

FOUR SPECIES OF LARGE FURRY ANIMALS

THE ANIMAL FARM REPORT

PART III: The Tape Deck dies

On an uneventful afternoon Noslugs got the idea in his head that he wanted to put on a tape. Carefully removing the previous cassette he delicately slid the next tape into place and settled back for a relaxing afternoon of Bob Dylan. Unfortunately the tape deck had other ideas.

In the middle of a typical Bob Dylan version of *Blowing in the Wind*, the machine choked on it and died, taking Bob Dylan with him. After that the deck would never sing again. At first, Noslugs blamed Grumpy's tape, then Grumpy blamed Noslugs on the grounds of ineptitude. Finally Grumpy blamed Clumsy's tape deck thus forcing us to retire it.

Obstinate just sat back and chuckled.

PART IV: The Accident (did you realize there were actually two?)

Now the exclusive story of Clumsy and his Wonder Bike (we nick-named it
continued on page 1...

Comment:

The debate on compulsory student activity fees has begun—again.

I can't help but feel that this type of discussion is of paramount importance to any student federation.

At Waterloo, particularly at this time, a clear understanding of student government is required. A fresh understanding of the services provided and a renewed mandate from the student body is absolutely needed for the federation to be functional and effective. Once the referendum is completed, and all the dust has settled, the results in, there can only be one question resolved. That question is, have some of the students, both on and off campus, expressed clearly to all students of Waterloo the basic premises behind the federation of students.

In this article I attempt to outline some of those reasons and why a strong federation is absolutely dependent on collective membership.

The last few years has seen growing faculty societies, the secession of graduate students from the federation and some student discontent with the federation. When we look at the events of the last few

...continued on page 3

Democracy Crushed!

Democracy loses 9 month battle to the Free Chevrag!! Federation council has been taken over by the Free Chevrag!!!! In a six hour council meeting this past Sunday the Chevrag was reinstated, in direct contravention to the January Chevrag referendum. It should be noted that the main support for the students came from the Mathematics representatives (as they were elected not acclaimed, the Free Chevrag were soundly defeated in all elections). This reinstatement includes over fifteen thousand dollars for legal fees, back pay *et cetera*. The reason for passing the reinstatement was "we've got to get it over with" and "it will make a stronger federation". But I fail to see how giving in to them accomplishes either. Reinstatement means that we are now back in the exact same position as before the closing. It should be noted that if you take the vote of the council on reinstatement and count only those who were actually elected (as opposed to acclaimed) we notice that the reinstatement loses. From this I draw the conclusion that those who were not voted in feel that they do not need to do what their constituents want, but what they personally want. Anyhow, there will be a *Real Real Chevrag* this week, and it will probably still be full of the same old

Thursday, June 30th
Volume 14.4

math NEWS



Games split....

BIZ-BALLERS at 500

Dateline June 21, 1977

After extending their winning streak to two games, the Waterloo BIZ-BALLERS of the co-ed slow pitch league fell back to the 500 mark after dropping a high scoring affair to the Bio-Engineers. A week ago the BIZZIES soundly defeated a frosh entry of chemistry co-oppers.

These games featured many firsts for the team. Communications Manager Donna Strangway got her first hit, Manager-Without-Portfolio Pat (PJ) Maynard made her first catch, Equipment Manager Dave Forrest proved for the first time that he can use both hands to bat, and our first double play (4-6-3) was made (Veffor to Roblin to an ailing Tishcoff).

Defensive Manager Dave 'Stubbs' Stubbins also gave the BIZ-BALLERS a record to aim for with three home runs in the game against the Chemistry team. These landmarks will be shelved for further interpretation and consideration by upper management.

No Seaver

Last week, word was out that the BIZ-BALLERS were interested in acquiring

the services of New York Met pitching ace Tom Seaver. This "rumour" was quickly hushed by Charlotte Penrose, BIZ-BALLER Public Relations Manager, who retorted when questioned about the matter, "No Comment!"

Further investigation by your roving mathNEWS reporter led to several meetings at the Grad Club. After much inebriation, Team Manager Kevyn Richardson drawled, "Seaver liked everything about our organization, especially the managerial concepts which we employ." But it was Mark Kelland, BIZ-BALLER Financial Manager who groggily provided the key. "To get a player of Tom Seaver's ability would require all the financial resources of the enterprise." Banquet Manager Diane Morgan added, "We BIZZIES will not give up our season-ending banquet for just one player." The approving response of much table thumping and floor stomping typified the true BIZ-BALLER team spirit and athletic abilities.

