

THE LINK

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BCIT STUDENTS' VOICE

NOVEMBER 10, 1982



Kevin Brown photo

No. 1 in B.C.

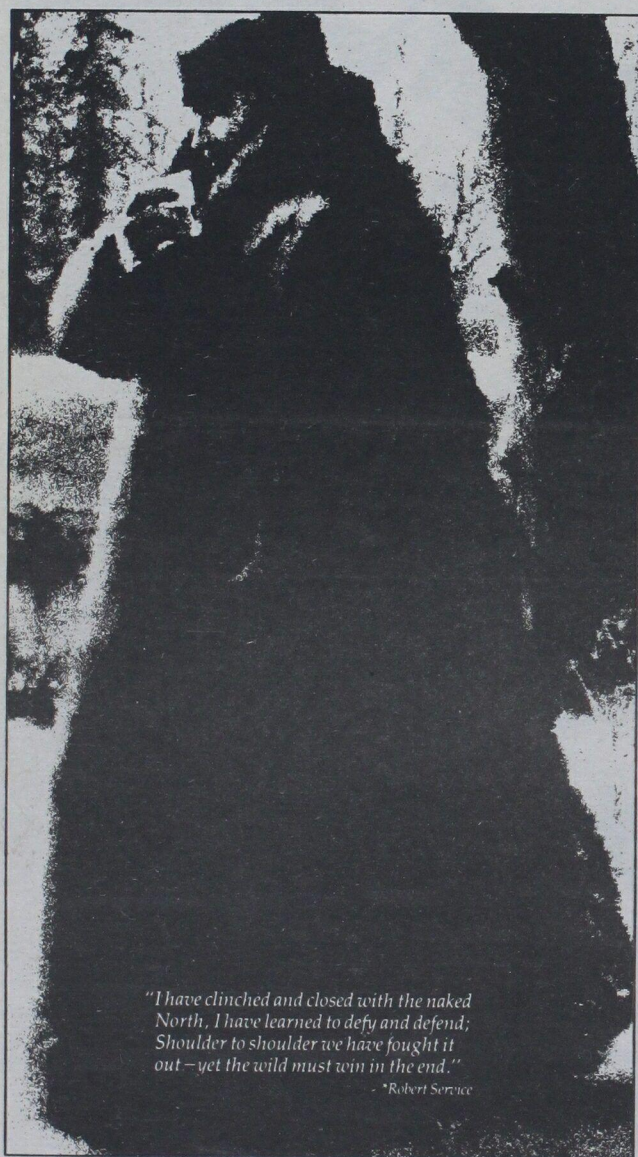
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No news - but let's interface over coffee

by Pamela Post

Headed by **Ken MacKeracher**, the V.P. of Institute Resources and Development - the seven Directors of Student Services essentially took over last Monday's meeting of the SA Executive.

They had come to address the SA on matters deemed to be pressing and important. Foremost, naturally, had to be the BCGEU conflict which threatens to involve the Institute in a major labour dispute which was slotted on the agenda.

When MacKeracher realized **The Link** was present at the open SA executive meeting - visibly disconcerted, he insisted that all remarks made on the labour matter be struck from the record, neither published or recorded in the light of the sensitivity of bargaining.

Tammy O'Connor, President of the SA, visibly disconcerted at MacKeracher's displeasure, requested, without a moment's thought that this reporter be expelled from the entire proceeding.

MacKeracher informed her this wasn't necessary, but insisted that all tape recording devices be turned off immediately.

Control thus established, the meeting then turned to each Director of Student Services, round-table style, to update the SA on new developments in their departments and to answer any questions.

Questions however, from the SA were sparse and rarely hard-hitting.

MacKeracher, without a doubt was the vocal spokesman for the

group. he asked the SA to endorse a new visibility campaign for Administration members involved in student services. He proposed more student accessibility to himself and his colleagues by organizing informal 'rap' sessions over coffee, possibly in the lounge outside the SAC cafeteria. He said students are confused and intimidated to approach members of the Administration and said these informal meetings would provide students with access to student services Directors, "not just the minions, the people you normally interface with".

But MacKeracher made it clear he didn't want to deal with large numbers of students over coffee, "the whole purpose of this is to avoid a forum".

The SA held a consensus vote and approved the idea.

MacKeracher also dealt with the matter of the writ filed against BCIT recently, claiming civil damages in a shooting incident two years ago. He gave the SA a knuckle-rapping over the issue of their accountability in the incident - as technically the SA manage the pub, where the incident originated. MacKeracher said "I get a lot of calls. A lot of people are holding Student Services Directors accountable for you (the SA)" "...as young adults you should be responsible for your actions."

MacKeracher cited a "sly number under the Innkeepers Act" which shifts liability to the corporate entity and exempted the SA from being named as co-defendants in the said writ. He stressed he wasn't blaming

anyone, "just offering information."

MacKeracher also discussed the pub's proposed hard liquor policy. He said he'd held a meeting recently to approve the policy - but had met with a lot of "tub-thumping opposition" due to rowdiness incidents.

However he noted "a lot felt expanding to a hard liquor license would be a positive thing, and might attract a clientele other than hosers".

As to the issue of a student ombudsman, MacKeracher said "we'll take some steps to put it into place."

MacKeracher will also sit on the Ombudsman Selection Committee, representing himself, Elaine Del Gobbo, Registrar, and Jerry Lloyd, Dean of Students.

Brought to light by the other student service directors were:

- the compiling of a student survey by the Library Department to determine library priorities. Rob Roy representing Dean Carver of Library Services said "if hours are deemed a major concern - we'll look to cut other services in order to keep the library open longer."
- a program to enhance awareness and acceptance of the Libyan students to BCIT.
- the opening of 96 new beds in residence slotted for January '83.
- the expected move from the federal government to issue a new, hopefully less complex student loan application.
- the reinstatement of some cleaning and maintenance services affecting the 1A building, the Computer Labs and the Library.

