

FEBRUARY 8th 1973

# REMEMBER!!! help hope dance feb 9

One of These Days  
Barry Greenfield  
Dal Richards  
Admission \$1.50

Leviathen  
Genesis  
7:30 - 2:00  
Full Bar Facilities



BCIT Cougars Hockey Team being congratulated by Principal D. Goard. Cougars captured the

Bronze Medal in the recent Winter Festival of Sports College Hockey Tournament. Eight Regional Colleges participated in the Kamloops Tourney.

## STUDENT REFERENDUM RESULTS

DRESS CODE

January 31 - February 1, 1973

I. Whole School

Total votes	1717	
Total: In favour of dropping dress code	1003	58.5%
Total: In favour of retaining dress code	703	41.3%
Spoiled	6	?

4. Engineering:

Total votes	845	
Total: In favour of dropping dress code	567	67.1%
Total: In favour of retaining dress code	272	32.2%
Spoiled	6	.7%

2. Business:

Total votes	438	
Total: In favour of dropping dress code	209	42.8%
Total: In favour of retaining dress code	279	57.2%
Spoiled		

NATIONAL STUDENT UNION

3. Health:

Total votes	384	
Total: In favour of dropping dress code	227	59.4%
Total: In favour of retaining dress code	157	40.6%
Spoiled		

Whole School:

Total votes	1717	
In favour of joining	1160	67.5%
Not in favour of joining	498	29.0%
Spoiled	59	3.5%

# COUNCIL REJECTS DRESS REFERENDUM

For the first time in months, Council finally achieved a quorum for it's latest, and probably most interesting, meeting of the term.

???

It was reported by Frank Corker, that BCIT has hopes to send a public relation team on a visitations to northern B. C. during the spring break. Two routes are to be mapped out--one a coastal route, another travelling inland up to Fort St. John, Dawson Creek etc. U.B.C. and Simon Fraser will be sending a team with us and all expenses are paid. Frank would like to hear from anyone interested in making this trip. It will require talking to the Various communities and answering questions pertaining to student life in Vancouver and BCIT.

The Pub is running into trouble due to the abuse of the policy of one guest per person. The BCIT Pub is run for the benefit of the BCIT and BCVS students -- not outside students; otherwise prices would be higher so that our Student Association could make a profit. The Student Executive Council recommends to all students that they do not abuse the policy of allowing one guest per person.

As per section 5.1.H of the Constitution and notice given at the last council meeting, the following people are suspended from council:

Marketing President Fred Hamel  
Tech. Man. Vice-Pres. Joe Painter  
Bio. Science Vice-Pres. N. Jmloff  
Forest Products Donald Nore  
Nuclear Med. Vice-Pres. Vaughn Bourrie

Their positions are now vacant and the respective technologies will be notified as to elections for their replacement.

The debating team is also in need of debaters (no experience necessary) for the tournament we are hosting Feb. 16 and 17th at BCIT. The topic of debate will be capital punishment. There will be a meeting this Thursday at 5:30 in the board room of the SAC. People are desperately needed.

The Student Council spent some time discussing a motion on examinations that had been tabled at the last meeting. Mr. Al McLean, a representative from the Administration was present to answer any questions that he could. He suggested that anyone with any dissatisfaction concerning test results or queries of mark injustice should take the matter to his Division Head or the Vice-Principal. Council members expressed that they believe that the main criteria for learning is through mistakes, and as this is an Institute of learning, they felt that it is a great injustice that exams are not returned or discussed. Al McLean reported that he felt that the reasoning behind not returning final exams was primarily that final exams are not a teaching tool and only an evaluation of a student's knowledge. He stated that if exams were to be returned that there would not be any room for re-reads and that more time in marking the exams would be required if appropriate comments have to be added. Mr. McLean also pointed out that the administration is trying to keep students in the school --not out, and that the number of persons failing each year is minimal. By returning exams, he felt the possibility of flexibility within borderline cases would be ruled out. The recommendation system was also discussed but the point was brought up that some technologies require specific exams to enter their respective outside society.

David Marshall moved this motion as follows:

"I move that the Student Association recommend to the Administration that final examinations be returned after marking."

Seconded by Elmer Epp.

MOTION CARRIED

22:5-8

Jack Smügler briefed the council on the subject of a full time employed president as presented at the January 9th Council Meeting. Currently the students working on the students Council Executive are exempted from various courses, but only the Business Division has this privilege as their courses are related to this work. Engineering and Health do not allow these exemptions, and the job of President is too much on top of their normal work load. Jack also felt that the administration "pushed" past presidents through the academic side of the diploma, because they realized that he doesn't have time for both jobs. Jack proposed a salary of \$5200 per year, that the president be required to take a minimum of one course and a maximum of two, and that he be a full-time student at the time of his nomination and election. The motion was defeated.

The Council next went on to discuss the implications of the recent referendum on dress regulations. Tony Shelling read a memo that he had just received from Mr. Goard, the principal. Mr. Goard, it seemed, was basically proposing that dress regulations be left to the discretion of the "mutual agreement" of the students, faculty and administration within each technology or Division. Some objection was raised to this plan. Some members felt that the referendum had show what the students felt, and that Council should follow the results of the referendum. Other members expressed the belief that Mr. Goard's proposal would allow the Business students to retain dress regulations, if they so desired.

In an attempt to re-affirm the results of the referendum, the 2nd year rep from E & E proposed the following motion: "that council support, in principle, the majority sentiment expressed in the referendum on dress regulations, and reject, in principle, any disciplinary measures against those not complying with the present dress regulations." The motion was defeated by Council!

The last item to be dealt with was the Record Club. A motion was presented and passed asking the administration for funds for a library listening room and record collection.

So, at about 9:00 o'clock, Council adjourned.

## BCIT EXCHANGE PROGRAM

□□□From Dec. 20, 1972, to Jan. 4, 1973, I had the privilege of joining 14 other students for an experience of a life-time. We had the pleasure of spending 2 weeks in Mexico courtesy of the Experiment in International Living which is sponsored by International House.

We arrived in Mexico City on the 20th of Dec. The following evening we drove to Puebla where we spent the next 10 days with our 'families.' The main feature of this program is that each individual student lives with a family for the duration of his, or her, stay. In this way, the student develops a close relationship with the everyday Mexican person and is able to get off the tourist beat and savour the Mexican way of life as a Mexican would. We went shopping together, to their parties and to other social events. In the process we developed many intimate friendships that we will undoubtedly cherish for the rest of our lives. If you don't believe me, ask the person in 1st year Marketing who went with me.

So for 10 incredible days we lived like the Mexican people. We went to a bull-fight and soon became aficionados. We visited many of the historical sites in Mexico, of which there are many. There is a piece of history under every step you trod. The 2 highlites were the pyramids of Teotihuacan and the ancient Aztec ruins in Mexico City.

My most cherished remembrance of Mexico is the people that I had come to know and love. The Mexican people are a very outgoing, friendly people who do not hesitate to show their affection for each other. Coming from Canada this is difficult to get used to because like our weather we are a cold people in comparison. We may have much in the way of material wealth and luxury but believe me, we have a great deal to learn about human understanding and about how other people live. We are not alone in this world. The more we learn about our fellow man the better our chances of realizing universal peace amongst the nations of the world.

There will be another trip to Mexico next year. I strongly recommend this trip to anyone who wants to know the pleasure of having been able to contribute towards International understanding by fostering friendships with people of other countries. Buenos Dias!

Dennis G. Lysack

# ADMIN II ALL-STAR SHINE

3

## Game 1

The Admin II all-stars took to the ice Wednesday, Jan. 17, to anialate Survey I and II by the score 9-3. The Admin team was lead by "Crusher" Chitrenky with 5 goals; other scorers wer "Rocket" Romano, "Bruiser" Barnes, "Hippity" Hopp and "Pee Wee" Prothman.

In a losing effort, Survey's Tom Volpatti tallied with two unanswerable goals.

Admin goalie, "Chargin" Chong, after a first period shut-out, allowed only 3 goals out of 50 shots. Admin team playing without the service of their starting line-up, who were practicing with the Seattle Totems, in the green rink, blundered their way to victory with no skating or back checking. Regulars not playing were "Hurricane" Hickmore, "Man-slaughter" Munroe and "Crazy" Craddock.

Defensively, "Whaler" Wells, "Moose" Mattson, "Beastly" Beaton and "Gorilla" Jervis were steady through the devastation, and were credited with many assists.

"Boom Boom" Borseth and "Bozo" Bradshaw dug in the corners to set up their centre man "Crusher" continuously.

"Dangerous" Dill, trying out his new stick, was flying up and down the wing. Last week "Dangerous" broke his other stick over an opposing players head.

There was a standing room crowd in attendance, since there was no place to sit. Familiar faces in the crowd were "Babe" Pratt, Vic Stasiuk, Phil Maloney, Barry Kiernan, Ken Wiebe, all loyal Admin II fans.

