

# BLOOD TO FLOW NEXT WEEK IN LOUNGE



Do you have tired blood. Then come in to the Math Lounge on the 24th of July and trade in that old last year's model blood for the new improved version, coke and juice (assorted).

Yes, its that time of the term again. The Red Cross is here to relieve you of a bit of blood. (How many bits to the pint?).

As usual the Mathies are expected to turn out in full force in order to retain that glorious symbol of vampirism, the blood bowl. So come on in and spend a few minutes giving blood, who knows, the life you save may not be that of your "favourite" prof.

Friday, July 18, 1975  
Issue 8.6

# mathNEWS



FANG YOU!

## BLOOD DONOR CLINIC



## MATHSOC - ENGSOC BEACH PARTY



SWIM AT YOUR OWN RISK!

The Mathsoc - Engsoc Beach Party went down a week ago Sunday with bigger and better crowds than ever before. Sunny weather made the day and I can assure you, a good time was had by all.

Baseball games were played in the early afternoon and the bands finally got under way shortly before 4:00 p.m. after a slight delay caused by late arriving equipment. Milk and cookies were in plentiful abundance as the heat of the afternoon shone on.

Four band played to a crowd of between 400 and 800 (depending on who you ask -- Artsies voted low, Feds high), with the best performances turned in by "Saltspring Rainbow" and "Garfield". Sights, sounds and phenomena kept us all amused (the milk and cookies didn't hurt either) and included two nuce tots, one semi-nude not so tot (don't they have laws to protect us from that?) and several brave souls actually swimming in Columbia Lake.

The music was excellent and Garfield played their last song as the sun disappeared over towards Lakeshore Village. Somebody stole the beach and everyone went home. If only you can prevent concerts, then only you can make them.

The final summer social event was the Pub held by Mathsoc, Engsoc, and the Village last night (Thursday) and I assume a good time was had by all. Good luck in exams and I'll see you all in January.

Andy Elliot  
Mathsoc Social Director

## SPECIAL ISSUE 3

### The Freshpeople are coming

Have you ever wondered why the sky is blue, the sea green, your eyes red? No? Then you're the sort of person mathNEWS wants: moronic. Or if your are not moronic, but a Marquis de Sade fan, come and watch the morons make a mess of things, and maybe help them. Come one come all to the mathNEWS frosh Issue and help inform these poor innocent students on the State of Bunnies at Waterloo. The mathNEWS staff will be involving themselves with rabbits and other important animals on sunday 27th July not Saturday, July 26, 1975 as previously stated from noon in the regular room -- MC3011. As a treat for all of you who have never met him, Boff will put in a special guest appearance. Can you afford to pass this opportunity up?

For those of you who cannot make it to the above meeting, what better way to repent than to come to the first day of class Issue on Sept 3, regular time and place. Your soul will be saved from eternal torment.

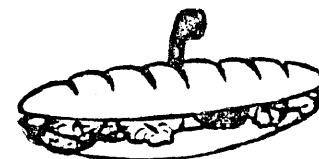
# MATH MINUTIAE

The last MathSoc meeting was held Tuesday, July 8 at 5:30 (late due to midterms) and was attended (eventually) by as many as 8 people. It lasted all of fifteen minutes (including the seven minutes it took to declare that four voting members was quorum). Phil thanked everyone who had helped with Antical (which is coming along better than can be expected). The Director of Internal Affairs' Interpretation of the constitution was presented, and defeated 3 to none with one abstention. Several minutes of stunned silence ensued, followed quickly by adjournment.

This week's meeting was cancelled seven hours before it happened and we played cards instead.

