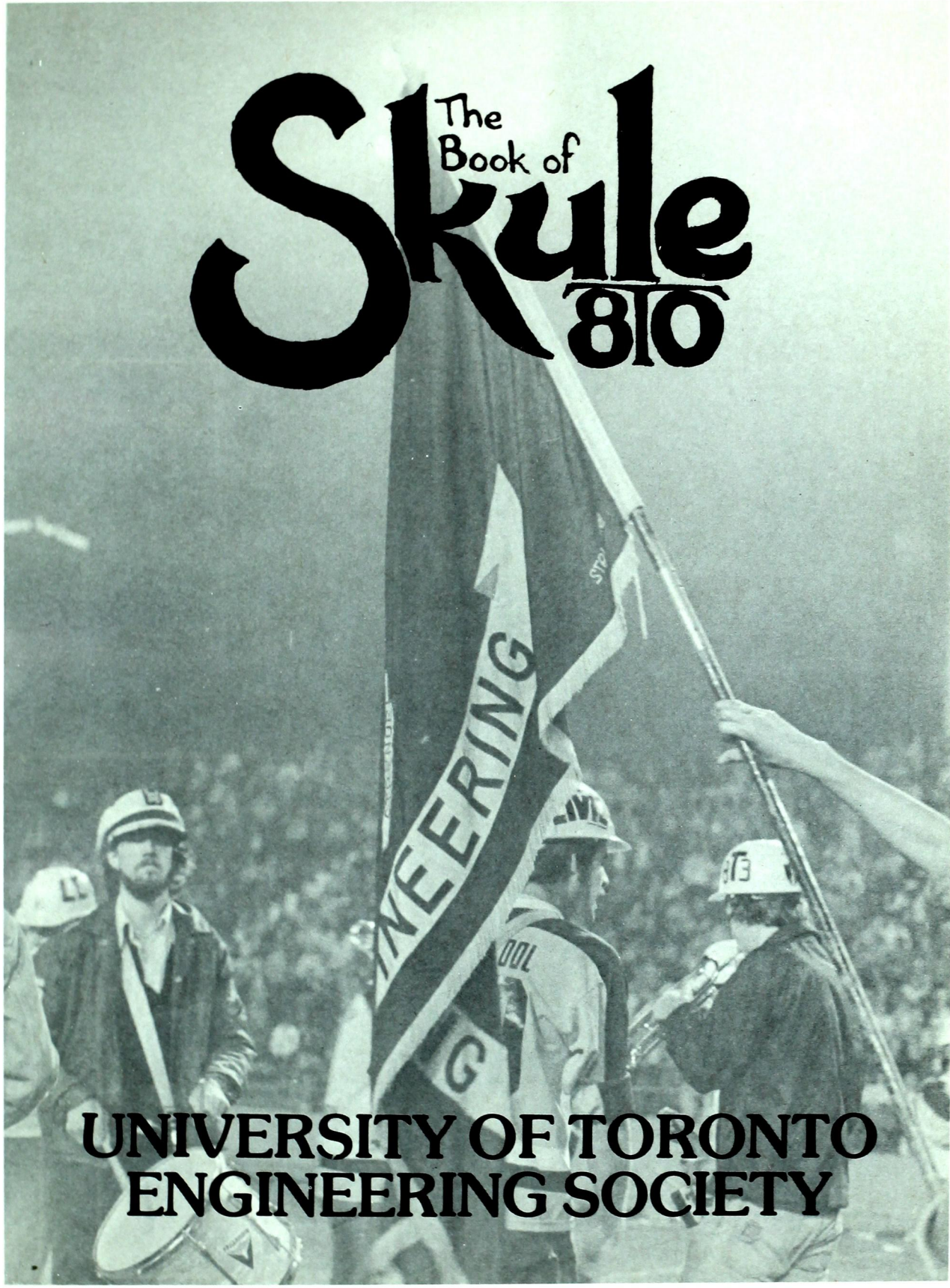


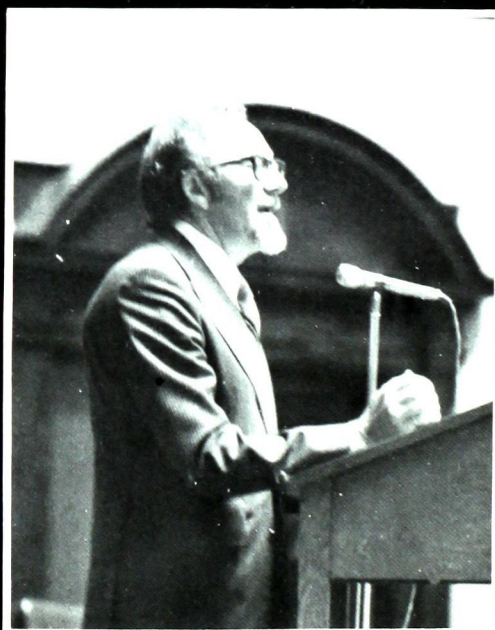
The
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810
U of T Engineering

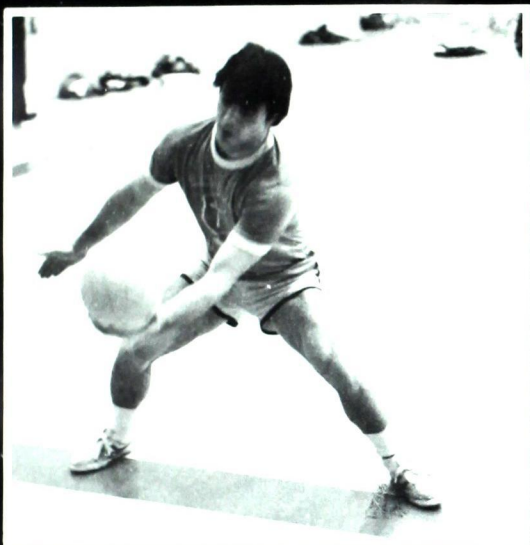


The Book of Skule 810

**UNIVERSITY OF TORONTO
ENGINEERING SOCIETY**

The Book of Skule





CONTENTS

Events.	5
Skule Sports.	27
Groups.	43
Class of 8T0.	75
Messages.	94

Skule 8T0 was published by National School Services for the Engineering Society of the University of Toronto. Type was set in Souvenir through the facilities of *the newspaper*. The Book of Skule logo was designed by Steve Roberts. All original material copyright April 1980, University of Toronto Engineering Society. This book contains not one penguin nor moose.

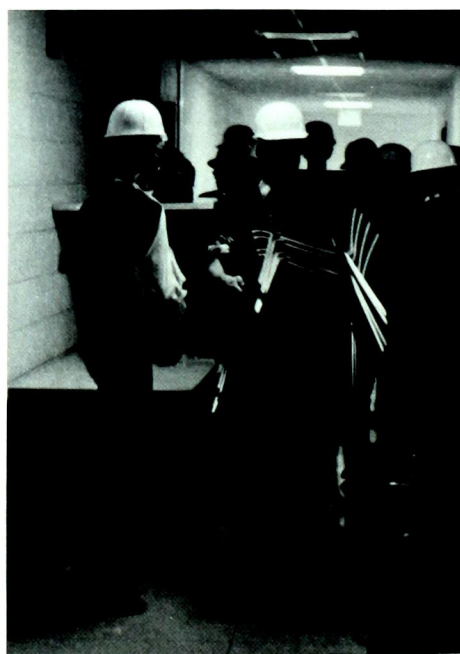
Skule 8T0 is another in the line of Skule productions.

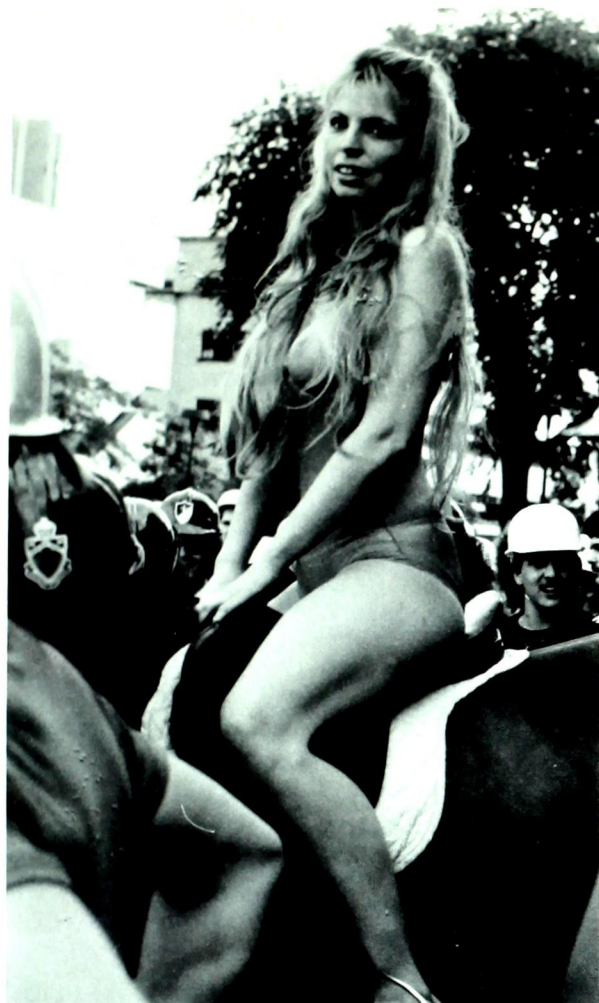
"We are all at school to learn. It is important, therefore, that we don't allow our studies to stand in the way of our education."



ORIENTATION

On Orientation Day, this year's F'rosh participated in all the rituals. Some got an early taste of BFC capers by removing the chairs from Med. Sci. cafeteria. Quite unlike normal F'rosh, they almost did it right. In the afternoon, Godiva and the Bnad led the way to SAC, and a SAC attack ended in a F'rosh coat of Blue and Gold for the dome. The timid F'rosh had to be taught how to play in Queen's Park traffic,



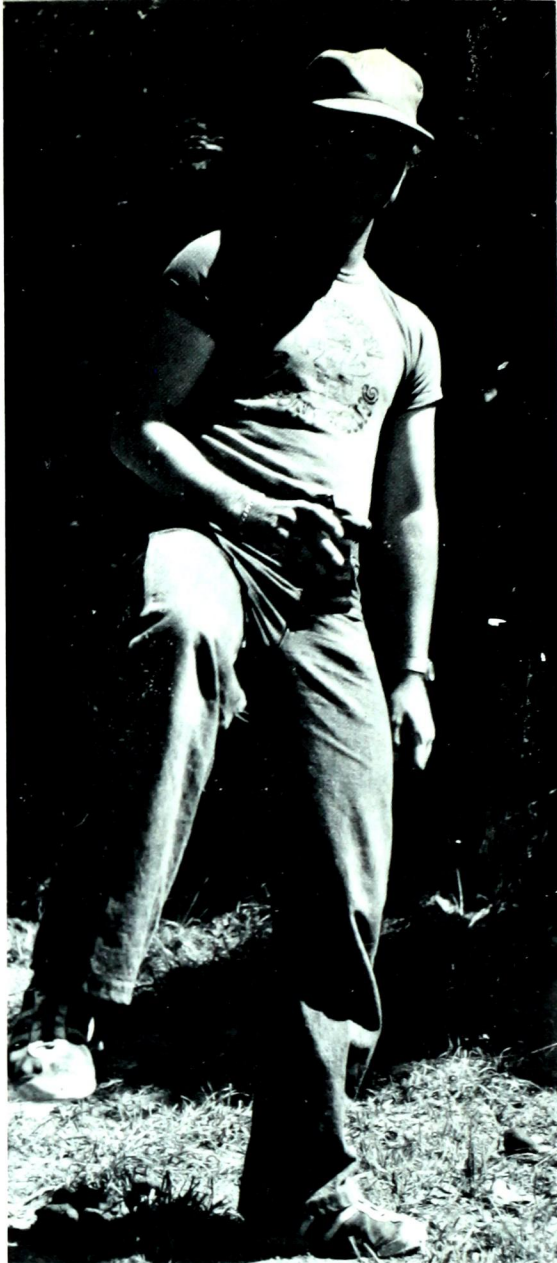


and the Pro. Nuclear Anti-Protest was a bit of a bust when Uncle Bill wasn't home. The day ended with free beer and Nurses at the Frosh Pub. The next night was for Nurs wetting, and at the end of the week the Frosh modelled newly decorated hard hats at the Engineering Roamaround Pub. This year's scavenger hunt was won by the Bnad, the Frosh again proving their latent inability to bribe. What are these people taught in High School anyway?



HART HOUSE FARM

Perhaps still feeling courageous after the previous Friday's Roamaround, the Frosh had the audacity to try to throw the Bnad members in the pond. Once shown the error of their ways, they settled down and satisfied themselves by throwing Toike Editor Bob Moulton in instead.





SHINERAMA

The Bnad had a great time on Yonge Street, picking up an Eaton Centre mouse, and the CF Foundation raised lots of bucks in this year's Shinerama.



The special Shinerama verse to Godiva tells the story:

Every year *en masse* the Engineers take to the street,
To show that Skulemen give a damn and aid
CF's defeat
With customary gusto and teamed with a
Nurs, of course
They raise the bucks by shining shoes with
spirited BRUTE FORCE.

The Eng. Soc. Car Rally Trophy

CAR RALLY



The winners, Simon Monk
and Carolyn Sidey



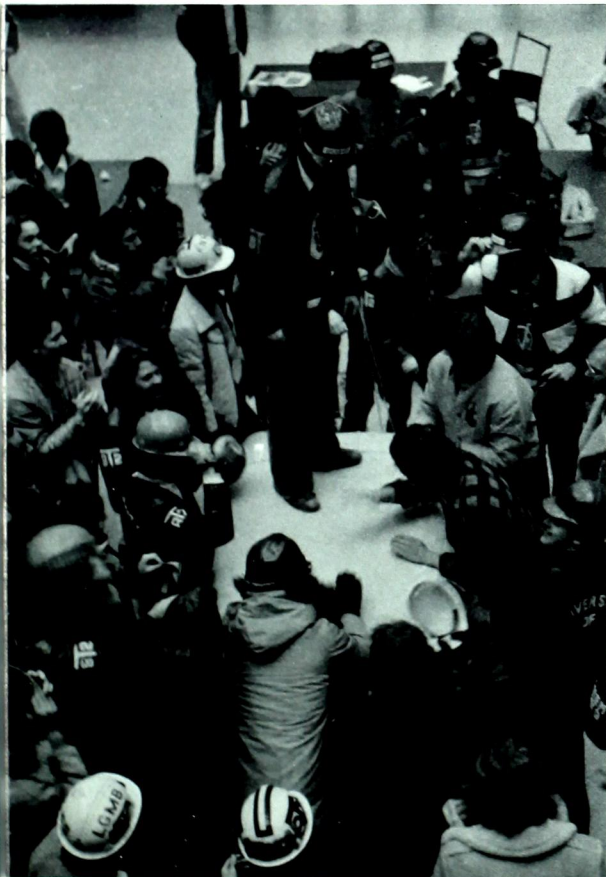
Their winning ways

E.S.A.F.A.T. RALLY

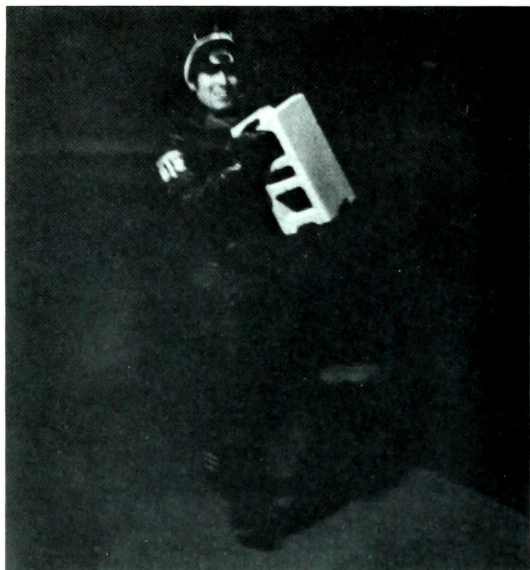
Engineering Students Against Feminists Against Toike

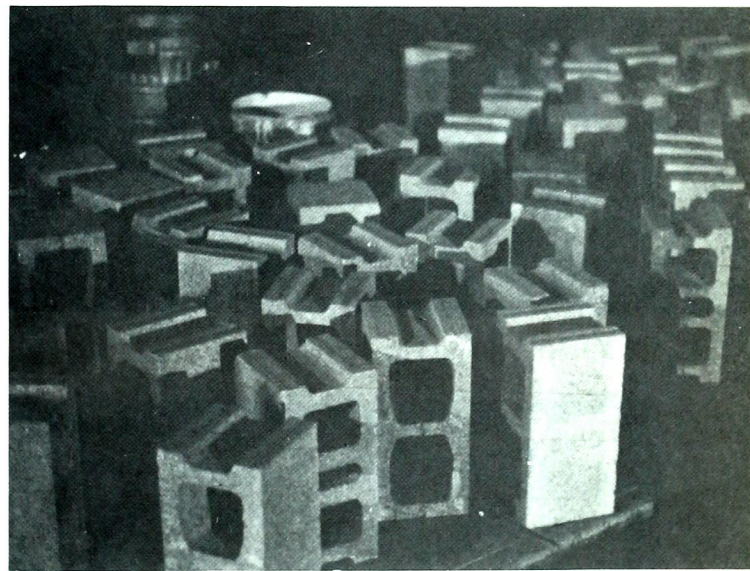


This fall, engineering students and Toike Oike staff members concerned with protests from feminists across campus about the content of the Toike formed ESAFAT, Engineering Students Against Feminists Against the Toike. The purpose of the organisation was to defend the Toike and present the view that the publication is neither sexist nor racist, and is intended only as good-natured fun. To further this view, an ESAFAT Rally was held at Sid Smith. Toike Editor Bob Moulton addressed the crowd and defended his paper. There were no confrontations, although a poor pamphlet did get burned, and it was reported that a good time was held by all.