Admin II will be practicing on Friday from 6 to 7 at Queens

Park Arena, tickets are now on sale at the Pacific Coliseum box office.

### Team Executive are:

Peter Waites  
Barry Kiernan  
Ken Barton  
Ken Wiebe

### Executive Vice-President

General Manager

Coach

Team Lawyer

Watch for further developments from your friendly Admin II Reporter.

### Game II

Admin II hockey team in the midst of a red hot streak buried the miners 10-0, Wed. afternoon at the Four rinks. "Chargin" Chong registered his first shut-out in the young season. Admin goals were evenly distributed between both lines, five goals apiece.

"Crusher" Chitrenky paced his line with three goals, while "Bruiser" Barnes tallied two. The other line was led by "Hippity" Hopp with two goals, "Rocket" Romano, "Whaler" Wells and "Dangerous" Dillion with singles.

The defence was led by "Moose" Mattson, with a fantastic body check late in the game, "Hurricane" Hickmore, with fine offensive plays at the blue line.

"Boom Boom" Borseth and "Bozo" Bradshaw were steadily hustling on the first line, "Bozo" even hustled a mining chick in the corner.

Two times during the game, the same mining chick checked "Bruiser" and "Moose" off the puck and she was always a threat to the goalie.

There was a 20 minute break in the action when "Whaler" Wells scored his first (ITHL) inter-tech hockey league goal, the ice was cluttered with debris.

Two new coaches were hired for the second game, Jim Sparkes and Barry Kiernan, they both did a fantastic job behind the bench. Also a new face in the crowd was Admin II top skier Bill Thomson.

Next game of Admin II will be on Saturday night. Tickets are sold out for the game, but scalpers will probably be selling them outside the Four rinks. Leading scorer to date is "Crusher" Chitrenky with 8 goals and "Chargin" Chong has a goal apainst of 1.5.

This is your friendly Admin II reporter signing off, see you all Saturday night.

**Party** Skating 7:00 - 8:00 P.M.

**STAFF HOCKEY GAME**

Male Staff

VS

Female Staff


9:45 - 10:30 P.M.

6501 Sprott St., Bby.

February 23, 1973

all Proceeds will be donated to Tiny Tim Fund.

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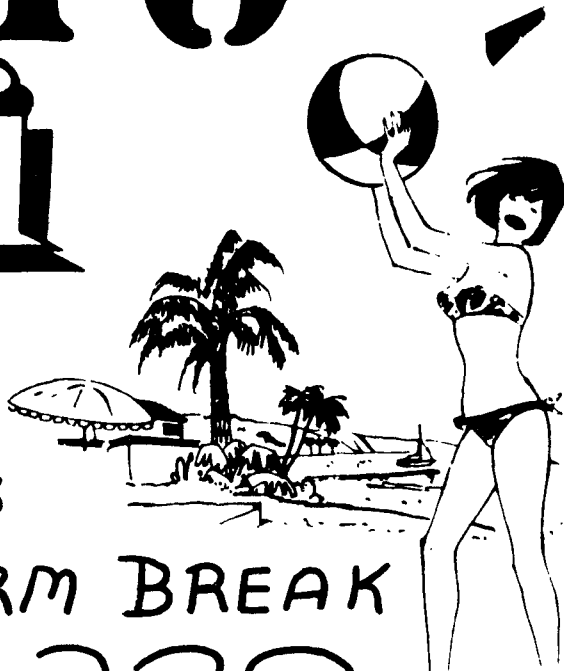
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MARCH 3 - MARCH 10

DEPARTURE	MARCH 3	12:05 NOON
HONOLULU ARRIVAL	MARCH 3	5:50 P.M.
HONOLULU DEPARTURE	MARCH 10	3:30 P.M.
ARRIVAL	MARCH 10	10:45 P.M.

### CONTACT

PHIL HENDERSON 434-5722  
OR  
BRUCE THOMSON 682-0788



# STORY TIME

For years, the greatest fear in a man's life was to be poor. It was about the worst thing that could happen. But gradually that's changing. In fact, nowadays, you can get subsidized housing, health and dental care, university scholarships and various other welfare benefits, providing you are poor enough. All you need to enjoy many of the advantages of life is proof that you are disadvantaged.

Nobody can complain about that. It's human and kind. However, in curing poverty, society has created another problem group. And that's the middleclass.

Nobody wants to be middle class any more because the middle class has an awkward amount of money - too much to be eligible to live as well as the poor, too little to live as well as the rich. The middle class wage earner is caught in between.

Instead of living downtown (like the rich and the poor) the poor sap has to buy a crummy lot 35 miles from towns because that's all he can afford. And then he spends the rest of his life trying to pay his bills, educate the kids and meet the mortgage, because nobody will help him out. If poverty gets any more attractive, this is the sort of thing we may run into at the office.

"Mr. Goodie, I wonder if I could speak to you a minute?"

What is it, Smedley, I'm busy?"

It's about my salary, Mr. Goodie, I wonder if you could give me a decrease?"

"You had a decrease less than a year ago Smedley."

"I know, sir. I wouldn't ask if it wasn't important but I sure could use less money."

"What size decrease did you have in mind?"

"I was going for a \$25 cut in salary."

"Twenty-five Dollars! That's a big slide, Smedley. What have you done to merit it?"

"I have worked for the Company 23 years, Mr. Goodie. And I've never let you down. My work has always been up to standard."

"I realize that, Smedley. But \$25! Wouldn't you be satisfied with a \$15 cut? We have a budget right now. We're already below last year's figure. And I hear the Union is furious, tax wise."

"Mr. Goodie, a \$15 cutback is better than none, but my wife and I had our hearts set on a \$25 decrease."

"How about \$20?"

"If I made \$25 less, we'd be eligible for an apartment in the city's new development, the one downtown with a pool, sauna and tennis courts. Besides, my son would qualify for a government scholarship and we could get his teeth fixed."

"You drive a hard bargain, Smedley. But you win. You get a \$25 decrease on this condition. If your work slips, you'll take a \$10 raise, no questions asked."

"Bless you, Mr. Goodie."

"And Smedley, will you invite me over for tennis and a swim some night when you get into your new place?"

"Certainly, sir, I believe the poor should share with the less fortunate."

Borrowed from the Calgary Construction Association Bulletin.

## LINK

PUBLISHED BI-MONTHLY  
CIRCULATION 3500  
TEL 437-1333

The LINK is a periodical published by and for the students of the British Columbia Institute of Technology, 3700 Willingdon, Burnaby, British Columbia. Neither Administration nor Instructional Staff of the Institute edits or censors the material within. The opinions expressed are not necessarily that of the Student Association.

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# THE READERS WRITE !!

DEAR EDITOR

I would like to congratulate you on your incredibly long run as editor of the newspaper. You have so completely mismanaged this newspaper that many people have begun to wonder how you do it. For five months you have managed to turn out a consistently rotten rag. Surely you must have learned something in the past five months.

Perhaps you are not to blame for this fiasco. Last year we were informed that you were quite capable of handling the job as editor. Perhaps we are to blame for this obvious lie.

The last two issues of the Link were fine examples of your inability to think for yourself. The first time should

have been titled 'Smugler and the Flock sound off' Ian McBean aptly titled it 'Jack's Newspaper.' Then in reply to change that you were one of Jack's little lambs you completely turned yourself around. In your attempt to please as many people as possible and already having appeased the flock, you attempted to make yourself as well liked in other actions by publishing a second issue an anti-Smugler issue whichever way the wind blows so does the editor.

In closing, would it be possible for you to come down off the fence and let us know your opinions on some of the various topics that come up now and then?

Even if you don't happen to see eye to eye I'll feel much better knowing that the editor

of my school newspaper can think for herself.

Leo Dowler

Editor's note: The last two issues of the Link were to present both sides of the referendum story to the students of BCIT and purposefully placed pro-regulations in one issue and anti-regulation in the other. The basic function of this paper is to give the students of BCIT a voice in the issues around campus. If this does not please you I would suggest that you try to define just what the Link should be doing for the students of BCIT. Letters to the editor are in no way connected with the purpose of an issue of the paper. I would suggest that you pop by the Link office one night when the paper is being 'put to bed' and see just what an editor has to go through to get the Link published.

Editor

## COMING EVENTS

Friday Feb. 9

Help Hope Dance  
Sac Building  
7 pm to 2 am  
41.50 per person  
Full Bar facilities

Monday Feb. 12

Open House Committee Meeting  
6:30 p.m. - For all members of the committees, and any technology reps with questions  
Sac Committee Room

Friday Feb. 16

Sac Pub - as usual

Saturday Feb. 17

Engineering Pub-as usual  
"cannon"

Fri. Sat. 16 & 17

Debating Tournament  
Host - B.C.I.T.  
Topic - Should Capital punishment be abolished

Friday Feb. 23

Grease Night  
SAC Building  
7 p.m. to 2 a.m.  
\$2.00 guys, \$1.50 girls  
\$.50 off if wearing grease costume  
Full Bar Facilities  
Teenangel and the Rocking Rebels



# THE BATTLESHIP POTEMKIN

by Jack Smugler

It was 1905 in Russia. The Tsar had been engaged for some time now in the East on a war against Japan. Mighty Russia was supposed to have easily defeated this second-rate power, but instead they were being routed. Their navy had been annihilated, and they were losing land in Asia to Japan's ground forces. The course of the war lowered morale and confidence in both the armed forces and general populace. As well, the costs of this unpopular war were being born by masses of people, and they had little enough to start off with.