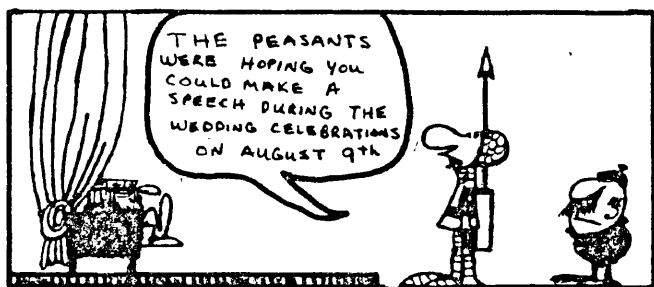
Next meeting will be on Tuesday, July 29. Lockers will have to be vacated by the end of exams. And some time in the near(?) future the central partition should be removed and "MathSoc" painted on the wall in 2 foot letters.

while you're away



During the summer, mathNEWS offered a subscription service for students who were off campus, on work term, or just for the summer. For \$1.00, many people received copies of mathNEWS mailed to them.

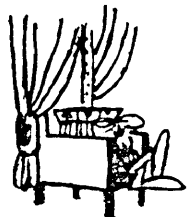
We're offering this service again this fall. However, as with other fine publications, inflation has forced us to boost our price to \$1.25. Informative! up-to-the-minute issues! To get a subscription, do the following: (1) Go to the mathsoc office, and someone there will take your name, fall term address, and your money. Alternatively (2) drop your name, address and \$1.25 into the mathNEWS mail box outside the math lounge, or (3) if you don't know where you'll be living, send us a letter. We will take subscriptions until mid-September.



## INGRIDCOMMENT

We would like to take this opportunity to mention the imminent wedding of one of mathNEWS' most valuable staff members (our fastest typist) Ingrid Splettoesser. Also the only person courageous (foolhardy?) enough to have done all those prof interviews...

Seriously though, the whole mathNEWS staff sends their sincerest congratulations. And happy Zeroeth anniversary...



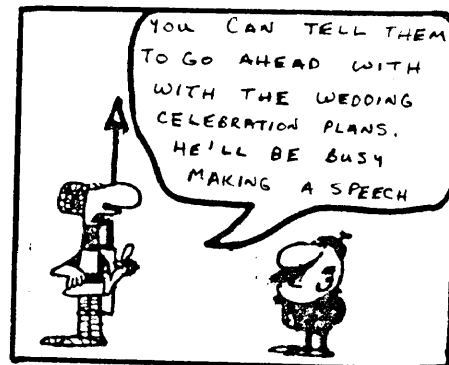
WHO'S WEDDING IS IT?

INGRID SPLETTSTOESSER, ESTEEMED mathNEWS STAFFER IS MARRYING FRITZ KNOWS AT SOMETHING OR OTHER CHURCH IN AGINCOURT

I'D BE DELIGHTED TO!



YOU CAN TELL THEM TO GO AHEAD WITH THE WEDDING CELEBRATION PLANS. HE'LL BE BUSY MAKING A SPEECH



Feed a cold, Starve a

heat resistant

# BURLOAF

This week, there is a letter defending the electric trains that are replacing two grad students. The trains are controlled by a computer, programmed by students taking a real-time applications computer course. Programming a computer to run a train system (or similar things) is not as easy as it may at first seem. This was discovered the hard way, when in California, a commuter train system known as BART was built. The trains were all computer controlled, and the programming work was not given enough time. As a result, they got a system that did things like run trains off the end of the tracks, and lose trains (They ended up with ghost trains, trains that didn't exist, but the computer though were there. These trains were real hard to find) However, it seems to me all the fun is going out of model railroading. Now, instead of spending a whole afternoon trying to make the biggest train crash, the computer can optimize velocities and timings to give the biggest smash up -- in a matter of milliseconds.

