

NAIT Nugget

Thursday, December 13, 1979 Volume 11 Issue 13

Edmonton, Alberta



NAITSA REFERENDUM

Wednesday, Dec. 5 referendum seemed to be met with wide spread approval. There was overwhelming support on all three proposals from nearly everyone who attended. However,

there were some good subjects raised. Most of these objections were dealt with effectively by the council (or Art Hooks).

The main objections raised dealt with the \$10.00 in-

crease in Student Union fees to be effective next year, along with the seemingly undemocratic manner in which the referendum was proposed. All objections were well noted by the

council.

The referendum is designed for students to voice opinions and objections. It was your chance to keep NAITSA in check!

NAIT BLOOD DONOR CLINIC

Last Monday, Tuesday and Wednesday was NAIT's chance to donate to the Red Cross' blood drive, and people, you definitely showed what you're made of.

A total of 634 units of blood was collected --a truly impressive volume-- and that from 4000 students is a percentage of 16% --three times the national average.

Of those 634 donors, over 200 were first time donations. That statistic could stem from the fact that a large percentage of us have just turned the age of majority, but nonetheless, it still is something to be proud of.

To show how much we surpassed our mark, the Red Cross set themselves a quota of 125 maximum per day and expected 100. Well, you hot-blooded NAIT students, 210 of you gave your precious lifeblood per day. Congratulations.

Now, for you students who didn't give, this is what you missed:

When you first enter the door, you are recorded by a NAITSA representative who records the technology you are from. Then, a Red Cross member registers you and you stand in line for half an hour till you can have your finger pricked. That's the most painful part of the whole ordeal. As the blood spurts out, the attending nurse sucks it up into an eyedropper and deposits it into a divoted tray containing all sorts of coloured liquids. By a complex chemical process, which I won't go into, they determine your blood type and iron content, give you a little sticker and a wad of cotton for your lacerated finger, and tell you to go sit on a bench. So there you sit, holding the wad of cotton on your finger and the sticker in your hand, watching your fellow students lying on the couches with hoses stuck in their arms. You start to wonder if you really want to go through with it all. You shift positions and ponder some more. By this time your hands have secreted so much that the sticker is now unsticky. You wonder if the nurse will be mad at you.

Just as you are about to get up and sneak out the door, a nurse with a big threatening grin looks you in the eye and waggles her finger as if to say, "Come on over and we'll have some fun". In a state of hypnosis, (probably due to the blood you lost from your finger) you succumb. She takes you over to a couch and says "Relax, it won't hurt a bit." You believe it the same way

the Americans believed Hitler when he said, "I don't want anything more than Poland."

Before you know it, she's got you trussed up in a blood pressure unit and she's busy putting straps across your legs and chest. Now you REALLY want to go home but it's too late now. There you sit like a pig at the butcher about to be bled.

You look up mournfully at the nurse and say, "Am I going to make it, Doc?" and she responds with a creased brow and a single side to side motion of her head. Now, there's no doubt of it --you're REALLY REALLY worried.

Just as you're contemplating doing something drastic, like swallowing your tongue, a nurse in what looks like a butcher's apron approaches you and withdraws a fifteen centimeter needle with a 25 cm hose from her smock.

She approaches you, teeth gleaming, and muscles bulging. You give up all hope of ever seeing your instructors and fellow students again and slump back in your couch, despair pouring off the edges of the couch. You close your eyes, hoping it will be a quick and painless death.

Suddenly, it's all over, you look down at your arm and the nurse is holding a cotton batting in the crook of your elbow. She throws back the straps and tells you to get up --slowly. She leads you over to another couch and tells you to relax for awhile. So there you sit --this time holding cotton on your elbow. You laugh as you watch your terrified fellow students going through the same traumas of blood donating. Now the nurse leads you to a table and you enjoy a nice bottle of coke and a few cookies. This is the best part of the whole ordeal. As a matter of fact, it makes it worth it all. You leave feeling great knowing that your generosity may save someone else in a car accident or other catastrophe where blood is needed. The next thing you know, you're trying to convince your friend to go. You say, "It's great first they...."

The NAIT blood drive was an overwhelming success due to the generosity of our students. We are planning another drive in about three month's time so come on, people, let's get those red cells growing. Let's go! Breath -in, out, in, out...

Rob Moore

**B.J. COMMENTS**

Recently, the Nugget has been getting a great deal of attention regarding sexism and the sexist content we have been running for the past few years. This issue has received coverage by the Edmonton Journal, the Sun, together with other Alberta newspapers, magazines, and radio stations. Consequently, this matter must be cleared up before it is carried to extremes.

The Nugget is a member of the Canadian University Press (C.U.P.). This is a co-operative organization designed to bring college and university papers together to share ideas and styles in hope of consistently improving journalism techniques. Through C.U.P., Canadian colleges are provided weekly with the most recent college news releases, graphics and national advertising.

In the past, the Nugget's relationship with C.U.P. can be described as pretty shaky. This due mainly to our lack of cooperation and participation as a C.U.P. member. Consequently, the Nugget is now under review and faces expulsion from C.U.P. unless we send a representative to the National Conference in Toronto through the Christmas holidays to face charges of sexism and non-participation. We intend to be there!

Hopefully the National Conference will serve as a foundation from which to build stronger relations with C.U.P.

The charges laid against the Nugget regarding non-participation are justified. However, the charges of sexism are quite vague. We (the Nugget staff) feel that the Nugget is no more sexist in content than any other student newspaper. Therefore, we will be asking C.U.P. to back up their accusations with facts.

The Nugget will keep you up to date with recent decisions stemming from the National Conference.

Bruce Jameson
Nugget Editor

THE TRUE STORY OF HOW THE ANGEL GOT ON TOP OF THE XMAS TREE



'Twas the night before Xmas and trouble was brewing. Santa was fit to be tied. Toy production was down. Most supplies were being back ordered due to the fact that Iranian students were holding the elves hostage. Mrs. Claus had run off with Rudolph (she had a fetish for red noses). And the rest of the reindeer had the trots.

But lo, the irrepressible angel arrived, dragging a beautiful Christmas tree behind him and he asked Santa: "O Jolly One, where shalt I place this splendid foliage?"

Dear Editor,

The 200 odd people who were at the NAITSA Referendum on December fifth made a big mistake on behalf of the total NAIT population --one we will all pay for. They gave NAITSA a change in the constitution, they gave NAITSA an over 58% increase in pay. Why? The reason doesn't make any sense. Before that fateful day section 13 of the NAIT constitution read "Two hundred members in good standing shall constitute a quorum at any general meeting of the society." This seems to be a very reasonable quorum, it's only about 4% of the total student body.

As of December 5th the words "if a quorum cannot be assembled, voting will take place at three consecutive council meetings," were added. Convenient, isn't it? Now, when ever NAITSA feels that the constitution doesn't suit their needs they will simply change it, behind closed doors. NAITSA is now no longer responsible to the student body -the same people who voted them in! Oh sure, students can still go to the council meetings, speak their opinions about future changes. The only difference now is that that's exactly what they will speak -opinions, the students voice is no longer binding on NAITSA. If NAITSA can't even get 4% of the student body out to hear what they have to say you don't change the constitution, you change NAITSA. If 96% of the population are apathetic towards NAITSA it leads this writer to believe that they are not doing their jobs right.

Their 58% wage increase (from \$85 to \$135 month) for the Vice President, Athletics Chairman, Publications Chairman, Secretary, Treasurer and the Activities Chairman (The President's wage stayed the same -- \$4000 per year) was completely unjustified. Let's look at a few of the benefits that the NAITSA Executive receives;

Free Tuition
Free Parking
Free Tickets to ALL NAITSA functions
Private Office

All this plus many other benefits that they don't want us to know about and are keeping silently quiet.

Now, on top of all this, they had the nerve to ask the assembled students for an extra \$50 a month and the students actually gave it to them, with full knowledge of the above benefits. What will they ask for next year? Another 58% wage increase?

Or better yet, how about company cars! The NAITSA Executive is like all other elected parties --get in and get out with as much as they possibly can, because they won't be there for very long.

In future years when the full impact of these changes take effect the only people who will suffer will be the students -you and me. Sad, isn't it.

Ron Sekulich

To The Editor:

The referendum is over and about 200 students sat through a Mafia-Style democracy in progress. I could not help but see the irony when the NAIT Students Association asked for greater voting freedom at their meetings and an increase in salary and then had the guts to ask the 200 to vote under extremely tense undemocratic conditions.

Five Ways to Assure a YES Vote

1. Don't Confuse the Issue with Facts

Let very few know the issues.

Print any information in the paper during exam week when long articles are ignored in the Nugget.

Use big posters with no information.

Hand out confusing figures at the last minute.

2. Accentuate Reasons for a YES Vote

Put supporters on stage with a microphone and prepared statements.

Bury hecklers in the crowd where they can't be heard.

3. Vote by Show of Hands

To get a good look at any #&!%&# (Nurd) who votes against us.

To instill fear and uncertainty.

To hurry voting process so voters don't think about it too long.

To assure that uncertain people vote with their neighbour.

4. Have the question First

Everyone waits to see whether they will be recognized.

Uncertain people caught off guard don't want to look like a late voter.

Wishy washy people count hands and decide to wait for a better show of hands.

5. Take Pictures of Voting Procedure (Front View)

Added fear of recognition
Fear of retaliation from majority.

Fear that friends on stage will be angry.

The logical way to handle a referendum is to allot equal time for and against the issue and then using a piece of paper handed to each voter have a secret ballot which is placed in an empty box. This is democracy.