All-Star Break

With a three week layoff until the next BIZ-BALLER game, an All-Star Break is in order. Many teams have challenged the BIZZIES, but none have been played. Practice Manager Jan Telford expanded on this point, "With four good efforts

behind us, I think that we now can confidently schedule the exhibition games that have been demanded of us." It looks as if 3A-Math's persistence has paid off. Rumour also has it that the Math Faculty (Bits and Pieces) will be issuing a challenge to the BIZ-BALLERS for the student-teacher championship of M&C.

During the break, Spirit Manager Sue Burford is going to revamp the BIZ-BALLER cheer. "There is something remotely unoriginal in our LET'S GO BIZZIES cry," Subie stated.

When questioned on the managerial problems of the co-ed slow pitch system, Offensive Manager Brian Roblin told us, "It is very much like coaching in the Canadian Football League." Offensively he continued, "Instead of Canadians and imports in our lineups, we have girls and guys to juggle."

Although the BIZZIES are no longer young, they do remain enthusiastic. Top, middle, and lower levels of management are all doing their share. The talent is being developed and goals are being accomplished. General Manager Sam Veffor looks toward the BIZZIE future, "The BIZ-BALLERS named in this column today could very well end up in a Sam'n'Tak baseball trivia quiz of tomorrow."

what's a sam'n'tak??.LET'S GO BIZZIES...

FLASH). One dark Wednesday evening, after a strenuous day slaving over a hot 370 assignment, Clumsy mounted his 10-speed for an uneventful trip to a friend's un-animal-like townhouse. Hanging a well-executed right onto the road, he shot forward with blinding speed. Looking up he surveyed the surrounding landscape, noting no major obstacles. Seconds later, as he performed the unwarranted act of flying over the handlebars, he realized there actually was something in his path. While soaring gracefully he uttered a few choice remarks about the ridiculousness of placing a barrier chain deliberately in HIS path. As the blood streamed down the massacred right side of his face, he checked the bike out carefully and thankfully decided that there wouldn't be any repair bills. Then, after a grand tour of the PAC and the Math building that sickened passers-by, someone finally cornered him and called the Kampus Kops. He was duly delivered to the K-W hospital and later returned to the FARM intact.

Most people would think that this was enough for one person, but not Clumsy! He was determined. After spending a few days recuperating, he prepared for a Saturday morning ride home to Hamilton (about 60 miles). Not realizing he was taking his life into his hands he got a 7:30, early morning start. About an hour out of Waterloo, he approached Cambridge and began picking up speed. Hurling down the hill into town (know the one with the car-wash at the bottom, where HWY. 8 hangs a HARD left???), Clumsy decided he was going too fast to make the corner and slammed the brakes on full. As the bike performed a perfectly valid two-wheel drift into the corner the back wheel succumbed to the great side pressure and waffled itself most astoundingly. Then the pair proceeded to bounce and spin around and across the road to the delight of the motorists near the scene. Completing a sensational barrel roll, Clumsy bounced upright, ran over and picked up the 10-speed and flogged it with verbal abuse about its ancestry and various parts of its anatomy. As luck would have it, Clumsy had wiped out near a phone booth, so he called one of his brothers, who came out and picked up him and the warped bike.

The action resumed as they pulled into the parking lot outside the ANIMAL FARM HQ. The other ANIMALS were just taking off for a sunny picnic but they caught a glimpse of Clumsy trying desperately to slink past unnoticed. Caught red-handed Clumsy hemmed and hawed and looked at his battered running shoes as the others pointed and joked and snickered.

Next week Clumsy tried to put his repaired back wheel on the bike and make ANOTHER valiant attempt at navigating the asphalt highways and byways of K-W. The bike, however, would have none of that crap! It fought a truly wonderful bat-

tle for another week and only lost out when Clumsy inadvertently flipped it over, temporarily disorienting it, and popped the wheel back in place.

BEWARE, FOR EVEN NOW HE COULD BE CRUISING PAST YOU!!!

Part V: The cable is removed (and we can't even get FM now)

Now really, is a stereo a stereo (and useful in any degree) when the turntable litters the floor with vinyl shavings, the tape deck refuses to work (wouldn't you if assaulted by 2 hours of Bob Dylan??!!) and then the FM reception is ripped away?! Anyone suggesting AM will be summarily shot! You see, Obstinate was not quite awake when the man with the tool belt jangled up to the door. He flim-flammed his way past the incredulous Obstinate, ripping the cable and converter out and slapping an ingeniously designed plate over the hole. Try as we might it seems impervious to break-and-enter attempts. Anyone got any suggestions?