Unrest in Russia had been on the rise for many years before 1905. Russia was one of the few absolute monarchies left in Europe, and the Tsar (King) held absolute power. There had been no opportunity in Russia for an evolution of democratic opposition, and as a consequence there was a strong social democratic revolutionary underground movement. The military and economic disasters of 1905 led them to agitate for a revolution. Lenin, Stalin and Trotsky were amongst the leaders. Although several small scale rebellions were successful for a short time, the revolution as a whole was savagely suppressed. One of the more memorable rebellions, immortalized in Eisenstein's classic film "The Battleship Potemkin," was the mutiny on the Potemkin.

The battleship Potemkin had been recently built for the Black Sea fleet of Russia. The Black Sea lies east of the Mediterranean, between Russia and Turkey. The Potemkin was the largest, newest and best of the approximately twelve ships in the fleet. In late June, 1905, the Potemkin went out on manoeuvres.

On June 27, meat was brought aboard the ship to be made into soup for the men. The men could see that the carcass was crawling with maggots, and they complained to their officers that the meat was unfit for human consumption. The doctor inspected the meat, and said it was fine. It merely had to be washed, according to the officer who did not have to eat it. Later, at lunch, the men refused to eat the soup. The captain and officers, fearing a loss of authority, called an assembly on deck. There they asked all those who would eat the soup to step forward. Only a handful out of hundreds did. The chief officer repeated himself, this time threatening the sailors as well.

Again only a handful stepped forward. Next, about 20 sailors were chosen at random, and a firing squad was sent for. As the officer was about to order the men shot, a full-scale mutiny broke out. It was led by Afanasy Matushenko, a Social Democratic agitator aboard the ship. Most of the officers were either shot or thrown overboard, although some sympathetic officers stayed with the men for the entire mutiny.

That evening the men had a meeting and elected a Revolutionary Council to lead them. They decided to steam for Odessa, the largest Russian City on the Black Sea, where they hoped to secure supplies and support.

When they arrived in Odessa the next day, it was to the horror of the authorities, but the general delight of the populace. A small fleet of fishing boats met them with food and encouragement. The Social Democratic leadership of Odessa came out to the Potemkin to make co-ordinated plans.

Odessa was defenceless against the guns of the Potemkin. If the Potemkin had used its firepower, it could have destroyed the city. But, in its two days at Odessa, it fired only two shots, both of them missing their targets and injuring no-one. The reason was the indecisiveness of the men.

There were, in fact, but a handful of true revolutionaries aboard the Potemkin. The rest of the men had generally been swept along at the spur of the moment. Already they were having their doubts, and some even wanted to throw themselves at the mercy of Tsar. The men were very frightened for their individual lives, and this does not make for a good revolutionary.

Meanwhile, in Odessa, the people rose in revolution, expecting the Potemkin's support. Tens of thousands were slaughtered in a matter of days, but still the Potemkin would take no chances. On the fourth day, the rest of the fleet arrived to destroy the Potemkin.

Outside Odessa's harbour they came in two lines. The Potemkin steamed out to meet them, and sailed right through the lines without a shot being fired. The other sailors, although ordered to, would not fire on the Potemkin. One of the other ships even joined them! The Black Sea Fleet retired in humiliating defeat, and it appeared that the Potemkin was supreme.

However, before the day was out, the other battleship deserted the Potemkin in such a way that it was forced out of Odessa. The next few days were spent in a futile search for coal and food, with the Potemkin sailing all over the Black Sea.

Finally, on July 8, the Potemkin sailed into the Constanza harbour of Bulgaria. The crew, hungry and disillusioned, asked for and received political asylum from the King of Bulgaria. The leaders of the mutiny, before leaving, sunk the Potemkin. In this sad and futile way ended the mutiny of the battleship Potemkin, and the hopes for 1905 revolution.

Had the crew of the Potemkin made use of the resources and power at their disposal, they might have been successful in sparking a general revolution that would have swept over all Russia. But they seemed irresolute in their aims, and unprepared to use violence against the violence of their oppressors. As a result even more lives were lost, and the absolutism of the Tsar won a decisive physical as well as moral lesson. The lessons of the Potemkin are valuable to anyone who would change the system, for the tactics hold time for peaceful parliamentary change as well. "Strike while the iron is hot!"

## Controlled breeding of superhumans seen

In addition to the artificial extension of the life span, the preservation of youthful vigor into old age is now conceivable. Even the possibility of earthly immortality is not discounted by some biologists looking further into the future.

Some of the most dramatic medical advances due to biological research have been made in the field of transplantation surgery. Some scientists see a time coming when not only would transplants of hearts, kidneys, lungs and other organs — including possibly even the brain — be routine, but there also could be extensive replacement of human parts with mechanical parts.

The parts would be switched where required. For instance, a human could be fitted with a mechanical heart or a mechanical computer could be fitted with a human brain.

"We could use such computer interaction in humans as well," he said. "We could use these techniques for treatment of intractable pain, anxiety, any kind of brain disfunction. I think it will be possible to control emotions, instinct, behavior ... to eliminate violence and war ... to guarantee peace."

Biologists are learning the facts of life so fast that they may be well on the road to conquering cancer and other human ills, eradicating pain, relieving hunger and making man's stay on this planet generally more comfortable.

Much that is going on in their laboratories, however, conjures up a picture of a future world that is not so cheerful — a kind of sexless, mind-controlled, robot-like society as depicted in George Orwell's "1984."

Neither, with the knowledge presently to hand, could that world be so far off.

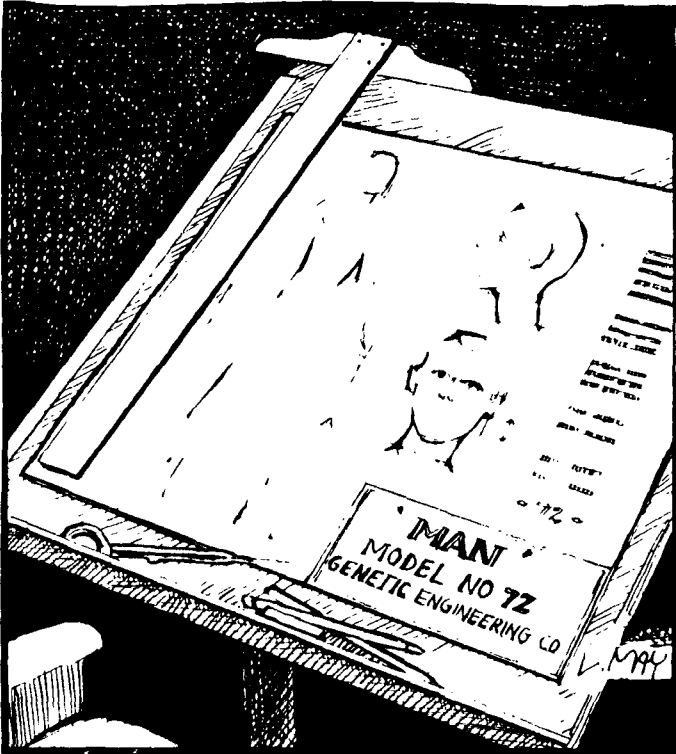
Already, biologists have succeeded in simulating in the laboratory much of the system by which living things reproduce themselves. They have grown test-tube embryos, synthesized hormones, made artificial viruses, produced a man-made gene, the basic unit of heredity which controls all life processes.

The unraveling of the genetic code has given them a better insight into the riddle of cancer, birth defects and other disease. It has led to ways of improving and controlling growth that few but science fiction writers dreamed of a generation ago. References to "genetic engineering," with controlled breeding of superhumans according to a computerized formula, no longer sound so fantastic.

### \*\*\*\*\* INTRAMURAL SCORES \*\*\*\*\*

	GP	W	L	GF	GA	PTS
TECH MAN	3	3	0	32	8	6
ADMIN II	3	3	0	25	6	6
FORESTRY	2	2	0	30	2	4
CHEM & MET II	3	2	1	21	17	4
MARKETING I	3	2	1	21	23	4
FINANCE II	1	1	0	7	1	2
E & E I	2	1	1	17	4	2
C & S II	2	1	1	16	10	2
SURVEY	2	1	1	14	12	2
C & S I	2	1	1	15	13	2
BUILDING II	3	1	2	12	17	2
MARKETING II	1	0	1	3	11	0
E & E II	2	0	2	9	15	0
MINING	2	0	2	2	16	0
PUBLIC HEALTH	2	0	2	2	22	0
HOTEL MOTEL	3	0	3	4	52	0
		0				

\*\*\*\*\*



# RESOURCES AT THE LIBRARY

The BCIT library is accumulating a sizable collection of literature on women. The range is wide - from readings on female psychology to histories of the suffragettes to passionate essays and platforms written by some of the 'on-front' feminists to employment profiles based on government publications, and many more.