I think the hostages in Iran have a better chance to gain freedom by voting amongst themselves than did those voters who entered the referendum with the idea of voting against the three issues.

Yours Truly

Shocked Voter.

DR. JOYCE LAMPARD

Optometrist

Park Plaza Mall

No. 11 11840 - 103 Street
Edmonton, Alberta
T5G 2J2
Telephone 474-6237



THANK YOU NAIT!!

says the Red Cross after our blood donor clinic this week. To say it was a tremendous success would be an understatement!! We had 634 people come and give a pint--which is so appreciated, especially this time of the year (our quota was 375--which we almost doubled!!).

Because of the support we had from the staff and students at NAIT, we'll be hosting another one in three or four months, when everyone is eligible again, and for those who didn't make it to this one. Once again, thanx very much.

Best tech turnout is not known at the writing of this article, but will be known very shortly. Don't forget our Santa's Anonymous blitz this Friday, anyone willing to help out for a couple of hours--we'd love to have you! Christmas cabaret is this Friday with Jensen Interceptor (formerly Dickens)--see you there!

A public meeting to hear student concerns

• student housing • day care • quota program • student finance
• international students (e.g. differential fees)

MINISTER'S ADVISORY COMMITTEE ON STUDENT AFFAIRS

Dr. A.G. Scott, Chairperson
11303 - 100 Avenue Edmonton, Alberta
Phone: 482-1847

The Minister's Advisory Committee on Student Affairs reports to Jim Horsman, Minister of Alberta Advanced Education and Manpower, on issues of concern to students. This committee is composed of post-secondary students and public members across Alberta. You are invited to present your views and suggestions to this committee at meetings scheduled at:

EDMONTON
Grant MacEwan
Community College
Boardroom 206,
Millwoods Campus

FRIDAY, JANUARY 11, 1980
9:30 a.m. to 12:00 noon

If you wish to arrange a specific time for a submission, please contact:

Mr. W.J. Ramsay, Executive Secretary
Minister's Advisory Committee on Student Affairs
10th Fl., Devonian Building, East Tower
11160 Jasper Avenue
Edmonton, Alberta T5K 0L1
Phone: 427-8501
(call collect)

EDMONTON
University of Alberta
Gold Room, Lister Hall
SATURDAY, JANUARY 12, 1980
9:30 a.m. to 3:30 p.m.

Alberta
ADVANCED EDUCATION
AND MANPOWER

NUGGET NEWS

TWAS THE NIGHT BEFORE CHRISTMAS

Twass the night before Christmas,
And all through the room,
Things were running smoothly,
Everything was in tune.

DEC gear went whirrrr,
Card punch went chunk,
The operator was thinking,
"We bought this junk?"

After a while,
He finished batch,
The tapes had been loaded,
Some sleep he could catch.

The jobs ran on,
Completely error free,
And why shouldn't they?
With DEC's healthy fee.

FTL and EIA,
Passed through various connections,
What could go wrong,
With DEC PM'ing these contraptions.

But nothing is perfect,
Although it may seem,
Even DEC engineers,
Can't build a perfect machine.

At 2 a.m.,
This great Think-tank,
Decided to blow,
The main memory bank.

Yes indeed,
A very big fault,
Nothing to do,
But grind to a halt.

The lights stopped flickering,
The very first sign,
This electronic nightmare,
Had stopped processing real-time.

So all went quiet,
And it was not very long,
Before the operator woke up,
Wondering what was wrong.

"All has stopped",
With fear he did cry,
Reloading again,
As about all I can try.

His efforts were useless,
In his chair he sank,
After all, you can't load,
With no main memory bank.

"Wo", he cried,
"Wo is me!",
"This all means",
"I've got to call in the CE!"

He called the paging service,
They'd get the CE out of bed,
At least he thought so,
Because that's what they said.

Page and beep they did,
But it just wasn't enough,
To turn on a pager,
That had its power switch off!

On went the night,
No response from DEC,
After all, it's Christmas Eve,
What else could anyone expect.

The operator was getting groggy.
He sank lower in his chair,
When all of a sudden there were noises,
Coming from the Air Conditioner.

There he sat,
Still as could be,
Wondering to himself,
"Are my ears deceiving me?"

But the noises continued,
And louder they grew,
Is it possible,
Something else blew too?

The cover burst open,
On the Air Conditioner,
And out leaped a pint-sized Santa,
And eight tiny reindeer!

"Ho! Ho! Ho!", he cried,
"And Merry Christmas too!
I bet you thought,
I forgot about you".

"Listen carefully,
I haven't much time,
It's snowing outside,
And the weather's bad for flyin'".

"Here my friend,
I have for you,
An electronic marvel,
Something great and new".

"This module here,
That my elves have designed,
Is truly the greatest,
Machine of all time".

"See that chip there,
As big as your pen,
Well that's more powerful,
Than your DEC system-10!"

"The monitor's in ROM,
No loading or fuss,
To use this thing,
Just hook up the console and I/O BUS".

"All the memory you need,
And much, much more,
It's a new kind of structure,
Quicker and smaller than core".

"The MTBF,
Is impressive you'll see,
Because this thing will run for years,
Completely error free".

"Forget about service,
CE's, PM's, and all those aches,
There's no sense in messing,
With a machine that never breaks".

"Now my friend,
With no further ado,
I must be off,
Here's the board and users guide too!"

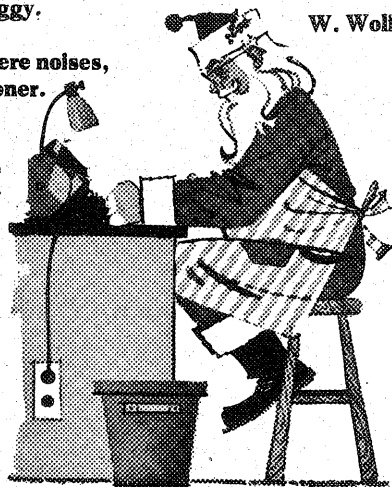
"On Rudolf, Vixen,
Dancer and all,
We have many stops left,
And many gifts to haul."

"Back up that ventilation shaft,
There's nothing to fear,
We do this kind of stuff,
Every year!"

So off he went,
Replacing DEC system-10's,
Crying out loud,
"ho! Ho! Ho!, and Merry Christmas my friends!"

W. Wolinski

list
run



SOCIAL FUNCTION POLICY

This includes any activities put on by NAITSA with liquor involved. Such as Pubtimes, Beerfests, and Cabarets.

RE: ENTRANCE

NAIT ID will requested at the door and only one guest per NAIT Student.

RE: SECURITY

1. Any student(s) or guest(s) throwing fluids (including beer; liquor) will be thrown out.

2. Dancing on tables is strictly forbidden. The party involved will be thrown out. NO second chance.

3. No glasses with any liquor contents will be allowed outside of the cafeteria or arena.

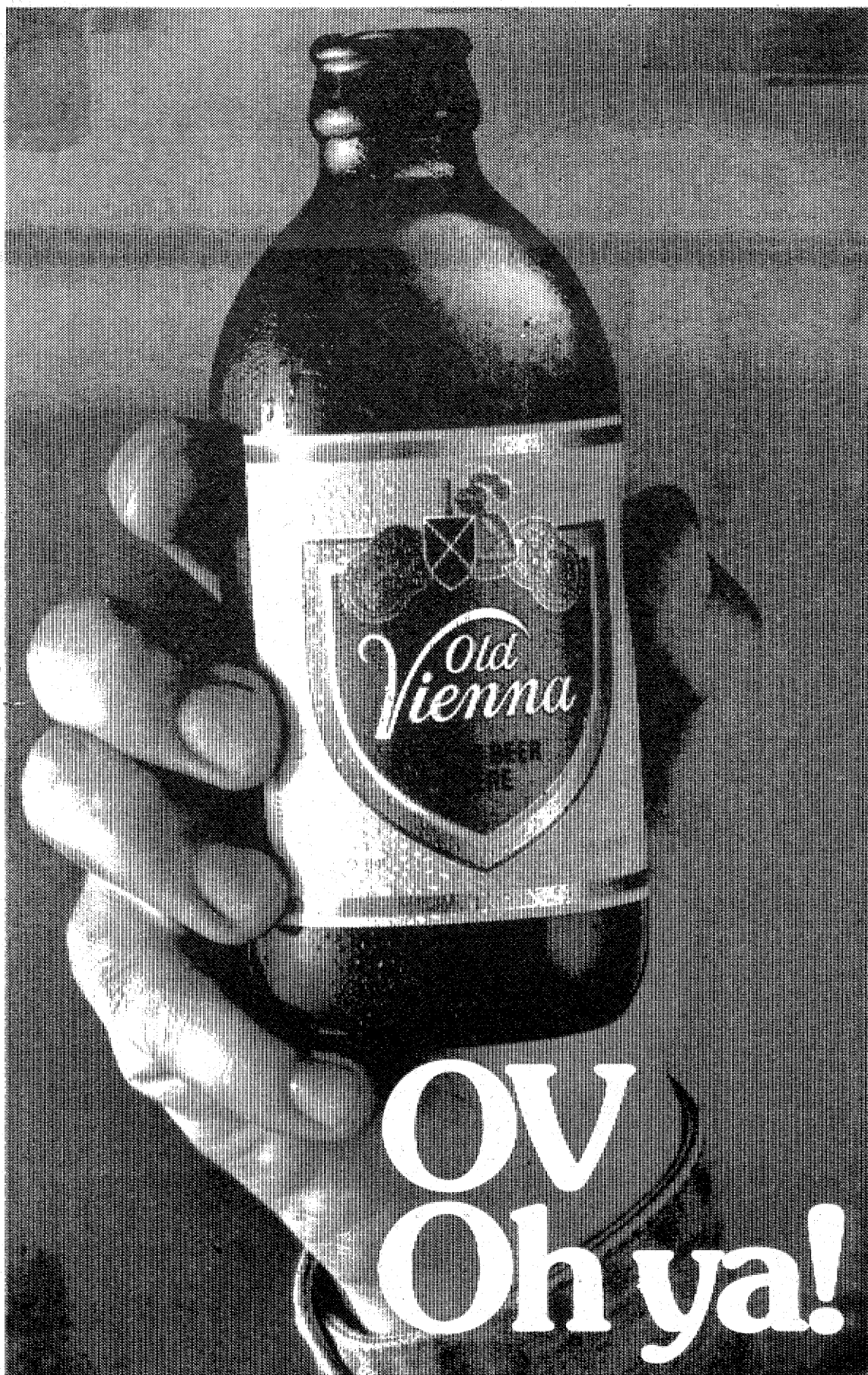
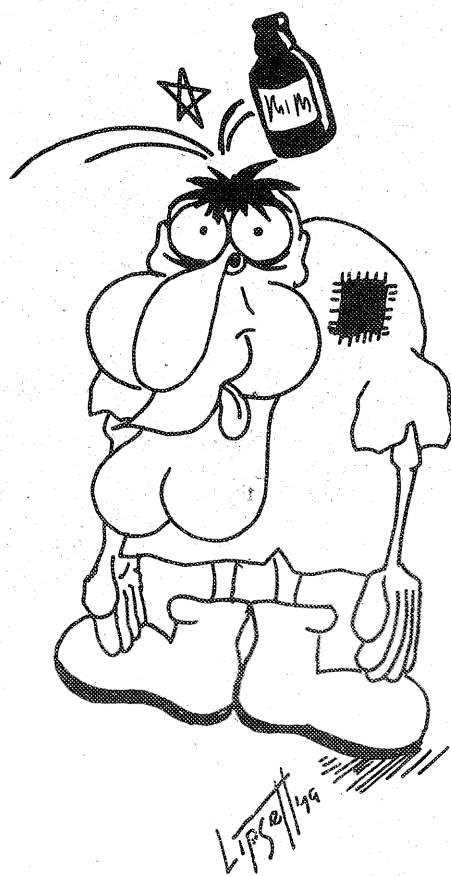
4. No liquor will be allowed on the premises; that is, brought in from an outside source.