A few weeks back, the Engineers (you know, the people who are so sexist, they can't see the forest for the trees) had a parade through the math building. It's been rumored that a show of power was not the sole purpose of their visit. A while back, a patriotic mathie went over to the engineers habitat, and came across a place full of vending machines. He walked up to the microwave oven, and without even putting anything in the oven, just pushed one of the buttons, and caused the microwave to blow up. To succeed like this where others have failed (although this person has a reputation for making things act in funny ways) represents a great achievement for our side. Well, it was hypothesized that the reason the engineers paraded through here was because they were tired of cold hershey bars, and so they came here to warm them up in our microwave oven. However, the engineers (n-jineers I guess I should be calling them) did not pass through here totally uneventfully. A certain person who is not totally impressed with the engineers got rather irate and personally kicked all of the members of the parade. Apparently, she almost did in the drum but luckily for the engineers, she missed, so the engineers' travelling symphony orchestra didn't have to with only 2/3 of their cast.

The Honeywell has a new mail system up and running now, with lots of new features that the old system didn't have. You can activate it by typing !mail to the system prompt. A space before the word mail will also work (causing a lot of people to call the new mail "space mail", giving it a futuristic sound). With this mail, you can define your own groups (You put a list of names in a file, and then tell mail to direct your message to everyone in that file), you can prepare a message ahead of time and save it in a file and send from the file, and you can be more

selective when you want to kill mail in other people's mail boxes. There are also features that let you keep memos in your mail box (these are immune to clear commands), and you can send registered mail. Parcel post and reduced rates for printed material are still in the works. One nice feature of this system is that if your message is too long, he doesn't chop the line in the middle, he sends the complete line before cutting you off. The error messages are a little more helpful, although there is the odd problem when someone tries to send a message to Judy McMullan, and gets "jamcmullan has security locked his mail-box".

The Hacks are quite displeased with the recent disappearance of five of their blues. The five computer terminals were spirited away from the fourth floor hack room last week, leaving only three terminals for hack use (unless they want to use the Telerays reserved for the common people. Apparently, the Computer Systems Group "borrowed" the terminals. Even though they already have about two dozen terminals, I guess they figure, the more the merrier. You would think, though, they'd have the courtesy to do the public a service, and shang-hai the 2741's instead. The removal of these "rattle traps" is a rather nice thought.

Much likesome people become hooked on APL, reduced to spending all of their time writing "one liners", a few hacks are being converted to UNIXers. UNIX is an operating system for the PDP 11/45 with a lot of features that hack type people go for. The UNIX bug manifests itself in the form of subsystems with one syllable names (like "ar" for archive) and terse error messages.

Far all the people who learn QED, but have troubles because it's a little too powerful an editor (When you first learn QED, it's easy to type commands you think do one simple little thing, but turn out to do things like turn your file into a mass of commas.), there's a new editor, called EDM, which is like a toned down QED. It doesn't have all of QED's features, but it has most of the basics, and makes usage a lot less dangerous.

Now, we feature our INTEGER\_OF\_THE\_WEEK. This week, there are two integers for your edification and enlightenment. The first is:

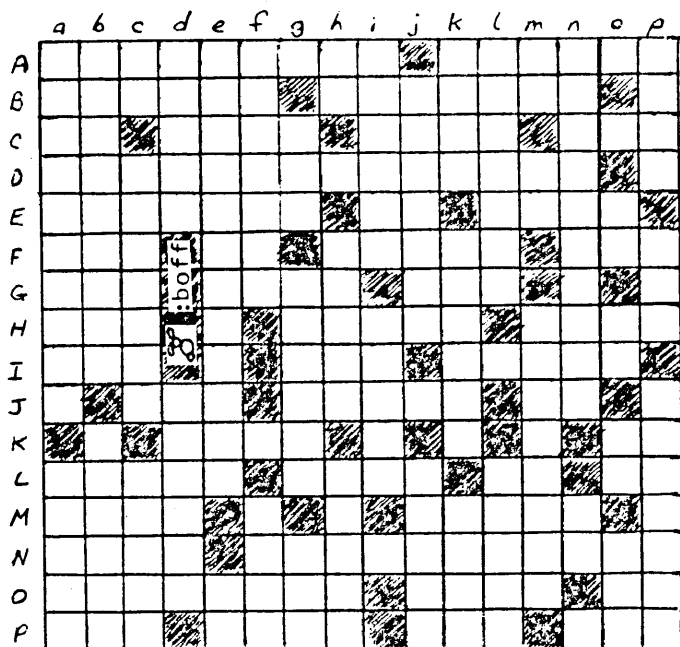
6

Six is a perfect number, which means all it's factors, excluding the number itself, add up to itself (i.e., 6 has 1, 2, 3 and 6 as factors,  $1+2+3 = 6$ ). There are other perfect numbers, like 28 and 496. However, 6 has the unique property that it's factors multiply out to itself,  $1*2*3 = 6$ . No other number has this property. 6 was the number Descartes' liked above all others, partly for this reason. Descartes was a mathematician (yes, U of U math students, there were indeed other mathematicians besides Gauss and Euler).

Here is our second INTEGER\_OF\_THE\_WEEK:

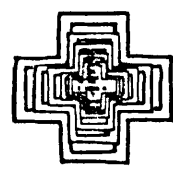
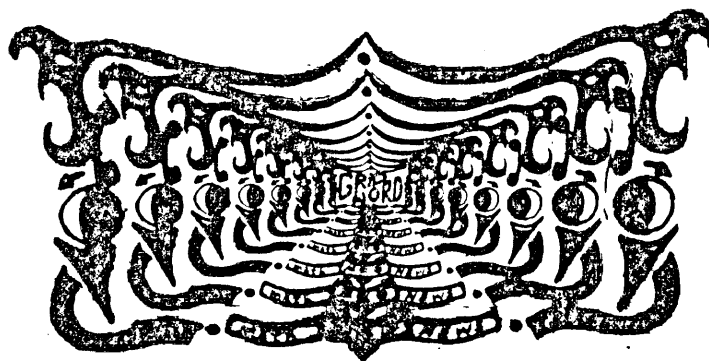
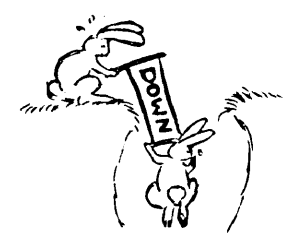
-47257

After much careful research, we have come to the conclusion that this integer is the all around most useless integer for general mathematical studies. You might say that 542528744854 is more useless. True, in certain fields of mathematics, such as topology, this number is more useless. However, for mathematics, our second INTEGER\_OF\_THE\_WEEK is without a doubt more useless.

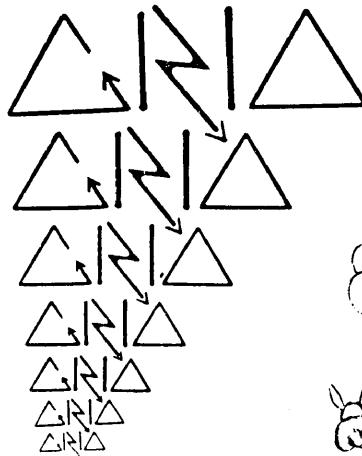
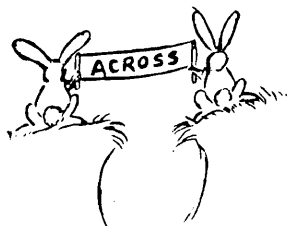


Ha a rearranged lip  
 Hg she launched 1000 ships  
 Hm tax  
 Ia fuss  
 Ig beam  
 Ik it is gorge-ous  
 Jc perish  
 Jg peculiarity  
 Jm empty ?  
 Ko burden  
 Ko strontium  
 La grassland  
 Lg 2-year old sheep  
 Ll see Ko across  
 Lo soalium  
 Ma a small inversion  
 Mj own up  
 Na slept with  
 Nf coarse and satirical humor  
 Oa honorary position with pay  
 Gj loathsome  
 Oo root verb of Ng down  
 Pa printer's measures  
 Pe old  
 Pj ontario service exams  
 Pn seen when mao