Most of the "names" are there - Kate Millet's *Sexual Politics*, Betty Frieden's *The Feminine Mystique*, Germaine Greer's *The Female Eunuch*, Robin Morgan's anthology *Sisterhood is Powerful*. Notably missing are Canadians Ruth McKuen and Sandra Foster's *Women Unite*, *Dialectics of Sex* by Shulamith Firestone and an English translation of Simone de Beauvoir's *Le Deuxieme Sexe*. There are a number of related works on hand too - written by such like Margaret Mead and Ashley Montagu.

For a comprehensive, easy to read, and above all - stirring introduction to the subject of women's liberation, read *The Female Eunuch*. There is so much intelligence and wit and often, sheer poetry in Greer that you will want to read and refer to her book more than once.

Another good introduction to the subject for anyone who has ever wondered among other things, what makes some women organize, denounce the

institute of marriage, demonstrate, etc., - is a book called *The New Women*. It was originally a special issue of the magazine  *motive* that generated enough interest and controversy to warrant publishing in book form. Included are a series of provocative essays, letters, and poems. The cover alone stimulates the mind. It is a long list of female names - real people, fictional characters and art subjects. I recognize Gertrude Stein, Mary Wollstonecraft, Alice B. Toklas, Mata Hari, Clytemnestra and Emma Bovary but who are Mutha Lakshmi, Mary Judge and Jenufa? A good research project.

There are scholarly works such as Dr. Jessie Bernard's *Women and the public interest*. In her summary she makes some good practical suggestions for what women can and should do in order to change public policy and achieve their goals.

The library also has books that look into cultural traditions and political histories of women. There are books dealing with the economics of women's roles in society. And there are those that offer a Marxist solution.

You can find biographies too, such as one on Elizabeth Blackwell, the first woman doctor. Canada too suffers from a shared problem of a death of recognized and applauded women. The names that come to my mind are Pauline Johnson, Emily Carr, Margaret Laurence, Margaret Atwood, Agnes Macphail, Laura Secord and Mazo de la Roche.

But then, one with a few additions gained through reading, has to repeat this list with a sobering and depressing regularity. There is a book called *The Clear Spirit: Twenty Canadian Women and Their Times* at the library. But I feel the editor is pushing it a bit far when she writes that there "is no lack of outstanding Canadian women."

Somehow the book and its subjects lack lustre.

A couple of books that might be of particular interest to people in Administrative Management and Marketing are *The Female Worker in Canada* and *Patterns of Manpower Utilization in Canadian Department Stores*. The last is based on the reports made by the Royal Commission on the Status of Women, which you can look through at the Reference Desk in the library. A non-Canadian book dealing with unions is *Attitudes of union workers to women in industry*. And Janet L. Wolff's *What Makes Women Buy* is catalogued but can't be found (was it that good).

Marvin Zuker has written a book called *Canadian Women and the Law* that is available at the library. And F.A.R. Chapman, in *Law and Marriage*, compartmentalizes what is applicable in Canadian law to courtship right through to divorce (!). The man is thorough.

And then there are the authors that argue the evils of women's liberation. Norman Mailer's *The Prisoner of Sex* makes for infuriating, albeit amusing, reading. Midge Dexter, on the other hand, earns my respect if not my agreement in a very well written book called *The Liberated Woman and Other Americans*. She views the liberated woman as a very self-centered lady and blasts her and other "liberals" - coming uncomfortably close to what is often the truth, with such as: "In short, like the highly emancipated persons we are, our minds are totally the creation of the most fashionable currents of the culture that surrounds us." And Dexter does not exclude herself from these harsh accusations, so she gains credibility, unlike Mr. Mailer.

Besides books, the library subscribes to *Ms.* (but you really owe yourself a subscription to this prize of a magazine if you can afford it because there will be many articles you'll want to keep); and the pamphlet shelf has a women's classification. Just ask Robin or the other good people at the Reference desk.

Finally, a display on the status of women at BCIT (how many girls are there in Surveying? How many girls graduating in Forestry get jobs in that field? etc.) has been suggested as a good idea for Open House. If you have any ideas on how to present this most effectively, any information, any photographs, newspaper clippings, etc. or would just generally like to get involved - leave a message with Debra at the Link Office and I'll get you in touch with Anne, who's getting it together.

And good reading.

\*\*\*\*\*

## YEAR OF THE OX

KUNG HI FAT CHOY

On behalf of the C.S.A. I would like to thank Mr. and Mrs. D. H. Goard, Mr. and Mrs. K. S. Carey, Mr. and Mrs. Phil Henderson, Mr. and Mrs. Bert Cameron, the Administrative and instructional staff and all those who attended the China Night - Chinese New Year Banquet presented by the Chinese Student's Association on Feb. 2, 1973. I am sure that we all agree it was a memorable and enjoyable evening.

I would also like to thank our choir members, kung-fu demonstrators and the Wing Shing Chinese Art, Dance and Music Association who provided the excellent entertainment.

Chinese food is popular throughout the world, but the

chance of attending a Chinese banquet style dinner is rare

to many staff and students. In order to celebrate the coming of the year of ox, our club ventured to sponsor this great and extravagant event. In early Jan.

we planned to have twenty tables that is 200 guests. Due to the demand and participation of staff and members we had to extend the affair to twenty-nine tables.

The pre-dinner was most entertaining; the ten-course dinner was exquisite. Mr. Jun Ling, the C.S.A. ex-president and master of ceremonies did an excellent job.

Despite the prolonged singing time and seating confusion, the China Night - Chinese New Year Banquet was a total success.

In closing, I hope that China Night will continue as an annual event for future Chinese Student's Associations.

YIUMAN CHONG

C.S.A. President

SINCERE APOLOGIES

I would like to extend my sincere apologies to those who missed the event because of ticket limitations. Perhaps future banquets can be held in the SAC Building to accommodate more seating.

Denis Werk  
President Business Society

## EARLY MUSIC

The Vancouver Society for Early Music announces its first concert of 1973 to be given March 11th, 8:30 p.m., in the Queen Elizabeth Playhouse. The third concert of the season will present the BASEL BAROQUE TRIO under the leadership of the renowned virtuoso AUGUST WENZINGER. The Trio is widely regarded as one of the world's foremost interpreters of baroque music; their previous international tours have been received with the highest praise everywhere. Coming to Vancouver directly from Basel, the Trio will offer for viols and harpsichord.

AUGUST WENZINGER teaches viol and cello at the famous Schola Cantorum of Basel and, in his career as soloist and conductor, has made numerous Grands Prix du Disque and two Edison prizes.

HANNELORE MULLER, viola da gamba, studied cello and gamba at the Conservatoire as at the Schola Cantorum and

has won many first prizes at international competitions. She presently teaches at the Academy of Music and The Schola in Basel.

ROBERT CONANT, harpsichordist, recitalist and ensemble performer. Formerly on the faculty of the Yale School of Music, he is founder and director of the Baroque Festival, Saratoga Springs.

Tickets to this concert will be \$2.50 (\$1.50 students) and are available at the Vancouver Ticket Centre, all Eaton's Stores, Duthie Books and Bill Lewis Music.

Membership in the Society, entitling admission to this and the remaining concert, are available for \$4.50 (\$2.50 students) by writing the Society at 2325 West 15th Avenue, Vancouver, B.C. Further information may also be obtained by phoning 732-6026.