Sidelines

By Danny Rogers

Awesome is the only word to describe the performance of some athletes performing around campus. Since the loss of the extramural program several years back (that excludes the Cougs on the Rugby circuit, but that is another story) the sports scene has become more recreational in nature, but by no means has that limited the effort and calibre of the sports around BCIT.

A good example of this is on the hoop scene. **Res Rowdies** are undefeated in four starts. The men making up the squad include **Roger Valdez**, **Sam Reimer**, **Roger Knox**, who by the way can be heard on our campus radio station CFML, **Peter Cocciolo**, **John Sutherland**, **Bill Waddell**, **Wayne Pedersen**, **Richard Ranfil**, and **Ed Penville**.

These hoopsters have not trailed in any of the games except for a short time in their first match against Forestry. The Rowdies are sitting in first place, two up on Forestry whose only loss came at the hands of the Rowdies. The complete stats for this league and others are listed on the campus rec page.

The Res Rowdies aren't the only team sporting an undefeated record. Among whom are the

Staff team in men's Wednesday hockey, the **Engineers** in Super hockey, the **Building Bulldogs** in flag football, the **Strikers I** and **Twinkies II** in Wednesday volleyball and **Building Beercaps**, **Tigers** and **Alumni 69ers** all from the indoor soccer scene.

Action last week in the Super hockey league saw a couple of very interesting matches played. In the early contest **Health Alumni** upset **Forestry** 3-1. The other game turned out to be quite a battle. It was round two for the **Engineers** and **Business**. The first match up saw the **Geers** handle the **Business** squad with little trouble, but it was not to be on this outing.

The undefeated **Engineers** opened the scoring and held leads of 2-0 and 3-1 until **Lorne Marsh** notched his second and third of the night to earn the tie. It had to be one of the fastest games so far and if these games are any indication as to what is to come the fans that come out to **Four Rinks** will certainly enjoy the action.

The league standings in Super hockey shape up like this: the **engineers** hold down top spot with 11 points (3-0-1); in second is **Forestry** (2-2-0) one point back of them is **Business** (1-2-1) and holding down the basement is **Health/Alumni** with 6 points (1-3-0). By the way, the brackets indicate win, loss, tie records.

The Wednesday league has **Staff** in first with 12 points. **C&S** is one back in second followed by **Gas & Oil** with 10 points and then **Admin Man** with 9 points.

On the rugby pitch the Student Association-sponsored

Cougar rugby team (it is not so much sponsored by the Student Association as financially aided by the SA). Anyways, the side took its third straight victory on Saturday with a 6-0 triumph over Richmond.

The win was the third shutout for the Cougs who now hold a 5-2 record. In the game itself the Gougard had trouble adjusting to a sloppy field but managed to persevere to come away with the win.

The members of the Cougar rugby would like to thank all the students and friends for their support of the Rugger dance two weeks ago. Keep your eyes open for another dance in the new year.

A reminder of the curling bonspiel being held this weekend at the Burnaby Winter Club. If you want more information on this Tech Bonspiel check under the campus rec section of this paper.

Also coming up this week is the start of the BCIT turkey shoot. This doesn't mean the shooting of all turkeys on campus. It is an event put on by the campus rec department and entails the shooting of an arrow into a target with the chance of winning a 10 lb turkey.

There is no skill involved as all prizes (well not all) will be based on scores closest to a certain spot.

There will also be three skill prizes awarded at the completion of the shoot. What the heck, what's a buck for anyways.

mea culpa...

In the article "Health Fair," in November 3's Link, the Cardio-pulmonary Resuscitation display was put on by the St. John's Ambulance Association of Burnaby, not ABC school of training.

the link, November 10, 1982

Man sues BCIT

by DJ Hauka

BCIT is being sued for unspecified damages by a man injured in a shooting incident outside the Student Activity Centre two years ago.

Steven Wood is suing BCIT and his assailant (Ronald Joseph Watton) and has filed writ in County Court on October 20.

The president's office at BCIT waited all last week for the writ to arrive, not knowing that it had already been taken care of. The institute's law firm, Russell and DuMoulin, received the writ on behalf of BCIT, then informed Vice-President Administration Duncan Macpherson. He in turn handed the matter over to an insurance agent. President

Gordon Thom was out of town at the time.

But the man who deals with BCIT's insurance companies, Traffic and Security Head Neal Chadwick, says he wasn't aware that a writ had been filed.

"I was under the impression that legal action had been launched shortly after the incident," he said.

Chadwick said he was contacted by the institute's insurance adjuster two weeks ago, but the writ filed October 20 wasn't mentioned.

BCIT's liability underwriters (Royal Insurance Company) have already assigned a firm to take care of the suit. Grantham's Adjusters will take care of action against BCIT.

Chadwick is not sure whether or not anyone from BCIT will actually have to go to court.

"Someone could be subpoenaed if it goes to court. Anything could happen," he said.

Watton, the former BCIT student who shot Wood, pleaded guilty to a charge of criminal negligence causing bodily harm. Charges of attempted murder and possession of a firearm dangerous to the public peace were stayed by the crown. He received a suspended sentence and is currently under three years' probation.

Student rights

by D.J. Hauka

The administration holds your rights as a student in their hands.

According to SA Treasurer Nicola Candy, the administration is currently examining the student Bill of Rights and is also negotiating with the SA on the office of the Ombudsman.

Candy says the ombudsman's first job description was shot down by the administration over two clauses concerning student/instructor conflicts and investigations of incompetence.

