day, Christmas Day, Weekdays etc.

GROSSMANS, a licenced liquor lounge close to the campus where you can get beer. About a block and a half south of College on Spadina, it features an unusual atmosphere and reasonable prices.

SEX (REALLY)

SEX & CONTRACEPTION INFORMATION & COUNSELLING SERVICE

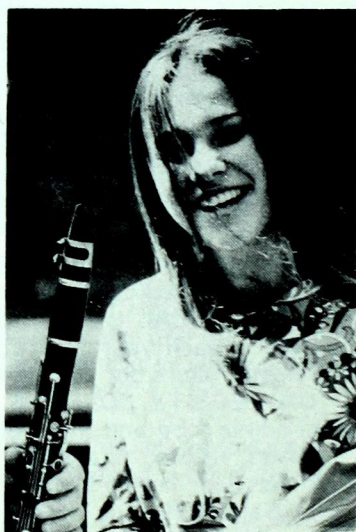
Last fall SAC, the U of T Health Service and the Department of Obstetrics and Gynecology co-sponsored a Sex and Contraception Information and Counselling Service (SCICS). Students attended from all colleges and faculties and from all academic years. Their attendance and their comments rewarded our efforts and indicated a need for a continuing program.

This fall the schedule for the SCICS is as follows:

THURSDAY SEPTEMBER 16
AND FRIDAY SEPTEMBER 17
12:00 Noon to 8:00 p.m. Workshops
Basement Lounge Health Service,
256 Huron St.

MONDAY SEPTEMBER 20 7:00
p.m.
Auditorium Medical Sciences
Building. Centre Campus Panel
Presentation on Sex

WEDNESDAY SEPTEMBER 22
7:00 p.m.
Auditorium Medical Sciences
Building. Centre Campus Panel
Presentation on The Pill



Only if you'll let me blow it.

The workshops will run continuously on a drop-in basis as part of the SAC Festival.

SOCIAL CONSCIENCE

In becoming engineers we are acquiring a skill. This skill can be applied in many diverse ways to produce many different results. In Mech. Engineering Design Joseph Shigley says "...engineering seeks to satisfy a human need." (pg. 201). But on what basis will we determine which human needs demand immediate attention and which of the many solutions is the "best" one?

Last year one professor asked for those qualities that an engineer needed if he was to be "successful". Some of the responses included the ability to be innovative, the ability to work hard and the ability to express ideas clearly and concisely. One student then suggested that a "social conscience" would also be necessary. The professor responded by saying that although a social conscience might create a better person, it would not help, and might even hinder, the "success" of an engineer. But if social conscience is not to be the basis, what alternative are we given? Only one other has been suggested: the guidelines of the company which we join.

But where have these guidelines taken us? To an environmental problem fast approaching crisis proportions. To a society where "at least one Canadian in every five suffers from poverty." (Economic Council of Canada, 1968 Fifth Annual review.) To a world where 7 per cent of the world's population (North Americans) consume over 50 per cent of the world's non-renewable resources. If these problems are to be solved, then we, with our ability to transform abstract thought into concrete reality, must concern ourselves with them.

Ford's guidelines are designed to maximize their corporate profits. Any production based on these guidelines **cannot** be expected to satisfactorily reduce the 60-80 per cent of urban air pollution caused by the automobile. Mass transit, a promising alternative, will not be favorably received by the shareholders and management of Ford. Ralph Nader's experience with General Motors indicates that the need of companies and the need of the consumer can be quite different. An alternative basis for action must be developed if we are to fulfill the requirements of our society as a whole.

In order to satisfy human needs fairly, engineers in Canada must attempt to develop our extensive resources in a manner that allows the people in South America, Asia and Africa to benefit from them. Until now the debate has been over our relationship with the U.S. What percentage of our resources shall we sell and how much should we charge? But if we are going to do more than just feed the American industrial machine, then we must attempt to set up an alternate basis; one not based on the maximization of personal gain, but one which attempts to distribute the benefits to all in our society.

The consideration of a more humanitarian outlook has been ignored, if not rejected, by many professors. But the university, because it is separated from the pressures of industry, is the ideal place to discuss such alternatives thoughtfully and thoroughly. If we are to use our skills responsibly, then we, in discussion with each other and with our professors, must develop an active social conscience.

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