# Chinese New Year Chinese New Year

The Chinese Students' Association of BCIT held a very successful banquet at Asia

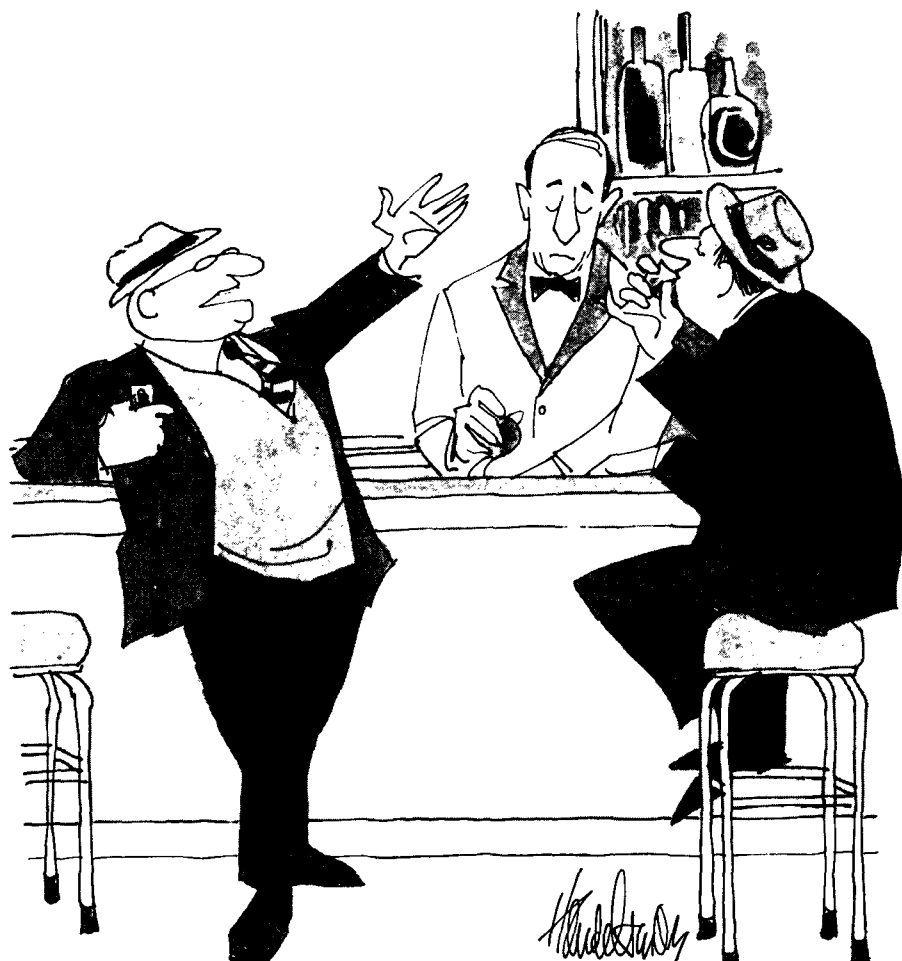
Garden RESTAURANT LAST Friday,

on Chinese New Year's Eve. It was a pleasure to welcome so many staff members, students, friends and especially Mr. and Mrs. Dean Goard on this special occasion. About 300 persons attended the banquet.

As expected the banquet started a little later than scheduled. As Jim Ling, the Master of Ceremonies who conducted the evening with great gusto said it would have been contrary to Chinese tradition if it had started at the exact time! The one-hour floor show presented by BCIT students and the Wing Shing Chinese Art, Dance and Music Association was greatly applauded. Mr. Jen-Ho Yen, the director of the group, gave us some insight of his fine artistic talent and also of the beauty of Chinese culture and art. After Mr. Goard's opening remarks, the vice-president's speeches and the show, everyone did a hearty justice of the excellent ten-course dinner. I think most of us just managed to leave some room for the delicious dessert. It is good to know that there is a good deal of one-upmanship in Chinese entertaining. It is a truism that food is life, but with the Chinese it is also health and a symbol of other good things such as luck and prosperity.

The evening started with everyone singing the BCIT anthem and ended with CSA president's remarks. Each of us had a most enjoyable and executive members of the CSA would like to thank everyone for contributing to the success of the evening. We apologize to those who did not have a good view of the show because of the size and layout of the restaurant. However, we hope to be able to hold the banquet next year in the SAC building so that more people can join us.

Chantal Wong



"That's what I tell my kid. 'Hey, Charley!' I tell him. 'Look at me, Charley. I don't need drugs, Charley,' I tell him. 'Just plain living turns me on.' Right? Just plain living."

## Bob McBride

By CHERYL ROACH

Bob McBride the lead vocalist of Lighthouse has branched out and done his first solo album. Apart from his being the singer for that group, there is nothing in the album that could be recognized as Lighthouse's.

The album was recorded and produced in Toronto at Thunder Studios. All the numbers are written by Bob McBride.

The cut highest in musical aristocracy is achieved with symphony sounds and chimes. *BACK IN MY TIME* is a ballad that happens in another place at another time "along a castle wall", says McBride.

McBride enjoys singing about women. There are beautiful, pretty and moonlight ladies. The one that McBride feels most

emotion for is *FAR AWAY*. Being versatile, McBride moves from tunes like *FAR AWAY*, that are quietly sensitive, to bouncy toe tappers. *TREASURE SONG* reaches that catchy capacity with the help of a piano and a chorus of "Lalala's". *HAPPINESS* closes the album with a bit of melancholy on how friendships grow.

Butterfly Days is the culmination of many years of work, but something McBride has always wanted to do.

Helping McBride with the album are Jim Ackley playing piano, Chuck Aarons on electric guitar, Dennis Melton on bass and Bob McLaren on drums.

It is the kind of album that would go well with a quiet evening at home and would also be enjoyed with the volume cranked up at a boisterous party.

### PRESS RELEASE:

Because of the recent massive bombings of the populated areas of North Vietnam and the continuous bombing of the liberated areas of South Vietnam, a Tag Day Committee to send medical aid to Vietnam has been reformed in Vancouver.

A very successful tag day was held by the original committee in June 1967 and all the proceeds, \$8,415.00, were distributed to all areas of Vietnam.

The principal organizers of the MEDICAL AID FOR VIETNAM TAG DAY are:

Mrs. Theresa Galloway

Father James R. Roberts

Dr. Alan M. Inglis

Rev. Phillip Hewett

Mr. William Stewart (official rep. of the Vancouver and District Labour Council)

Prof. James G. Foulks, M.D.

Prof. Thomas L. Perry, M.D.

Vancouver City Council approved of the Tag Day without hesitation. The Tag Day will be held on FRIDAY, FEBRUARY 23RD, from 11:00 a.m. to 9:00 p.m. in the City of Vancouver.

We expect a tremendous response and therefore put out an URGENT APPEAL for VOLUNTEER taggers to assist.

A.M. Inglis, M.D., F.R.C.S.(C)

FOR FURTHER INFORMATION OR OFFERS OF HELP, PLEASE CALL ONE OF THE FOLLOWING.

224-3842

738-3036

224-0203

228-9557

731-3048

Ladies and Gentlemen I see that you are still in the dark when it comes to hair care????????? Let us help you, we are experts in our field. If you think your hair is in great shape now, keep it that way with out R. K. grooming aids. We're always open from 10 a.m. to 7 p.m. with appointments only after 5 p.m. You ask yourself, who are we? It's no secret, most people know we are the Total Emage Campus Unisex Salon.

# Scattered Thoughts

BCIT DIRECTOR WARNS: NOT FOR THE WEAK HEARTED

Guest Writer: Dave Marshall

Some odd things, very odd things, happened at the student council meeting on Tuesday. I know that many of you will be skeptical, and will say "No way, these things can't happen!" but they can, and they did. I was a witness; saw it all happen.

Around 6:30, the starting time for the meeting, I could tell that something was odd in the air. Before long, the feeling crystallized and everyone knew: There was a quorum of council members! In stunned disbelief, I realized that a full 66.7% of council members were present at a council meeting, not even counting the executive.

The story continues. I will, at this point, remind you that last Wednesday and Thursday, the student body, in a referendum, voted 1003 to 708 to drop the dress regulations. Believe it or not, the following motion was raised, and defeated by council. I read:

"I move that council support, in principle, the majority sentiment expressed in the referendum on dress regulations, and reject, in principle, any disciplinary measures against those not complying with the present dress regulations."

If the motion had been passed, it would have been a simple indication that council backs up the students it represents. It would have also shown that the majority as students are, in fact, represented. Something is amiss in council. Someone's nose is getting brown at your expense. The motion was defeated, without even so much as a discussion.

If all of this sounds a bit extraordinary to you, it damn well should! It seems to me that you are getting righteously shafted! Eleven council members voted for the motion. Eleven council members, it appears, are willing to side with the majority. Perhaps it would be a good idea to find out if your representative was one of them, and if not, what's the big excuse!



# MARKING PROCEDURES

Final marks for each course are weighted marks with tests, term projects, mid-term examination and class participation, all to some degree or other having an influence on the final mark. The particular weighting assigned to each category of test, assignment, etc. is determined by individual course and announced by the instructor concerned.

Procedure is as follows:  
1. Prior to Christmas and May final examinations, each instructor receives a copy of marking instructions. Each instructor is advised that if a calculation yields 48 or 49, the mark is automatically to be raised to 50, similarly, if a calculation yields an earned 50, it is to be changed to 51.

The purpose here is to advise both the department head and the Marks Review Committee that in the former instance a mark had been raised to yield a passing grade and the latter instance, the passing grade was an earned one. The Marks Report to the department head must include for all borderline and failing students, comments on attendance record, term marks standing, comments on student's attitude and class participation and a recommendation on whether or not the marks should be adjusted upwards. Accompanying the Marks Report to the technology head also is a histogram which shows the number of failures for the course, the number of passes, the number of 2nd class standings and the average mark (mid-term) for the course and the average mark (median) achieved by each set (median) the course. Reasons are self-evident.

2. By a date specified this year December 21st, original copies of Master Marks sheets go to the Registrar's Office; simultaneously carbon copies of Master Marks sheets are sent to the department head of the technology concerned where a summary of marks for each student is drawn up and averages are determined.