5. No jackets or coats will be allowed inside the cafeteria for a function within.

RE: NUGGET

1. Offenders' names and pictures will be printed in the school paper.

2. Pictures and articles of damages occurring during or after a NAIT function will be printed.



NUGGET ENTERTAINMENT



MACLEAN AND MACLEAN HAVE A FUNNY EFFECT ON PEOPLE

Students attending Friday the 7th Pub Time were treated to a performance quite a bit different than the usual stomp & boogie. McLean & McLean, a comedy group from Eastern Canada, brought the house to hysterics with their gross antics.

Originally from Glace Bay, Nova Scotia, McLean & McLean began their career in 1972 as a musical team. During their early musical performances, these two artists began to throw gross one-liners into their act. They soon found the crowds much

more responsive to their crude comedy acts than the music which they had originally began with. So they soon dropped the straight material and became a fine comedy team.

McLean & McLean first came to NAIT in 1974. Since then, they have entertained NAIT audiences on eight separate occasions. Each time they have been met with a warm welcome.

Their different style of comedy can be found on two record albums, Toilet Rock and Bitter Reality. There has been some controversy re-

garding the title of their new album to be released. Titles such as "Take the O out of Country" and "McLean & McLean Suck Their Way to the Top" have been given thought.

McLean & McLean thank NAIT students at Friday's Pub Time for the best response yet! They also thank Art Hooks for his great hospitality.

Looking forward to next cabaret on Friday, Dec. 14, featuring Jensen Interceptor. See ya there!

On the Last School Day of the Decade
Aquila Productions and CIRK 97 FM Proudly Present

Live in Concert

MODELS

also starring

The Smarties

with

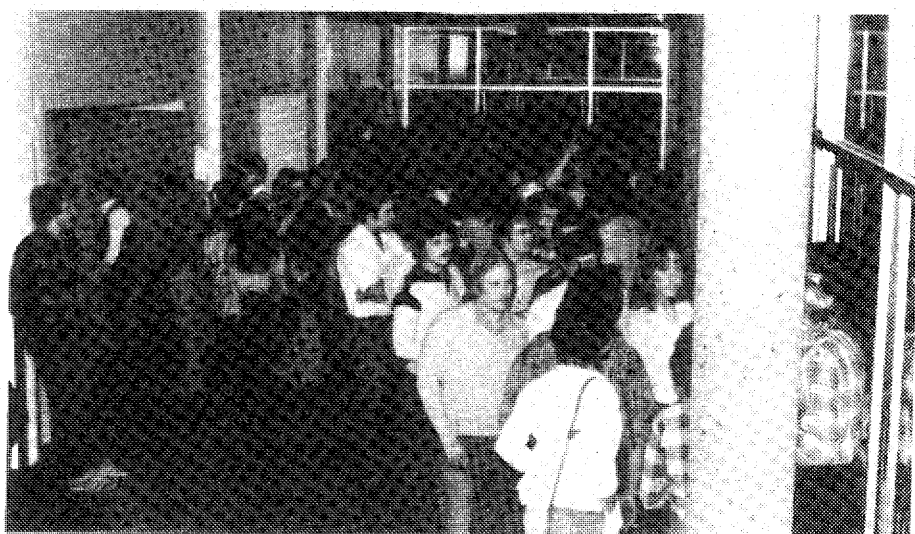
Special Guest Star

**JENSEN
INTERCEPTOR**

Friday

**December 21, 1979
Kinsmen Fieldhouse
8:00 P.M.**

**Tickets at Mike's
\$6.00 Advance \$7.00 Door**



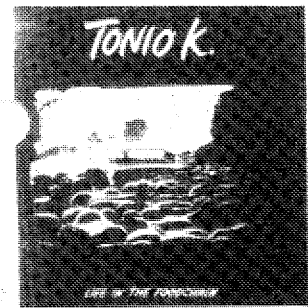
NUGGET ENTERTAINMENT

tuna casserole

Aside from death and taxes, there is one inevitable fact of life that always creeps up around this time of year; awards! Yes, it seems that every critic, large or small, bestows it upon him/herself to name the top ten this, or the top ten that, for the closing year. Well we in the Nugget Entertainment Department are no exception. As it is the thing to do, we have collaborated on the years top ten albums, based on personal preference, critical acclaim and market impact. So, without further ado here our top ten albums, in no particular order.

TOP
TEN
ALBUMS
OF 1979

THE JACKSON --LOOK SHARP
A brilliant album that successfully brought so-called 'new wave' music into the public eye. Jackson writes with a sharp tongue and wit that portrays the cynicism of today's sexual innuendos. The music is bright, energetic and compelling. An excellent debut album.



TONIO K -LIFE IN THE FOOD CHAIN
Definitely the sleeper album of the year. It went by virtually unnoticed. What a shame! This guy's lyrics are incredible. Wacky, but so perceptive. Mr. K was reportedly in a mental institute for a couple years before recording this album. What more do you want? Buy this album and score a point for the underdog.

THE CLASH (Re - issue of their original album)
Punk rock at its most raw, angry and inspired level, reflecting the attitudes of British youth.

GRAHAM PARKER & THE RUMOUR -SQUEEZING OUT SPARKS
Parker was a pioneer in the "new wave" area and he continues to put most of his peers to shame with the release of this brilliant album.

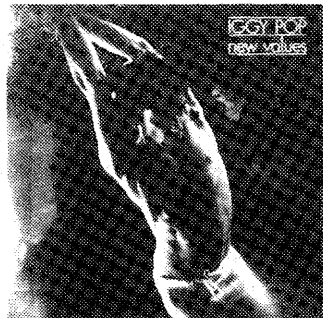
ELVIS COSTELLO--ARMED FORCES
Like his other albums, Costello's 'Armed Forces' grows on you. The sound is pleasantly polished, unlike his pleasantly raw sounding 'My Aim is True'. Although not much different in theme, from his first two albums, 'Forces' is still great. Intelligent new wave.

IAN HUNTER -YOU'RE NEVER ALONE WITH A SCHIZOPHRENIC
Hunter and his sidekick Mick Ronson are both veterans of the rock business and they haven't deteriorated any with age. This is Hunter's best effort since his days with "Mott the Hoople"; even Barry Manilow has covered a song from it ("Ships").

LITTLE FEAT -DOWN ON THE FARM
This is the last record that Lowell George made with Little Feat before his untimely death. It is a fitting remembrance of the talent he left behind.

B-52's
A very original blend of various musical styles, make up a bright and bouncy debut album for this American band. Sort of a cross between 70's punk and 60's surf music that makes superb use of Ventures -influenced guitar riffs, walkie-talkies, toy pianos and weird lyrics. Great party music, even better for dancing. "Rock Lobster" says it all.

TALKING HEADS--FEAR OF MUSIC
This group of four has matured into a very creative and artistic band. David Byrne's music, lyrics and voice are uncomparable, and unique. The band takes chances and breaks new musical ground. For that alone, this album deserves credit.