Now it's back to the bargaining table to come up with something both sides can agree to.

"The SA must find something that suits the administration and is acceptable to us," she said.

Now the SA must come up with a description that won't endanger the effectiveness of the new office, which was advertised during last spring's elec-

tions.

But the future of the ombudsman could hinge on the student Bill of Rights, a document outlining the rights and responsibilities of students. The bill was initiated in 1979 and without it, Candy says, it would be hard for the ombudsman to operate.

The ombudsman's office would deal with complaints students had against the institute administrators or instructors. The SA is looking for student input into the matter. They want to know if students want the Bill of Rights passed and an ombudsman's office, or if they're satisfied with things the way they are.

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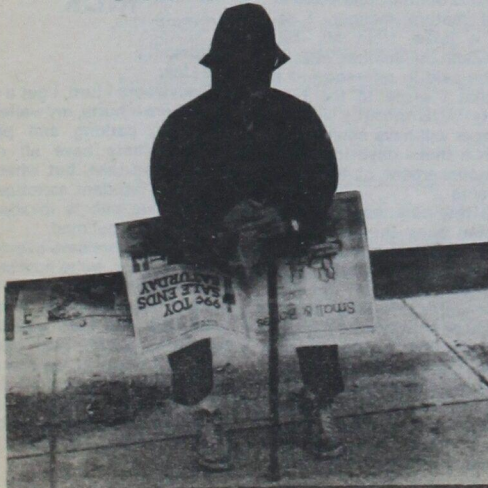


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HAVE YOU HEARD ABOUT IT?



BCGEU...

Strike notice served

by D.J. Hauka

The BC Government Employees' Union served strike notice against BCIT Friday, November 5 and has been in a legal position to go on strike since Monday at 3 p.m.

Shop Steward Dianne Nelson said that negotiations with the administration were still going on, but there had been no movement over wages. They served strike notice, she said, so that any job action taken by the BCIT local would be legal.

She said that this doesn't mean the workers will actually go on strike, and whatever action they take will depend on what happens in this week's round of negotiations.

BCIT President Gordon Thom said he hopes negotiations can continue, but in the event of a strike, he says, BCIT will try to remain open.

"Our intention is to try and carry on the operations of the institute as best we can," he said.

Staff Society meets

by D.J. Hauka

The BCIT Staff Society will meet today to discuss what action they will take in the event of a BCGEU picket.

According to society president Pat Thomas, the policy of the staff in the past has been to urge members to respect picket lines, but that decision was usually up to the individual.

A meeting of tech reps on November 3 passed a motion of support for the BCGEU, which is in a legal position to strike, including not doing work normally done by BCGEU members and honoring any picket lines.

Forty-five Staff Society members were docked a day's wages for respecting a provincial BCGEU picket on September 1.



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Pathetic

"I freely admit I became flustered and lost control. A lot of what he said was important to students and wouldn't have threatened bargaining stability. I'm upset that it's off the record."

Tammy O'Connor, SA President

Hindsight at the best of times is, alas, only that.

What the SA failed to realize, and certainly represent at last Monday's meeting was that there's more to the labour/trouble brewing at BCIT than just management and unions. They forgot their own constituents - the 4100 students who they owe their office to.

When the Administrative heavy in the form of Director of Student Services Ken MacKeracher et al attended their meeting - he at the very least should have been asked to provide some on the record counsel to BCIT students as to the continuance of their education in the event of strike action.

But no - he was allowed to waltz into an open meeting of the exec and brandish his own unique form of martial law. He crumbled democracy as easily as one of the chocolate chip cookies passed around the usual, more sewing-circlish meetings of the exec. Much too formidable a target to be tangled with.

Everybody dazzled by the staccato, tough guy, nice guy talk.

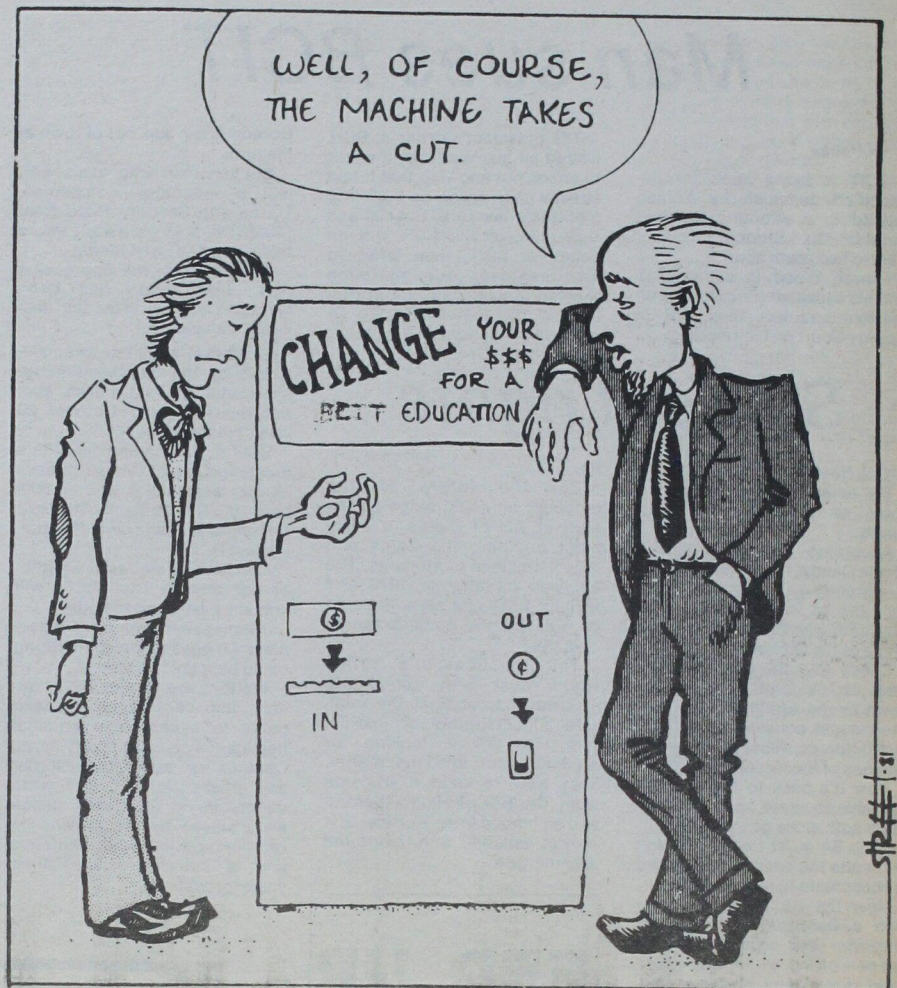
It's enough to make you throw up your cookie.