3. A meeting of all business technologies is then held. In Business, all seven technologies meet at once to facilitate availability of instructors for consultation if required. While meetings vary in duration, no instructor in the Division may leave until relieved by his department head and this happens only when there is no further need of a staff member's services.

At this technology meeting where a student's average is above 64% but below 65%, marks in agreed subjects are raised yield a 2nd class standing; similarly, when the average exceeds 79%, marks are raised in agreed subjects to yield a 1st class standing.

At the individual department of technology meeting special circumstances are identified and discussed and when all are agreed without qualification, including the course instructor, a mark may be adjusted upwards, though usually this is a recommendation passed to the Marks Review Committee.

4. All corrections are then forwarded to the Registrar's Office and a "Failure Broadsheet" is produced on the Computer in preparation for consideration by the Marks Review Committee.

A Marks Review Committee is established for each division. The Business Division Marks Review Committee is chaired by the Director. One permanent

representative from the Administration is appointed (Mr. G. L. Thom); a representative from Engineering or Health Studies sits with the Committee on an alternating basis; a representative from one of the Core Departments on a rotation basis sits on the Committee. Since there are four Core Departments, the Mathematics Department for example, would sit on each of the Divisions Marks Review Committee and then sit out one timoround similarly, with Physics, English and Chemistry. On an alternating basis, the Business Division nominates one department head to sit on the Engineering or Health Studies Marks Review Committee. Three departments head from Business Management, appointed in rotation, flesh out the Business Management Committee.

The Engineering Division and Health Committee is set up the same way, with Mr. J. C. McAdam, the Administration representative on the former committee and Mr. J. T. Field on the latter. Rotation members of the committees ensure uniformity of interpretation across the institute.

5. Prior to the meetings of the Individual Marks Review Committees, the three Directors and the Registrar, sometimes joined by the Principal and Vice Principal, meet to establish the ground rules for the guidance of the individual committees.

6. The Marks Review Committees will meet on the morning selected (this year at 8:30 on December 23) and available for their review will be the following:

- The Marks Summary for each failing student.
- A formal report indicating the distribution of marks for each subject (the percentage of failures, percentage passed, 2nd class and 1st class).
- A Student Progress Report for each student on each failing subject, and
- The Registrar's File on each failing student.

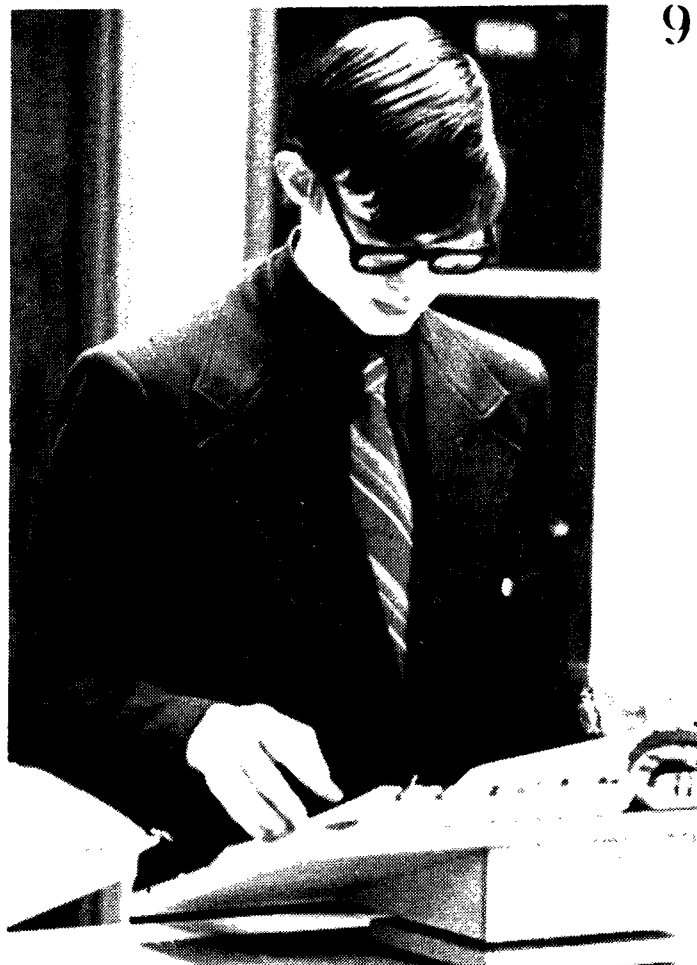
Each student is considered in relation to the set of yardsticks agreed by the Directors, Registrar and Principal, and is considered totally on his individual merits.

7. When the Committee has concluded its review (which takes between one day and one and a half days, depending on workload), if there remain problem cases on which agreement has not been reached, these are passed on to the Directors and the Registrar who meet immediately following the conclusion of the Marks Review Committee deliberations. Generally, this meeting is attended by the Principal. In any case, the Principal is always consulted by each director prior to the confirmation of all marks.

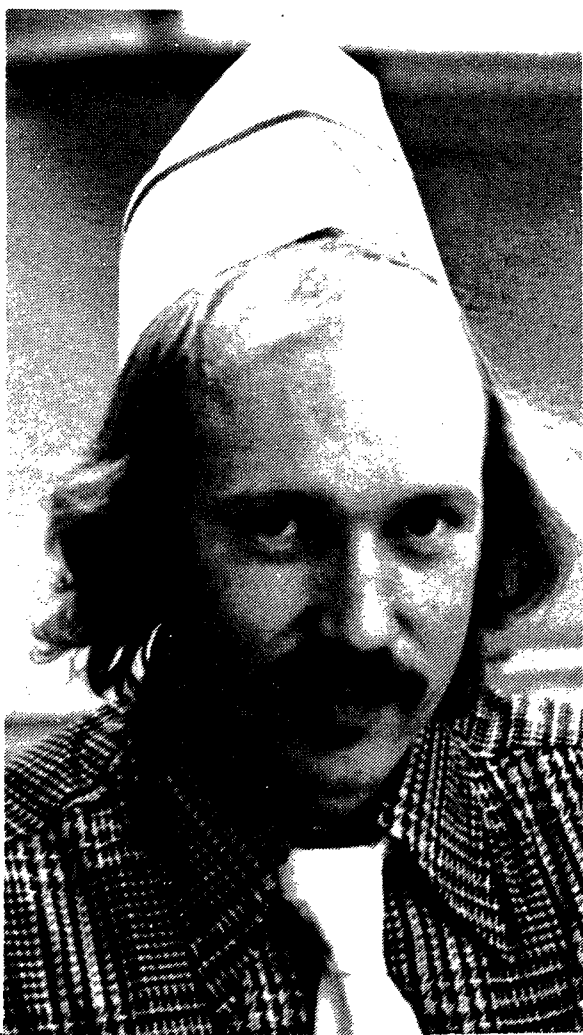
We believe that the procedures detailed above ensure that each student gets fair and thorough consideration and that everything has been done to ensure that there is no discrimination.

Final deadline for mailing of marks is December 29 this year.





# Multiple Reactions



## STOCK SYNDICATE GAME JANUARY 31, 1973

Syndicate No.	Total Profit	Total Loss	Cash Balance
8	\$21,329.67	\$ 377.50	\$10,211.32
9	5,919.25	250.30	426.96
10	1,753.35	231.04	1,288.29 Cr.
13			2,976.80
16			6,798.45
17		422.10	4,909.84
18	221.20		9,300.56
19			2,209.65
21			4,058.44 Cr.
22			302.70
25	763.63		3,354.05
26	522.52		6,608.52
27	5,905.50		10,376.50
28	1,100.07		1,350.43 Cr.
29	103.80		6,885.86
30	9,458.10	570.00	15,915.26
31	1,656.83	40.20	1,555.71 Cr.
36			7,865.25
39	219.36		2,750.04 Cr.
40			4,907.29
41	2,158.75	721.78	8,929.80



**VS**  
enterprises

**SAC  
PUB**

**FEBRUARY 16, 1973**

# Council Briefs

January 9, 1973

TO: ALL COUNCIL  
FROM: P. Henderson  
Business Manager

SUBJECT: Credit Arrangement re Whistler Lodge Project.

The manager of the local campus bank has tentatively agreed to the following financing plan for the Whistler project.

Based on a cost approximately \$20,000.00, and the Student Association paying \$4,000.00 as their initial investment, the bank would finance the balance as follows:

Total credit advanced . . . . . \$16,000

To be repaid over 4 years at \$4,000.00 per year plus interest at 9% per annum, on annual installments of \$4,000.00 per year each Oct. 15. (9% is the current first mortgage rate of the bank)

## Schedule of Costs:

Interest from May 15/73 to Oct 15/73 on 16,000 @ 9% 600.00  
Interest from Oct 15/73 to Oct 15/74 on 12,000 @ 9% 1,080.00  
Interest from Oct. 15/74 to Oct 15/75 on 8,000 @ 9% 720.00  
Interest from Oct. 15/75 to Oct. 15/76 on 4,000 @ 9% 360.00

Lease costs, annual taxes, operating expenses would be extra for each year. It is quite conceivable that the Student Association would have to subsidize these yearly costs also, as the income from rentals etc. of the lodge would not be sufficient. At present, taxes and leasing costs are about \$500.00 per year. As a guess, I would suggest \$1,600.00 per year extra might have to be budgeted for as our subsidy.