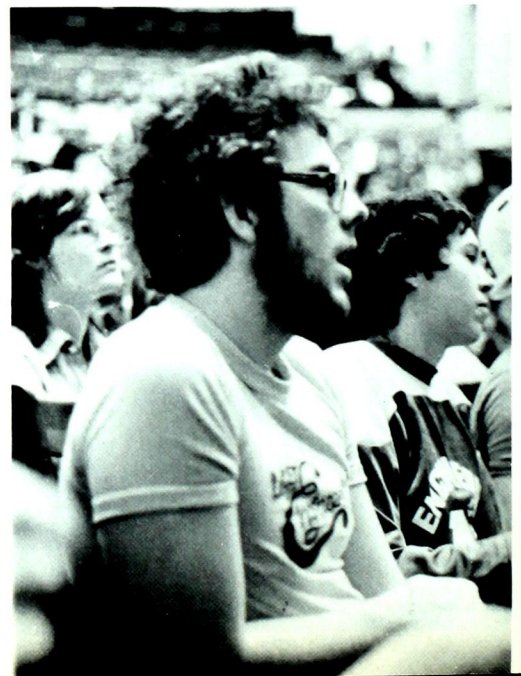
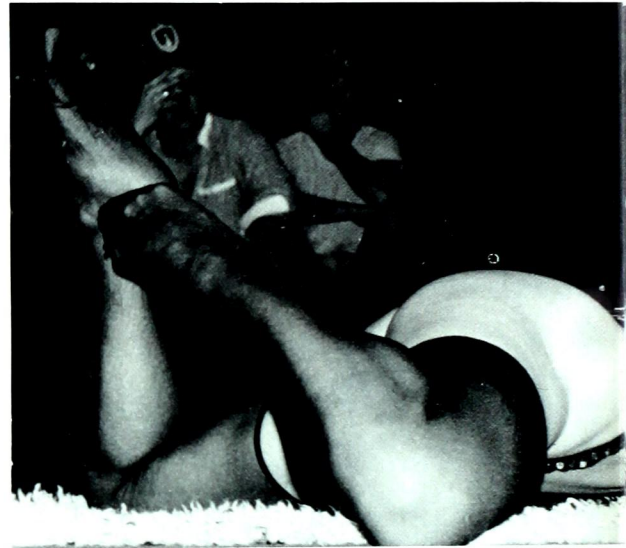
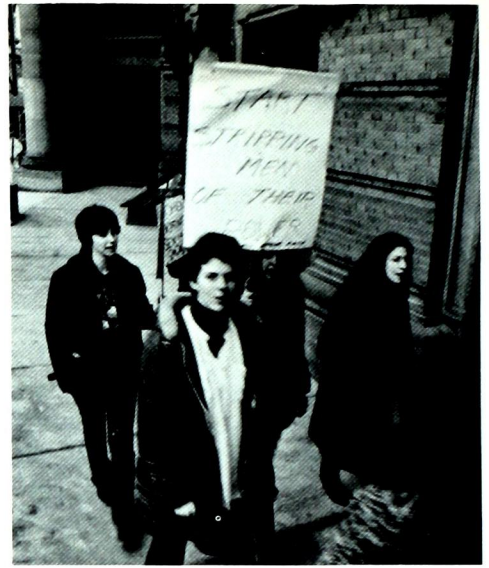


BRUTE FORCE COMMITTEE






SLAVE AUCTIONS

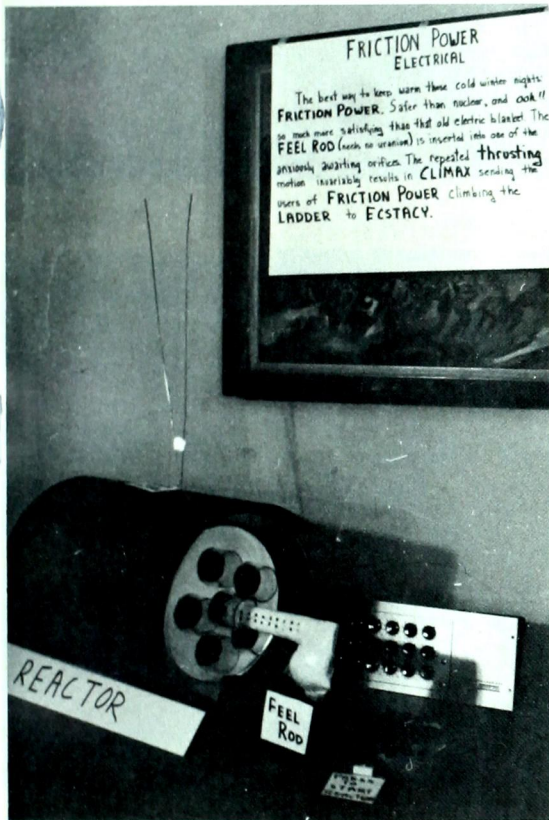






CANNONBALL

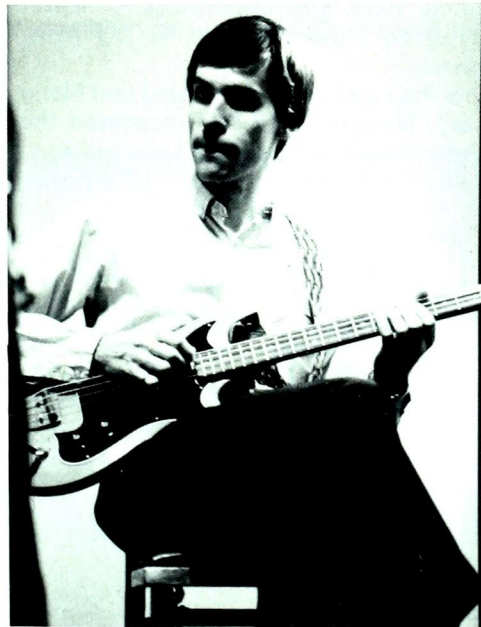




This year's Cannonball was quite an enjoyable evening. In the Great Hall, the Nova Sounds provided the dance music while upstairs in the Music Room guests were treated to the talents of a band featuring our very own Ella and past-Engineering Society President Rob Yates.

Linda Karuks, Civil 8T3, was chosen Miss Cannonball, in close competition. This year's Inter-Course Competition theme was Alternate Energy Sources, and Electrical won with their Friction Power entry.

The Bnad made its requisite appearance, as did the Cannon. This time, with a touch of tradition, the Cannon-guard included at least some women.



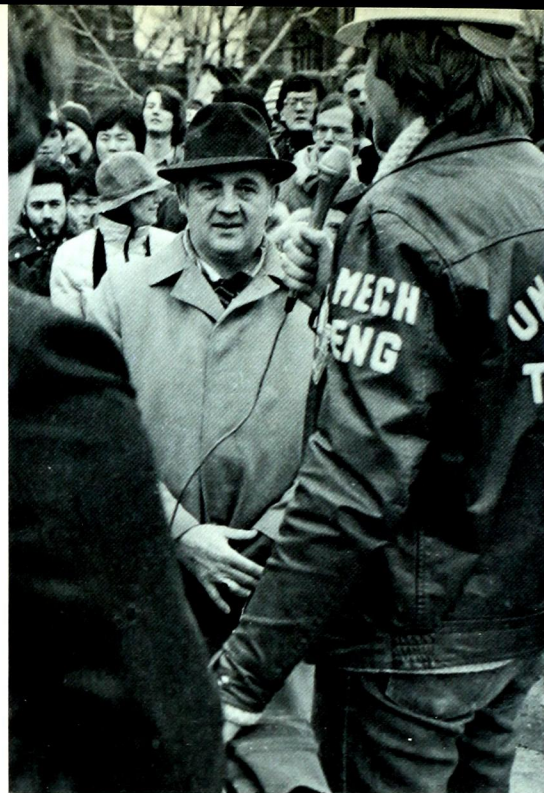
THE CHARIOT RACE

Mario's Triumphant Return



Only four chariots competed this year because of clement weather conditions. The lack of snow made the ground uninvitingly hard and only those of lesser intelligence completed - namely Eng. Sci., Frosh, Mech., and Electrical.

Only days before the race, it was discovered that Mario (of Mario's Bakery, Newark N.J.) had recovered the famed Jerry P. Potts Memorial Trophy and was willing to return it to Skule if three demands could be met.





Fortunately, Eng. Soc. was able to donate \$1000 to a children's charity, amend the Race rules to prevent another trophy theft, and add a commemorative verse to Godiva before race time and the trophy was returned. As a special gift, Mario also donated a new flag to the Society.

After a false start, the real race got underway. Mech. was first over the line, capturing their fifth win in six years. Flosh managed to become innocuous enough to finish the race and place second.

Two women bystanders were injured in the racer's enthusiasm, including Linda Karuks who had been crowned Miss Cannonball only six days earlier.



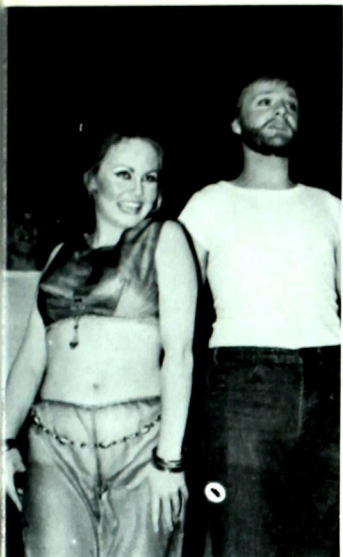


You heard the hype.
 You saw the posters.
 You bought your tickets.
 And finally... you saw the show.
 Skule Nite 8T0.
 The Future.



This year, Skule Nite rolled into Hart House Theatre after seven gruelling weeks of rehearsal. With an initial cast of thousands, which dwindled rapidly to twenty-eight, and a sheaf of dynamite scripts, rehearsals for the show began. Obstacles were surmounted and the show opened February 27.





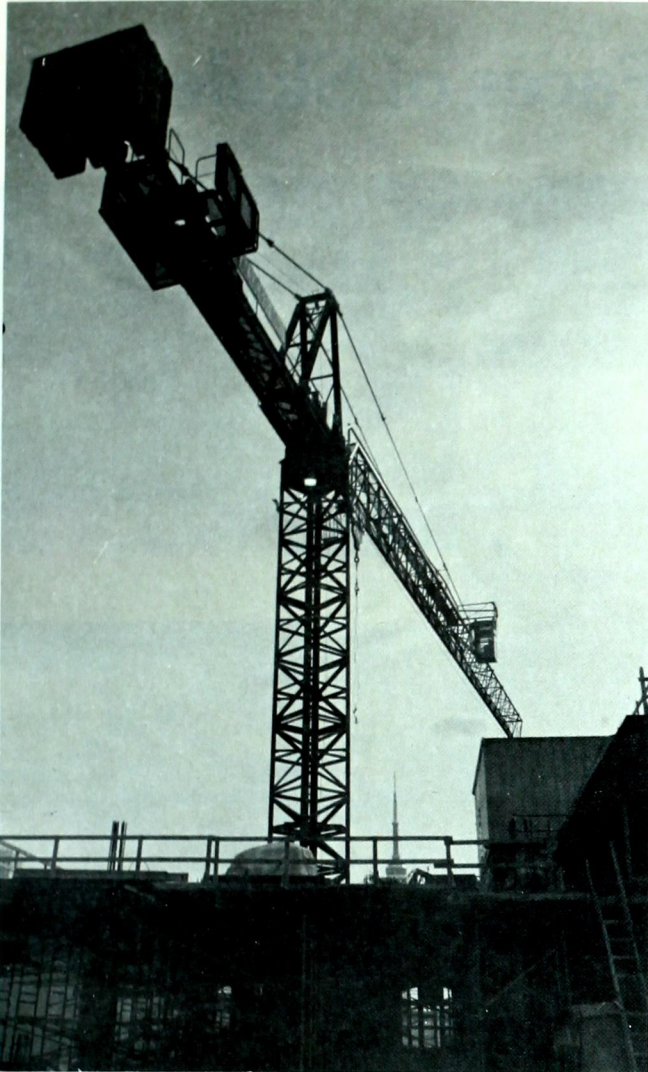
Onstage photos by Mike Garamszeghy



Audiences were treated to a myriad of bizarre scenes and characters: martians, Fred Mertz the fairy godmother, a disco, test-tube babies, the Nutcracker Sweat, Middle-East Side Story, lovable genetic mutants, and a whole slew of assorted Hollywood characters. Sold-out houses were reliably enthusiastic every night (once rambunctiously so) and when it ultimately ended, Skule Nite 8T0 had become the success that everyone thought it would be. After all, why should this year be any different?

The legend continues.





THE WRECK OF THE SIR SANFORD FLEMING

The legend lives on from King's College on down,
Of the briquette they call Sandford Fleming.
The place, it is said, became one of the dead,
When Room 126 was a 'flaming.
With computers in store, several thousand times more
Students' names and their marks could be kept there.
The maintenance crew was a bone to be chewed,
For not once had a janitor swept there.

The place was a sty, and the home of Eng Sci,
Which somehow avoided the fire checks.
As old buildings go, it was older than most,
It was older than even the Annex.
In spite of cold spells, it was hotter than Hell,
Though the temperature soon would get higher.
And later that night, when the fire bells rang out,
Could it be that the place was on fire?

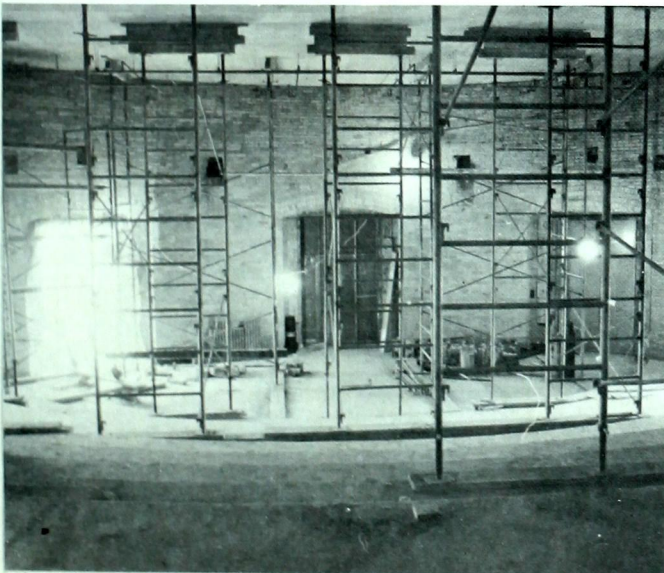
The smoke and the flames made a tattletale sign,
As the cruel wind gave fuel to the tinder.
And everyone knew that an Update was due,
And Sir Sandord would soon be a cinder.
But the warnings came late, and this sealed the fate
Of the biggest of all Eng Sci smokers.
The firemen they came and they prayed for some rain,
They thought it the work of some jokers...