IGGY POP -NEW VALUES
Iggy is one of those people who has a cult following; unfortunately, that means there are many people who are missing out on something great. Mr. Pop also has spent time in a mental institution in Detroit. He writes with humour and insight, and has penned what could be the best line to come out of this troubled year: 'I wish life could be / Swedish magazines'

Well, what do you think of our choices? Do you agree with us, or have we left out something you're absolutely sure we should have included? Become an instant celebrity --send in your own list of 1979's best (and worst) albums. (You can leave it at the Nugget office in E128, or if no one's there, leave it in the suggestion box outside the door.) Selected opinions will be published in a future issue.

Carol Ann Retallack
&
Dave Darby

AROUND TOWN

	TAVERN	LOUNGE	CABARET
KINGSWAY	Wes Rosko	Bob & Bonnie Clique	Condor
CONTINENTAL INN	Spunk		Privilege
CONVENTION INN SOUTH	Weather		
BEVERLY CREST	Dallas McGee	Holiday	Berlin
CAPILANO	Wheatland County	Plum	
RIVIERA	Sargent	Skye	Closed until Dec 28 --next band-- The Models
HIGHWAY MOTOR INN	Willie Joe Show	Allan Raymond	Hell & High Water
LONDONDERRY	Swan	Good Friends	Passion
REX MOTOR INN	Tacoy Ride	Stu Mitchell	
RENFORD INN ON WHYTE (PEOPLE'S PUB)	Sensation		



TIMES RUNNING OUT...
ONLY A FEW SHOPLIFTING
DAYS LEFT TIL XMAS!

YOU SHOULD BE HERE!

That's right! You should be in the Nugget Office helping to create the famed paper of you glorious institute!

Here, because here is where it happens.

Where all activities and celebrations are celebrated! The Nugget is your paper and we want you to create here, in the Nugget!

The Nugget needs creative people in all operations, Layout, WRITING, Graphics, Entertainment, Sports, Photography...

Get down here soon because Here is where its at.

Contact the NUGGET Office E128.

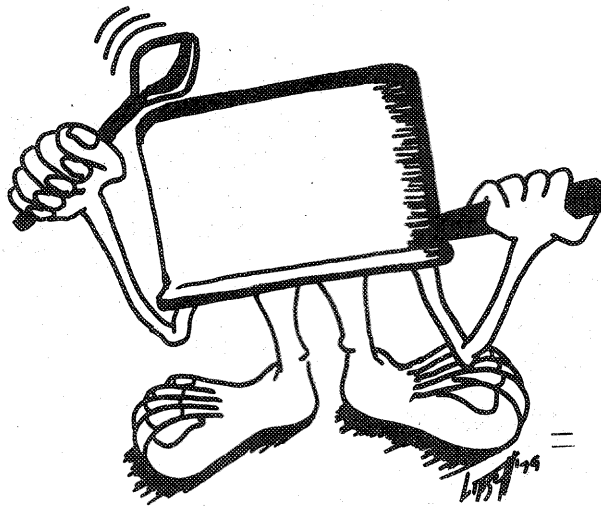
NUGGET ENTERTAINMENT

MONTE CRISTO SANDWICH

--two slices of bread
 --1 slice ham (if on hand
 slices of chicken)
 --egg mixture for 3-4 sandwiches:
 -2 eggs
 -1/2 cup milk
 -pinch salt

Blend the eggs, milk and salt. Make the sandwich and dip it in the egg mixture, coating the outside of each slice of bread. Let the excess mixture drip off. Brown over medium heat in a lightly greased frypan, turning to brown the other side. Serve immediately with a salad.

Berry's Crook



IN THE GROOVES



THE BOOMTOWN RATS--
 "The Fine Art of Surfacing"

A parallel can be drawn between today's punk music and the protest songs of the 60's; both criticize various facets of our society. The difference between the two lies in the fact that the 60's songs offered peace and love as alternatives; punk music has no pat answers to today's problems. Born of the cynical 70's, today's punks offer only disillusionment (and in Britain, where punk's roots lie, this has often led to physical violence).

The Boomtown Rats are very much a product of our times; and on this album they paint a desolate picture of life in general. Most of the songs on the album were written by the group's acknowledged leader, Bob Geldof. In these songs, he takes a swipe at everything from organized religion ("Nice and Neat") to the average person locked into a boring job and a nowhere life ("When the Night Comes"). The title of the album itself, taken from a line in one of the songs, implies that survival is becoming an art; more and more people are going down for the third time, drowning in a sea of disillusionment and boredom.

The band's current single from the record, "I Don't Like Mondays", concerns the true story of the 16 year old schoolgirl in San Diego who opened up on her classmates and teachers with a

gun simply because she hated Mondays; the song points out the utter futility of these killings. Another interesting cut, written by the Rats' keyboardist Johnny Fingers, is "Sleep". This one deals with the idea of overdosing on pills to attain "Sleep" as a means of permanent escape. The tune ends with an eerie, disturbing dream sequence.

In almost all of "Surfacing's" songs, the music has been constructed around the lyrics to augment the images and impact of what is being said. Bob Geldof, on lead vocals, uses inflections to influence the mood. He is quite versatile, sounding like David Byrne of the Talking Heads in places and even, at times, like David Bowie. Geldof has a reputation of characteristic "punk" arrogance; perhaps the closest the listener can get to a glimpse of his inner thoughts is in these lines from "Wind Chill Factor (Minus Zero)":

"It's one of those days
 when I don't like myself
 (uh huh)
 But I get along with me
 O.K. (O.K.?)"

The Fine Art of Surfacing is a disturbing, yet accurate statement on our times; as a friend commented, it's "right on".

Carol Ann Retallack

Record courtesy of Mister Sound, Kingsway Garden Mall.



THE
 NORTHERN ALBERTA
 INSTITUTE OF
 TECHNOLOGY

Cordially Invites
All Those Females in a
Two Year Technology
To Enter
The Annual
MISS NAIT Contest

All candidates must be in the first year of a two year technology, single, have attained a 60 percent or better grade average and a member of good standing in NAITSA.

For more information and entry forms see Paul in E133 or Student Services E134. Completed forms must be returned to E133 or E134 no later than Wednesday, December 14, 1979.



HI MOM

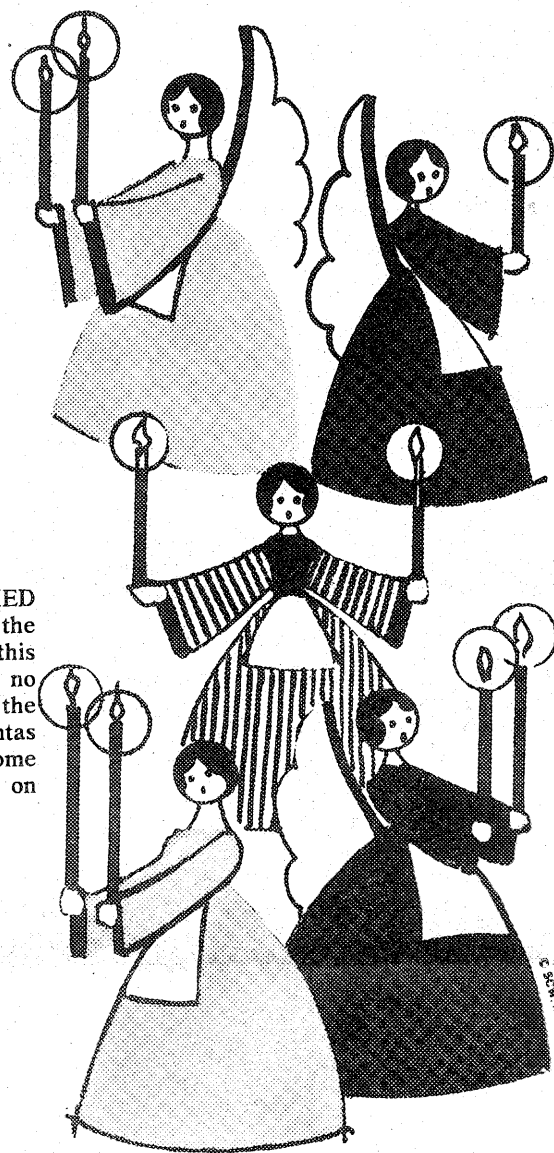
SANTA'S ANONYMOUS

Christmas is a special time of the year, a time for joy and love, a time to share. For children it is ever more special because they can share in the dreams and excitement of waiting for Santa Claus on Christmas Eve. They write their letters to this jolly old man then wait in uncontained anticipation to see if they have been "good" enough to deserve all that they wanted. But for some children Christmas morning will not be a flurry of opening gifts and eating little chocolate Santas from their stockings. It will be a cold uneventful morning with no presents and no stockings.

This is the reason CHED has sponsored yearly a Santas Anonymous campaign. It is to give all those children, whose parents cannot afford gifts, a chance to wake up on Christmas morning and find presents under the tree. To make some poor child's Christmas the happy and exciting time of year that we have all come to take for granted.

NAITSA has always tried to raise money to help CHED in their Santas Anonymous campaign. And each year the NAIT students have always given generously to this worthy cause. I am sure that this year will be no exception. On Friday, Dec. 14 we will be scouting the hallways for donations and giving candy canes and Santas Anonymous buttons in exchange. Please help make some child's Christmas happier this year --give generously on December 14th.

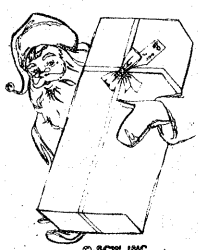
Diana Piquette
V.P., NAITSA



TOYS for Boys & Girls



A GIFT OF LOVE...



Share the joys of Christmas with an unfortunate boy or girl. Give generously to Santas Anonymous on Friday, December 14.