ALIVE? \_\_\_\_\_  
 ALIBI? \_\_\_\_\_  
 ALIAS? \_\_\_\_\_



Aa loud  
 Ab 3 times  
 Ac abraham's home  
 Ad to hunt illegally  
 Ae glowing  
 Af cuspid doctor  
 Ah consumption  
 Ai chicken  
 Ak plate  
 Al court sessions  
 Am moous operanal  
 An make remarks  
 Ap young salmon  
 Bj disgusting  
 Cg east house council  
 Dc an 8-legged animal  
 Dm southeast  
 Eo behola  
 Fh leading  
 Fk picture house  
 Fp flatulation  
 Gg the anointea one  
 Hl resting  
 Hm include  
 Ho south american  
 Ja antiseptic  
 Jp struck on the head  
 Kb arrest  
 Ko tin  
 La waltz  
 Lc the lower back  
 Ln set in  
 Lj volley  
 Ll grin  
 Mf gardener's basket  
 Mk raised floor  
 Mn reverse it  
 Ng plural form of Co across  
 No he was honest  
 Ce math option



Aa quillness  
 Ak silken cloth  
 Ba state seat  
 Bh blessing  
 Ca two-thirds of an error ?  
 Ca skin disease  
 Cl disadvantage  
 Cn sick  
 Da new liberalism  
 Ea of a science  
 El operating system  
 Ei enthusiasm  
 Fa often  
 Fe data system  
 Fn realized  
 Fn follow  
 Ga kanga's child  
 Ge acfo painting  
 Gj a singular miss ?



## son of Full Duplex:

### HALF DUPLEX

As you can see from the letters' column in this week's Issue, my previous article provoked a serious criticism from Professor Mike Malcolm. I must confess that I am taken aback with the degree of seriousness in which he took the column. But now I will make the same step and reply to his letter:

I admit I was in error about the purpose of the trains. I quite agree with the point he makes about the practical experience this affords with respect to Math 479a. His comparison is faulty, however. Physics and chemistry labs are intended solely to teach technical competence with typical (and usually obsolete) equipment. The equivalent math lab would be "YOU TOO can learn to power up a mini!"

The grad students WERE evicted. They had absolutely no choice about it. Their new office, albeit quieter, is also considerably smaller - about half the size of their former office. They had previously been offered a similar office elsewhere long before the train was even envisioned, and they refused to move. Also, they were not the only grad students to be shipped elsewhere.

I also neglected to mention the monetary factor this shifting of machines and material would yield. However, if the financial benefits are now so great, why was the Nova located on the fifth floor in the first place? It was always intended to be connected to the 'bun.

Having answered for last week's omissions, I am now going to ask Professor Malcolm why he felt it more important to correct the misunderstandings about the model trains, than to comment about high-school students taking precedence over grads? Is the B.I.U. on-the-hoof REALLY that important??

Turning back to lighter things, last Tuesday we were treated to the rare sight of a

semi-coherent mess of escaped n-jineers outside their confinement pit (buildings from n=1 to 4) and defiling the Math building with their presence. Unable to determine how to open the doors, they cunningly waited until some poor victim opened the door, and stampeded up to the second floor.

Blundering around, they accidentally found a stairwell and followed it up to the third floor, chanting one of their favorite nursery rhymes, "Mathies are nurds!". Of course, this debasement of the hollowed halls of Math by their presence did not go unpunished. In fact, one fired-up mathie (don't worry, judy, I won't tell them what your name is) shrieked down the stairwells to their vacant faces: "YOU F\*\*\*\*\*G DILDOES!!" and attempted to stem the tide of this mess of near-human flesh. Alas, despite her valliant efforts, they made through the third floor and out again unscathed.

But her efforts were not in vain. Due to her inspired delaying tactics, a squad quickly formed on the balcony to introduce the interlopers to the idea of the shower. They were most amazed by this magical display of water from the sky, and departed in a subdued manner, to transgress the sacrosanct halls of MATH no more.

And now, the wrapup:  
TO LEN TREMBLAY(3a E.E.):

Why are you complaining? 'Twas EngSoc and Engnews which created those stereotypes you object to.