Anyway, when Grumpy got home he flew off the handle 'cause he said the converter was his own (but he always flies off, so we let it ride). After pouring dinner, three glasses of milk and four strong coffees down his throat he settled down a little but still grumped around for awhile, muttering threats about fire and brimstone for Grand River Cable. So we strung up the old T-antenna and got limited reception (and Q107 is pretty good, you know) which further mollified Grumpy.

Part VI: We find the floor again (or the once-every-two-months vacuuming party)

Yes folks, contrary to popular opinion, we have actually done what no one could have forseen being done at the ANIMAL FARM. We cleaned up. The papers went out, Grumpy brushed his hair, NoSlugs had his jean overalls tailored next door and Obstinate vacuumed the living room floor (Clumsy wasn't home). Everyone was so astounded and felt so guilty that we worked especially hard and messed it right back up again in ONLY two days. Besides, we couldn't believe it was the REAL ANIMAL FARM without some clutter and litter to go with it. Come and visit and see guided tours every hour on the hour student price is \$.50 (adult types not allowed for fear of heart attacks; we don't need any lawsuits for criminal negligence).

Part VII: (We always have lots to say!) Obstinate disappears!!

It was an unusual Thursday night. All the ANIMALS were home, except for Obstinate (nothing strange there, though).

We all retired, assuming it was a late night for him at the Math building or elsewhere of interest. When he wasn't in his bed next morning, Clumsy noted this oddity (remember Obstinate and Clumsy got the downstairs room you can see why now, right? it's intuitively obvious). Friday night was again too quiet and Clumsy noted something unusual but couldn't pinpoint his uneasiness. Saturday night Grumpy and NoSlugs were discussing why and where Obstinate might have disappeared to, over dinner. Could this be what was wrong, thought Clumsy?? He remembered someone shared the room downstairs but it was such a long time since he had seen anything but the back of a snoring head in the other bed. Obstinate toured back in Sunday night but Clumsy never did find out where he'd been. By the time Clumsy got home, the head was back in bed snoring (betcha didn't think you did, huh Obstinate?!).

PART VIII: Nearly Done For Now (some interesting events)

Danger! Danger! Warning! Warning! (shades of the robot in 'Lost in Space', the only human thing in the show). Be on the lookout for a frightening sight. NoSlugs has visited a bike store and another menace to safe navigation will be hitting the road next week. The public will only be safe if some astounding, overly absurd thing happens like all four ANIMALS have a mass, mangling pile-up and thereby remove every one from the roads at once. That's hardly possible though, as we refuse to be seen together (check out this week's letters of denial).

Also, an incredible, if poorly publicized, event occurred the other night at the FARM. Since the beginning of the term the biggest problem has been scheduling meals. You guessed it! All FOUR ANIMALS were actually seated at the dinner table for the same meal. This has only happened 3 (three, count them, trois) times since the first of May. The first meal was evidently a non-event (as no one remembers what we had) but the second was chile night (NoSlugs outdid himself that night) and the third featured chicken (cooked in a magic onion sauce). Clumsy doesn't cook here anymore, can you blame the others after his escapades and the fact that his brain hurts?!

NEXT TIME:

(1) NoSlugs ignores runaway teenagers.

(2) Clumsy says.....

(3) Grumpy goes out for dinner, again!

(what's wrong with hamburger (tuna) casserole???????)

(4) and any other slanderous stories we can invent

Hi there folks.

We're glad to see that you liked our new column format. We noticed that we disrupted a lot of classes and kept the Math Lounge buzzing with Walt Disney trivia. We received five sets of answers to last week's quiz. The top award, for a score of 28 out of 30, goes to Nissa Starr and Ray Butterworth who must have had access to a Walt Disney reference book. We print their answers in full since it was so well done. However, they goofed on two of the hard questions. "Futureland" should be "Tomorrowland" (that's with two R's and one M, Ken Voelker!). Also, Scamp's owner is Albert, the little boy.

Dear Sam'n'Tak:

HUEY, DEWEY, and LOUIE are Donald Duck's nephews, while Scrooge MCDUCK was his (their?) uncle. Mickey Mouse's dog was PLUTO, and his girlfriend was MINNIE MOUSE. Snow White's hair was BLACK. The dwarves were DOC, DOPEY, HAPPY, GRUMPY, SLEEPY, SNEEZY, and BASHFUL. THUMPER was the rabbit in Bambi, NURSE NANA was the dog in Peter Pan, and Jacques was the mouse in CINDERELLA.