When two o'clock came, many men were on hand,
In an effort to save all the tape reels.
By 3:30 A.M. the whole roof had caved in,
And eight men were hurt in the ordeal.
Then Galbraith wired in, she had water coming in
And the basement was practically swimming.
And later that day, all anybody would say,
'See the wreck of the Sir Sandford Fleming?'

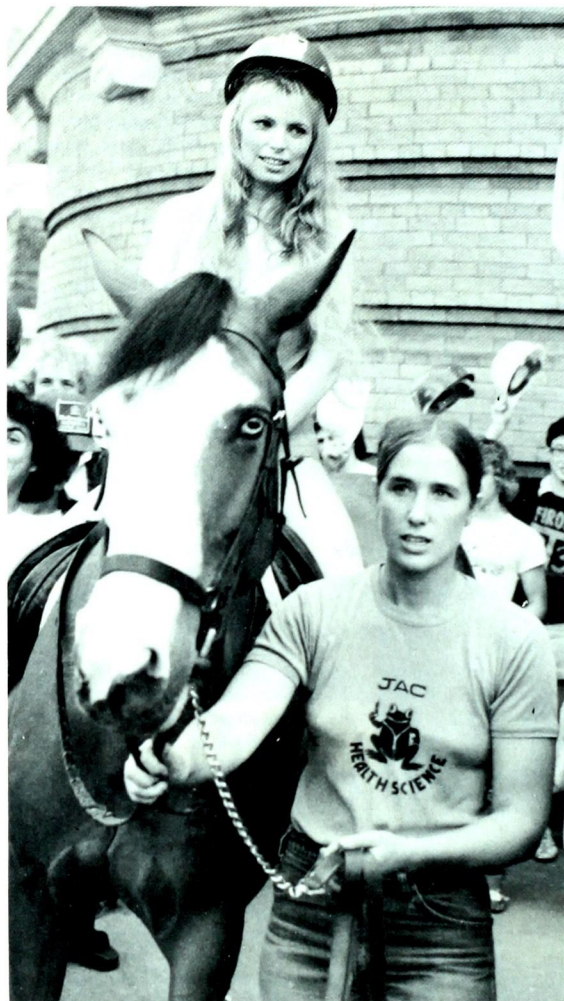
Does anyone know where the love of God goes,
When the flames turn the theses to powder?
The fireman say it would still have decayed
In five years if the flames hadn't got her.
Well, it might have decayed if it hadn't burned down,
But it surely did take on some water.
And all that remained was the sign with the name,
And even that was starting to totter.

The damages rise, while Sir Sandford dies,
And the EUT goes underwater.
Oh, estimates soar, ten million and more,
The 370 just missed being solder.
But classes did go, as the engineers know,
As if the blaze never had started.
And the people did stare at the shell standing there,
Remains of an era departed.

In old Simcoe Hall, in the Council they said,
'We'll just start to rebuild us another.
If something remains, and it can be reclaimed,
It will carry the name of its father.'
The legend lives on from King's College on down,
Of the briquette they called Sandford Fleming,
The place, it was said, became one of the dead
When Room 126 was a 'flaming.



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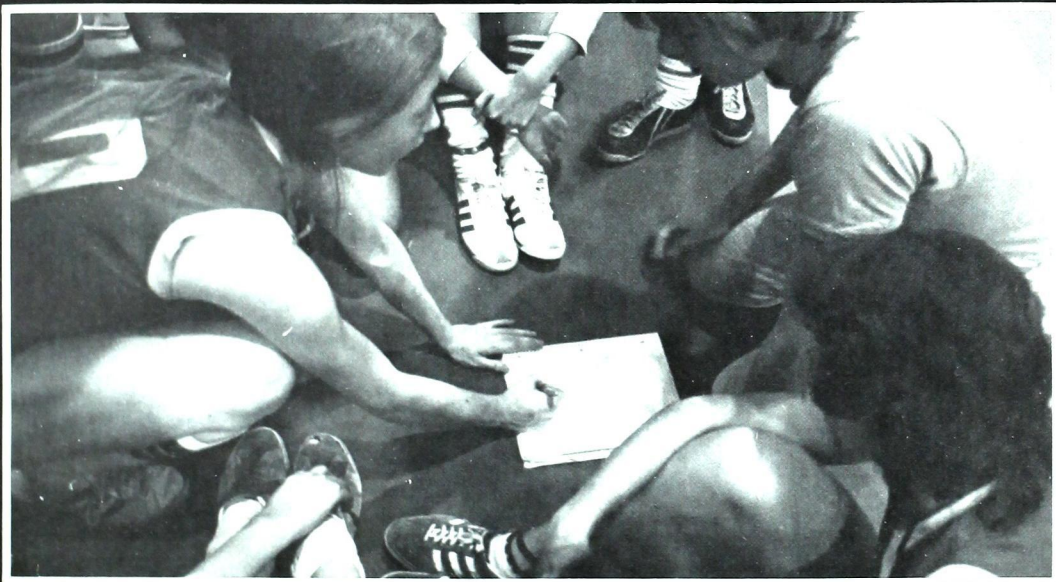
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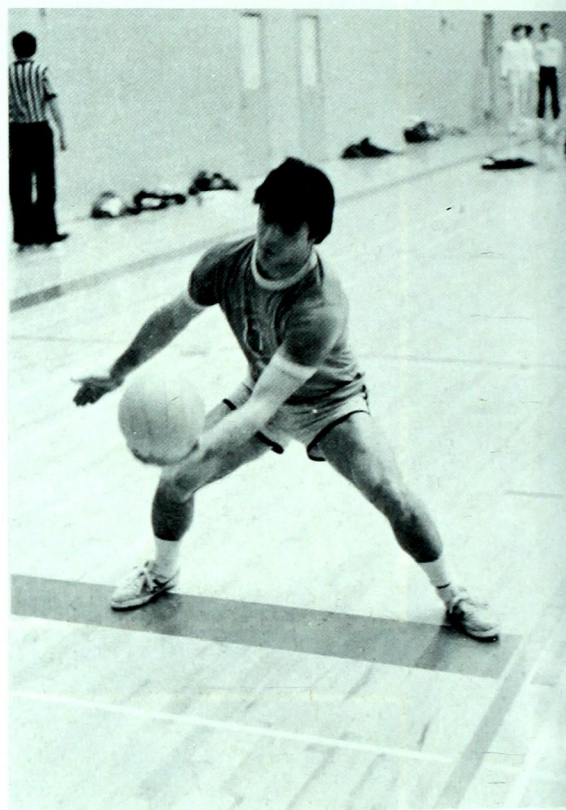
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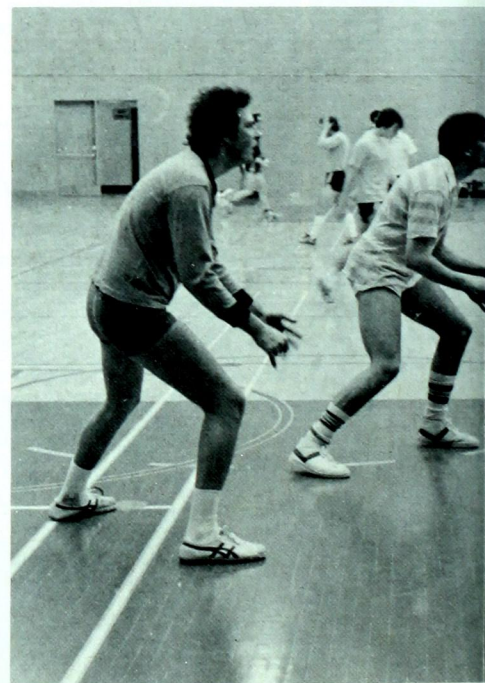


SPORTS

VOLLEYBALL



Participation in volleyball this year was excellent and we had four teams in interfaculty competition — one in each division. At this writing, the season is not yet over but it appears that every team will make play-offs.



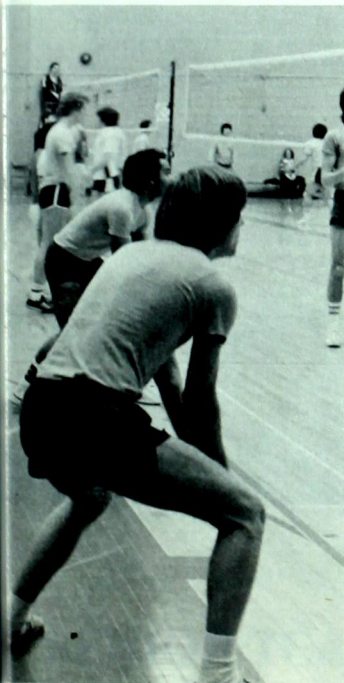


If Eng. A makes the play-off round, they will go all the way to the Division I crown. The games they've lost so far, they were playing short-handed. Even then they gave the competition a run for their money.

Eng. B finished the regular season with a perfect record. Nobody is going to stop them from taking the Division II title.

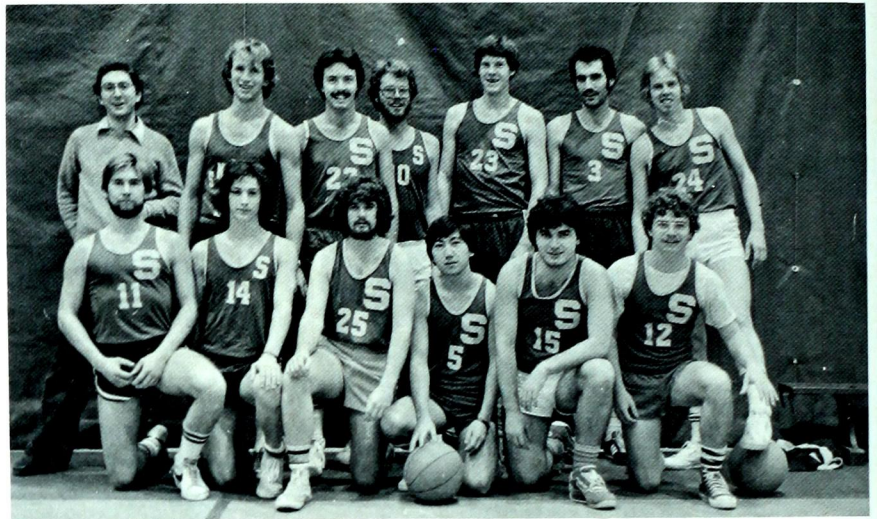
Eng. C, with one game to play in the regular season, has a guaranteed play-off position and are championship favourites in their division.

The fourth team, Eng. D, had a near-perfect regular season record, and are sure to see play-off action. If their coach shows up, if they get a good ref., and if their opponents don't play very well they will win the Division IV title — a sweep for Skule.

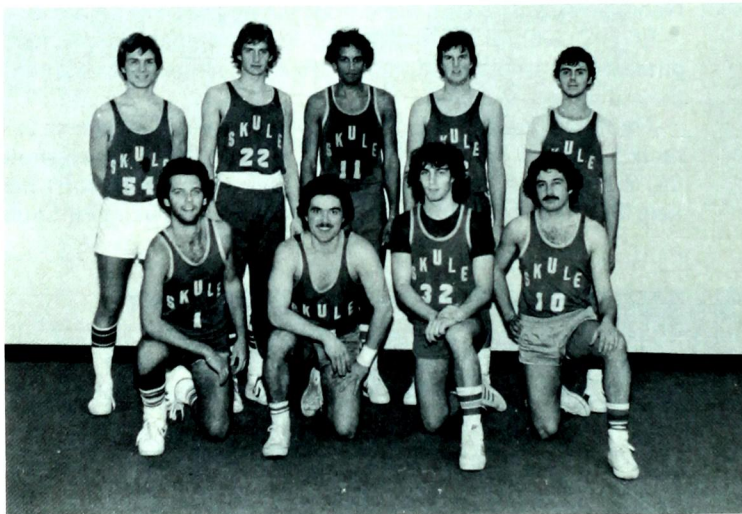


MEN'S BASKETBALL

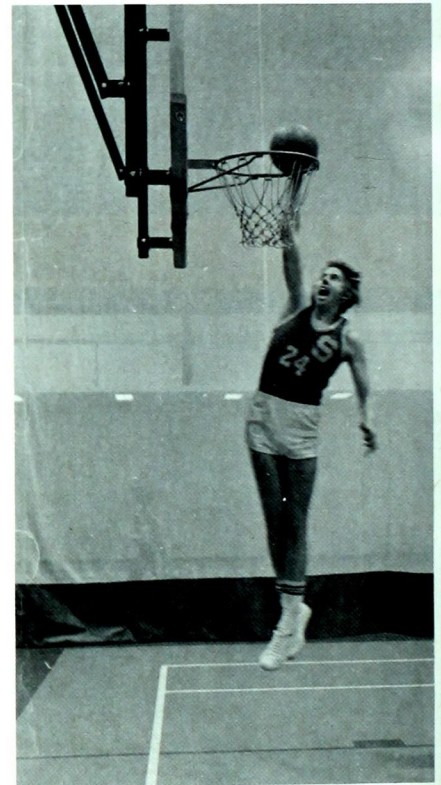
JUNIOR TEAM



SENIOR TEAM



This year's senior team is once again dominating the interfaculty basketball league. The team has been in first place since Game One and is destined for playoff action. It has been invited to represent UoFT at an interfaculty tournament in Waterloo, and one a York. Certainly, with its inspired play and teamwork, the team will make a strong bid for the interfac. basketball championship.

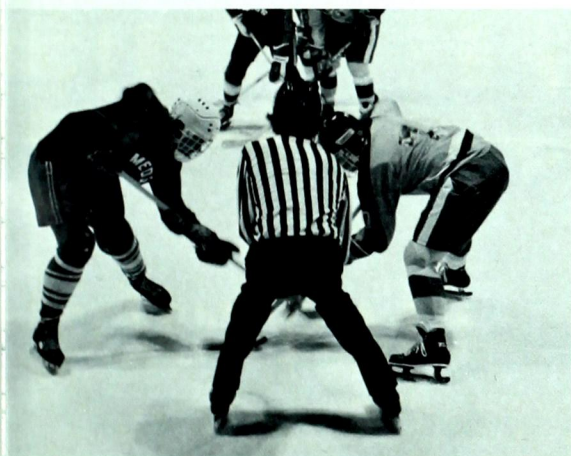




HOCKEY



JUNIOR TEAM



The Junior Skule hockey team had another big year, with almost all of last year's squad returning. Two strong veteran forward lines led the team. Centre Clint Young, flanked by Rob Wilkes and Ken Baker, and Marc Hamel aided by Bob Gomm and Sean Griffin. To add scoring punch, a new line was added including rookies Frank Giannone and Jim Kenkel and veteran Steve Ainsley. A formidable defence was provided by Scott McMillan, John Cocchio, Paul Cahill and Glen MacDonald. Import goaltender Mark Hitchcox backed up the team. Kirk Nesbitt was behind the bench again this year, melding a strong unit.



SENIOR TEAM

Once again, Skule managed to form a collection of unruly characters and call them a hockey team. On defense were seasoned veterans Bob MacKenzie and our "Little Guy" Ozzie Luters. This pair coupled with Ken "Break-a-Leg" Brown, and John "The Invisible Man" Farmer to form Skule's solid defence. Behind the defense was four year veteran Kirk (formerly "The Sieve") Nesbitt who managed to pull his act together for a very strong season. The team's strongest asset was the forwards: Kevin Stevenson, Jim Alton, and Al Shetler. Our "Froggie" John Halpin returned and even helped our cause at times. We got help from high talent rookies Mike Crennan, and Angie Dominski. Great inspiration was received from the play of John Milloy and all-star Randy Lesco. Last, but certainly not least, our four year vet. Roy Gibson, whose superb play could only be stopped by the referee. Assembling this riff-raff into a team was coach and spiritual leader Scott Gibson.

With the opening of the new Athletic Centre making more courts available, Skule squash teams again showed the other faculties the true meaning of Skule Spirit.

Heading into the final week of play, Engineering was virtually assured of a play-off position in each division, and stood a good chance of capturing a crown.

Skule has wasted no time in initiating those new courts, with cries of "How could I miss that?" filling the air. A solid core of returnees promises a good future.