TO JLBOTARI:

Any two physical quantities are related by a constant of proportionality.

TO "265":

Physics is the most fun you can have with your clothes on. (??? - Ed.)

TO MY LONG-SUFFERING GHOSTWRITER:

Forget the coffees. And cheer up! End of term is but three weeks away...

Goodbye for the term, people. We will see you on the other side.

*Ludwig von Zopfault*

Ludwig von Zopfault

## MAΘAETICS

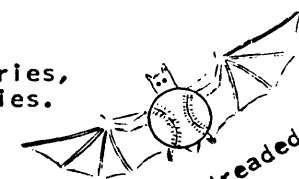


Three rings for the Elven Lords under the sky, Seven rings for the dwarf kings in their halls of stone, Nine rings for mortal men doomed to die. Thus endeth the summer 75 baseball dynasty of the house of J. J. B. T., and its lord Owen of Leibman called by the elves Caphishae. mathNEWS reporters were on hand at the Grey Havens today, and managed to speak to Owen just before he boarded Cirdan's midnight special for the Land Beyond The Sea. It seems that the JJBT members, being only mortal, blew it again. After being entrusted with the Elven ring Banya called by the men of the south "Kofaxes Bane" the ring which contained the power of baseball supremacy; the JJBT discovered that what held true at the end of the Third Age still holds true today. Value corrupts, and absolute value corrupts absolutely. Like Boromir of Gondor would have had Frodo (fbaggins) do, the One ring was used by JJBT

itself for the power contained within for their own benefit (ultimate and universally beneficial though it may be). The power was used by JJBT to traunce a team of chemical (comical) n-jineers last tuesday in Columbia field. A noble deed. But even so the price was paid dearly on the Village Green this week as a team of Optometry students (with 2 Nazgul, a troll and several thousand Uruk-hai Orcs) narrowly defeated the valliant forces of JJBT (assisted by the eagles of the north, the elves of the west, and the waters of Laurel Creek called by the elves Reekwash).

Owen reports that although he has been recalled temporarily by Elbereth, he only considers this a minor setback. He hinted that several more Istari (Wizards) should be bought up from the minor leagues, and that in a few short ages the JJBT should show why its middle name is Phoenix.

O Elbereth Gilthaniel,  
We still remember, we who yell  
In this far field amidst the tries,  
Thy starlight on the pop-up flies.



beware the

baseball bat

derail abort,

train not saved

## GRIDCOMMENT



Let us say, that a number of persons have made somewhat less than obscure references to supposed errors in last issue's gridword. In most instances they were correct. In all fairness to the defence, it should be pointed out that it is most difficult to compose a gridword whilst the late late show blurs into the early morning farm show.

Contrary to our prediction last week of -56 submissions for the gridword, we received 8, of which four were correct, one was from Ottawa and one from Don Mills. Those were not mutually exclusive sets. Wendy Higgins was the eventual winner, and as she submitted two answers she is privileged to seek out Randall (good luck) to obtain both halves of her tee-shirt.

Randall received a call from Pat Maynard in Ottawa this afternoon, who wanted to know if her entry had arrived. We actually had it then but he didn't know it at the time. Too bad Pat, you lost, but clean living works every time.

In answer to "HIEROGLYPHIC" we received several replies which when translated, turned out to be obscene; an admission that Tom Sipos doesn't even know his LOWROGLYPHIC; and the following:



This week our grid pest award goes to David Taylor who manages to fill my mail-box full of comments about my gridword, but never manages to hand one in. I won't suggest that you should send him a few garbage messages (ataylor) but.....

We also had a rather cryptic message in our third floor mailbox. We're not sure if it says that, "mathies are nurds", or if it is a message from "nurds" telling us that mathies exist. Speaking of nurds; don't forget G.L., W.L.H. and J.M..