STEAMBOAT WILLIE was the first Mickey Mouse cartoon to be released, however PLANE CRAZY and half of GALLOPIN' GAUCHO were completed as silents before this. With the advent of sound, they were temporarily suspended and later released with sound as his second and third cartoons.

Disneyland is in Anaheim. It consists of ADVENTURELAND, FRONTIERLAND, FANTASYLAND, and FUTURELAND, all connected by MAIN STREET U.S.A. Zip-a-Dee Do-Dah (note the spelling) was written for SONG OF THE SOUTH. ARCHIMEDES was Merlin's owl. Scamp's parents were LADY and TRAMP; his owners called them-selves JIM DEAR and DARLING.

Submitted by NISSA STARR and RAY BUTTERWORTH.

Special mention also goes to Ken Voelker, who scored 23. Next came Alan Goodenough who got 22. Jim Pattison scored 18 and 75132318 (the name was illegible) scored 17.

So much for Walt Disney. Now we turn to a more intellectual topic, Saturday morning TV of the 1960's. You should all get a perfect score on this one if you lived in a city that got American TV stations. Enough introduction. On to the questions.

Who was Felix the Cat's intellectual friend and who was their arch-rival? (2)

Who was the policeman in Top Cat? Also, name three of the cats in the alley, excluding Top Cat. (2)

What was Mighty Mouse's theme song? (1)

Who was Quick Draw McGraw's little friend? (1)

What were the last names of Curly, Larry, Moe and Shemp? Which two were brothers? (that's a hint.) (2)

What was the full name of George Jetson's boss? What was his robot maid's name? (3)

Who was the sargeant in Zorro? (2)

Bob Keeshan played Captain Kangaroo. What other role did he play before that? (3)

Who played Superman? (2)

Where did Yogi Bear live? (1)

What show was Alice the Goon on? (1)

What was the name of Mr. Magoo's cat? (it's a strange name for a cat) (2)

On what show did Heckle and Jeckle make guest appearances? (1)

What was Sky King's plane called? (3)

Who played the father on Fury? (3)

Who was the evil fish on Diver Dan? (1)

Who did the voices on the Bugs Bunny cartoons? (1)

Who was the bad guy on Beany and Cecil? (1)

What was the general's name on Roger Ramjet? (3)

Who was the centaur on Hercules? What was Hercules' girlfriend's name? (2)

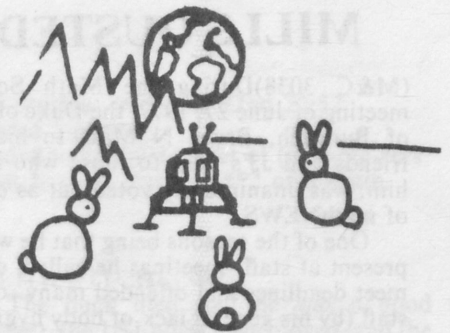
What was the name of Johnny Quest's dog? (1)

Name two of the puppets on Shari Lewis' show. (2)

OK folks! Enjoy Yourselves. The numbers in brackets are the scores for each question. A perfect score is 40.

Send all your answers to rhtakashima or sceffer on TSS mail. Or you can just drop the answers in the mathNEWS mailbox. We are also open to any suggestions that the readers might have. We also welcome any trivia questions that you people might have for us to solve. After all, there's no sense in giving you folks all the fun of answering the questions. We like to answer them too! See you next issue.

Sam'n'Tak



APLsauce

First, a correction to the last column. The version of COMPRESS I printed was the origin-0 one. If the ">" is changed to ">)", the fn will work in origin 1.

I have decided to extend the time for the Second APLsauce Contest. There are several reasons for this, which I won't bore you with here. Note that this gives you some extra time to work on the problem, so GET THOSE ENTRIES IN! The new deadline is Thursday, 30 June.

One warning: notice that COMPRESS is *not* supposed to reverse the entire vector, just the order of the letters within each word. REV 'HOORAY FOR DR. IVERSON' is 'YAROOH ROF .RD NOSREVI', not 'NOSREVI .RD ROF YAROOH'. One of the entries received so far made this mistake; I would like to ask the author to submit another entry.