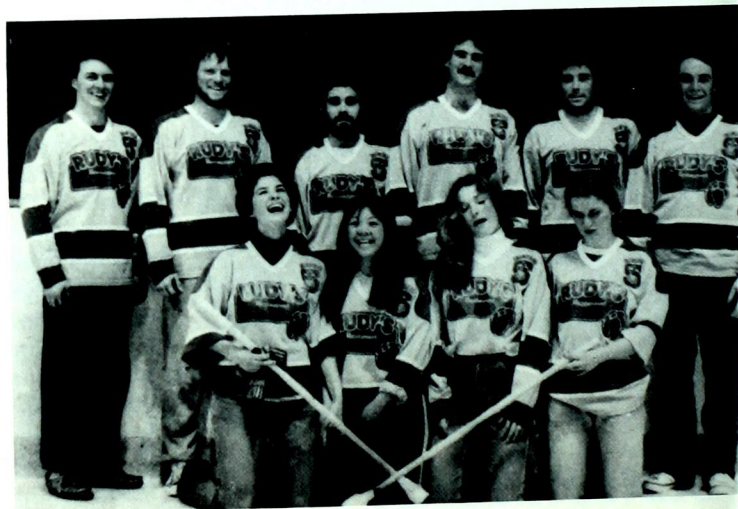


SOCCER

Participation in this year's soccer team was definitely the best in years. Compared to eleven players last year, there were fifty this year, and two teams were entered. The record would indicate the teams were blown off the field, but the scores were close and many games could have gone either way. Next year should be more successful, when the team has a chance to build on this year's nucleus.

BROOMBALL

Engineering revived its Broomball team for the first time in four years with a six-and-one season. The teams powerhouse punch came from its four female felines; Karen Shigeishi, Carolyne Simons, Bar-Bar Reuber and Anna Puskas, who would stop at nothing short of a black eye to take someone out of the play. Playing the back-up role were Fern Melo, Bob MacKenzie, Jim Alton, and Scott Gibson. The true superstars were Kirk Nesbitt and Roy Gibson.



LACROSSE HOCKEY SOCCER FOOTBALL



...ted award...
...football championship...
...athletes...
...19... gained...
...unbeaten and...
...eleven...

...the regular season...
...total score...
...105-... continued into...
...Forestry...
...Blades...
...defence...
...dissected...
...from behind...
...Finally, in...
...the best of three...
...Blades...
...five...
...20-12 and 18...

FOOTBALL

This year represented a rebuilding year for Engineering Football, but a competitive team was fielded. Our record, 1 win and 5 losses, does not indicate the close nature of all games. The team scored 48 points while yielding only 51 over the season. Defensively, the squad matured as the season progressed, allowing only 20 points in the last 4 games. This hard-hitting unit was led by John 'Maddog' Sisson, John 'Death' Skrypak and Steve Reford. Although our offensive punch did not match the defensive progress made, ball handlers Lou Phillipe, Kevin Olds, Ed Jetten and Jim Renahan were always threats. Generally the season was successful, with no injuries, and the calibre of play showed the team equality in Division I Interfac Football. Many thanks to Cammen and R.C., our ever-patient coaches. With a large rookie contingent, the team is hopeful in 1980-81.

RUGBY

Skule finished the rugger season with an impressive five-and-one record. In the semi-finals, we dazzled Law with new sweaters and outstanding play. Unfortunately, the finals proved to be a Heatbreak Hotel as we lost to Trinity with only two points.

TRACK AND FIELD

Interfac. Champions



Engineering Track & Field

Due to the effort of the 40 member track team, it was possible to sweep top honours in this year's Interfaculty track meet. Despite the adverse weather conditions, Skule was able to amass a total of 191 pts. to more than triple the impotent 57 pt. finish of the 2nd place Jocks. The massive strength in the javelin and relay events carried the bulk of the load necessary to overrun any outside competition.

Special thanks to Tim Piper and Mark Janischewskyj for their wins in the 5000 m. and 200 m. respectively. Also, thanks to Civil 8T1 are in order, as they contributed the largest class turnout.

LACROSSE



Interfac. Champions

This was a banner year for the engineering lacrosse team. They avenged last years' loss in the finals by sweeping this year's best-of-three finals in two games. The two wins, by scores of 12-5 and 12-8, gave our squad the Division II crown for the first time in memory.

This year's team had the right blend of youth and experience. Veterans Dale McNeil and Steve Cooper led the attack while Dan Shanahan, Mark Gray, and Peter Nicol anchored the defence. Whenever the steady Dave Neale was not in goal the versatile Stan Kolenko was ready to take his place.

The year saw the development of depth on the engineering team. Joey Halpert blossomed into a genuine sniper while newcomers Tim Pratt, Julian Hunter, and Brett Calder added some needed scoring punch. Things look good for next year as only McNeil, Nicol, and Kolenko will be graduating. Congratulations on a job well done.



INNER-TUBE WATERPOLO



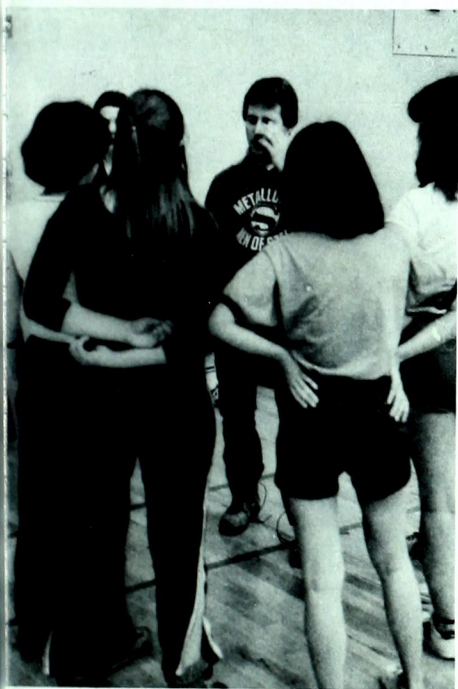
Skule is relatively new to the sport of innertube water-polo. This game requires strength, co-ordination and bouyancy and enough talent was assembled to finish with a 0.500 record. While this was very good, it was not good enough to make playoff competition. Next year, however, with a core of talented veterans, Skule looks to be a real league superpower.



WOMEN'S VOLLEYBALL



A record number of women came out for volleyball this year—so many, in fact, that two teams had to be formed. Both teams are playing in the Recreational division where Engineering is defending champion (for the last three years). At this writing the season isn't over yet, but we're sure this year won't be an exception. Many thanks to the coaches, who probably outnumber the players.



WOMEN'S INTERFAC. B CHAMPIONS BASKETBALL



Karen Ramsauer, June Li, Bob Montgomery, Jeanne Young

Audrey Mascarenhas, Anita Bertol, Pat Lepper, Elaine Morans

Diane Kapica, Kathy Dumanski, Dale Kerr, Kino

The women's basketball team successfully defended the championship, with an undefeated season. The team started slowly, but worked hard with the help of coach Bob Montgomery and reached the point where they could completely control the championship game, proving once again that Skule Rules All. Congratulations girls!



WOMEN'S TOUCH FOOTBALL



Front Row, l to r: Audrey Mascarenhas, Gia Antonacci, Dale Kerr, Sharon Jacobs, Aki Shimitsu, Laurie Hilbig, April Kono, Diane McCurdy

Back Row: Kevin Burns, Pat Lepper, Linda Karuks, Anita Bertol, Jodi Diamant, Elizabeth Zurowski, Anne Paravano, Craig Beattie, Noreen Calderbank, Angela Valvasori, Karen Shigeishi, Wendy Kinoshita, Carmen Lombardi



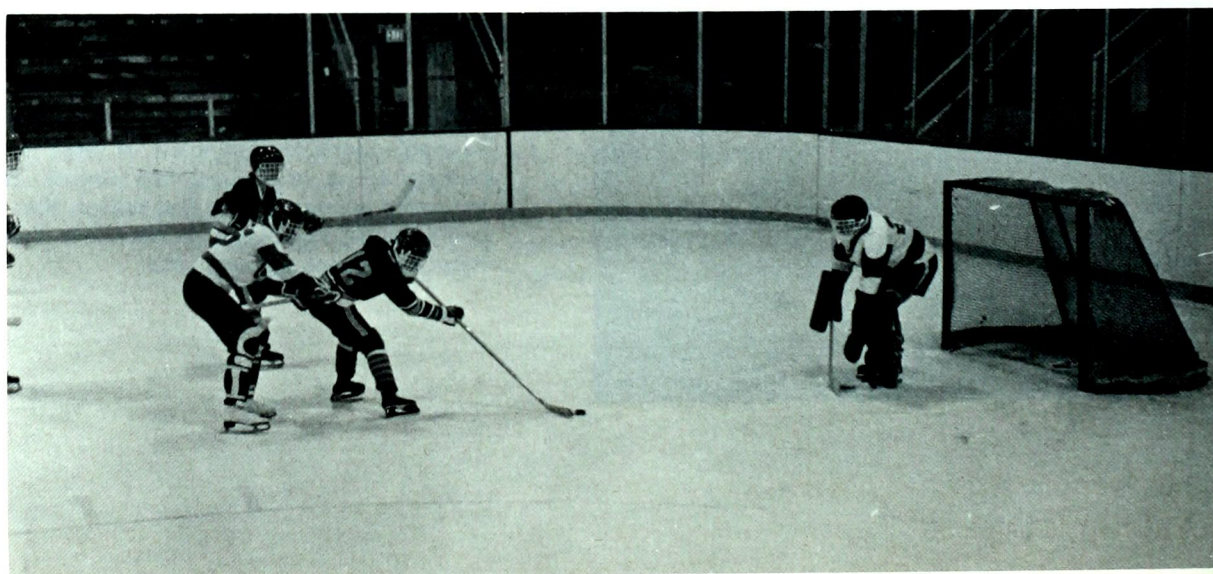
This was the first year that Engineering has had a women's touch football team. A large number of girls signed up, and all enjoyed playing. The team improved so much over the season that the last game actually ended in a tie! Next year, they'll have more experience so, watch out.



WOMEN'S HOCKEY

This year's Skule hockey team managed a first place finish! (If you turn the standings upside-down) The team had a little trouble finding its skating legs until late in the season. Perhaps they will fare better this spring when they travel to Queen's for a tournament of women's engineering teams. It would be nice to finish the season on a winning note, for a change.

The coaches are to be congratulated for the efforts and dedication.



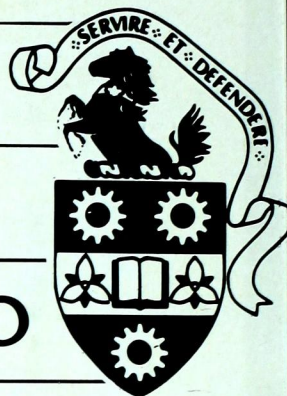


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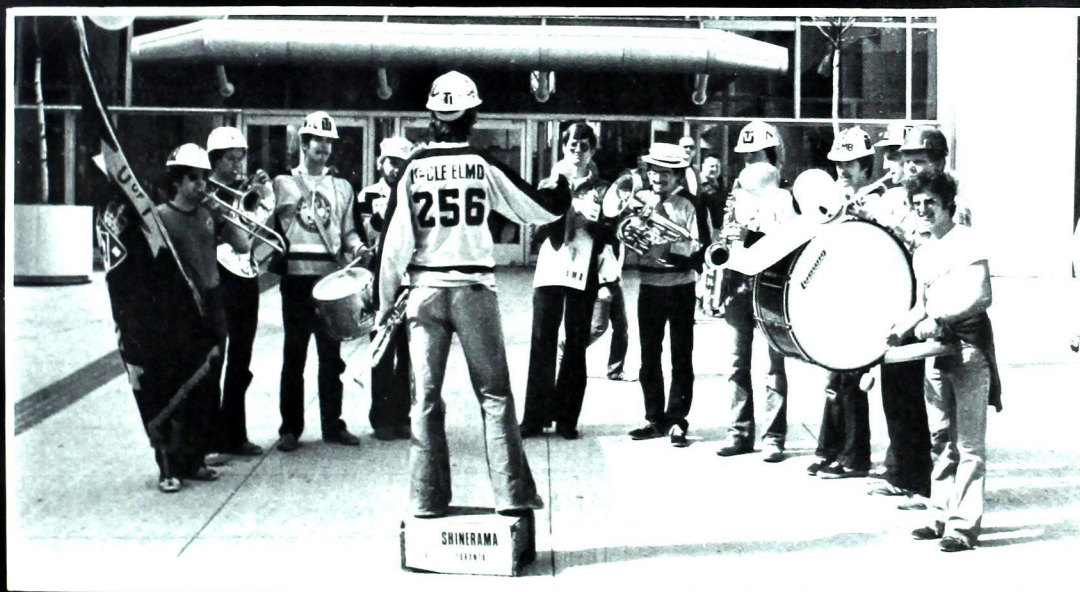


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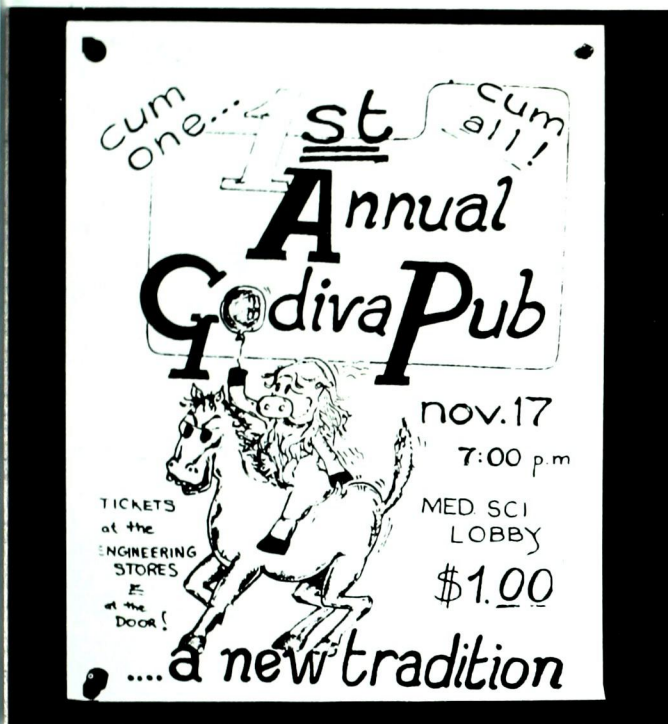
GROUPS

ENGINEERING SOCIETY



EXECUTIVE

President	Gary Jones		
Vice-President Administration Activities	Ken Smith David LeGresley	Blue and Gold	George Klekner-Alt
Treasurer	Siobhan Keogh	Engineering Athletic Association	John Cocchio
Secretary	Brian Baetz	Women's Athletic Director	Dale Kerr
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Professional Development	Stephen Landsberg		
Social and Women's	Elaine Campbell		
Employment	Dave Neale		



As first year president, I am quite pleased with the events of this year. Both the Chariot Race and the First Annual Godiva Pub were great successes.

Everyone who attended the Godiva Pub enjoyed themselves, and a total of about four hundred dollars was made.

Our second place finish in the Chariot Race is unprecedented, and even more remarkable considering the chariot building materials were "found" the night before and assembled on race day.

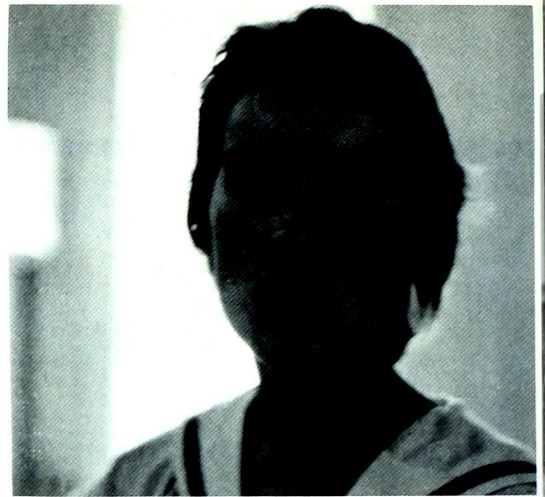
I hope all Frosh... er... uh... First Years enjoyed their year. I would like to thank all those who participated in the various activities, showing that 8T3 has Skule Spirit.