NUGGET SPORTS

PLAYER FEATURE

By Gina Noce
Sports Editor

Kim McLeod may make a great volleyball coach someday. But for now, the signwriting student is content being in a NAIT uniform.

Kim has a lot of volleyball experience. She started in junior high school and then went on to play for Bonnie Doon in the high school league. Add to this two years at Red Deer College.

As a result of her experience, Kim was chosen to be the team captain by coach Bob Buchan. "I had the most experience but I think the team should chose the captain," says Kim.

As captain, Kim ensures the team is psyched up for the game. She does this by talking to teammates both during the game and the warm-up. "I really like to talk a lot in the game and warm-up," says Kim. Kim feels the team's attitude can be the difference of winning and losing. "Once you get down, a team that's 10 times lousier than you can beat you. That's why its so important to get up, because you can then beat a team that's better than you."

The team captain describes volleyball as a real team sport. It suits her competitive spirit. The only drawback in

KIM McLEOD



Kim's mind is the manner in which players are chosen for representative teams in tournaments such as the Can-Am. Kim states, "...they go for someone who has a name. They seem to look at where you played rather than your skills."

The game of volleyball is changing according to Kim. "Game and skills have improved 100% in the past few years." At the college level Kim states more and more staff are being hired for the purpose of coaching Volleyball. "Coaching is very important in volleyball. A coach can make or break the team," says Kim.

The volleyball team notices the half-empty stands when they play at home, but the women try not to let it affect them. Kim believes a loud crowd would make the game more exciting but the team must still be ready to play regardless.

The outlook for the women's volleyball looks very promising. "This year we probably have the best volleyball team NAIT has ever had," reveals Kim. If Kim's word isn't enough to convince you of this, the team's win over Red Deer is good evidence since NAIT hasn't beaten the Red Deer Queens for five years.

Letter To The Sports Editor

Dear Sports Editor:
Please accept this letter as an apology for a misunderstanding on our part. We were not aware that you were not going to be our regular writer. We were not aware of what your duties as Sports Editor were. There was a lack of communication on our behalf.
We apologize for the fact that you took our comments in such a negative manner. We realize that it is not your job to bring fans to our games, BUT coverage will determine the picture a team projects to its prospective fans.

We hope that there are no hard feelings because of this event.
In closing we would like to state that we are pleased with the job our writer is doing. Also we would like to congratulate you for the fine job you and your staff are doing this year in covering the sports scene at NAIT.
Thank you
The Girls Basketball Team

Dear Women's Basketball Team,
Thanks for the letter. It made my day!
Gina

BCET "NO SHOW"

Building Construction, who pride themselves on superior participation and athletic prowess, met defeat at the hands of the Secretaries on Wednesday at 12:45 in the North Gym.
Secretarial challenged BCET to a skipping relay. Each team was to consist of 12 players who had to skip to the end of the gym, turn around and come back, and hand off the rope. First, BCET cried like babies because the ropes weren't long enough. The Secretaries compromised and lengthened the ropes. That was a wasted effort because BCET didn't even have enough players to make up a team; consequently, Secretarial won by default.

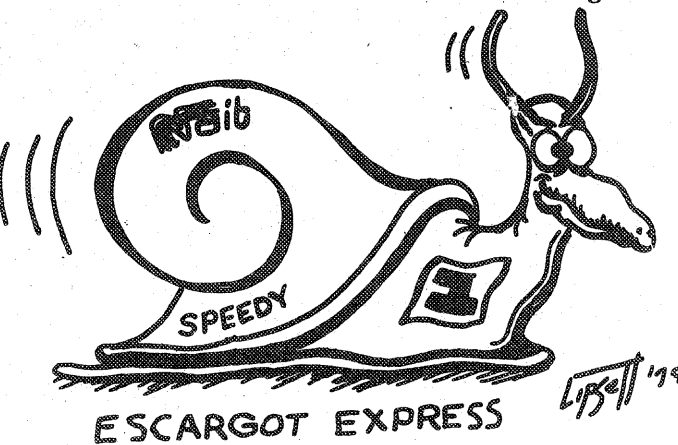
The girls were never worried though, with players like Gene Gerwing who could only skip on the spot (if at all) and others who I'm sure have never even seen a skipping rope before, presented no threat.
At least BCET came prepared for defeat (saw it coming, hey guys). They immediately submitted another challenge to the Secretaries--a Round Robin Wrestling match!! Fat Chance Sheldon!!
NOTE: How come BCET can round up 30 guys on short notice to go to the K-Wing, but when it comes to events that don't involve alcohol, they can't even get enough to make up a golf foursome. Come on, the Secretaries aren't that bad looking.

On Saturday, October 22, two groups of NAIT students met at the gym for a weekend outdoors trip. One group under the guidance of Bob Credo was heading up to Long Lake near Athabasca for a two-day Wilderness Survival and Compass Orientation course. The other group with Joe Huirbelle in charge was designated for a 22-mile hike southeast of Edmonton.
Although a combined total of over sixty students registered for these two courses in September, only 13 showed up for the outing. Joe and Bob came very close to cancelling the trips because of the "no-shows", but the group insisted on going, so they joined forces and went with Bob to Athabasca.
The weather was ideal; blue skies and not a breath of wind. Upon arrival at Long Lake, the group hiked the short distance to camp and then paired off to build lean-to's. Each student was then issued a map, compass, signal mirror, survival book, axe, and snare wire. After numerous demonstrations and explanations from Bob, the group spent the remainder of the day learning new skills about wilderness survival.
Next day found everyone wandering off into the bush on compass excursions after

setting a course. Fortunately, no one got lost, and all returned to camp to practice building a signal fire and setting snares. After disassembling the lean-to's and cleaning the camp, the new "survival experts" hiked out to the awaiting van for the return to NAIT.
In spite of having a fantastic weekend, not only for having enjoyed the outdoors, but also for learning some survival skills. I'm sure everyone felt sorry for the students who did sign up for the course but didn't make the effort to show up. If they had, they could have learned something that some day may save their lives.
NAIT offers a series of programs called "Outdoor Education Courses." The courses including canoeing, backpacking, Wilderness Skills, Skiing, Winter Camping, and Nature Interpretation are offered to all full-time students. The courses vary each term, and constitute a 1- or 2-day trip during the weekend as well as class room lectures. Equipment necessary for the trips are supplied by NAIT free of charge. Students can receive credit on their program for completing any of these courses, just like a phys. ed. class. This term, Wilderness Skills, Winter Camping, and Cross Country Skiing are being offered.

SUPERFAN COMPETITION

Acct. & Fin.	19
Architecture	19
Marketing	13
Admin Man.	10
BCET	7
Computers	6
Secretarial	6
Electronics	5
Civil	4
Air Cond. & Ref.	3
EDDT	3
Bio-Vet	3
Dental Assist. Lab	1
Electrical	1
Mill & Carp.	1
Telecomm.	1



NUGGET SPORTS

Athlete Of The Week



Louise Carignan Ookchicks Basketball

5'4" Ookchick rookie Louise Carignan went on a scoring spree last weekend putting down 57 points and leading the "Chicks" to several consecutive wins over Grant MacEwan Community College and Red Deer College. Shooting over 50% from the floor, "Lou" more than doubled her season output increasing her scoring average to 15.3 points per game. A first year student in Med. Lab., Louise hails from Morinville where she played basketball at G.P. Vanier High School. Louise's hustle will play an important part on how the Ookchicks fare in the second half of the league schedule. Keep up the good work Lou!

Women END Five Year Drought

Yes! Up till Saturday NAIT had not defeated Red Deer College in Womens volleyball play for 5 years. During this time Red Deer produced teams that won the National College Championship. Defeating Red Deer in womens volleyball is similar to defeating Mount Royal in Mens basketball.

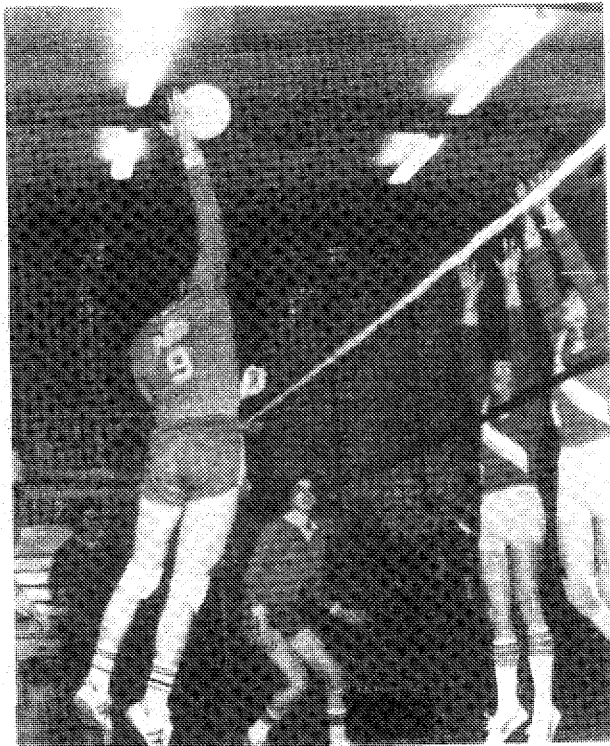
In a gripping seesawing five game match NAIT came through in the fifth game. NAIT won the first game 15-11 in a game that took half an hour to play. Red Deer came back and took the second. NAIT won the third 15-12. In the fourth NAIT held a 10-5 lead and it looked as though NAIT would win in four. However, Red Deer came back and won 15-13. In the fifth and deciding game Red Deer got away to a 7-2 lead; for a moment it seemed that Red Deer may just walk away with the win. However the NAIT Ook spirit came through and our women rallied magnificently to catch and go ahead of Red Deer.