Mr. MacKeracher could have done his duty very nicely in his role as student services liaison by impartially outlining some important educational contingencies in the event of a strike. He could have laid to Rest a lot of rumours and hear say. But why should he fulfill his primary obligation to students when their representatives are afraid to speak up at their own meeting?

A student government is a political body which should find itself up to the task of dealing maturely and adamantly with other organized bodies.

Ken MacKeracher and the Administration didn't meet with a political entity Monday night - they walked into a milk and cookies party.

I don't know which is more depressing - a student association which turns to mush at the slightest bit of beaurocratic flack - or the beaurocratic flacks whose doctrine is heaped with such obvious, heavy-handed suppression.



Letters should be typed, double spaced, and above all, signed. We will not run letters that don't have a signature and a phone number where we can reach you. The Link reserves the right to edit for brevity, taste and slander. Letters should be no more than 250 words long. Letters in this section do not necessarily represent the editorial position of the LINK.

The LINK presents

THE CONSTITUTION

The Link Publications Society will discuss the society's constitution Friday, November 19, 2:30 PM at the LINK OFFICE, room 31, the SAC.

November 19, 1:30 pm: Editorial policy: The Link Editorial directorship and staff will discuss policy at the Link Office, Room 31, the SAC.

THE LINK

ENTERTAINMENT EDITOR:
Lesley Rae Purdy

NEWS EDITOR:
Pamela Post

TECHNICAL EDITOR
D.J. Hauka

The Link is published every Wednesday, September through April, by the Student Association of the B.C. Institute of Technology. Opinions expressed within are not necessarily those of the BCIT Student Association nor the BCIT administration.

Editorial submissions from all members of the BCIT community are welcome. The Link reserves the right not to publish any material submitted and to edit for taste, length and libel. Any material not typed and signed will not be published.

Deadline for submission is Friday noon.

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Circulation 4000. Listed in CARD.

Bill's nephew writes

Editors,
The Link:

So, the poor little students had a visit from Uncle Bill a few days ago. The poor little students expect their problems to be solved, or receive a commitment from Uncle Bill that he would help solve their problems. They don't receive a firm answer from Uncle Bill. The poor little students tell their friends that the interview was a flop. Waste of time. Minister Gives Few Answers (Link, 3 Nov.). The poor little students get mad at Uncle Bill, because he did not give them anything. Poop on Uncle Bill. Give him raspberry!

Judging from the responses given in the two articles about Bill Vander Zalm's visit, the above scenario seems to have been rampant. Vander Zalm indicated that he was impressed with his visit. O'Connor was not, which came out loud and clear in her reaction: "O'Connor was not satisfied with some of the answers Vander Zalm came up with..."

Who with normal intelligence expects to receive a solution, or a straight "yes" or "no" answer from a minister on his first visit? Instead of accompanying Thom to a reception with the premier, O'Connor should be writing letters to Victoria, and doing some of the work herself, if she hasn't already done so. Getting problems resolved takes time, a lot of letter writing, and persistence. What may be important to

a group may seem mediocre to a politician.

People criticize a politician openly, and yet expect him to act quickly on their problems? Someone needs a remedial course in diplomacy. Mostly, they should act more considerate when the minister visits, particularly when visits are far in between. Instead of using him as a target for guided missiles, why not act friendly?

After taking the trouble to come to BCIT, O'Connor should have tossed out that time-worn ethic of "I wanted to get some idea on this or that," and acted in a more mature manner. I received a letter from Mr. Bill Vander Zalm on October 28th, in which he said in reference to a letter that I wrote to the Link recently "Hopefully your newspaper will have some good news in it these days following the announcement of the student grants..."

Well, the Link has done it again. He takes the trouble to come to BCIT, gives his time in an interview and discussion, and all you can come up with is "Vander Zalm: Nothing Said." Can't you be a little more considerate? Leave the "I spoke to him and he didn't say anything" concept to his detractors.

Mind you, I do give my congratulations to the Link for an excellent piece of journalism. Not in content of the articles, but (gasp) very little spelling errors, and to think they've finally got

his name right. Prime proof boys and girls, that the Link does "write good" when they buckle down!

P.A. Keenleyside,
Transport & Distribution Mgmt.

TYPESETTER'S NOTE: I corrected some of the mistakes in your letter, too.

A good swift kick

Editors,
The Link:

Everywhere I turn, I get a swift kick where it hurts, my wallet.

Tuition, parking and photocopying costs have all risen. These I can take, but when the traditional student sanctuary of the campus pub is invaded by rising costs, I get mad.