A small piece on the word "operator". This word is often used around here to mean all sorts of things. I would like to give the proper meaning of the word (as defined by Dr. Ken Iverson (the inventor of APL) and his associates at IBM's APL Design Group) here in APLsauce. A "primitive function" (more often just called a "primitive") is a function which is defined in APL itself, such as + or -. A "user-defined function" (or, simply, "defined function") is a function which is defined by a user (what else did you expect?) and is usually just called a program. An "operator" acts on a function (theoretically either primitive or user-defined, although I don't know of any implementations which allow operators to act on user-defined functions) to turn it into a "derived function". For example, the reduction operator "/" can act on the addition primitive "+" to form the derived function "+/" (plus-reduction). An analogy: if you think of a function as a verb, then an operator is an adverb which acts on the verb to change its meaning.

I hope this clears up the confusion. Dr. Iverson and friends have been using this set of definitions since about 1970, and it's apparently taken until 1977 for it to make it to Waterloo!

Well, that's all for this issue.)OFF

MILLS OUSTED

(M&C 3038) During the Math Society meeting of June 27, 1977, the Duke of Earl of Bunwich, Bruce N Mills to his few friends and JJ's nose to those who know him, was unanimously voted out as editor of **mathNEWS**.

One of the reasons being that he wasn't present at staff meetings he called, didn't meet deadlines and offended many of the staff (by his general lack of body hygiene).

The straw that broke the camel's back being the attempt to produce this issue of **mathNEWS** on time. The meeting was called, and as usual the editor didn't show up. He had the password for the account and no one could get on without it. Only the most dedicated of the staff waited. When he did show up, he was too bent out of shape to work. Then he attempted to clear the office so he could CRASH for the night. Bunwich was thwarted by a massive staff revolt. He stalked out, after many grumbings and unkind compliments about his performance as editor.

The next night he committed the ultimate no-no by frelling an article for **mathNEWS** which showed him in an unfavourable light. As you can see, "Self-appointed censors won't stop me!"

On Monday June 27, 1977, MathSoc council passed a motion supporting compulsory federation fees. Rationale for the compulsory fee was discussed and the following are some of the points which council members felt were important in the decision that was made.

Past precedents indicate that where voluntary fees were adopted for student councils at other universities in Canada (most strikingly at the University of Guelph) the student organization would quickly disintegrate. This would leave the students without any effective representatives to lobby the university administration.

The orientation events, early in the fall term, operated and entirely funded by the federation, require a large sum of money. The federation does not obtain its funds from compulsory fee levies until mid-October. Thus, to fund the orientation mentioned above, loans must be obtained from private lending institutions. The loans are given on the basis of the compulsory fees collected for the federation by the university administration (*i.e.* the compulsory fees are a collateral).

Other union or professional organizations, though not requiring membership or participation, have com-

pulsory fees that are usually built in to licensing practises of the jurisdiction concerned. Such organizations have socially desirable services, and are used to represent the wishes of the membership to governments, etc. Without such compulsory fees, the budgets of such organizations would be too small to ensure effective operation.

MathSoc council feels that services provided by the federation, such as the housing office, supplementary manpower office, bus service to Toronto, para-legal assistance, Radio Waterloo (CKMS), and others are important to many students. As well, federation funds are disbursed to many student organizations on campus such as the various student societies (*e.g.* for activities, Math-Arts-ESS Week) and many student clubs (*e.g.* the Computer Science club, the Amateur Radio club).

For the above reasons and others, council feels that the federation fee should remain compulsory, and urges students on campus this term to vote for compulsory fees in the upcoming referendum.

Sincerely,

Andy Mueller
Interim President

... continued from page 0

services is that we have endowed the concept of students providing student services. Certainly all people would think this is a good thing.

The second reason is that we students do not want an across campus student organization for any purpose. We do not want one now or for future students. Some people say that an across campus student association, built from the ground up, could be based on voluntary fees. The type of federation I've described earlier cannot be based on voluntary fees.

In order to be a strong, healthy student federation requires many things. But one thing it needs is capital. For the federation or any student union to do anything, that will be viable, it must have a constant and sure source of money. How can student council members bring forward programs if we are unsure of the financial basis on which we stand. Common sense would seem to make the answer quite clear. A stable supply of income is essential if the federation is to borrow the quantities of capital need to start and develop long range programs. Planned budgeting cannot be based on uncertain reserves of cash. What type of leadership will be part of this type of central student association? Will weak leadership rather than effective leadership be the case?

Some people say the administration could provide a few of the services we do. Perhaps, but at what cost? Presently the federation must "lose" all of its money to break even. Would the administration choose to do that? Shall we lose the student control we now have? We could always go for the tokenism of one rep on some obscure administrative committee. More importantly within the current cutbacks,

months it would look like the federation is falling apart. The proverbial "who gives a shit" is vogue and has taken its toll on any organization, from the federation to the Red Cross. When I look at this, it seems to be only one ramification of the pessimism that we find all around us, in society, in school, at work.