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	U	L	T	R	A	B	R	I	C	H	T	M	A	N	A	C	L	E	
B	N	A	R	P	O	E	T	A	H	E	A	D	R	A	I	N			
C	C	V	A	N	I	D	E	U	P	W	I	N	D	D	R	E	G		
D	L	N	O	T	I	F	Y	P	A	I	S	S	U	E	D				
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P	H	L	A	I	R	D	O	C	T	O	P	U	S	A	L				
Q	A	I	D	D	C	A	N	N	R	E	A	S	S	U	R				
R	R	O	U	G	E	A	M	O	E	B	A	I	O	S	E				
S	E	N	D	E	M	I	C	T	Y	M	P	A	N	U	M				



MathNEWS welcomes your criticisms, comments, suggestions, etc. All letters should be signed, but if requested, a pen name will be used. Put your feedback article in our mailbox on the 3rd floor outside the lounge, or mail it to us on the 'Bun' (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

### mathNEWS:

The July 4 article on pecking order, model trains, etc. may have created some misunderstandings due to its incorrect assumptions. I would like to respond to a few of them. The model train which recently appeared in the Math Faculty is part of the Computer Science Department's Real-time Laboratory. The lab also has a Nova/2 minicomputer, a Microdata microprogrammable minicomputer, plus various peripherals, interfaces, and terminals. This lab has been developed during the past year as an educational facility similar to a chemistry or physics lab. Its purpose is to provide students with hands-on minicomputer experience and exposure to related things such as interfacing and real time applications programming. Specifically, the model train is an excellent source of real-time control problems for students of Math 479a (Real-time Applications of Minicomputers). It is not used for research, as indicated in the article. Students in Math 479a this summer are writing various programs to solve various problems, such as: running two trains while keeping them from bumping into each other; sorting cars in the switchyard; moving train from point A to point B via the minimum path route; etc. I think the model train, as well as the rest of the lab, is a fun and realistic way to learn about technical tools and problems such as real-time operating systems, interrupt processing, cooperating sequential processes, computer interface hardware, etc. Since the train was built, the lab has needed more space. The grad students were not "evicted from their office in order to make room". They were given new offices on the 6th floor. There are several reasons for moving the lab to that location. For example, it is close enough to the Honeywell to save thousands of dollars worth of modems. Also, for ease of student access and to reduce noise levels in other areas of the building, it seems reasonable to place new lab areas on the 3rd floor. It is my understanding that the "evicted" graduate students' new offices of the 6th floor are in a considerably quieter area than before.

Michael A. Malcolm  
July 8, 1975.



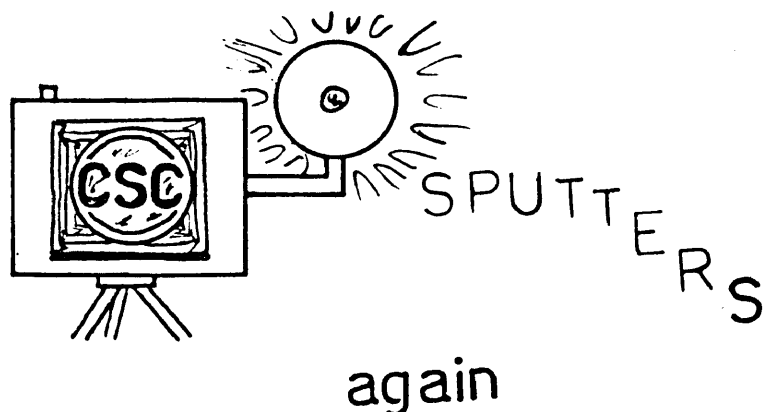
some more

## FEEDBACK

Re your cover story on Enginews:

It would be extremely helpful if you actually published the name of the author onto whom you are trying to pin responsibility for the article. This also goes for some of your other articles which are deserving of recognition (good or bad). Make any sense?? hmmmmmmmmmm?