Not only do we have exorbitant prices for beer, we're now seeing prices at Growlles rising to inexcusable levels. Last week a hamburger and fries was \$1.90. Now it is \$2.25. That can be explained however, as the quality and quantity have gone down.

I thought the pub was run by the student association to benefit the students, not to "rip them off."

Sincerely,

I. Dodd

No library 'alternatives'

Editors,
The Link:

As a member of the library staff, I was most intrigued to read the letter headlined "Library Alternatives," submitted by Denise Ingram and Kim McCullough. Assuming that the letter was not simply a joke or a severe misprint, I will do my best to reply.

First and foremost, the library hours were not cut to benefit library staff. The cuts were caused by very real budget shortfalls, and they were in no way endorsed by the majority of the staff. We realize that the new hours are indeed more inconvenient to the students, but the matter is not in our hands.

You suggest that the number of staff be reduced and the number of hours be lengthened. Somehow, that solution just doesn't quite jell. To run a library, you need manpower. Increase the hours — increase the manpower. We all work a standard seven hour day, in accordance with the Labour Relations Board. To add more hours and

decrease staff, would call for daily overtime allowances, and most of us are not up to working ten or more hours each and every day.

You also suggest that we close the library during classes and reopen after classes.

Fine perhaps, for your own class schedules, but how about

for those students whose timetables are not identical to yours. Be assured that the library is in use throughout the day, not only by students, but also by the general public.

The work you see being carried on at the circulation, audio visual and listening and viewing counters, is just the tip of the iceberg in regard to the functions of the library. During quieter hours, we carry on with equally important tasks, such as

reshelving discharged books, filing, straightening and general maintenance. I shudder to think how the facilities would appear if this time were denied.

Now for a solution? I wish I could offer a more solid one, but there are ways of demonstrating your support for the future of your library. Return books on time to save costs on software, envelopes and postage. Treat borrowed books with care to save on mending supplies. Do not property of the library as your own, thus requiring it to be replaced. Do not spill beverages

or leave food products on the library work tables, to save on polishes and disinfectants. Last but not least, do not give up your stand.

The library is a vital service to the school, and it is a sorry situation to see that service being deprived. Write to your government, the source of these budgetary woes, and make your grievances intelligent, legitimate and heard.

At the risk of my reputation, please just sign me,

A concerned library
clerical staff member

Bouncers 'unprofessional'

Editors,
The Link:

The attitude of some of the "bouncers" at the Whynot Pub is extremely unprofessional.

At the Hallowe'en dance on October 29th, we witnessed an act of violence against a student of this institution by a "bouncer" that was totally unjustified.

When the dance was over, this particular student was told to guzzle his beer and leave, when all that was required was a general announcement that all patrons drink up and leave.

Naturally, the student responded with a similar attitude and was consequently dragged out of the pub without explanation or compromise.

A "bouncer's" job is to control the pub's environment, not disrupt it.

Perhaps some of the "bouncers" could use a little common sense, or, if that fails, some valium prior to and during their shifts to avoid incidents like this.

Dave Dunn
Jeff Vandermolen
Mel O'Brien

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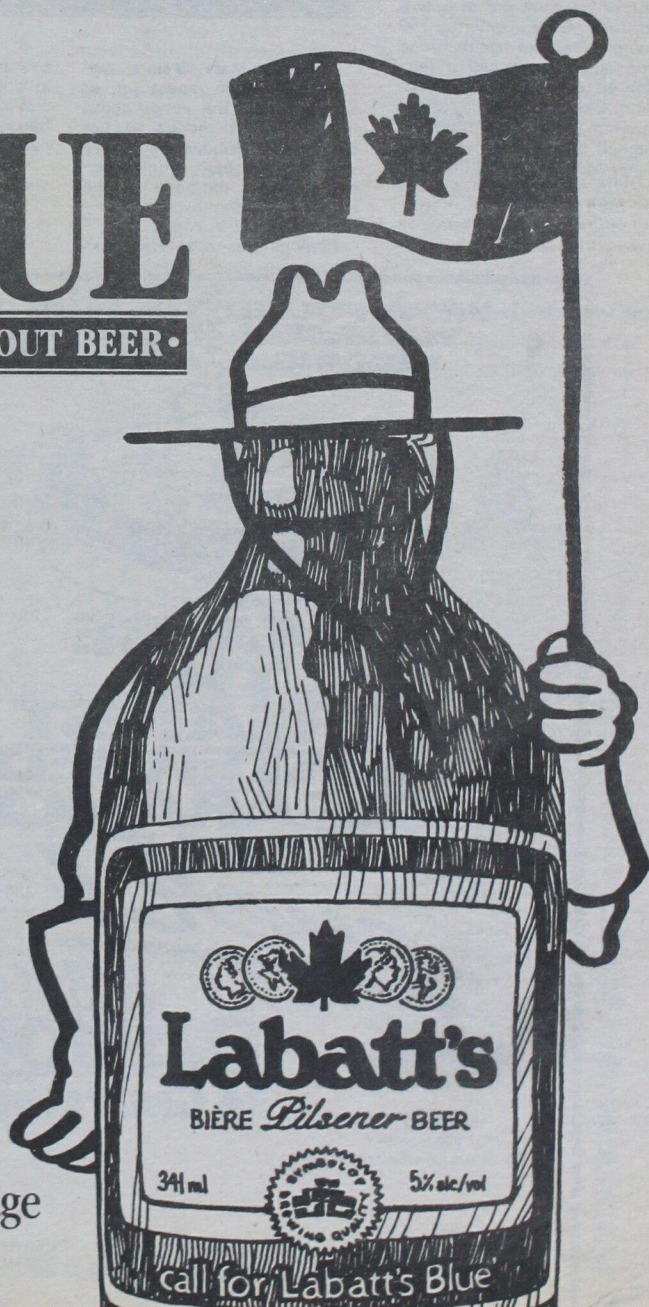
Altogether, there are almost 100 million bottles circulating through the entire system. Each one makes about four trips a year and averages four to five year's service before it's retired and sent back to the glass factory.