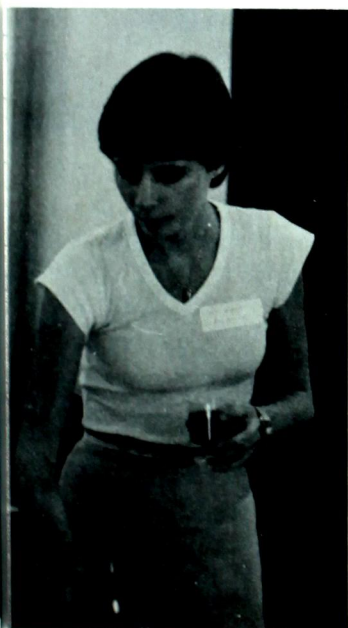
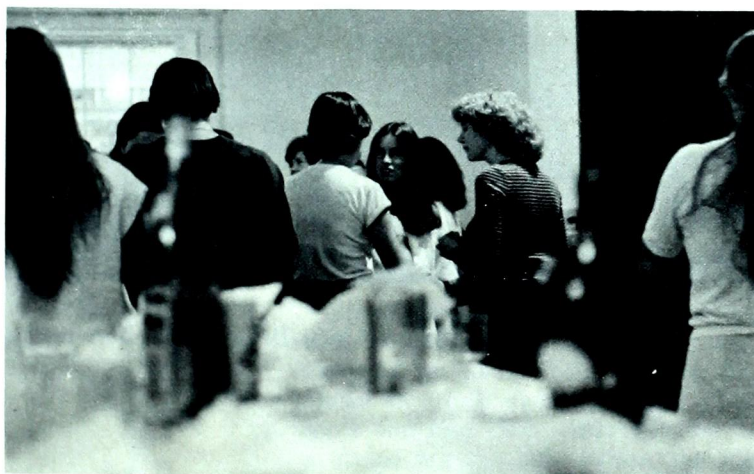
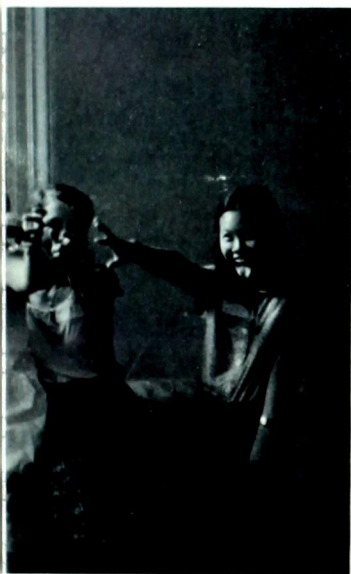
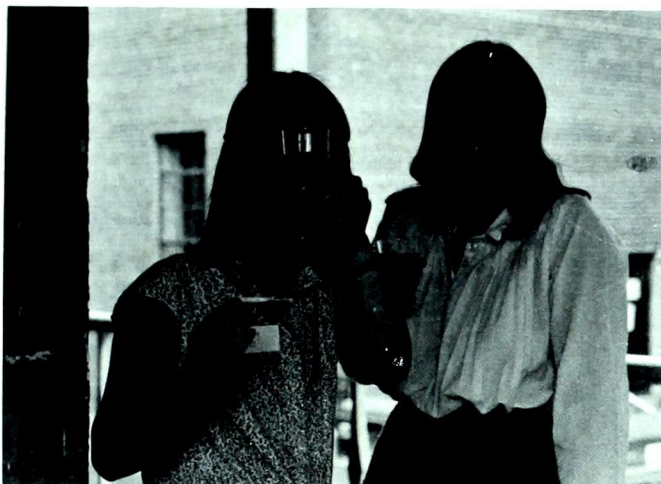
Mike Rzadkowski
First Year President

F!RST YEAR COMMITTEE



WOMEN IN ENGINEERING





PROFESSIONAL DEVELOPMENT COMMITTEE



l to r: Nancy Brown, Stephen Landsberg, Dana Stankus, Brian Baetz.

Early in January, the members of the Professional Development Committee were in Edmonton to attend the 12th Annual Congress of Canadian Engineering Students. The theme of this year's congress was "The Engineer and the Corporate System" and the programme included a number of speakers from industry pointing out the possibilities for the career development of an engineer after university.

Opportunities in consulting, management, research and government were discussed. While in Edmonton, committee members toured a Stelco plant, the city's water treatment facility and took side trips to the Syncrude project in Fort McMurray, and an open-pit coal mine in Wabumum.

Next year's conference will be hosted by Queen's University in Kingston and its topic is "Engineers in a Government Environment."



THE ENGINEERING STORES



The Engineering Stores offers all the necessities of life at Skule, and at bargain basement prices. For example, an earnest Skuleman can buy or rent a Mattel electronic game, purchase Engineering T-shirts and Eng. Soc. stickers at the Stores. Also available are the little extras, the frivolities like Staedtler equipment, laboratory report covers, problem paper, and First Year texts at cost. June, the ever smiling manageress, or one of her capable assistants, is on duty from 8:30 a.m. to 4:15 p.m. every weekday to serve you. If you're not using the Stores, you're paying for it.

Also busy everyday in the Eng. Soc. office is Ella the secretary. Squirreled away in her little office, she's the glue that holds the Eng. Soc. together and keeps it moving.

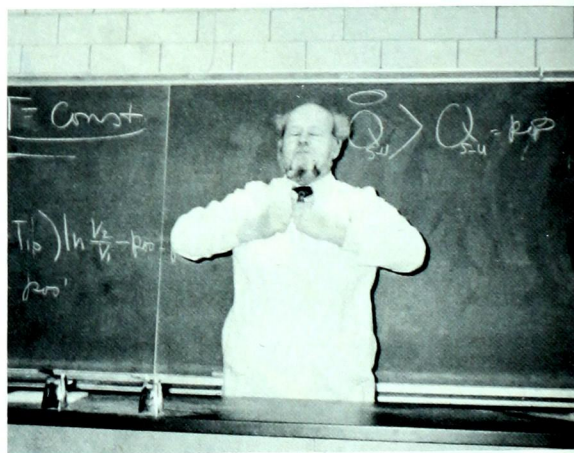
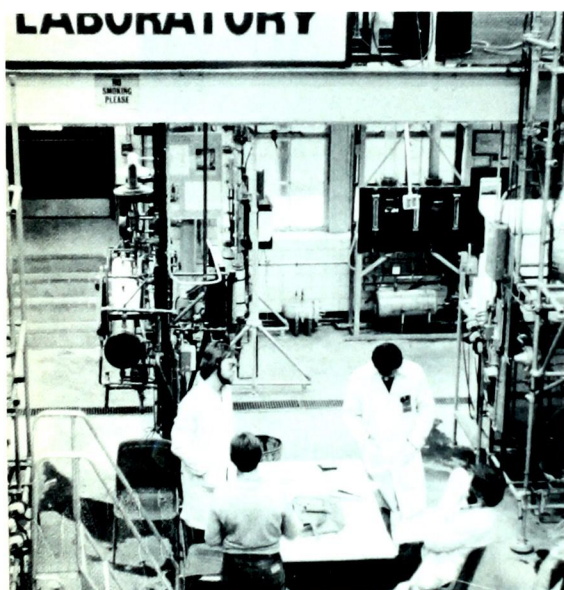
CHEMICAL CLUB

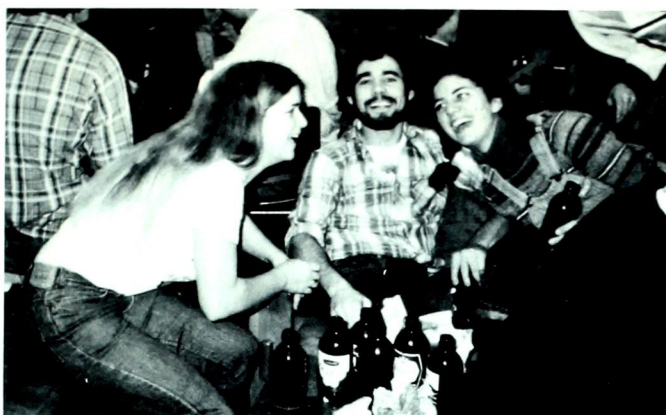
The graduates of 1980 are the first of the second century of Chemical Engineering and Applied Chemistry at the University of Toronto. We know that you will be just as successful as those who have graduated in the past in following careers which will be both challenging and carry much responsibility.

You are particularly fortunate to be graduating at a time of intensive activity in the Canadian chemical industry, which is to a large extent, influenced by development of petro-chemical resources in the West.

Congratulations, Best Wishes - and keep in touch!

M.E. Charles
Professor and Chairman
Department of Chemical Engineering
and Applied Chemistry





Chemical Engineering life begins in the humble surroundings of the lab, and as the young chemical engineer soon learns, it is destined to remain there.

Working eagerly(?) in a smokey, odour-filled organic lab, among mazes of polypropylene tubing, life is occasionally created - but mostly destroyed. Labs dominate the chemical engineering scene and 5:00 p.m. lab report deadlines are easily met (most of the time, anyway).

With the beginning of 3rd year, the labs take on industrial proportions, and real-life applications. Sophisticated apparatus, requiring dedicated and delicate control, are a pleasant transition as the young chemical engineer masters the art of his profession. Witness the eager and efficient crew as they offer a supreme sacrifice for science in order to obtain vital data concerning the batch distillation of C_2H_5OH .

One will better understand the unorthodox lab techniques utilized by the young chemical engineer by observing the teaching styles of the illustrious chemical engineering staff.

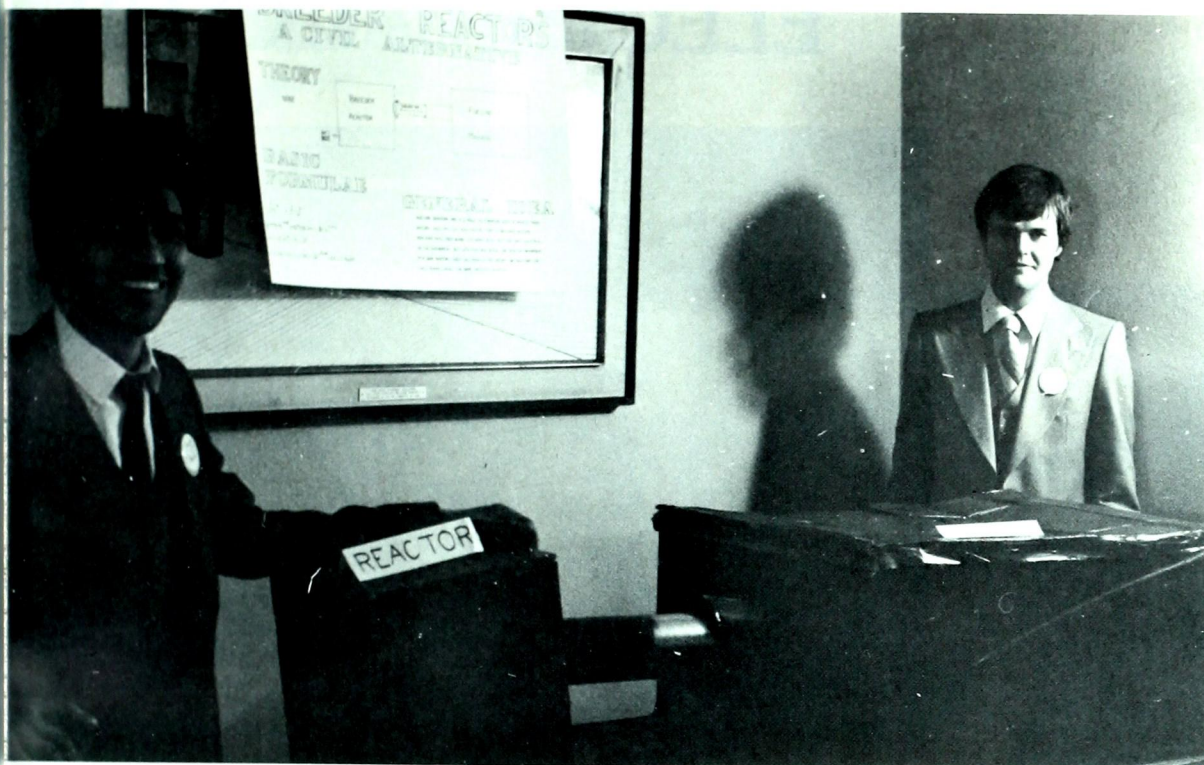
However, life for the chemical engineer is not all work. He makes time for such varied activities as chariot races, smokers, dinners, and dances. Whether on the combat field, in a luxurious common room, or at a posh dinner - dance at the Old Mill, the young chemical engineer is equally at home.

All in all, one trait of the department becomes readily apparent: chemical engineering ages you far too quickly.

Wm. Mandolidis
Chemical Club Chairman

CIVIL CLUB





We tried something different this year. The Civil Club held a first and second year smoker, the main purpose being to check out the female frosh: keep up the good work Gary. Other events included a brewery tour, a Pickering Power Plant tour, a careers nite, a hockey tournament and, the greatest party of them all, the Civil Dinner.

Civil proved once again its' superiority this year by winning the Miss Cannonball Contest. We had a great entry for the Intercourse Competition too but irregularities in the voting procedure prevented us from winning (i.e. they wouldn't let us stuff the ballot box). Grad Ball was a great party as well.

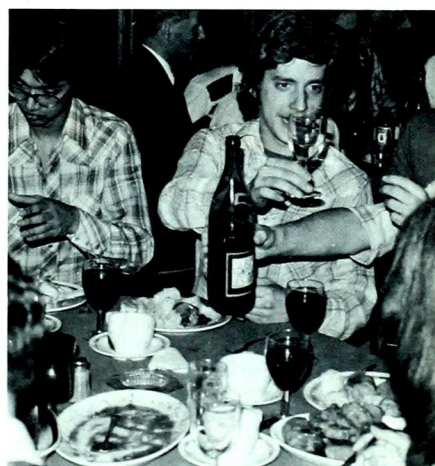
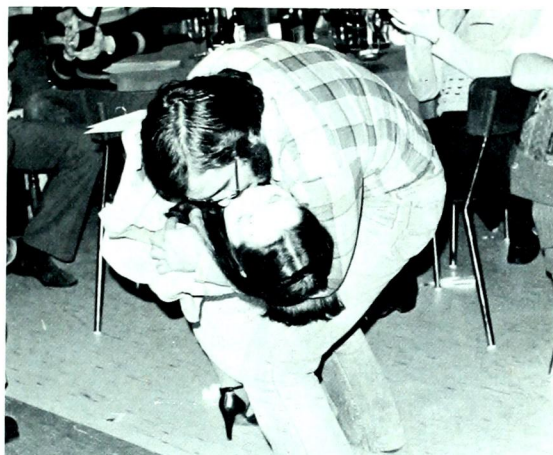
I would like to take this opportunity to thank the rest of the executive, Dexter, Arn, Renzo, Martin, Lucille, Rick and Gabe. I would also like to thank the Faculty and staff for their support throughout the year, especially our chairman, Dr. Heinke.

Best of Luck

Brian Doherty
Chairman

ELECTRICAL CLUB





ENGINEERING SCIENCE CLUB

It is the manifest destiny of you of Engineering Science to lead your less favoured fellow engineers onward and upward toward the higher realms of thought and achievement which are reserved for the elite. Help them, for they need you desperately as they struggle in their confusion and ignorance. Nor must you allow your modesty nor their adoration to divert you from your stern duty to instruct them and to correct their commendable efforts. Lead on! Greater glory awaits.