## TOTAL INTEREST CHARGES

\$2,760.00

Cost to the Student Association - in 1972-73

4,000.00

1973-74

4,600.00

1974-75

5,080.00

1975-76

4,720.00

1976-77

4,360.00

## TOTAL COST OF FINANCING

22,760.00

# WANTED

## HOSTESS and HOSTS

### apply in SAC office

## OR SEE

Rudy

or

room 32

Sue

# In This Corner

by Roger Morier

Some random thoughts on the end of a foreign war that has so profoundly touched the generations, by one who has read and written about it for a few years.

In 1945, when World War II came to an end, millions filed into the streets of cities throughout this country and the United States to cheer that "peace" had come.

A scant 27 years later, when yet another war comes to an end, the streets of downtown America are strangely quiet. In 1973, the President comes on television, reads his speech and without a sound, America sets its alarm clocks and goes to bed.

And as Mike Royko says, "that's as it should be. There

is nothing to cheer about this time, except that it is over."

If you were asked to come up with one word to describe the 20-year old conflict in Vietnam, what would it be?

Me thinks the word ironic is as good as any. If the Vietnam fiasco was one thing, it was ironic. Or, perhaps more accurately, a series of ironies.

What other word would you use to describe a war, which at times, was fought on an electronic battlefield, a war in which the laser beam and the TV camera played an active role, guiding bombs to their targets. And yet, a war too in which men sometimes used crossbows to kill other men.

What other word would you use to describe a conflict in America backed into without of war, but a conflict America couldn't back out of.

Does not the word irony spring to mind when you are confronted with the fact that there was the most concentrated use of air power of all types in Indochina, that more aerial bombs were dropped than in all previous wars combined - yet at the very end, the infantryman reigned supreme on the battlefield.

Certainly, it is ironic that in Vietnam, at U. S. urging, one of the world's most commagms, to return people to the land, went into force, yet not since the Soviet Kulak purges of the late 1920's and early 1930's were as many farmers forcibly removed from the land.

What other word would you use to describe the first war in history in which there were no true victories, although all sides constantly claimed them.

The word irony fits the set of circumstances in which soldiers were ordered to fight in an incredibly difficult combination of climate, terrain and vegetation. Still, at the same time, never have as many created for the man at the front.

What other word best describes the fact that on the Allied side, soldiers have never been better informed about the events of the conflict, nor worse informed of the reasons why they fought.

Yet on the Communist side, soldiers have never been better indoctrinated, nor worse informed of current events.

Vietnam was at once a civil war, a war between two nations, and a test tube for the great powers to examine their weapons and battle techniques. And yet, it was a war in which the United States placed its own restrictions on what it could do.

If the word irony does not enter your head, then what does?

The ceasefire has gone into effect, and the war is slowly, ever so slowly winding down.

As it does, as a group of friends sit to talk about Vietnam and every meaning of that word, one thinks about the words of Herbert Hoover: "Older men declare war. But it is youth that must fight and die. And

it is youth who must inherit the tribulations, the sorrow and the triumphs that are the aftermath of war."

Or the words of Ernest Hemingway: "Never think that war, no matter how necessary, nor how justified is not a crime. Ask the infantry and ask the dead."

Voices and words form the past - all recorded somehow, so that anyone could have a look at them. And yet so few did, and so a senseless tragedy began.

Or the words of Charles De Gaulle, who in 1961 said of Vietnam to the Americans: "You will find that intervention in the area will be an endless entanglement. Once a nation has been aroused, no foreign power, however strong, can impose its will on it. You will discover this for yourselves. I predict that you will sink step by step into a bottomless military and political adventure, however much you spend on men and machinery."

And at the end of it all, a shaky truce in an unresolved war in a far-away land. 18 years of American involvement

-running hard and fighting hard, just to stand still. Lest we forget, lest we remember.

And still the most touching,

the most moving thing one could read about the whole war was written only last week, in the Seattle Times, an article describing three Seattle residents who would not come home from Indochina.

"Ken Alfstad, Bill Denoff and John Tate - they were hometown boys who grew up in the middle-class homes where their memory still lives.

But there are the dreams they never lived, the pretty girls they never kissed, the sunlit days they never knew. They have been dead for five years. Dead at 19. And life goes on without them."

## Optometrist

J.W. Russell,

B.Sc., O.D.

old orchard shopping centre

WILLINGDON  
AT KINGSWAY  
437-4515

—Courtesy, Industrial Ecology, Washington, D.C.

Within the past few years many quite unfamiliar words and phrases have become common. Most of them are connected with air, water, and solid-waste pollution. Below are some of the more frequently used with brief descriptions of their meanings.

# STOP POLLUTION

## AIR POLLUTION

Contamination of the air can generally be divided into two forms—particulate and gaseous. Particulate contamination consists of minute flecks of solid matter in the air, which often are an unwanted by-product of the manufacturing process. Gaseous contaminations, another manufacturing by-product that's often unwanted, consists of impurities which are not solids and which often cannot be culled by purely mechanical systems.

One of the basic tools for dust—or particulate—collection is the **dry mechanical collector**.

Built to purge coarse dusts in light to moderate concentrations, dry mechanical collectors can be subdivided into two general types—settling chambers and cyclone collectors.

As the name implies, particulate matter in a **settling chamber** is removed when the force of gravity pulls the dust to the base of the chamber. The air is introduced into the chamber at a very low velocity to allow the particulate to fall out more effectively. Since only coarse particles are removed in them, settling chambers frequently precede more efficient collectors.

In a **cyclone collector**, the dirt in the atmosphere is pulled out by centrifugal force, much as gravity works in the settling chamber. The air to be cleaned spins around inside a cone-shaped unit, the relatively heavy particulate is thrown against the walls and falls out the bottom of the unit, while the lighter air tends to remain near the core of the unit, where it is drawn out a duct at the top of the chamber.

Another common and relatively efficient form of air pollution control device for particulate matter is called the **wet scrubber**. Some scrubbers can pull as much as 99 per cent of the dust from the air stream. In operation, these systems rely on liquids to "scrub" out the dirt. This can be done by spraying the contaminated air or forcing it through a series of liquid baths. Depending on the particular application, a number of configurations and variations of this principle can be installed.

Even more effective against particulate matter is the **electrostatic precipitator**. Typically installed in multiples, precipitators are extremely efficient

against dust. Precipitator banks can pull out 99.9 per cent of all particulate. These giant units operate on a principle taught in high school general science classes—the affinity of opposing polarities. Two basic precipitator types are available—plate for dry dust removal and pipe for mists. Operation of both types is the same.

The air to be cleaned passes through a strong electric field set up between a negatively charged "discharge electrode" and the positively charged collecting plate or pipe. As the gas passes through the field, suspended particles pick up a negative charge and are drawn to the collecting electrode.

In much the same way that a bag-type vacuum cleaner entraps household dust, the **fabrie filter** removes dust from the industrial air stream. The air is drawn through a series of cloth bags or envelopes, while the relatively large dust pieces are caught in the bags.

**Gaseous pollution control devices** can be broken down into the following basic types: **chemical absorbers** which rely on a variety of chemicals to suck the polluting gases from the stream before being discharged through the stacks; **chemical adsorbers** which condense the gas on the surface of some hard (typically carbon) surface before discharge; **flame treatments** which either abate the polluting factor, as in the case of odours, or cause the gases to separate where they are held in residence chambers, and **catalytic oxydation** systems, in which the gases are broken down into more easily handled—and in some cases marketable—components.

## WATER POLLUTION

Meeting water-quality standards set by the Federal Water Quality Administration will cost industry \$3.3 billion in the next five years, according to informed estimates.

Water pollution cleanup, or purification, falls into three categories—primary, secondary, and tertiary. The categories generally indicate the amount of cleaning the water is subjected to, primary being the most rudimentary.

**Primary water treatment** includes preliminary screening for sticks, rags, and other debris and

various types of **settling chambers** which, like their air counterparts, are effective against certain types of effluent. While primary treatment does little to improve the quality of the water, 30 per cent of the country's municipal sewerage facilities are serviced by primary treatment systems alone. The business impact of such a statistic becomes clear when one considers that as much as 40 per cent of industry's water wastes are handled by municipalities on a contract basis.

**Secondary water treatment** is comparatively sophisticated. Here, the natural ability of micro-organisms to convert organic wastes into carbon dioxide and water is relied on to do a good share of the job. Aerobic and anaerobic systems are used. In an **aerobic bacterial cleaning operation**, the micro-organisms do their job in the presence of dissolved oxygen. **Anaerobic systems** are used when no dissolved oxygen is present in the water.