NAIT got to 14-7 and seemed almost certain of victory. However, Red Deer started to come back, but our girls blocked magnificently and secured the victory.

This was an important victory for NAIT as it now puts us second with Red Deer. As volleyball is a team or unit game it is difficult to mention outstanding performances because in order to play well all the team has to have is good games. However, the captains Kim McLeod and Danita Loren-schiet greatly inspired the team. Shelly Listhaeghe did a great job when she came off the bench in the fourth game. Her performance will give her great confidence for the rest of the season.

Setter Melody Craig had the best game of her volleyball career.

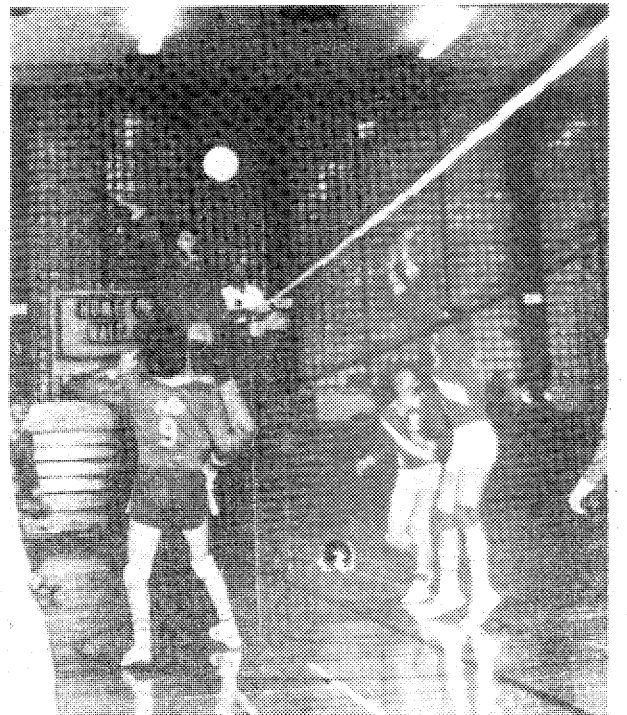
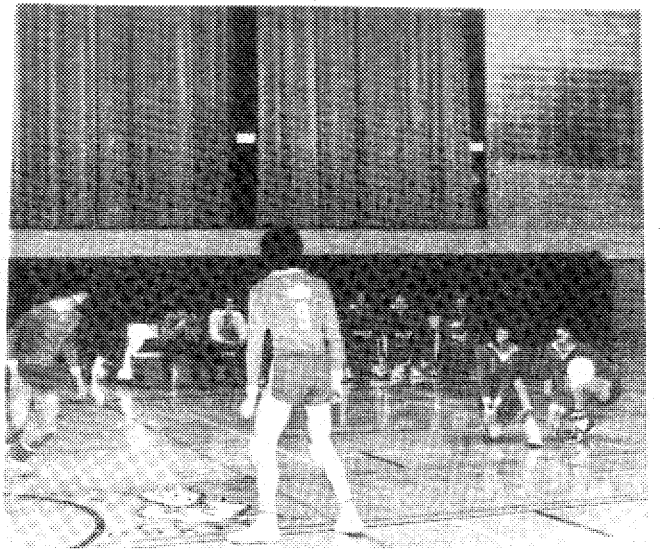
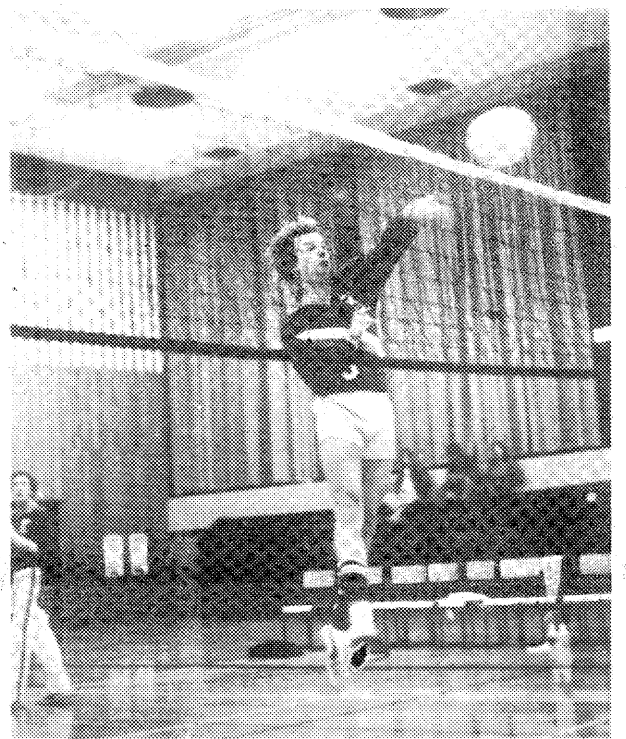
This was a great win for the Ookchicks but they still have a lot of hard work ahead if they wish to nail down a play-off spot.



Men Hold BEST League Record

NAIT's Intercollegiate volleyball team is the only team in the northern division of the A.C.A.C. to be undefeated. Their 5-0 record is tops in Alberta. The twelve man squad has been steadily improving and this last weekend came up with a solid team effort. Darren

Tomecek, one of the veterans, is finally back into his old form, & was a big factor in the weekend's wins. It looks like the team has really developed a winning attitude which is essential for any winning team. Let's make it a New Year's resolution to show our support for these hard working athletes.



NAIT KARATE CLUB

Contact Wayne 431 Grey for
times

Beginners and Advances
Welcome



Lipsett '79

NUGGET SPORTS

Ooks RUIN Grant MacEwen's Record

By R.J.K.

Mission accomplished! The Cinderella Griffens have been brought down by the high flying Ooks. Right from the beginning it was evident what the final result would be. NAIT simply has the better team, and the Ooks themselves are finally realizing this.

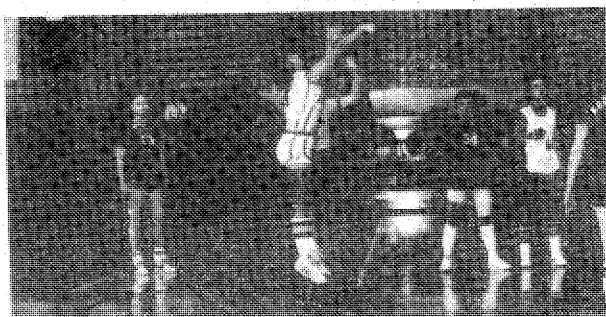
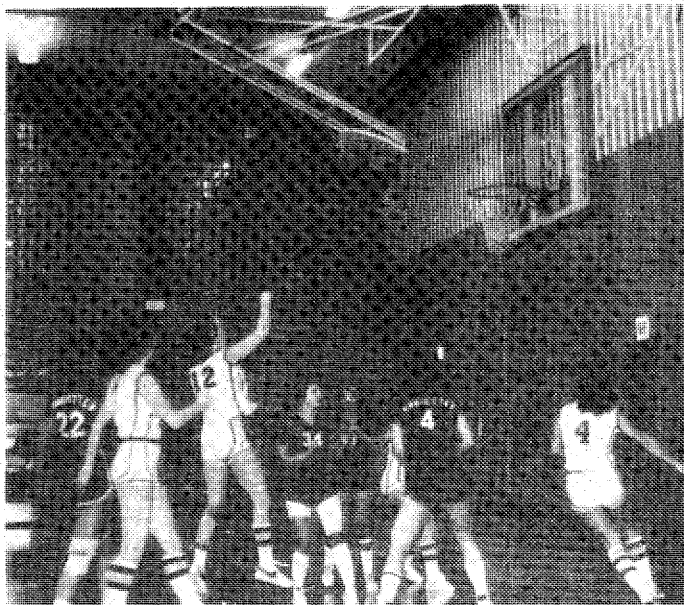
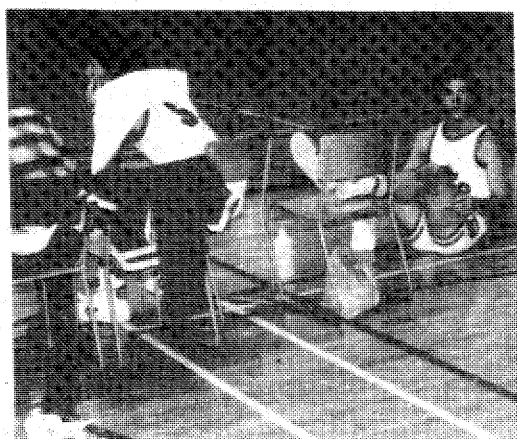
Down 38-33 at the half, the Ooks put the above mentioned fact to practice and demolished the Grant MacEwen squad right in the loser's home court in the second half. As one Grant MacEwen fan put it after the game, "We were out coached and out played by those guys." The quote is not only a tribute to the Ooks, but also to their fine coach, Dave Hoy.

Statistically, the scoring for the Ooks was well distributed among the team. Five players scored 10 points or more. Gene Gerwing had 17 points, Doug Zutz had 16, Ron Kelly had 12, Len Parsons had 11 and Brent Burr chipped in an additional 10 points. This testifies to the fine team effort that gave our Ooks the win and a 2-1 game lead in the Capital City College's Basketball Cup series.