Anyway you look at it, that's quite a career.

So next time you think our Canadian beer bottle might look a little homely, just remember that it wasn't built for beauty. It was built to last.

And isn't that what really matters when you're out there making the rounds?

Lesson #19 from the College of Beer Knowledge



The return of Mary O'Hara

by Caroline Brear

"Music speaks louder than words," the lyrics of Mary O'Hara's opening song gave just a hint of what was to follow.

In an enchanting recital of over 20 songs, all which she introduced with eloquent anecdotes, the lovely lady from Sligo, Ireland sang Irish folk songs, a lovely Hebrides number, sung in Scottish Gaelic, old favorites such as "Greensleeves" and "In an English Country Garden", contemporary favorites such as "Being Green", the song made famous by Kermit the Frog, Gordon Lightfoot's "Rainy Day People" and a moving rendition of "The Rose".

Whether delicately seated on a stool, accompanying herself on the harp, or moving gracefully on stage, her song pure and sweet filling the playhouse, Mary O'Hara emits sincerity and warmth.

The artist's Vancouver performance was the seventh of eight concerts in her cross-Canada tour appropriately titled, The Return of Mary O'Hara.

Twenty years ago, after the death of her husband of only a year, Mary O'Hara gave up her singing career (she had recorded seven albums and had a television series on Australian television), and entered a monastery of contemplative nuns intending to spend the rest of her life in silence and prayer. But that was not to be. After 12 years, she left the monastery and began singing again. Five years lapsed between then and now.



Although Mary O'Hara performed a wide spectrum of songs, it was the songs about Ireland, the memories of her childhood in Sligo, college days in Dublin, her early singing career, and her marriage to the doomed poet that evoked a truly compelling sensitivity.

Perhaps her sensitivity was

best portrayed in a Gaelic song, in which she accompanies herself on the harp. The English translation conveys only a small part of the artist's expression.

"All my heart is weary all alone, / And it sends a lonely cry / to the land that sings beyond my dreams. / And lonely Sundays pass me by."

A melting pot of music

by Lisa Bagshaw

You would have heard every kind of music from reggae to rockabilly bop if you had been at the Commodore Ballroom on Friday November 5. The triple bill began with the reggae group called the Nazarites. They made me feel like I should be home bathing my dog instead of being there. But as soon as they raggaed themselves off the stage the night became interesting.

The next band called Buddy Selfish and the Saviors literally saved me. Now this band coerced even the most spaced out dead-beat to jump on the dance floor and jive, twist or just wiggle a lot. This fiftyish Vancouver band has only been together for about a year and is just now beginning to gain recognition.

Already they are a favorite in the East. Buddy and the Saviors' style has been categorized as rockabilly bop but bass player Bob Bondine had this to say about it, "We're a dance band, more basic rock 'n' roll than rockabilly. Put it this way — we're more hill than billy and more bop than hop. We call our music AOR (ankle oriented rock)."

After one set Buddy Selfish and the Saviors bopped off the stage to be replaced by the impossible to pinpoint music of the B-sides. The B-sides began

their set on a similar tempo where Buddy left off, adding a new wave, jazz, off the wall sort of twist. Then their next song was the popular upbeat new wave "Black is Black". It was clear that by the third song bop was out.

But just what was in is questionable. The band started their career as a "positive skin head" band and since then has been classified as a "scar" band. Scar is a cross between reggae and skin head. Not satisfied with this definition I tried to find a better one.

The band's trombone and organ player, Richard O'Gemac, even had trouble defining the type of music his band played. He says a description of their music "depends upon how drunk, tired and hot members are." He also commented that a description of the band just depends on who you talk to both in the band and in the audience. O'Gemac describes four members as being scar, one as being off-the-wall-jazz and one as being off-the-wall-funk.

Whatever name you want to give this type of music the result of the melting pot is definitely interesting and definitely new. It is also definite that if you were at the Commodore on November 5 you would have undoubtedly heard your favorite type of music somewhere in there.

Life isn't a bowl of cherries

by Sam Corea

Life in Montreal's East End. A courtyard full of gossiping housewives. Bitterness and poverty. And the story of Helene. These are the ingredients of

waitress in a greasy spoon, while he sits at home in front of the TV set watching cartoons.

Their life has been reduced to being the local show for the neighbors. They all wait for Helene to come home drunk and have the nightly fight. This night, however, the neighbors are in store for a full revelation of the tragic circumstances surrounding the destruction of Helene's family.

Broken Pieces is full of powerful performances. Maggie Nagle as Helene is excellent as the woman whose life has turned sour. She gives an incredible amount of energy to her role and the audience truly gets involved with her. She is well supported by the rest of the cast who all do a fine job.



Studio 58's latest production — Broken Pieces.

Helene was the most beautiful girl on the block who married the most handsome boy. Things seemed to be perfect for them. Now, 14 years later, she is a



The set is fantastic — full of detail. One can really feel that they're right in the middle of a ghetto-like apartment block. Everything from the cracks in the brick walls to the scattered toys around the courtyard are included.

Broken Pieces is very well done and will definitely stir up your emotions. It is playing until November 20th.