All students know the need for taking stands on the collective level. Why else have societies or course unions? We all know the importance of taking, if we must, stands on issues together. Whether it be on administrative assaults on coffee and donut stands, faculty rollbacks of drop deadlines or the quality of our education.

We need to have a campus wide organization to further our own goals and objectives and at the same time advancing the common interest. The type of organization should be able to organize and articulate our collective concerns. At the same time ensure our own personal aspirations are not shut out. That is what our federation of students is for.

There are only two types of federations that should not have compulsory fees.

First, if the federation was an extremely biased political organization. A political organization that did not represent students on this campus or serve in their interests. That type of organization that did not represent students on this campus or serve in their interests. That type of organization should not be encumbered by what the majority of us want. The statement that it have a check of a voluntary fee is logical and therefore valid. However, in our case, what is political about a record store, ice cream stand, post office and the fed flicks. Just about the only political thing inherent in these three

what priority would an ice cream stand or record store get? Not very high I can assure you. We could not even be sure of getting these services after some future date.

At this point we must deal with individual rights and compulsory fees. Sure, we all have individual and personal interests. However there must be some interests we all share and hold important. The body for this type of activity is the federation of students.

That is the desirable part of the federation of students. All of us can change the federation because of its constitution and charter which states that its mandate is to "serve in the interests of the students". How we put that phrase into action is how we vote on elections and referenda. That is how we build a student federation and that is how it must be kept.

I know of two examples of student unions operating on refundable fees. The first is in Lethbridge, Alberta. It just lost a referendum on the question. In a few short months it has fallen completely apart, it can't even pay fees to the National Union of Students or to the Alberta organization. Its end will be here shortly, so much for a student union. A few years ago Guelph tried the same route. That student organization lasted 18 months. It took three years before a new central student association started, this time on compulsory fees. Don't let it happen here! Vote for a federation committed to all of us. Vote for compulsory fees.

Gordon Swaters
4 Yr Applied Mathematics

ENGINEERING GRADS NEEDED WATERLOO-The need for people graduating from university in Engineering is expected to increase substantially in the next three years, the Canadian Association of Engineers announced this week.

A spokesman for the group told reporters, "There will be about 500 new job openings for engineers in Canada by 1980. What with CN and CP building new lines up into the Arctic, we're going to need people to run the locomotives."

GOVT STUDY AIMED AT CRABPOTS

A recent study has been conducted by the Department of National Health and Welfare which concluded in its seminar, Friday, March 37, that the proper way to elude crabs is to get off the pot.

Continuing investigation is still underway.

CONVULSIONS DEAD AFTER LENGTHY ILLNESS

Convulsions, well known Uniwat disaster, died after a lengthy illness.

Memorial services will be held outside the Tomb of the Unknown Student.

PLANE LANDS ON COLUMBIA (AD)-A Toronto resident has been charged in Waterloo today under a little-used section of the Highway Traffic Act.

Robert Buffon of Etobicoke made a forced landing of his Cessna aircraft on Columbia St. near the University of Waterloo. While being directed off of the thoroughfare by Regional Police he lost control and destroyed a nearby cruiser.

He has been charged with Section 129 (2) of the HTA, Moving Aircraft, Improperly.

The chevron is a leftist tool of propaganda funded by the International Conspiracy to Pervert and Destroy All We Hold Dear As Western Civilization (the infamous ICPDAWHDAWC).

All students wishing to help in the production of the chevron are more than welcome, and are recipients of paid three-week indoctrination tours to the Subversive Capital of their choice, the Kremlin, Peking or Havana.

In addition to an editor and production manager with dangerously decadent bourgeois tastes, the chevron survives and prospers through an ingenious plan known as volunteer labor, which means that normal, everyday, run-of-the-mill students give a few hours a week to help report, edit, photograph and otherwise abstract the real world around us into a comprehensive and sometimes even nearly-accurate picture of life here at the University of Waterloo.

1973-74 UW Student Handbook



050 tjthompson fri june 24th 16:15

I protest in the strongest possible terms the current policy of C&D to run out of everything shortly after noon. The operation was designed primarily as a service, not a business. The manager seems to have lost sight of the distinction.

067 mathnews tues june 28th 0:07

Dear mathNEWS,

re aplsauce's confusion on operators: Dr. Iverson did not define operator. "+" is a binary operator. But an operator is a function, "+" is a function mapping the reals X reals onto the reals. However, it is typically known as an operator, and it is an operator. Read some text books, and it is referred to as an operator. Further, usage can redefine a word, and if your hero Dr. Iverson did not define it that way it is too bad, usage has redefined it our way.