On Saturday, the Ooks played the scrappy Red Deer Kings. The Ooks had little trouble defeating the Kings by a score of 73-56. The outstanding highlight in the game is that Doug Omichinski, who for several games has been most frustrated, finally broke out of his slump. "Doug has to play in Red Deer to break a slump" says one team member. I talked to Doug and he agreed. "Last year I broke out of my slump in Red Deer too. Unfortunately, it was our second last game." In the game, Doug scored 15 points. He was the highest of the point getters for the Ooks. Gene Gerwing pitched in a dozen more while Ron Kelly and Rick Davidson each popped in 10 each. The Ooks have now improved their record to 3 wins and 4 losses, and it seems that they are on their way to a playoff spot.

This Friday, the Ooks play at 8:00 against the 1st division, senior mens league P & F Optical. The two teams have met once before. The Ooks won that one by a two point margin, but P & F didn't have their leading scorer in the line up. The rematch on December 14 (Friday) has all the markings of an excellent match.

NOTE: Thanks to you fans that have been coming out to the games.



Carignan Paces Women to VICTORY

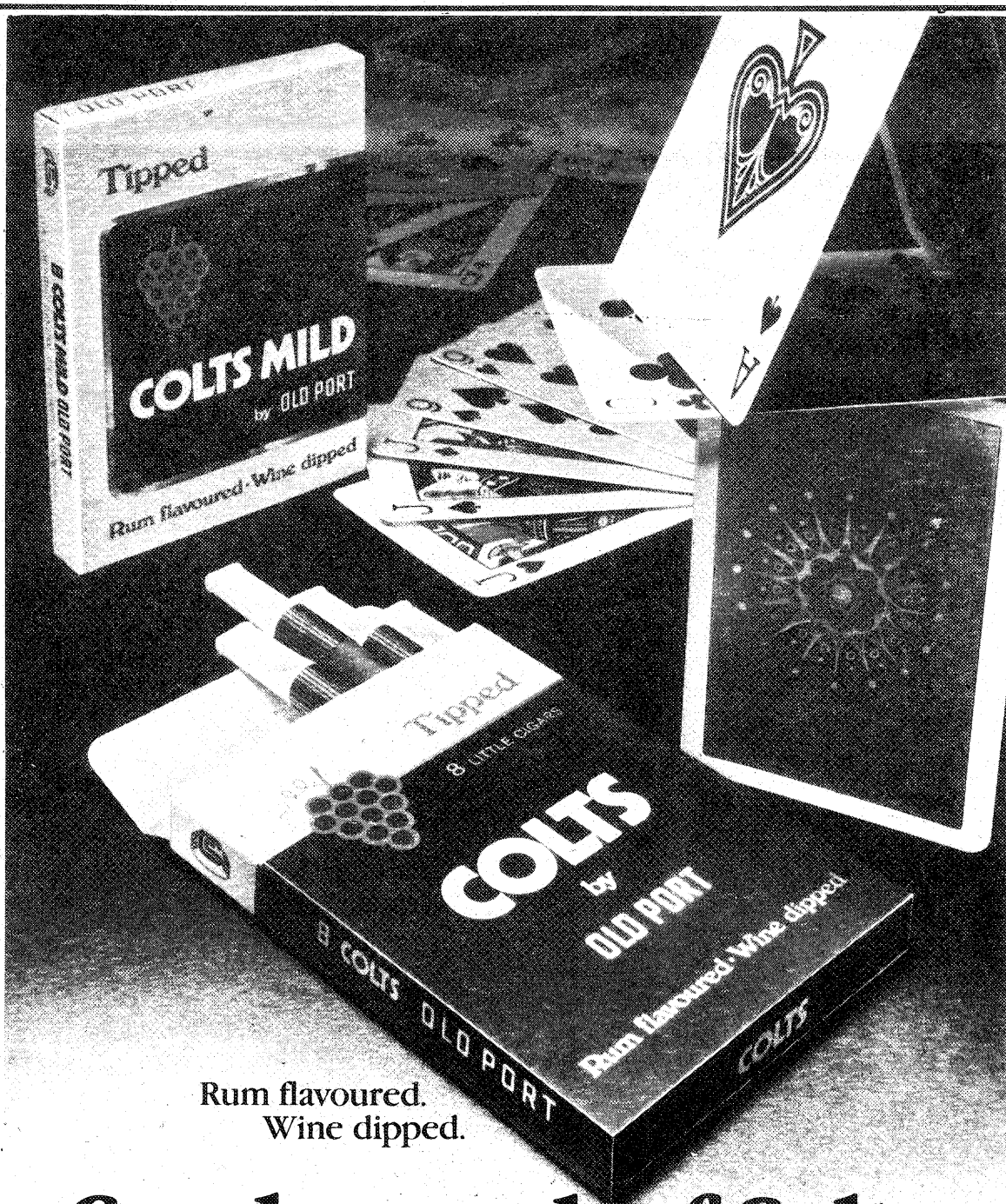
By R.J.K.

They haven't won at home yet but on the road, the Oockchick basketball team is winning half their games. The weekend started out good for the girls, as they defeated Grant MacEwen by four points. This gives the Ooks a 1 game lead in the Capital City Colleges Basketball cup. Louise Carignan, who had a fine weekend, scoring 29 points in the Grant MacEwen game. The girls, well coached by Gregg Meropoulis, poured in 34 of their total 60 points in the first half, good enough for a five point lead at that point. Perhaps the statistic which best describes the girls' excellent performance is that G.M.C.C. attempted 85 shots and managed to score on only 20. That's good defence! Offensively, in addition to Carignan's 29 points, Diane Butterfield contributed 14 before fouling out of the game. If you get right down to it, Grant MacEwen's Griffettes didn't have a chance-our Oockchicks were emotionally and mentally ready for the game. There was no way they were going to not win it.

On Saturday, the team hopped on the bus, drove to Red Deer, and thrashed the Red Deer College Queens. Louise Carignan went on the rampage again, pouring in another 28 points, giving her 57 for the weekend--a very fine effort indeed. The Oockchicks performance offensively was again above normal, as they sunk 40% of their shots. Against Red Deer, the Ooks also had many opportunities to practice their foul shots. The team's completion average was 67% (So, to all of you that sponsored the girls in the Basketball Shootathon, you might be paying a bit more than you originally anticipated) The final score in the Red Deer game was NAIT 66--Red Deer 35. Besides Carignan's 28 points, Denise Young popped in 19.

It seems, that going into the Christmas break, the Oockchicks may have turned their slow start this season around. Hopefully, they can keep the momentum going during the break and continue on the same note in the New Year that they ended this year on.

HOWEVER, before the Christmas break, the Oockchicks play another exhibition game. The game is on Friday evening (December 14) at 6:00. Their opposition will be the TBA senior womens' team. The game is here at the NAIT gymnasium so there is no reason why YOU can't come!



Rum flavoured.
Wine dipped.

Crack a pack of Colts along with the cards.

NONSENSE & COMMON SENSE

4 SALE:
2 Firestone drag 500's mounted on 15 by 10 slotted alum. rims. Tires are 10.5 by 29 by 15 complete with radial tubes. Price \$300. Call Bob at 433-3879.

4-Sale
1976 Merc. Bobcat 4 cyl. Runabout in excellent condition w/auto. trans., mags, radio, tape deck, & winter tires.

FOR SALE:
1974 GMC heavy duty half ton custom cab w/ hi performance 327 rebuilt engine, new clutch [only 2,000 miles] dual saddle tanks, custom built 2 by 8 fir running boards, ps, pb, good body. Option to purchase cab-over canopy. For more info call 922-5119 after 6.

4 SALE:
2 telefunken studio 70 speakers, w/ 70 watts each, and 3 way. Less than a year old: new would cost \$350. ng price just \$210. Pnone 474-0193.

FOR SALE.
Complete set of Pre-Tech-nology Textbooks Cheap.
One white chemistry smock size 46, \$10.00.
One Parkade Sticker for sale.
Phone Jack, 434-4677.

4-SALE
One Tektronix Oscilloscope model 530 mainframe, just like new, missing time base plug-in & vertical plug-in. Operations & schematic manual included in one low price of \$242. Call Leigh on y 6174 or evenings 476-0988.

WARNING!!!
Invasion of the rats, only possible solution-The Hemi.
RAT EXTERMINATOR

FOR RENT: 3 bdrm. upper duplex, carpeted, fridge stove, & garage. Available Dec. 15. Call Derek. 428-1752, 462-1962.

LOST:
TI SR51 II calculator. If found call 435-5662.

Congrats to Ron Crowe and his wife on the birth of their 3rd daughter, Christie, on Dec. 11.

MISSING PERSONS
Mr. Bill, height 4.5". Weight 12 oz. Wearing a red shirt with white buttons. Last seen in Plaza II going down the escalator. Anyone knowing the whereabouts of him please write to Spot next week.

Mrs. Bill

NEED WINTER TIRES?
For sale, a pair of radials for Honda Accord, Celica, Datsun, etc. Like new for \$50. Also, radial tires & rims from Celica liftback. Call Brian at 468-2100 or 463-2229

STUDENT WANTED to share manager's suite of older house, (main floor). Very reasonable, 114 ave & 94 St. 474-3552 evenings.

FOUND:
1 calculator in E-Wing 2nd floor. Phone 455-4214 after 6 pm for details.

4 SALE:
1973 Capri completely winterized, w/ 2000 c.c., radials and radio. In premium condition. Asking \$1495. Phone 469-7380.

To the Polish Linebacker and team mate in Electrical;
When it comes to Foosball, your the pits.

Signed Foosball player

FOR SALE: 1 programmable TI - 57 calculator, suede case & programming book included. \$55. ph. 456-0323 after 5. ask for Allan.