Prof. F. C. Hooper
Chairman
Engineering Science



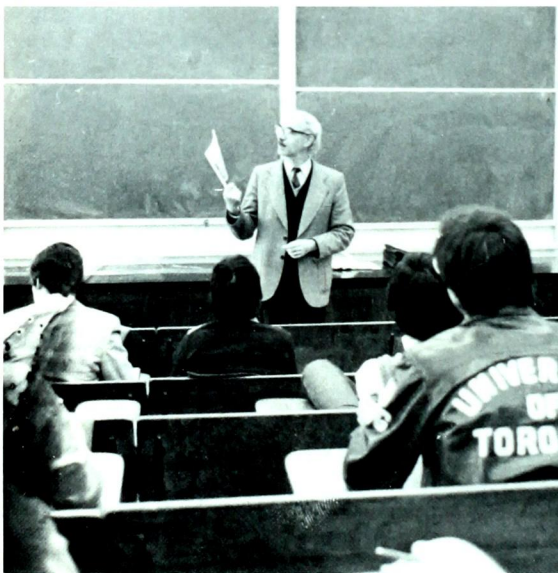
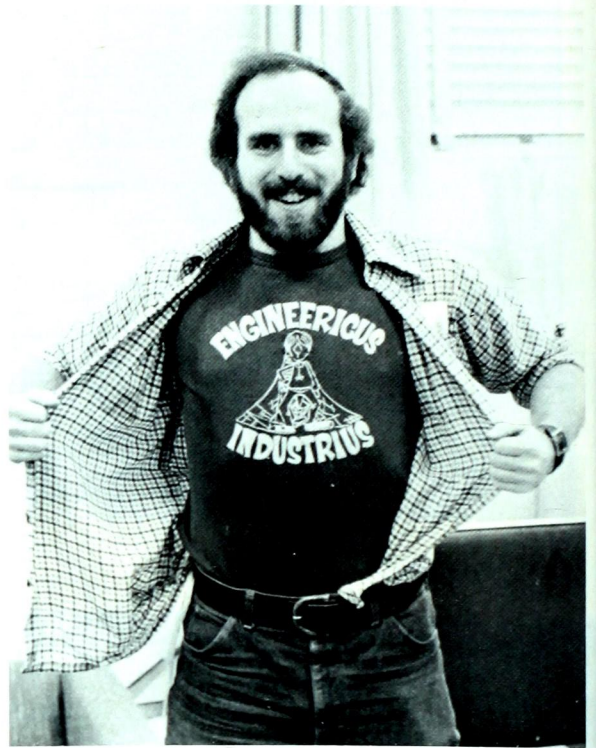


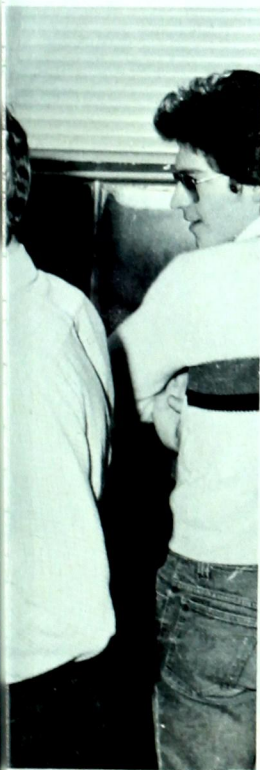
GEOLOGICAL CLUB



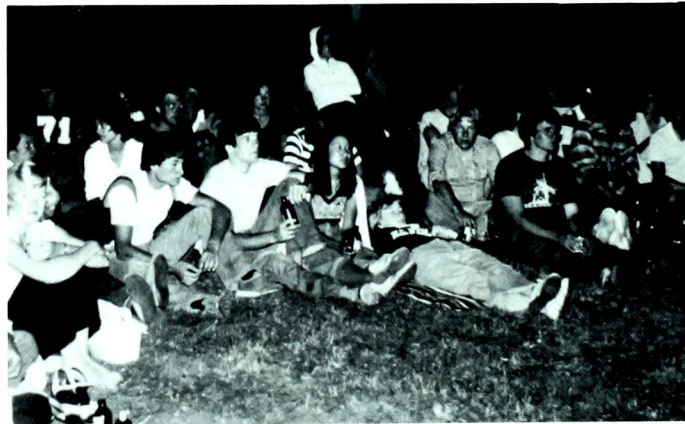
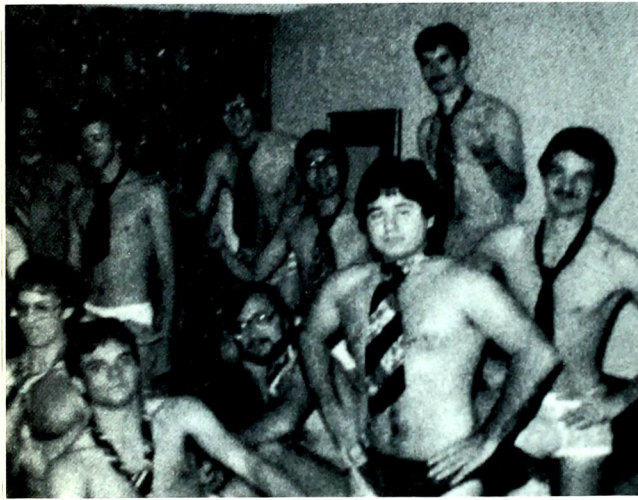


INDUSTRIAL CLUB



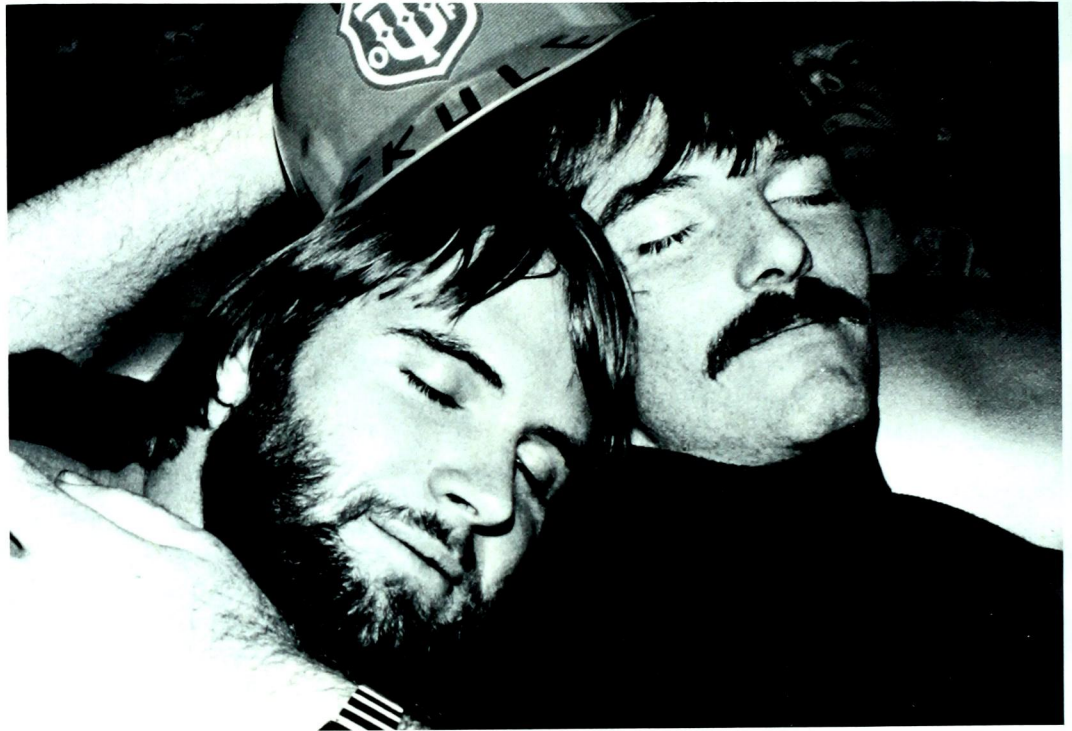


MECHANICAL CLUB





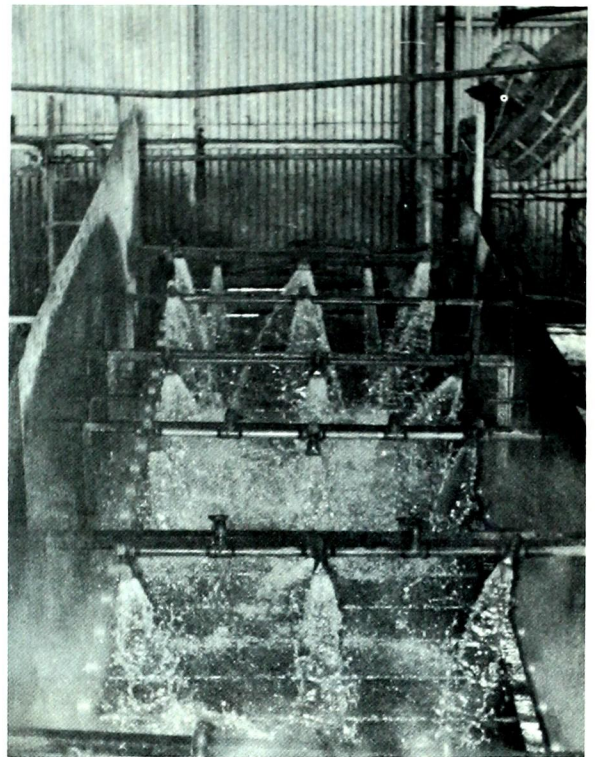
METALLURGY CLUB



The Metallurgical Club had yet another fantastic year! Events such as the smokers Christmas party and the Club Dinner were all well attended and enjoyed. There is not much question that per capita, Metallurgy outdoes all other disciplines in sport activities, Engineering Society duties and other social events.

The famous annual Metallurgy field trip went true to form this year as we went to *la ville de Montreal*. Unfortunately, no one remembers exactly what happened on the trip - but the bus driver said we had a good time! By the way, we left Quebec numerous 'hot meals' as a token of our appreciation and as a result of their \$2.50 drinks. It has been rumoured that next year Metallurgy will be going to Tehran to spend Christmas with the Ayatollah and the boys.





The Book of Skule



A book such as Skule 8T0 is not the product of a spontaneous generation. A number of people worked very hard with me to produce this record of Skule events. I want to thank them both.

First and foremost, a million personal "thank you"s to Steve Roberts, the vital creative and artistic influence. I could have done it without you, Steve, but the results wouldn't have been worth the effort.

There are people who promise you one thing, and either deliver something else or nothing at all. Then there are people like Randy Sinukoff who promise you little, but always surprise you by delivering a lot. I'm grateful, Randy, for the way you did your work.

My appreciation to Allison Ho Sang, Joe Singer, Harvey Dupras, Dave Chow, and June Li for their help with the Grads. Thanks to Ella for her smiling face, to the Bnad for the distractions, and to Eric for being a constant pillar of parched wit. Belated thanks to Ried Eddy for the Skule 7T9 logo.

Thanks to Mike Spencer for effecting a perfect transformation from Super-Salesman to Disco-Salesman in two short years. To everyone who submitted desperately needed material days after they promised it, a curse on all your houses.

Ule!

John Voss
Chem Eng II
Skule Editor

THE CANNON

September 25, 1979

University of Toronto Engineering Society

Volume II Number 2

The CANNON, realizing that highly interesting research is performed right in our university community, will frequently run feature articles on those areas investigated in our faculty.

Michael V. Sefton, University of Toronto Professor of Chemical Engineering and former Engineering Society President has been doing research of significance in medicine and engineering. Especially exciting is his development of a controlled release micropump (artificial pancreas).

The following interview with Prof. Sefton was conducted by Cannon assistant editor Susan Samuels. The interview was conducted on June 26, 1979 at the University of Toronto.

Cannon: In what major research areas are you involved?
Sefton: We're working in four major research areas. The two primary research areas are the

development of an artificial pancreas, and the development of a blood compatible material. We are also working on developing monitors that can be used to detect toxic materials in the work place and we're doing fundamental work on polymers and diffusion in polyurethane of practical significance.

Cannon: When did your work on the artificial pancreas come about?

Sefton: It began at a meeting of the Biomaterials Society in 1975, where Dr. Michael Albisser of the Hospital for Sick Children was discussing his work on an artificial pancreas.

Cannon: What did their models consist of?

Sefton: Their model was relatively large-tabletop size. It consisted of a glucose sensor, computer, and infusion pump. The apparatus would continuously monitor the glucose level, compute the required in-

continued on page 2



Assistant Editor
Alan Suran



In this issue:

Thanks to:

Hubert Vogt
Sue Samuels
Eric Hartwell
Pete Noble



Dr. Rapson, University Professor in the Department of Chemical Engineering and Applied Chemistry at the University of Toronto. Dr. Rapson delivered the Canada Medal address, on which this paper is based, to the SCI's Canadian Section in Toronto on 21 November 1978.

The SCI Canada Medal was founded in 1939 to be awarded every two years for outstanding services to the Canadian chemical industry.

The chemical industry has been fighting a rearguard as environmental activists have attacked it from many directions. This must change! Chemical industry must take the offensive. It must stress the great contribution of chemistry to the advancement of the welfare of mankind in a multitude of ways: in food production, in health, in materials of construction, in protection of the environment, in improving the standard of living, in increasing the enjoyment of life. Chemistry has unwittingly caused significant harm to the environment in some ways, but chemistry has provided and will continue to provide the means of correcting the damage to the environment.

Because so much remains to be accomplished to give everyone clean water and clean air, the public does not realise how great the progress through applied chemistry and chemical engineering has been in the past two decades. As a simple example, 15 years ago in my office, even with all the

windows closed, every morning, every surface, every exposed paper on my desk would be covered with black particles entering with the Toronto air leaking in. We installed filters on all the windows, which made a big improvement. Today these filters have all been removed and, even with the windows open wide, very little soot is noticed.

There is a widespread view that the waste products of chemical industry are the main contaminants of the environment, but that is not so. The waste products of human nutrition are the major contaminants of the waterways of the world. The second largest contributor is the waste from agriculture and animal husbandry, fertilisers and decayed vegetable matter leached from the land, and the waste products of animal nutrition. This can only be controlled adequately by an enormous investment in recycling these wastes back to the land or, where this is not possible, in sewage treatment plants.

For many years, the rivers, lakes and oceans of the world could accept these wastes and purify them. But as the world population expanded exponentially so did industry and agriculture. The load of wastes became greater than our waterways could handle. For example, the St. Lawrence

River is essentially dead, with respect to useful marine life, between Montreal and Quebec, mostly because less than 8 per cent of the sewage of Montreal receives any treatment, although treatment plants are now under construction on a huge scale. Therefore, the added effect of industrial wastes can hardly be noticed in that river. This gives the industrial plants time to apply chemistry to eliminate their wastes and many companies are taking advantage of this opportunity.

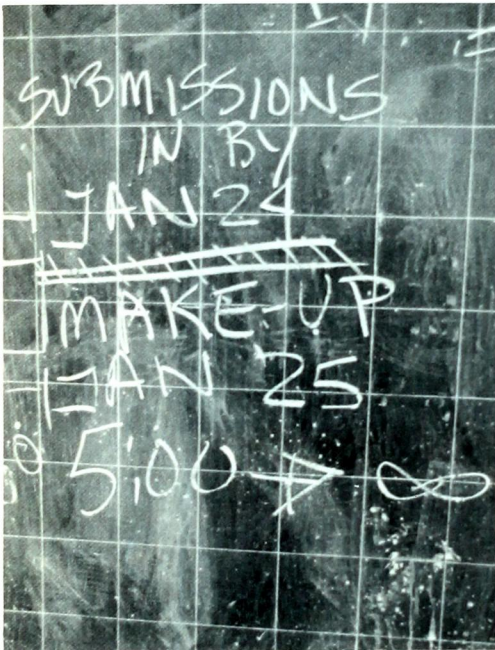
Benefits versus costs

In any proposal for environmental improvement, the benefits must be weighed against the costs. This must be the central theme of the government and of industry in a concerted, aggressive campaign of public education. It will require collaboration for the common good, not confrontation.

Four specific chemicals have probably added more man-years to human life than all other factors combined. These are: chlorine, through disinfection of water and sewage; penicillin (and its related biocides), by controlling bacterial infections; DDT, by destruction of insects which propagate malaria, typhus and other diseases; and 2, 4-D, by destruction of weeds to increase crop yields to feed

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TOIKE *IKE



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Ladies and Gentlemen,
The quadruple prize-winning, quadruple record-setting, CN
Tower and subway opening, Royal command performing,

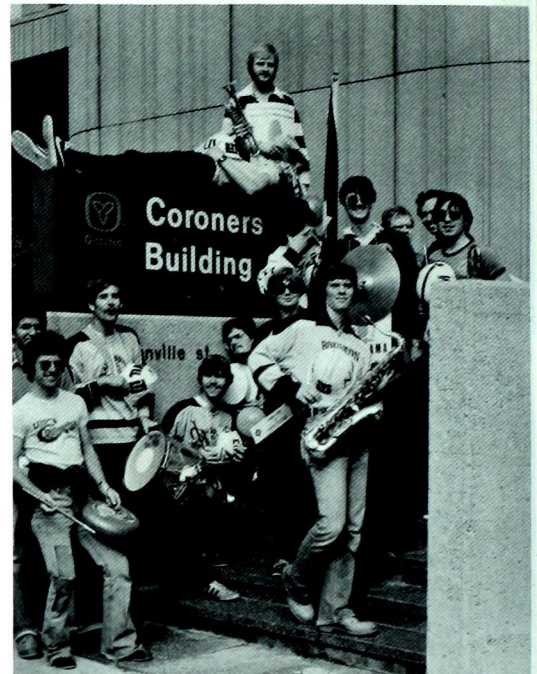
LADY GODIVA MEMORIAL BAND

Our year started off with an official bang with the Skule
Cannon in opening the all-new Fort Jock. This made the
Mike mad so we had no choice but to get our good friend
John Sewell to say a few words in our defence.