CSCTRAMP

068 god tues june 28th 0:12

Dear mathNEWS,

Well, now that I have given you a new editor (incidentally the new editor might be interested to know that the old editor is finding it slightly hot where he is now) perhaps you will follow my orders and start publishing a dead baby supplement. If you don't....well there is still room where the old editor went (that is a threat).

069 villager tues june 28th 0:14

Dear mathNEWS,

I am disgusted. The village has this week sent around a memo complaining about a pyramid of tables causing \$1250 worth of damage. This would seem to be the cost of buying brand new tables and chairs. However I have heard that except for a few scratches there would seem to have been no damage caused. This seems to be just another example of the administration trying to intimidate the student.

This disgusting exaggeration and intimidation attempts must cease.

I am appalled.

a concerned villager.

070 fed.of.studs tues june 28th 0:55 *

Wanted one radical newspaper to cause dissention and disunity amongst student body. Willing to pay \$20,000 a year. Advice available from Neil McDuckerty. (Ed - I don't believe this is real)

mathNEWS welcomes your criticisms, comments, suggestions, etc. All letters should be signed, but if requested, a pen name will be used. Put your **Feed-back** articles in our mailbox on the third floor outside the lounge, or mail it to us on TSS to userid **mathNEWS**, or take it to MC 3038 and have it put in our mail slot, or put it in the mail addressed to **mathNEWS**, MC 3038.

136 mathie wed june 22nd 22:57

needed 1-gin-eer.

needed to complete a set of (n-1)-gin-eers. must have at least $1/n^{**2}$ of a brain.

TO NWWITCHLOW:

The duck died (but he was a good dinner), the LSI blues have moved, and the OR-BAR is no longer important. Forget it. It wasn't worthy of you anyway. You'll find another love or has "B" taken you over already? If so, it's no good!! It'll never last!! C will take over some day and you'll be stuck without a language (or derail for that matter).

He whose name is hard to spell (HGAC)

Wanted: one (1) copy of the may 30, 1977 issue of time magazine. will pay a (reasonable) price. send mail to ccng.mounce or call 884-7177 and ask for brian...

Needed: A small apartment (preferably upper floor of a house) in London, Ontario from Sept - Apr 77-78. Have own appliances. If you have any leads, please call Helen. 745-5276

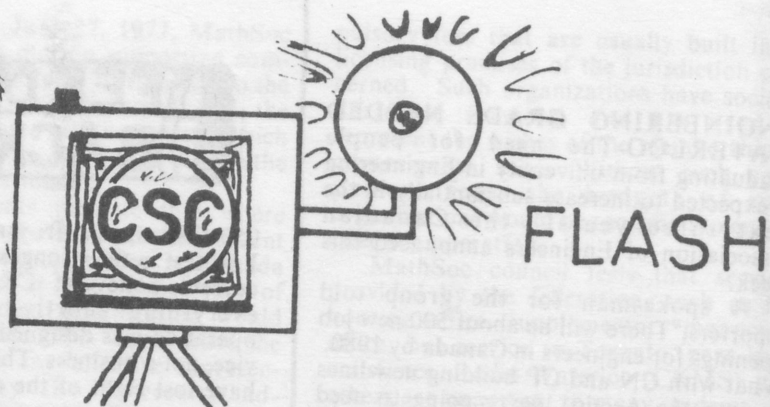
Any body knowing the whereabouts of ANDY KAMARAS please contact Mathsoc.

Wanted: Go player(s). Leave note for P. Wharram, statistics in M&C 5104.

FOR SALE: 1 Marantz 2275 receiver rated at 75 watts/channel, performs at 75 watts/channel 1 and a half years old - \$800 brand new, selling because updating system; asking \$400 or best offer. Also selling 1 SONY Mc-phono-line-in mixer with 6 mono or three stereo channels, a master volume, 2 VU meters, 1 and half years old. \$360 brand new, asking \$200. For info contact JD in MathSoc MC 3038 or phone 745-2027 and ask for John.

NOTICE: To Lea, Math 220A Tutor. We meet every Wednesday from 12 noon on, in the CC pub. **Please** join us.

Living in Toronto next term? I am looking for people to live with (preferring Scarborough). Phone Roger at 578-6545 or contact rmmasse via TSS mail.