**Tertiary water treatment**, as the most sophisticated form of water treatment, is still comparatively rare in application to pollution, although developments in this category show much promise. To a large extent tertiary processing consists of subjecting the water to various chemicals which absorb the effluents, dissolve them, render them harmless, or cause them to coagulate, settle, or rise to the surface of the water where they can be removed mechanically.

Also included in this level are **distillation processes** in which the water is separated from the waste in much the same way as steam rises from the spout of a teakettle. The heated water rises as a mist, is collected and cooled, causing it to turn back into a liquid, effectively isolated from the solids which contaminated it.

**Electrolysis**, which is to water what electrostatic precipitation is to air, is another form of tertiary water treatment in which the particulate pollution is drawn off by means of electric charges.

Although most purely mechanical forms of water purification fall in the primary category, **reverse osmosis** is one that doesn't. Used in desalinization operations, the concept is currently being refined by several firms for water pollution control. In operation, water is forced through a series of membranes which won't let the pollutants through. This concept is effective for even minute particles.

## SOLID WASTE

As air and water pollution standards become stricter, and the equipment to meet the standards more efficient, industry faces the job of managing an increasing load of solid waste. The Bureau of Solid Waste Management estimates that an additional \$4.2 billion will have to be spent in the next five years to upgrade solid-waste collection and disposal facilities to "an acceptable level of performance." And this figure is over and above the \$4.5 billion presently being spent each year on solid-waste management.

While the traditional approach is to gather up the junk and dump it somewhere, increasing pressure is being exerted to find more efficient methods of collecting wastes and better ways of disposing of them. The idea that refuse materials are really resources out of phase is gaining support as businessmen see some chance of cutting down their over-all waste-handling costs through utilization of the wastes.

**Pneumatic collectors** that draw off production-line scrap to a central point use networks of ducts to gather up the material from various plant locations.

Once collected, the waste is often processed in **grinders, shredders, crushers, and compactors** that reduce the volume of the waste load before it is reintroduced to the production line or hauled off.

**Mechanical separators** are being developed to segregate various materials in the waste mix to facilitate reuse of the elements.

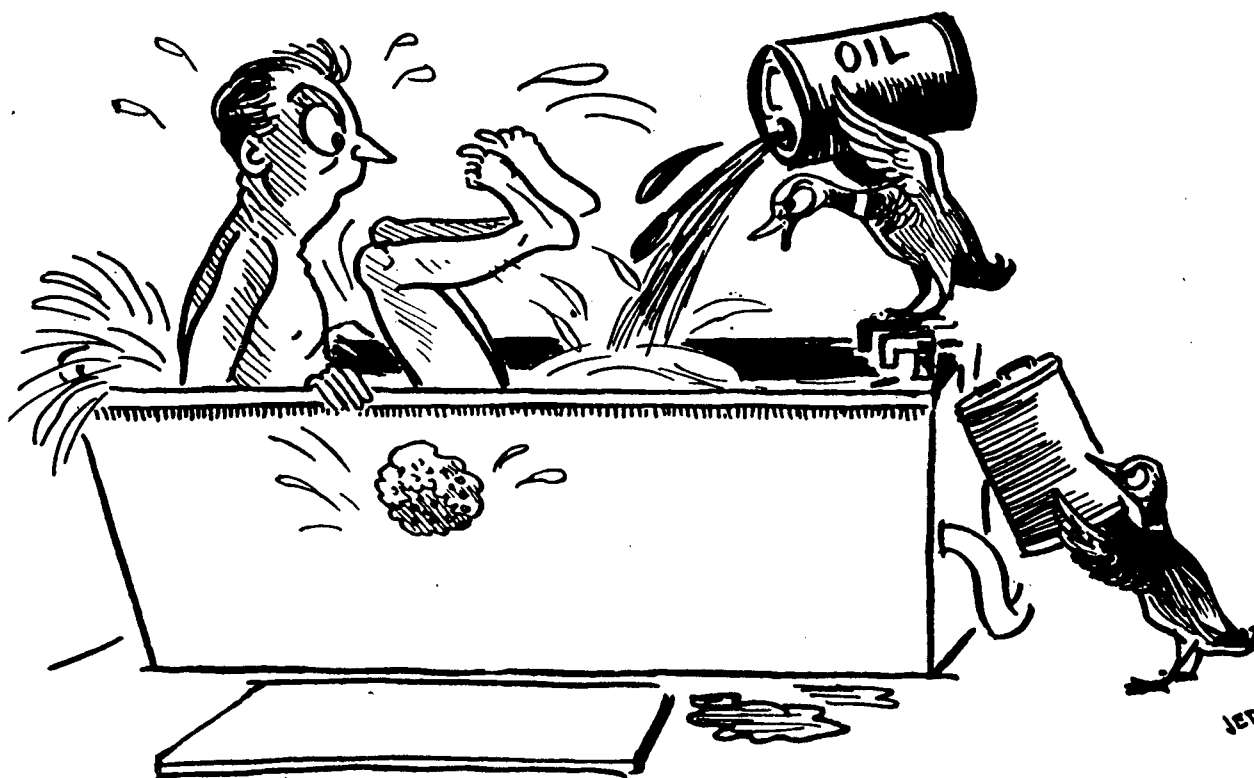
**Incinerators** can be effective in reducing the solid-waste volume. Unfortunately, while addressing themselves to the problem of waste combustion, many contribute significantly to the air pollution problem. Current efforts to improve incinerator efficiency and cleanliness include investigations of **closed incineration systems** which can use the heat thrown off in the combustion process to heat buildings, thereby cutting down on the need for fossil fuels.

**Pyrolysis** is a form of incineration in which the combustion takes place in the absence of air. Indications are that this incineration technique may permit manufacturers to reclaim higher percentages of the wastes consumed than is possible with conventional incinerators.

Charles C. Johnson, Jr., administrator of the Environmental Health Service of the Public Health Service, recently observed that "if we are going to maintain the quality of human life, or even insure human survival, we're going to have to take some long, hard looks at future applications of technology and reassess many of the accepted practices of the past which, with all good intentions, have contributed to the ambiguities, contradictions, and risks of the 20th century life."

**Reclamation, recycling, and reuse** of raw materials from solid waste are three ways in which management is making the reassessment. While the processes are similar, and sometimes referred to interchangeably, reuse denotes use of a material or product, as is, more than once. Recycling takes the product and reintroduces it into the production cycle for the production of the same product. Reclamation consists of processing for reuse as a different product. For example, a soft-drink bottle is reused when the bottler or the housewife refills it; recycled when ground into cullet for the manufacture of new soft-drink bottles, and reclaimed when ground up and used to make structural tiles.

The potential benefit to the environment is, or can be, matched by the happy corollary of improved profits through more efficient use of available resources.



# BCIT OPEN HOUSE

## APRIL 6, 7, 8. '73

TO: ALL TECHNOLOGY PRESIDENTS AND  
DEPARTMENT HEADS

FROM: OPEN HOUSE COMMITTEES

### EQUIPMENT CHAIRMAN

This is the third request for information for the allocation of Audio-Visual equipment for Open House. If this information is not received from your technology by February 23, it will be assumed that no equipment is needed by you for Open House. This date was picked to allow us time to try to get extra equipment from outside resources if the need exists.

Please have your request in as soon as possible.

Al Zanatta, Equipment Chairman  
c/o SAC Office.

### FINANCE COMMITTEE

All technologies wishing to receive money from the Open House budget must submit their proposed budget (up to \$100.00) to the Finance Committee by February 28, (Wednesday). Each budget must be itemized, and each technology will be liable for an accounting of all money spent, and all extra money must be returned. Any questions should be directed to Frank Corker or Al Spetch in the SAC Offices before February 28.

Al Spetch, Finance Committee  
SAC Offices

### INVITATION COMMITTEE

To date, I have received only two invitations lists; one from Building, and the other being Advisory Board of the Health Division.

Please group your lists into three categories;

1. TOP PRIORITY - i.e. scholarship donors, advisory council, larger companies, your public relations invitations.
2. IMPORTANT - i.e. those companies you wish to promote your technology to, and those new companies that you would like to attend Open House.
3. EXTRAS - i.e. if there are enough invitations you would like invites to send to those people.

These lists must be in before March 2nd. After this date new lists will not be guaranteed. These lists must include name, address, position, company names. Make sure that your lists are complete, and do not hesitate to make your lists several hundred names long, if you have that many to invite.

Please leave these lists in the SAC Offices addressed to the Invitations Committee. Also include the name and phone number of the tech rep with whom I can get in touch to finalize the lists.

Sue Chaworth-Musters  
Invitation, SAC Offices

## VALENTINE CASINO NITE

WED FEB 14th  
7:30 to 12:00pm

GAMBLING TABLES crown & anchor  
over & under  
black jack

CELEBRITY PIE THROW

A GREAT NITE FOR ALL

ALL PROCEEDS TO ATHLETICS

SUDS GRAPE DANCE