Later on we entertained the Alumni at the Triennial Din-
ner.

October became Engineer's harmony month when we
showed the Waterloo Hard Hat Plumbers' Band how it's
done. They came here in January for a brush-up course.

As usual, the Bnad helped the TTC in their ceremonies by
inaugurating the new streetcars. They must have been ex-
pecting us as the back of the new cars have semi-circular
seating; ideal for a Bnad.



The Bnad provided relief for the enormous Psych. 100
class in Con Hall. One girl was so overcome with emotion at
our appearance that she had to come down and personally
tell us how great we were.

The year included its share of demonstrations. We helped
deliver the message of the Toike in Sid Smith Hall and
channel 9 broadcast, on national television, the fact that "we
like Cornflakes."

Next year we plan to continue in the same vein (Red
Cross beware).

Illigitimi Non-carborundum







100 Disco Road
Rexdale, Ontario

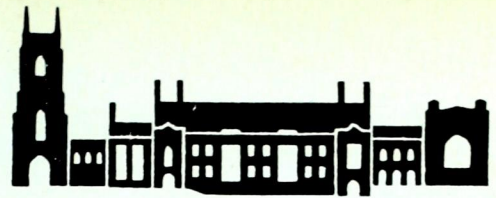
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Hart House

TO THE CLASS OF 8T0

A new special membership plan which covers the use of all the facilities in Hart House (north and south wings) and the Athletic Centre (Stevens and Benson wings) is now offered to the graduating class of this University. As an alumnus or alumna convocating either in the Spring or Fall you will have access to complete facilities and programmes offered at Hart House and the Centre.

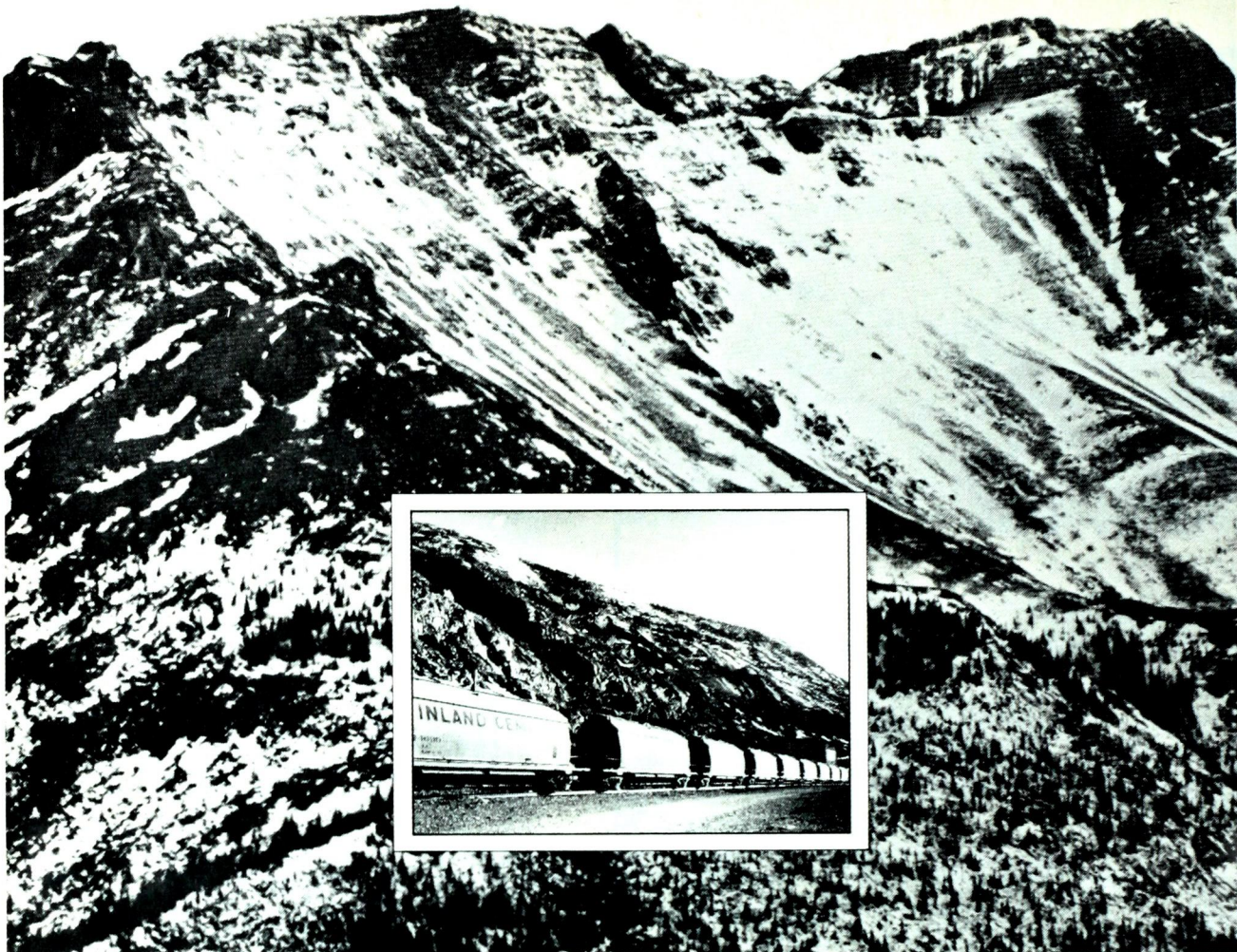
The regular annual alumni membership fee for 1980-81 is \$160.00. As one of the 1980 graduating class you are invited to become a member at the special rate of only \$80.00. This rate applies only to your 1980-81 membership and expires April 30, 1981.

Application forms and further information are available from the Programme Office, Hart House (978-2447). Fees are payable by cash, cheque, Chargex or Mastercharge.

ACROSS CANADA



BEER AT ITS BEST



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concerned, Procor designs the train as well as the loading and unloading facilities. We even build the train and maintain the train over its operating life. All this to assure you of the smoothest operation at the lowest possible cost per ton/mile.

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Then, you can concentrate on what you know best, mining—and and we can concentrate on what we know best—transportation.

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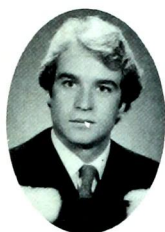


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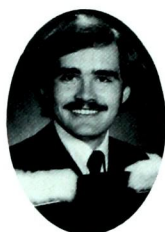


GRADUATES

CHEMICAL



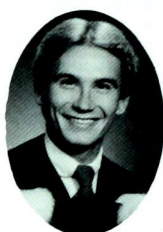
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Brian S. J. Bartley



Oliver Bajor



Gary R. Brierley



Paul J. Cahill



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Simon Chan



Eva Chau



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Man-Keun R. Cheng



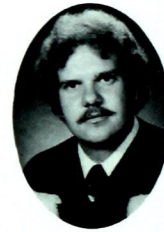
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Paul A. DaSilva



Gregg Deason



Mark G. Dokurno



Andrzej Dominski



Mark A. Gagliano



Robert A. Gair



Ralph W. Galler



Miklos Garamszeghy



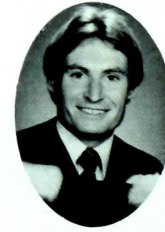
Bryan Gould



James Gouveia



Nabil G. Hamam



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Murray W. Hauch



Johnny Helou



Douglas W. C. Ho



Patrick L. Hodgins



James Jenkins



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Ann V. Kostas



Lawrence K. L. Lai



John Lam



Tom Latta



Pui-Yu D. Lau



Lai Lee



Robert W. J. Lencki



Leonard Leo



Mike K. M. Leung



William Mandolidis



Gregory Martinez



Ennio Mastracci



Timothy A. McGee



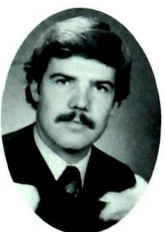
Michael A. McKinnon



Scott N. McMillan



Fernando J. Melo



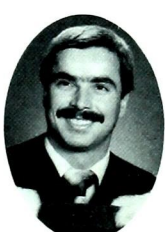
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Sophia Minovski



Igor Morgunov



Renato Morettin



Emmanuel H. Moundjian



Bruce D. Parent



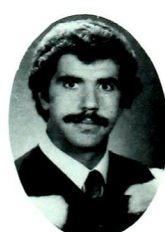
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Fred W. Schultz



Shahrokh Z. Shah



Karen M. Shigeishi



Caroline S. Simons



Paul E. Sketris



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Barbara A. Sterling



Claudia G. Straka



Vida J. Stripinis



Stanley W. Trevisan



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Craig Yano



Allan Yee



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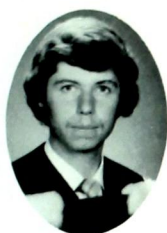


William V. Zanuzzi

CIVIL



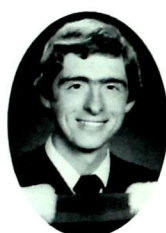
Doma A. Abo



John Aviste



Kenneth G. Baker



Renzo Basset



Luciano Battiston



Hugh A. Bell



Javed A. Bhatti



John E. Boote



Alison L. Bradbury



Luigi F. Bruno



Perry G. Caicco



Victor Lok-Ping Chan



Arun Channan



Seton H. Chase



Michael Wing On Cheng



Hing Sang Sandy Chong



Raymond Chow



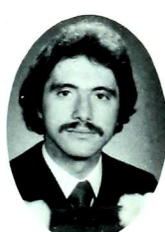
Louie S. Y. Choy



Robert Clarke



Patrick M. Collins



Frank DeFrancesco



Brian J. Doherty



Stephen H. Edmonson



Marie Anne Erki



Terry J. Favret



Hugh G. Fraser



Peter Pui Tsun Ho



Danny Ting On Ho



Hoi Liang A. Huang



Kathy Jackman



Edward A. Jetten



Ronald H. Jutras



Daniel J. Kamin



Jack Y. C. Kong



Lewis Shu Wai Koo



Robert M. Laidlaw



Tony Wai Ming Lam



Ming Kui Lau



Kai Wo Helius Lau



Ding Kan Duncan Lee



Edwin Yat-Sing Lee



John Wai Tak Leung



Arthur Shu Ki Li



John D. Low



Salim Jebran Majdalani



Chin Yau Mak



Frank Mancini



John Mende



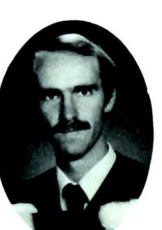
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James J. O'Keefe



Brian W. Paige



Robert L. Paine



Jan M. Piekoszewski



Gino M. Pulla



Andrew P. Pyszynski



Angelo Rao



Roger L. Roney



Richard Sae



Dexter J. Salna



Gino Salvo



Sang Woo Shim



Robert G. Schickedanz



John E. Skrypek



John T. Stanley



David W. Stiver



George C. Teodosiu



James A. Thompson



Attilio S. Treglia



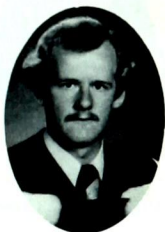
Chik-Sang To



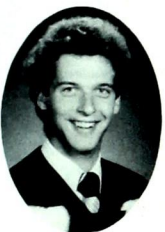
Henry D. Ulozas



Aubrey Vanderstar



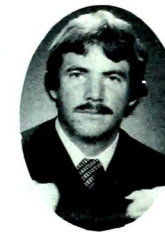
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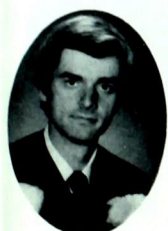
Andrew K. Valickis



Salim J. Walji



Donald E. Watts



Henry Weinman



Wing Bun Wong



Joseph M. Wright



Leo Zannier



Bruno Zutautas

Also graduating:

Donald A. Bialik
Savio K. C. Chu
Carleton W. Lane

ELECTRICAL



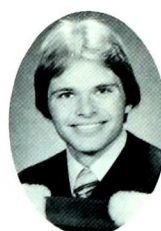
Jose C. Abalos



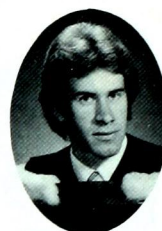
William Anam



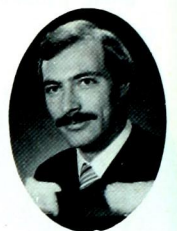
Michael R. Ball



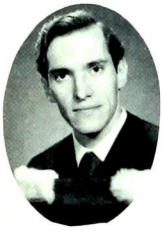
William J. Ballantyne



Brian D. Bell



Ronald H. Beyeler



Bruce P. Borer



Joe G. Buda



Douglas J. Bush



William B. Calder



Thomas P. Chacko



Eric Chi-Chung Chan



Kam Kwai Chan



Irene Chan



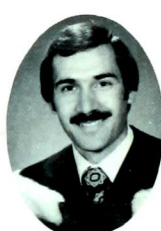
Trevor V. Chang



Chen En S. Chao



Brian R. Cheesman



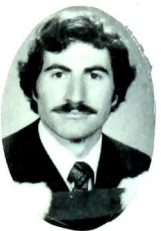
Carlo Chiavaroli



Wayne Chu



Robert Clare



Mark Cohen



Brian D. H. Colm



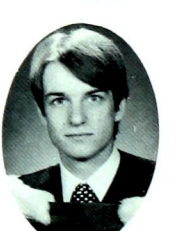
Bryan C. Corlett



Ennio D'Angela



Paul Dixon



Simon R. Dodge



Thomas H. Drake



Richard C. Duncan



Leslie Eisner



Marnie J. Ferguson



Anthony P. Fondyga



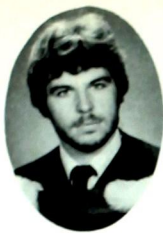
John D. Foreman



Livio Guido Gallone



Roy F. Gibson



Lowell A. Goudge



Ross J. Grandy



Paul M. Haines



Ki Youn Han



Paul R. Harmon



Errol Z. Hernandez



David V. Hobbs



David L. Hoy



Markku G. Hyttinen



Andrey Jagielo



Brian H. Kent



Jongdea Kim



Carlos Kok



Cheuk Hung Kwong



David Li



Pung Sang Li



Patrick Liu



William Loh



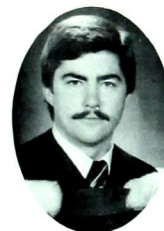
Robert Lum



Stefan Machniewski



Salvatore Mantenuto



Terry R. McKinlay



Edward Brian J. Menezes



John C. Milloy



Ronald B. Morris



Alan K. Nesbitt



Weltson S. L. Ng



Wing K. Ng



Peter J. Oliver



William Pao



Neville F. Pereira



Jack K. Poots



Parimal Rawal



Guy H. Ridgway



Patrick H. Rodrigues



Kevin J. Rolston



Brian A. Ruptash



Karen M. H. Ryan



Verlynn J. Sauve



Daniel P. Shea



John Sherwin



Mark Silver



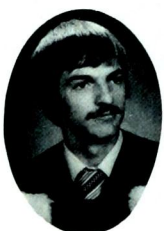
Eliezer I. Silverberg



Mike Henry D. Sinnott



Wayne D. Smith



John F. Theisen



Kwan Hung Tse



Michel Y. Veilleux



Michael Venditti



Richard J. Verbeek



Michael Viola



Robert G. Wakelin



Thaddeus P. Wojcinski



Carl K. Wan



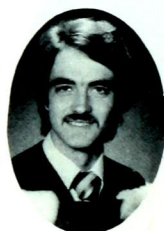
George C. G. Wong



Raymond Wong



Tiki M. T. Wong



Nick Xourafas



Stephen S. K. Yeung

Also graduating: James G.D. Brathwaite
Kris L. Browne
Shui Cheung Chan
Steve A. Kenda
Andreas F. Luettschwager
Roman T. Mateyko
Anis Odeh

Cosmo Picassi
Herman A. Roopchand
Alex Saba
Benjamin M. B. So
Gilbert Williams
Gordon K. Morison