**WE'VE PULLED THE PLUG ON.
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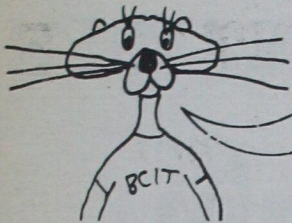
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Intramurals and Campus Rec

Men's Basketball
Res Rowdies 47, E&E 35
Forestry 46, Boozers 35

Co-ed Indoor Soccer
18E Eagles 2, Hammers 1
Alumni 68ers 4, Journalism
United 0
Shinkickers 2, Res 1
Tigers 2, Building Blizzard 1
Prime Time Players 2, Knotts
Forest 0
Building Beercaps 5, Mechanical
1

LEAGUE STANDINGS

Men's Basketball
res Rowdies 12 points
Forestry 10
C&S 8
E&E 6
Boozers 3

Co-ed Indoor Soccer
(Top five teams)
Building Beercaps 15 points
Tigers 15
Alumni 69er's 14
Journalism United 10
Res 10

Co-ed Volleyball
(Top three teams in each league)
'A' League
Dregs 18 points
Nharley Uraneis 18
Rec Facs 16

'B' League
Recs 22
Zigfield Vollies 22
Staff 18

'C' league
Twinkies II 24
Spikers I 24
Privy Council 14

'D' League
BS Bruins 21

Clostridium 16
Med Lab I 14

Flag Football

Game 1: the awesome offense of Building Bulldogs stuttered for a moment when Mech II defense twice sacked the QB then intercepted and ran-back to the 10 yard line. But Mech could not move the ball into the end zone. Final score: Bulldogs 24, Mech II 0. The Bulldogs have not been scored against this year and have totalled 105 points in offense.

Game 2: Was the big battle for 2nd place. Line and backfield play was 'Super Socco', with a number of impressive moves by both teams. Final play of the game was a 20 yard one-handed end zone catch by Gerald Huff of the Waterboys, but it was not enough. When the smoke cleared, Axemen had overrun the Computer Tech Waterboys 13-6.

Game 3: Forestry resources moved into third place tie with the Waterboys with their convincing win over Building Studs. Forestry mounted a running attack that ate up the ground AND ATE UP THE TIME. Final score: Forestry 18, Studs 6.

Bridge and Chess

Bridge and chess fanatics want to get a game together during the three hour break. Meet us in Room 2N-207 today at 11:30 a.m.

Curling

2nd annual Tech Bonspiel Saturday 13 November at the Burnaby Winter Club. \$9 per person, \$36 per rink. Includes prizes, food, dance. Contact Henry Arthur room 1A-223 or Ron Worthington at 939-8475 Wednesday. Limited to 20 rinks. Sign up by 2:30 p.m. Nov. 10. DON'T MISS OUT!

Co-ed Volleyball

Fin Man vs Clostridium 15-2, 15-9
Med Lab 1 vs Humm Balls 3-15, 8-15
Recs vs Spahis 15-10, 15-2
Hostility and Terrorism vs B-20's 9-15, 15-17
BS Bruins vs Mech Tech defaulted to 16D
M&M's vs Nucs at the Net 15-0, 15-1
Volleyball Team deafulated to 16D
Twinkies II vs Privy Council 15-5, 15-0
Nharley Uraneis vs The Dregs 17-7, 15-3
Staff vs Zigfield Vollies 6-15, 8-15
Spikers I vs N2's 15-10, 15-3

And finally, the Rec Facs came back from a 8-0 defeat to beat the Bits & Bytes 16-14 and 15-5. During this game Joanne Hawkins sustained a dislocated finger. Get well Joanne!

Wed. Hockey

Gas & Oil Vapors 5, C&S 3
Staff 7, Forestry 5
Mech. 7, Mining/Tourism 5

T-SHIRT DAY

Most Distant T-Shirt First prize went to a fellow who took the money and ran!! His shirt was from Corfu, Greece. Second prize went to Tonia Jurbin in C&S for her Australian Shirts.

Comedy T-shirt First prize to Jane Stennett, computer systems, for her Frog Jumping Championship Shirt. Second Prize to Mike Verney, Forestry for his ants taking a puff from a 'strange' cigarette.

Unique T-Shirt First prize to Mike Sheane, Broadcast Comm. for his face shirt. Second prize to Trevor Tregellas Electrical for the shirt covered in writing!

Super Hockey

Health/Alumni 3, Forestry 1. Rob Trentini had two big goals to lead Health/Alumni in a penalty filled game. Greg Jansson got their first goal. B. Mills and S. Maricle kept it close with Forestry goals.

Both goalies R. Nightingale and Ed Jerick were spectacular on many big saves with end to end rushes being thwarted time and time again.

Engineering 3, Business 3. All that work and no winner except the fans. Ian Robertson gave Engineering an early lead with two quick goals. John Redenburg's goal held a lead into the third period but Lorne Marsh completed his hat trick 3rd goal to salvage the tie for hardworking Business team.

Engineers continue undefeated but are not running away with games. This is a close league and requires full team attendance to games to survive.

Suspensions: R. Shaffer of Forestry sits out Fri. 12 Nov, as does R. Egdorf of Health/Alumni.

ALL PLAYERS - Our games are non-stop time. We have ice contract for exact time to takes to play two games and clean the ice. The clock does not stop for altercations, injuries or discussions. This is a FUN league. Get on with the game and discuss problems off the ice.

Xmas Turkey Shoot

A bow and arrow target shoot will be held in the SAC Gym from Nov 15 to Nov 30, 1982.

Scheduled Times:
Mondays 12-1 pm
Tuesdays 7:30-9:30 am & 12-1 pm
Wednesdays 5-6 pm
Thursdays 7:30-9:30 am & 12-1 pm
Fridays 12-1 pm.

NO SKILLS REQUIRED

A Turkey will be awarded for every 20 targets. A draw will be made to determine winning score. So, it is not the best shooter but closest to a certain score.