Mathsoc has another triumph! Last Wednesday night the Mathsoc soccer team beat the Hot Rocks. Both of these two teams went into the game undefeated. It was a very closely fought battle between the two teams with no score until the last quarter of play when Dominik Posella scored the only goal of the game making the resulting score 1-0 for Math. The next soccer game is Wed June 29 at 6:15, lets all come out and cheer.

At last word the Mathsoc basketball team had won one and lost two. It was their last game they won, by a score of 52-8. Lets see a few more like that one.

There will be a Mathsoc Ping-Pong tourney on July 5&6 in the campus centre. The first prize will be two tickets to see Supertramp. To enter just come on down to Mathsoc and sign the list.

- Q. Why do ducks have flat feet?
A. To stamp out forest fires.
- Q. Why do elephants have flat feet?
A. To stamp out burning ducks.
- Q. Why do elephants wear red sneakers?
A. So they can hide in cherry trees.
- Q. What do you get when you pour hot water down a rabbit hole?
A. Hot cross buns.
- Q. Combien d'electricite y-a-t-il dans un Q-tip?
A. 2 wattes!
- Q. Did you hear about the Newfie who had a job blowing up cars for the FLQ?
A. He had to give it up because he kept burning his lips on the exhaust pipe.

When thieves opened a container they had stolen from a parked car in Paris, They couldn't believe their eyes.

Six more human eye were staring back at them.

Police said that the car belonged to the director of a French eyebank.

M.Henri Villette of Alencon, France, decided to drown his cat. The elderly gentleman went down to the River Sarthe, gave a mighty heave, and flung the animal into the water.

In doing so, M. Vilette lost his balance, fell in, and drowned. The cat swan back to land.

An unusual shoplifting incident occurred in London, England, during the last Christmas season.

A little old lady collapsed in a supermarket, and was subsequently diagnosed by an ambulance attendant as suffering from extreme cold. She was found to have hidden a frozen chicken under her large, veiled hat.

Rudolph Martinez runs a printing shop in Sacramento, California, that advertises "we print everything except money."

He was arrested recently by Secret Service agents and held on \$50,000 bail. The charge? Printing counterfeit twenty-dollar bills.

The meeting will be held in MC5158, coffee and donuts will be served. Everyone is welcome.

The last meeting of the term will be held on July 12.

Roger Moore of I.P. Sharp Associates, Toronto spoke on July 16th about a high level language he developed for writing the operating system on an IBM 3705 communications processor. The operating system he wrote acts as a control for the network of dial-up terminals I.P. Sharp supports. The compiler he wrote is not exactly of the highest level, to add, for example, A and B, requires the moving of B to a register and adding, *i.e.* you must do all register allocation for arithmetic yourself. Further, so as not to confuse variable with registers, variables must be 4 characters long. The registers are called A, B,... The most interesting fact coming out of the lecture was that the IBM 3705 has a halfword size of 16 bits, and a fullword size of 18. This is to allow memory expansion of course. However, this caused the only assembler routine in the system, storing of the entire 18 bits after an interrupt was not possible in the language.

Approximately 25 people attended the meeting.

The next CSC meeting probably will be held on Thursday June 30. Check the bulletin boards for confirmation. The speaker will be Glenford Myers, and he will talk on "Reliable Software Through Composite Design".

As we finally conclude this mathNEWS, having gone through two late nights, two editors and two pieces of pizza, I'm sorry for the delay. We'll try to be on time in future. Do you know that Pizza Pie does not have anchovies on the menu. Also no Coke. Thanks to Bun(the hot crossed bunny), AKF(We did use your article)Müller, the furry jbdoherty, Foxy Roxy(I mean Roxanne), Rohan(I still can't figure out how to easily get from step 1 to step 2), Allison(for the drawings she didn't draw and the jokes she did write, and her frequent visits to Mathsoc, keeping us company), John Lee(who doesn't like hot cross buns(what do you get when you pour hot water down a rabbit hole?))Hooker, SAM vaffer 'N' rhTAKashima(just adoring Snow White), Brian(Our athletics director (and team))Gregory, Randall(I really should leave now) Howard, Steve(for the upcoming APLcore)Harvey, John(Finally got to like a great song)Herzig, Lastly, special thanks to Alex(CSC TRAMP) and Jim(who walked all the way home and back without falling asleep)Aldridge for staying up till this was finished. Actually Alex went to bed as he had to work at the Faculty coffee stand at 9:30. mathNEWS is funded by, yet independent of MathSoc. mathNEWS does not necessarily endorse the opinions of the articles (nor does the editor)

See you within the week.

NOTE! this is the first phototype set mast head! *hugh*