Mike Ruwald



The CSC has done it again!  
Another fiasco has occurred. This time, we had about twenty people attend the lecture, including Carol Vogt, Roger Watt, and Randy and Shirley Helen (all from the Computing Centre) to hear Prof. Eric Manning talk on "Computer Networks: Speculations on the Future". All went well up to a point - the point at which Prof. Manning was supposed to start his dissertation. Seems he had neglected to make a note of this appointment and didn't appear...

These things happen to the best of us, unfortunately. Which makes the CSC very good indeed - two wipeouts in a row!

Other events at the meeting - it was announced that the CSC has some surplus and obsolete manuals (which are not yet sorted) which will be available to the general public at nominal cost, and at reduced rates for CSC members. It was announced that the CSC library 'Bun manuals were now sorted, and five out of one hundred and twelve were missing and presumed dead. The total number of manuals the CSC now possesses is somewhere over three hundred.

And so concluded another CSC session on the same happy note - the sound of devouring doughnuts and emptying coffee cups. We of the CSC exec hope that those of you here next term will see the CSC off to a flying start. See you next summer...

Russell Crook.

(I feel it should be noted that the "editor's note" on the particular article mentioned was put there by the author of the article, not the editor... as for the authorship of articles in general, our policy has been, and will probably continue to be, to print names if the author wishes or, sometimes, a pseudonym... who the actual author is, is generally an open secret, and anyone could probably find out by coming to a production meeting... the editor)

## EXAMS

It is that time of year when co-op students find it particularly hard to obtain any sort of life insurance. Yes I am referring to the end-of-term blues, also known as the examination period. This term all of the exams have been scheduled in a 8 day period, so you'll have to be on your toes if you have to write many.

Attached is mathNEWS' copy of the schedule. Use it in good health and, remember, no matter how bad it seems now tomorrow can be worse.

<u>COURSE DIV</u>	<u>DATE</u>	<u>TIME</u>	<u>LOCATION</u>
119A CMB	AUG 5	9:00	GYM 4
119B CMB	AUG 8	7:00	GYM 1-2
120A CMB	AUG 2	2:00	GYM 6
120B CMB	AUG 2	2:00	GYM 5-6
122A CMB	JULY 26	9:30	SEE PROF
129 CMB	AUG 5	2:00	GYM 2-3
130 CMB	AUG 2	2:00	GYM 1-2
132B CMB	AUG 4	9:00	GYM 5
217 CMB	AUG 4	7:00	GYM 5
219 CMB	AUG 8	2:00	GYM 1
223B CMB	AUG 5	9:00	GYM 2
229 CMB	JULY 31	2:00	SEE PROF
233 CMB	AUG 5	9:00	GYM 1-2
235A CMB	AUG 8	9:00	GYM 8
235B CMB	AUG 5	2:00	SEE PROF
237 CMB	AUG 2	7:00	GYM 1
239B CMB	AUG 2	9:00	GYM 4-8
240A CMB	AUG 5	7:00	GYM 1
300A CMA	AUG 4	2:00	GYM 5
312A CMA	AUG 1	9:00	SEE PROF
320A CMA	AUG 7	7:00	GYM 1-2
329 CMA	AUG 4	9:00	GYM 2
332A CMA	AUG 1	9:00	SEE PROF
334A CMA	AUG 8	9:00	GYM 7
335A CMA	AUG 8	7:00	SEE PROF
336A CMA	AUG 5	2:00	SEE PROF
338A CMA	AUG 2	2:00	SEE PROF
339A CMA	AUG 8	2:00	GYM 5
349A CMA	AUG 2	2:00	SEE PROF
352A CMA	AUG 6	9:00	SEE PROF
371A CMA	AUG 8	1:00	GYM 5-6
418A CMA	AUG 7	2:00	SEE PROF
435A CMA	AUG 8	7:00	SEE PROF
437A CMA	AUG 2	2:00	SEE PROF
452A CMA	AUG 4	2:00	SEE PROF
467A CMA	AUG 5	9:00	SEE PROF
474A	AUG 2	9:00	GYM 6





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