Three skill prizes will be awarded at completion of the shoot for the Best Archery scores.

there will be targets for men and targets for women.

FEE—\$1.00/target.

PRIZES— GIFT CERTIFICATES FOR AN APPROXIMATELY 10 LB. TURKEY!

If sufficient interest the first week of December the shoot will be extended.

targets are large and everyone will have a lot of fun!! Drop in and pull a few strings!



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BE-10 is not a vitamin

by D. J. Hauka

"I think it's a typical Canadian story," Erle Nelson says, leaning back in his chair and smiling. "I think it's typically Canadian that we weren't accepted in Canada until we were accepted in America. It smarted for a while."

Nelson is all smiles now, but three years ago he wasn't. His research project was dying from lack of funds...until the Americans came up the hill to Simon Fraser University with money.

Nelson and his group were developing a new dating technique, and the Americans needed something dated. The U.S. National Science Council gave Nelson cash to come up with a technique to find out how fast Magnanese Nodules grow on the sea floor. Nelson was successful, and having been accepted in the U.S. he finally started getting recognition in Canada.

Nelson and his group have been developing their technique by measuring an isotope of beryllium (Be-10) with a Tandem Vander Graff accelerator.

That may sound a little esoteric, but the research will eventually give archaeologists a more accurate picture of what happened and when; help astrophysicists understand cosmic ray fluxes in our part of the galaxy, and even give other scientists a clearer idea of how our weather works.

Nelson's researchers are examining a lake core that dates back about eight thousand years. What they're looking for is a connection between Be-10 (the new dating isotope) and Carbon 14 (the conventional isotope used in carbon dating).

Both these isotopes are produced in the earth's upper atmosphere by gases interacting with cosmic rays. Carbon 14 forms a gas, and eventually works its way into the entire ecosystem, although it takes many years to do so.

Carbon-14 is radio-active, and because it's in all living things, it's used by scientists to date fossils and other artifacts. When, for example, an animal dies, it stops ingesting C-14. The isotope starts decaying, and archeologists can tell how old the animal is by how much the carbon has decayed.

But there's problems in using the C-14 process. The rate at which C-14 comes down varies somewhat, so there's small variations between 'real years' and 'carbon years.' To check the accuracy of a carbon date, scientists usually check it against ancient tree rings, but the most ancient trees are only about eight thousand years old. And further back, 12,000 years ago, a change in the earth's

atmosphere drastically affected C-14's rate of production.

"Something major happened in the upper atmosphere at that time," Nelson said, "There was a major climatic change."

It may have been increased sunspot activity, it might have been the flipping of the poles. Whatever it was, the change either halved or doubled the rate at which C-14 was produced. In either case, carbon dating isn't possible past 12,000 years.

But while it takes C-14 a long time to deposit and while it's

Preliminary measurements indicate there was no large change in the deposition rate (of Be-10 to C-14) in the lake core," said Nelson.

Nelson's group is composed of seven people at three universities. With Nelson at SFU are Tom Brown, a graduate student, and undergrad Nancy Lovell. There's three people working in Hamilton at McMaster University (where the linear accelerator is located) and Richard Ku gives advice from the University of Southern

accelerator (which can detect very small samples of any substance) because the amounts of Be-10 they're looking for are so small 10⁻¹⁵ of a gram on average.

Brown admits that, to the general public, the research might not seem all that valuable. But people shouldn't be quick to judge 'pure' scientific research.

"It's hard to relate what's considered very basic research to people's lives directly," Brown said, "You could ask the same questions about experiments done in solid-state physics in the 1930's and 40's which lead to the establishment of the semiconductor industry."

"Initially and for several years, it had absolutely no impact. But now, 40 years later, our society is facing a revolution based on semi-conductors."

Nelson agrees with Brown's point, but adds it's also a matter of perceptions.

"The research probably doesn't seem all that valuable to the average Canadian. It's difficult to predict the value of a technique. Obviously, the Americans perceive it as valuable because they came up here with money. The few thousand dollars they offered me compared to the potential riches is just trivial."

The Americans want to mine Magnanese Nodules from the sea-bed: One of the main reasons why they didn't sign the law of the Sea Treaty. Lumps of precious metals that grow organically on the ocean floor, the Nodules, Nelson found, grow about a millimeter and a half every million years.

Another example of perceiving the value of the Nelson project is how the British caught on to it. A few weeks after the technique was simultaneously discovered at SFU and two other universities, a delegation from Oxford dropped by to visit. They went back to England impressed enough to organize their own project, and in a matter of weeks, had 40 to 50 thousand pounds in grants towards it.

Meanwhile, back in Canada, Nelson was being turned down by the government for a five thousand dollars grant.

Now, that's all in the past. They'll soon know just how successful their dating technique is; how well it works is the only real question. And the use of the Tandem vander Graff accelerator for measuring small samples of material is now becoming more and more common.

For a change, there's a happy ending to the typical Canadian story.



very active once on earth, Be-10 is the opposite. It comes down in the form of rain and in the form of Beryllium Oxide, and remains inert. Undisturbed and swiftly deposited, Be-10 is a more accurate and detailed isotope to date with.

Nelson says that, if they find the rate at which C-14 and Be-10 accumulated in the lake-core are about the same, they'll be able to extend their dating back to the 12,000 year mark without using tree rings.

"It looks good so far.

California.

Brown has done much of the work dating the lake core, taking samples of Be-10 and C-14. He's doing his Master's thesis on it, and says the process the project uses will make it possible for smaller samples to be examined, giving more accurate measurements.

"By using a linear accelerator...I think you're going to see a very powerful tool introduced into the field of geophysics," he said.

Brown says they use a linear

A typical Canadian Story