FOR RENT: Furnished rooms, shared kitchen, two bathrooms, close to bus and & other amenities. Will rent as 4 bedroom suite or individually. Available Dec. 15. Call Derek 428-1752, 462-1962.

Electrical Supplies for Sale:
-Federal N.C. breakers (assorted)
-Flourescent fixtures
-Assorted outlet boxes
-Wire-2/14 & 3/14
Call Jerry after 5 at 475-4092.

CONGRATS GRANDMA LOITZ
Congratulations to Colleen and Ray on the birth of their son, Jason Samuel on Dec. 8, and making Janice Loitz of Marketing Management a grandmother.

ML 121:
Now, that's a slice!
FOR RENT: Jan 1
2 bright partly furnished one-bedroom basement suites. In area of 108 Ave & 122 St. [non-smokers] Call 452-3891.

4 SALE:
1971 ¾ ton Ford crew cab w/ long distance tanks, V-8 motor, and shell camper. In excellent condition, only 98,000 miles on body, less on motor. \$1500 or best offer. Phone 439-5097 after 5.

To the Bio Sci instructors: Thanks to you we all have ulcers and migrains from your "SPEEDINESS" in calculating our marks.

WANTED
A ride to Valleyview on Fri. afternoon the 21. I will pitch in for gas. Phone Mary-jo. 434-2681 after 5.

NEEDED:
A fellow NAIT student with accommodation or willing to look for a suite. Contact Terry at 428-1690.

TO ALL AVAILABLE GUYS:
If you like Pina Colladas and getting caught in the rain, If you're not into Yoga, If you have half a brain, Meet me at a bar called the Northside Corkscrew and we'll.....
Signed Dopey, Sleezy & Bashful.

AVAILABLE: 1st January. 1 bedroom bsmt. suite, fully carpeted, with washer & dryer. Utilities paid, except phone. \$240/mo. ph. 436-9014.

Ken

THANKS: Robert Moore, concerned J-winger and Happy Looker. It's guys like you who make passionate girls like us feel good all over! We might take you up on that offer, J-winger! Who cares about Rod Stewart when Rob's in the building! Hey Happy Looker, the best is yet to come.
Signed formerly Disgusted Brunettes (not disgusted anymore!!!)

NEWLY RENOVATED.
1 bdrm. suite unfurnished. Carpets and kitchen applcs. On bus route. Reasonable rent. Call 453-3350 after 6.

TRUCK FOR SALE: 1974 GMC heavy ½ ton with Custom Cab. High performance rebuilt 327" engine, new clutch, dual saddletanks, running boards, new ground grips on back, power steering and brakes, 4 speed standard trans., great body [no rust], cabover canopy [will sell without], 43,000 miles on truck, 2,000 miles on engine and clutch [receipts available for engine], great on gas. Phone 922-5119 after six.

BASEMENT SUITE TO SHARE:
Two bedroom. 20 minute walk from NAIT. \$100. Phone Geoff 471-1622.

FOR SALE
One 283-060 over 292 cubic inch small block chev. Fully racing prepared. Serious inquiries only. Call Brian 489-6467.

Basement room available near U of A. Quiet female. Furn., share kitchen and bath. \$120, util. incl. Available after Dec. 21. 1 bus to NAIT. 434-7178.

FOR SALE:
1971 blue and white Torino. 2 dr., good winter vehicle; reliable. \$450. Phone 475-5066.

Stereo for Sale
Amplifier turntable and speakers all in good shape. Phone John at 477-5783.

HELP WANTED:
two 1st or 2nd year students interested in repairing electronic equipment and operating a delivery cart. Work to be completed on campus at \$3.00/hour. Contact Gord or Wayne in the Audio Visual Dept. Room J-21. Phone 6120 grey or 477-4555 black.

4 SALE:
1973 Datsun 610 w/new radial tires, new battery, new brakes. Asking \$500. Phone Ron at 484-1918 even.

Are you looking for a small dependable car? 1972 Austin mini in good running condition, which has been completely winterized. Asking \$700. Phone Musadak 478-2265 after 9.

GUITARIST NEEDED:
To play with established dance band. Most bookings are on Fri and Sat. For more info call Kevin at 433-5497.

4 SALE:
1976 Plymouth Volare premium station wagon. 4 doors, factory air-condition, cruise control, roof rack. Asking 3675. Call David 471-1840 evenings.

1 Parkade ticket available as of Dec. 3, 1979. Contact Val at 454-5289.

4 SALE:
1 pair of Dynafit ski boots; like new; asking \$110-\$115 for size 9-9½ (only worn once) Ph. Rick at 479-7878.

4 SALE:
1 Sig Erson Hi-R cam for big block chev. with 565 lift. 304 duration complete with solid lifters. Almost new. \$80.00. Phone Bob at 433-3879.

One calculator, Texas Instruments 57 programmable. Comes with charger, case and instructions. \$60.00. Used one month. Phone Jack 434-4677.

Nonsense & Common Sense Ads are printed FREE to all Students and Staff

Completed form should be returned to the UNCLASSIFIED BOX OUTSIDE E128, THE NUGGET OFFICE.

PUT ONE (1) LETTER OR PUNCTUATION MARK IN EACH SPACE, LEAVE A SPACE BETWEEN WORDS.

NAME: _____

ADDRESS: _____

PHONE: _____ STAFF: ☐ STUDENT: ☐

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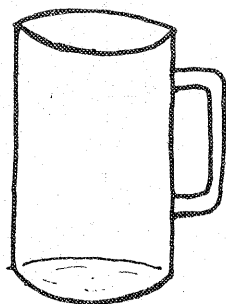
IMPRIMÉ AU CANADA

ACTIVITIES

**JUST ARRIVED
AT
STUDENT STORES**

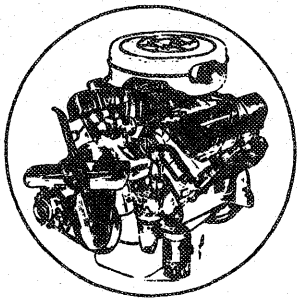


**Charms
\$6.95**



**Beer Mugs
\$6.95**

"T-M-T"



**Dry film lubricants
adds service life, cuts costs.**

"T-M-T" saves you money on gas!

While your engine is working to run your automobile, it must work to move vital components, such as the pistons, crankshaft, etc. And it takes costly gasoline to consistently operate and generate these parts while protecting them against harmful friction. So because "T-M-T" offers amazingly better lubrication — there's less friction, less drag. . . AND LESS WASTED GAS!

"T-M-T" helps you get started in the coldest temperature — and gives better engine performance in the sweltering heat!

Even when the thermometer dips to 60° below freezing — an engine coated with "T-M-T" will turn over faster and easier — with surer starts and power! And during the hot days, when the vehicle temperatures are sizzling — your rings, valves, and other critical engine parts will function with less crippling friction drag!

"T-M-T" can save you money on costly engine repairs. . . especially Ring and Valve jobs!

Think of how many different mechanical operations are taking place within your engine every minute you run your car. The pistons are working at a dizzying pace — the valves and lifters are moving and pumping at grueling motions — and each and every day, week and month that you drive, more and more strain and tension occur internally with the constant pummeling which keeps taking its toll by the gradual addition of carbon, sludge and foreign build-up.

With the addition of "T-M-T" — not only is the engine wall coated with its amazing Chemical discovery — but at the very same time, all other operative components are being coated and sealed too! And by coating both surfaces (the engine wall and the internal mechanisms) — you effect a tough "Shield" which helps prevent the "T-M-T" protected surfaces from coming into direct contact with each other!

**NOW ON SALE
ETS BUS PASSES
4 months --\$65.00
(Cash only)**

STUDENT STORES
et

**HELP WANTED
FOR
SECURITY**

PAY IS \$5.50 PER HOUR

**FOR MORE INFO
CONTACT PAUL IN E-133 or
STUDENT SERVICES, E-134**

"T-M-T" is amazingly easy to add to your engine!

HERE'S HOW:

Allow your car to idle until the engine is warm. Shake well the highly-concentrated contents of "T-M-T" — and simply pour it into the crankcase where you normally add oil.

First of all, Oil Additives are Temporary treatments! T-M-T IS A PERMANENT TREATMENT! Oil Additives have to be replaced with each and every oil change — because they work within the oil itself. T-M-T NEVER HAS TO BE REPLACED — it does not flush out with any and every oil change — and it is a necessary INTERNAL ENGINE TREATMENT!

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REFERENCES
AVAILABLE**

**Built-Up Teflon Coating
Improved Lunar Orbiters'
Life**

UNIQUE TECHNICAL PROBLEMS were solved to develop the extremely durable expulsion tanks required by the Lunar Orbiter program. The tanks had to store propellants for long periods of time—aboard Lunar Orbiter 2, for example, the tanks were not called upon to deliver propellants for a final firing until the spacecraft had been orbiting the Moon for more than 11 months. Never before did a spacecraft's positive-expulsion devices have such a long wait between expulsion cycles.

An impenetrable barrier between propellant and expulsion gas in the oxidizer tanks proved to be the key. High-strength Teflon was sprayed on both sides of a 1/2-mil-thick aluminum "bag." In separate coats from 1.4 to 1.3 mil, the Teflon was built up to a 3-mil thickness on each side of the aluminum.

"Teflon alone," said an assistant chief engineer, "allows pressurizing gas to permeate into the propellant during long periods of storage." Without the aluminum barrier, the pressurizing gas would have formed gas bubbles in the oxidizer and could have shortened life of the Lunar Orbiters.

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