ENGINEERING SCIENCE



Robert J. M. Anderson



David D. Beckman



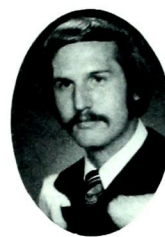
William P. G. Bjarnason



Jeronim Bosna



Kerman Buhariwala



Donald Butler



Paul S. Campbell



Andrew Chan



Chun Y. A. Cheng



Oliver Cole



Richard J. Comparey



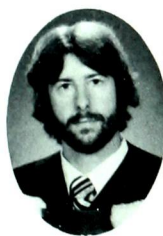
Peter J. Coumans



David A. Craig



Gabriele Deleuterio



Michael T. Deverno



Boris C. Dinkoff



William G. Elliott



Lloyd M. Florence



Peter A. Froebel



Richard Gehring



Monvid D. Gertners



Gordon M. Green



Shawn K. Griffin



Adrian H. Hartog



David M. Hewitt



Hiu Ming Hon



James Hopkins



Salim Jamal



David A. Johns



Bruce G. Kamen



Jeffrey L. Krolik



Alfred Kwok



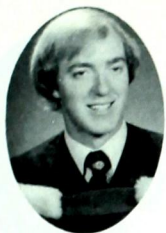
Arthur K. C. Lai



GEOLOGICAL



Christopher C. Batchelor



Jeffrey K. Brookman



Colin B. Bogue



Jennifer E. Duignan



Deborah Garratt



Robert I. Gomm



Richard J. Hutson



Rameshwar Jagdat



James D. Keffer



Douglas J. King



Stanley A. Kolenko



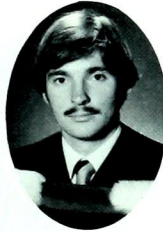
Gordon G. Marrs



Dale J. McNeil



Deena Milgram



Paul D. Miller



Martin H. C. Mui



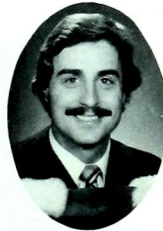
Peter G. Nicol



Stephen R. Noble



Joseph J. Ovcjak



James G. Provias



Samir R. Sabat



Joseph Scarcello



Ronald P. Schell

Iso graduating:

Denis J. R. Allard
Edward Holmes
Terry R. Lee

INDUSTRIAL



Shigeyuki Aoki



Derek J. M. Batty



Robert F. Berner



Dennis Boychuk



Gary H. Brewer



John G. Brouwer



Paul G. Brown



Bruce R. Carpenter



Giovanni Celli



Man Chu Chan



Wai-Man G. Chan



Victor Chan



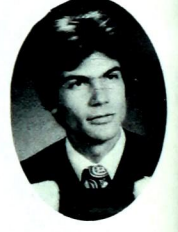
Ken C. B. Chu



Gordon E. Cooke



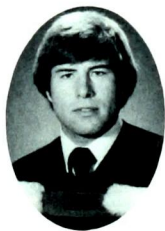
Michael P. Cuddy



Gerry DeGirolamo



Mark W. L. Dennison



Lance E. Gattoni



Martin F. Geffen



Mark C. Hann



William F. Hickey



Sandy H. Honigsberg



David S. Javasky



Eliseo Javier



Marsha Kadish



Lester J. Keachie



Siobhan M. Keogh



Jim A. Kuprowski



Toomas E. Kutti



Chi K. D. Lam



Adrian D. Lee



Michel P. Legault



John P. Lemke



Douglas J. MacCallum



Robert C. Macneish



Domenic Maggio



Gerald H. Nagai



Edward Niewinski



Martin A. Oseni



Lorne Merkur



Robert H. Rayfield



Gordon E. Ridout



Steven Sagara



John D. Spafford



Jeffery P. Spinazze



Warren F. Travell



Giuliana M. Trevisan



Barry N. Vey



Charles W. I. Wong



Conrad Chee-Kau Wong



Hung Yi



Lorraine F. Young

Also graduating:

Robert H. Kelk
Vincent Y. Y. Ko
John C. Larsen
David H. Lord
Douglas H. Murray

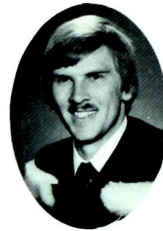
MECHANICAL



Paul F. Adams



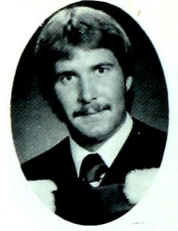
Wayne L. Aldred



Bruce L. Allen



Mark R. Asadoorian



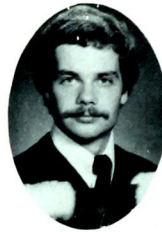
Rino Barbisan



William G. Barrett



Imre J. Boma-Fischer



Philippe J.F. Bonniere



Charles C. Budreau



Alexander Bystrin



Catherine M. Campbell



John P. Caputo



Jack J. Carcasole



Anthony W. P. Chan



Geoffrey M. Chandler



Albert Y. Chau



Jack Y. K. Cheng



Elizabeth C. L. Cheung



Si C. Chow



Yum Wang D. Chow



Anthony D. Ciccone



Jim Cipolla



Douglas J. Clare



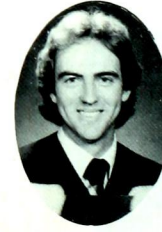
Theodoros Cleanthous



Charles C. Cummins



Peter K. Daechsel



Ralph T. DeJong



Frank DiDomizio



Kenneth S. Duncan



Ian G. Elphick



Paul R. Forgang



Siu Shan Fung



Lucas G. Gadouchis



Elizabeth A. Gallagher



Danny Gerbec



John A. Gibson



Mauro Girardo



Veiven Goon



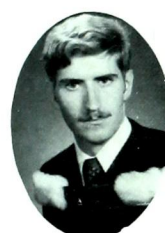
John Gulbinas



Michael A. Hastings



Heather E. Hayne



Alan M. Hooper



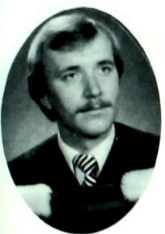
David A. Hull



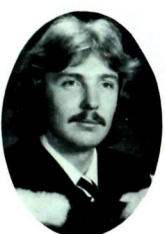
Marko Janischewskyj



Paul F. Karas



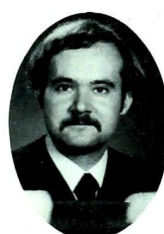
George Klekner-Alt



Frank Kolinek



Katherine E. Kono



Richard A. Kostka



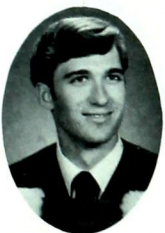
Sing Lam



Gilbert Larocque



Robin W. Lau



Michael J. Lemiski



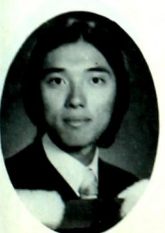
Randall M. Lesco



Richard Loewen



Theodore Y. Louie



William Lui



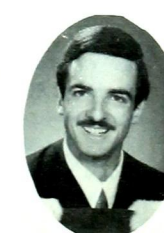
Colin M. Mackenzie



Douglas S. Mann



Peter A. Marcucci



Sandro Missana



James D. Mittle

MECHANICAL continued...



Willis T. Nakamura



Andrew Notzl



Eugene J. H. Oh



Tom G. Okany



Andrew Pang



Stephen Parker



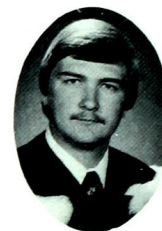
Ronald F. Piggott



Robert J. Powell



Mark D. Purdon



Eric G. Puss



Charles C. Ramsey



Jouko S. Rantala



Mark P. Schultz



Cameron G. Serles



Alan P. Shetler



Keechul Shin



Thomas G. Siklos



Jan F. Slavik



G. Connell Smith



Brian E. Sooley



Fei Yan D. Tang



Andrew Teichman



George A. Trusler



Hung-Leung Ivan Tsim



Hubert S. Vogt



Brian W. E. Wachon



Kan R. O. Wah

Also graduating:

James F. Accursi
Charles A. Blum
Howard Brennan
Carl L. Nishimura
Ronald S. Patrick
Douglas B. Peterson
Almoez Ratansi



Kamhong Wong



Israel I. Yedidia



Zdravko Zdravkovic

METALLURGY & MATERIALS SCIENCE



Serge Burashko



Peter C. L. Clifford



James Co



Lorenzo Dalessandro



Moon Tiew Foo



Scott Fowler



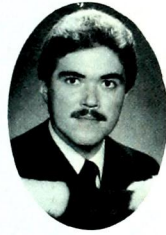
Mihail Groisman



Rimantas J. Gudelis



Ararat Hacetoglu



Raymond Kopiak



George I. Legate



Ken H. Ma



Jeffrey E. Pritchard



Gordon A. Rife



David J. Salari



Steven J. Thorpe



Paul A. Ugucioni



Annette M. Watkins

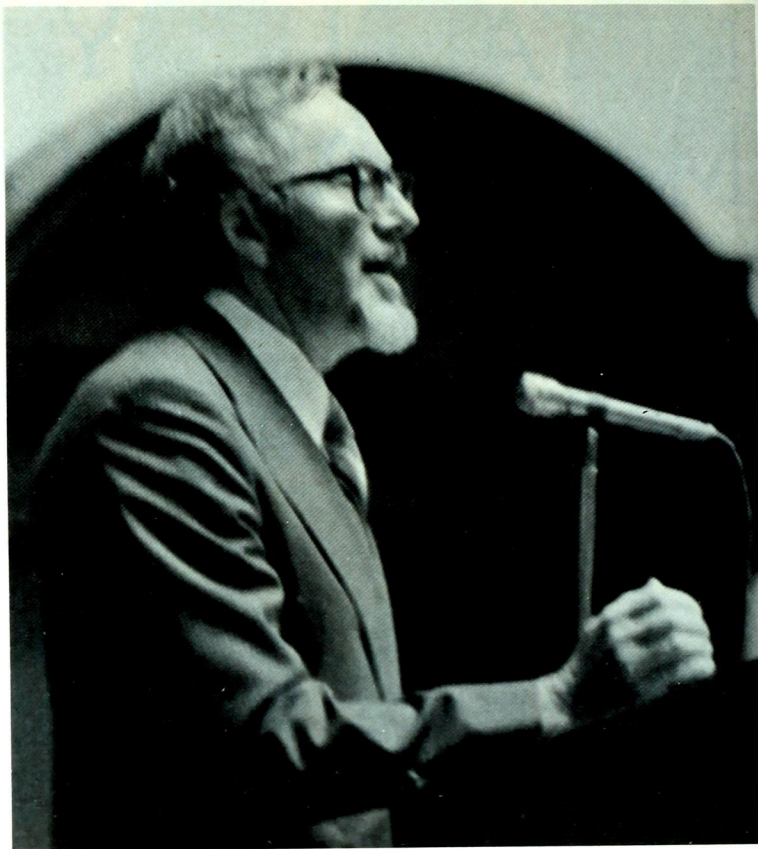


Siu Han Wong

Also graduating:

John B. Hummel
Simon C. K. Kwok
Steve M. Margolian

**DEAN
OF ENGINEERING
GORDON SLEMON**



I am grateful for this opportunity to thank the Engineering Society and particularly the Class of 8T0 for initiating me so enjoyably into the Deanship in a memorable ceremony at high noon on St. George Street. On appropriate occasions I will again proudly wear the ceremonial hard hat.

I would also like to congratulate the members of the Engineering Society Executive for conducting student affairs throughout the year with good management, good judgment and good humour. This Faculty sets out to graduate a large proportion of the professional and industrial leaders of tomorrow. A large part of the credit for achieving that objective goes to the student organizations of the Faculty which so enrich our lives together by creating a sense of community and shared purpose.

This is a good time to be a graduating engineer. The needs of society for competent creative engineering have never been greater. The recognition of society that innovative engineering is central to the solution of many of its problems is steadily growing. As you enter the next phase in your career, I wish you continued success in your endeavours. May you frequently experience the exhilaration of professional accomplishment.

In the years to come, I hope that you will retain a close contact with the Faculty through the Alumni, through continuing education programs and by frequent visits to your engineering home.

A handwritten signature of Gordon R. Slemon in dark ink. The signature is stylized and cursive, written in a fluid, connected script.

Gordon R. Slemon
Dean



ENGINEERING SOCIETY PRESIDENT

GARY JONES

The year has been an active one. Orientation once again served to reduce the Frosh's sense of panic when initially confronted with the engineering programme. The Skule year has seen the Toike receive the publicity and literary recognition it deserves. The LGMB has taken its rightful place as the official band of the university and is now the quadruple prize-winning band. Under our stores manager, Bryan Gould, the Stores have greatly increased sales and are looking forward to expanding into new markets. We have taken positive steps to improve the on-campus recruitment program for engineers. A lot more work is needed in this vital area to ensure our engineers get summer work experience that will allow them to apply their engineering.

All the social, sporting and humorous events of the Skule year are recorded in the pages of Skule 8T0. It's the work of talented Skulemen who can take satisfaction in a job well done.

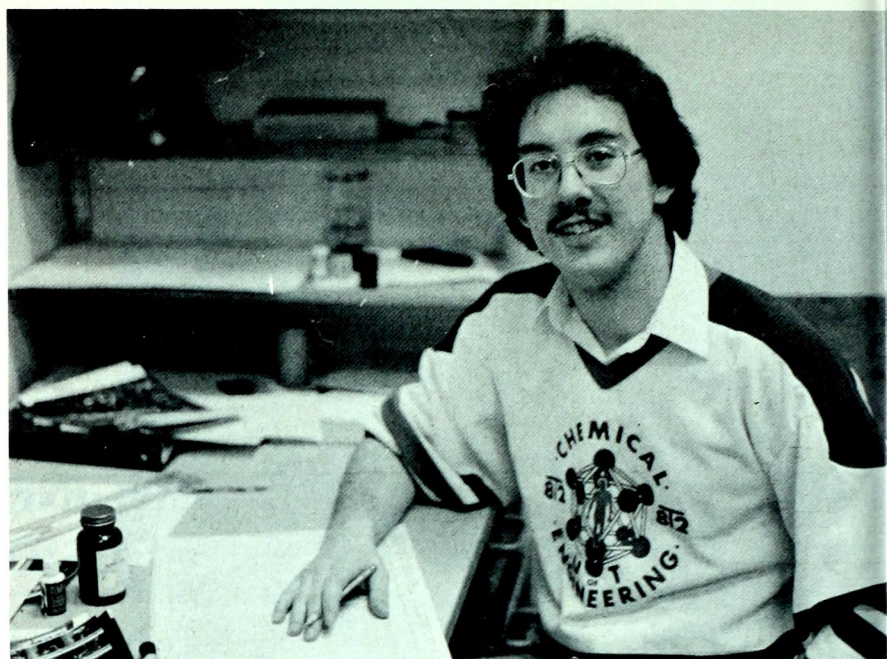
To the class of 8T0 this year marks the end of four years of lectures, labs and exams. For the undergraduate it is the time to develop the ability to deal with people as well academics. In the complex role of a professional engineer, skills in solving people-related problems are as necessary as the skills needed in solving technical problems. As undergraduates mistakes, you make in your dealings with people are not critical. These opportunities for making mistakes and learning from them won't be present when people are depending on you for reliable technical solutions to their problems.

How do you develop these interpersonal skills? You make friends. You participate in the sports and extracurricular activities provided by this faculty. In other words you provide yourself with the opportunities for developing the ability to deal with people.

Seize these opportunities: they are a necessary part of the training of a professional engineer.

Gary Jones
President

SKULE EDITOR JOHN VOSS



Engineers are famous for being the true keepers of Skule Spirit. Years of inventive Brute Force Committee capers and LGMB concerts have seen to that. While the rest of the university shrivels and crawls into a cocoon of apathetic complacency, Skule remains the last bastion of interest and involvement at the University of Toronto. Or does it?

If you've looked through this book, a chronicle of Skule events, you may have noticed that a lot of the faces keep popping up again and again. I've come to the conclusion that of the twenty-five hundred engineers here, only fifty or so can truthfully boast of having Skule Spirit.

Skule Spirit goes beyond demolishing forty beers and it is true spirit that is missing these days. The Toike Oike used to amuse and entertain its readers but for the last few years it has only aimed to shock them. The Cannon can't realise its true potential because not enough people are interested enough to get involved. This is the first year in the last three that we have enjoyed Engineering Society elections rather than acclamations. Can anyone name a major BFC caper this year?

Those people who have Skule spirit are the Bnad members, and I mean the ones at the hockey games not just the Slave Auctions. They are the players on Skule's many successful athletic teams, and the people directing the Engineering Society. Hart House is practically run by Engineers. Skule Spirit involves putting something into Skule, not just taking things out.

I remain convinced that this Faculty is the finest school of engineering in the country and I don't doubt that as graduates we will be able to fulfill our professional obligations skillfully. But "Skillfully and Vigorously" is our motto and vigour and pride in an accomplishment are what Skule Spirit is all about.

John Voss

John Voss
Editor
Skule 8T0

