

Pre-Registration

The Pre-Registration for the Winter '83 Term occurs 2-4 June for Co-op students. Make your course selections now, and get ready to pre-register.

MathSoc Office Open

The MathSoc Office is ready for business once again. The office hours (as of press time) are 9:30 to 10:30 a.m. Monday to Friday. The photocopier is operational, too, and it's still a nickel a page. Staplers, t-shirts and buttons are also available. Come down to MC 3038 and support your MathSoc office.

Also, volunteers are needed to run the office. It requires little effort and it does not take up that much time. More details available at the MathSoc office.

Volume 29 Number 1

Friday, May 28, 1982

Looks like a fish
Moves like a fish
Steers like a cow

math NEWS


Under New Management

Village 2 Accomodation

Accomodation is available in Village 2 this summer (3 May to 27 Aug.). Rates are Single \$19.00 and Twin \$15.50/person (plus P.S.T). The price includes complimentary breakfast. Phone 884-5400 for more details or reservations.

DEAR READER:

THE EDITOR HAS VETOED ANY ATTEMPTS AT CREATING BLATANT FILLER IN THIS SPACE.

-except this one 

MFCF Upgrade Completed!

We extend a hearty "thank you" to the many people who worked on upgrading the Bun. The people partly responsible for recabling the machine and terminal rooms, rearranging hardware, and installing new disks, communications processor and CPU "accelerator" (all donated by Honeywell) were, in no particular order, Gary Embro (operations), Ron Hosler (HW field engineer), Keith Dorken, Keven Martin and Peter Fraser (software wizards), Kim Martin and Mark Stavely (hardware), Beryl Wall (encouragement) and Ray Butterworth (who struggled to get the communications running on all 76 cylinders), and anyone else we missed in this list. Dave Martindale orchestrated a recent VAX upgrade in which 16 more ports were added to the system. The net result of all of this will be (we pray) a much improved computing facility.

From The Dean's Office

Two students from the Faculty of Mathematics have been suspended recently.

The Senate regulation governing suspension contains the following:

"A student may be suspended from the University for a period which shall not exceed three years. While suspended, a student may not register in the University and shall lose the right to attend lectures, write examinations, and receive remuneration from University sources. Notice of a suspension shall be placed in the student's file and will appear on any transcripts issued during the period of suspension. Upon completion of the period of suspension, the student will be eligible for reinstatement to full academic status and the notice of suspension will be removed from the student's permanent record."

In the first case, the student falsified information on his application for admission to this university; he omitted any mention of his attending another university previously. The penalty was suspension for one year.

In the second case, the student sought assistance for a take-home final examination from a teaching assistant even though the instructions on the exam specifically told him not to discuss the examination or seek assistance from anyone during the examination period. The penalty for this infraction was suspension for one term and a grade of 0 in the course.

THE Editor's Ramblings

Lovely ladies, kind gentlemen, pleased to introduce myself. Jim Jordan by name; student by profession. Education by U of Waterloo; **mathNEWS** editor by...whim of God. (I extend apologies to the author of *The Tea House of the August Moon*.)

Sitting here at the terminal, I realize that what I have written is not really what I would like to say here, so I shall wing it and just enter what comes to mind.

mathNEWS is produced by a few students who want to do something for the other students in the faculty. I personally feel that these few students should be commended for their efforts (and often that you should be commended for reading some of the stuff—like this pseudo-editorial). However, **mathNEWS** cannot survive without your help. We (OK, so it's the royal "we" and it should be "I"; after all, I'm writing this, not the rest of the staff (hey, this is getting to look like the masthead and it's not even production night!)) would be grateful to anyone else who takes the plunge and writes an article or pastes up a page for **mathNEWS**. It doesn't take much to become a **mathNEWS** staffer; I shall quote from the **mathNEWS** constitution (Paragraph 3.1) to explain the definition of a voting staff member.

"A voting staff member shall be defined as any full member of the Mathematics Society who, at the time a vote is called, has had any possible combination of the following (repetitions allowed):

1. one article published;
 2. eight column-inches of published material typed by him/herself that was not co-written by him/herself;
 3. has laid out at least one-half of one published issue by page count in their last two months as students registered on campus.
- The editor shall keep a written record of precisely who has contributed to each issue, and this record shall be open to examination and challenge by any student."

That's all there is to it. Even if you contribute an article every month, it's enough to become a **mathNEWS** voting staff member. I don't mind entering the article into the Bun—especially if it is something relevant to the students in the Faculty of Mathematics. If you know something that is happening and no one else does, write it up and stick it into the box across from C&D on the third floor. If you don't like the way **mathNEWS** looks, show up at a production meeting and make your suggestions. We'd (there's that royal "we" again) appreciate it, and I'm sure the readers will, too. If you wish, I can leave your name out of the credits, but still keep it on file as a contribution.

mathNEWS exists to inform and to entertain you. A small group of people cannot please a considerably larger one. That's why I am asking (begging) you to lend a hand, give us some feedback or, at the very least, give a damn about **mathNEWS**. A box has been placed on the wall across from C&D on the third floor for you to tell us what you have to say. I hope that **mathNEWS** will soon be better than it ever was. It can be—but not without your help.



ISSN 0705-0410

mathNEWS is a biweekly publication of the University of Waterloo Faculty of Mathematics students. It is funded by the University of Waterloo Mathematics Society, and is produced by an all-volunteer staff. Content is the responsibility of **mathNEWS** staff and editors.

Any inquiries may be directed to
mathNEWS
MC 3035

University of Waterloo
200 University Avenue West
Waterloo, Ontario
N2L 3G1

PLATTER SPATTER

The Gift
The Jam

The Jam are a British band that until recently have had only a cult following on this side of the ocean. Led by guitarist/songwriter Paul Weller, their fast and furious sound is influenced almost equally by punk rock, the Who, and mid-sixties R&B, and they have been turning out albums at the rate of approximately one a year since 1977. Their newest album, "The Gift", differs from its predecessors in two ways. First, it's shorter than the average album, containing only a little over 32 minutes of music. (Most albums are between 36 and 45 minutes long.) Second, the Jam employ sidemen on brass (Steve Nichol, trumpet, and Keith Thomas, saxophone). However, except for the ill-conceived "Precious", which is as close to disco as the Jam will ever get, this album is similar to other Jam albums, with its great strength and weakness being that Weller and company take themselves, and their music, very seriously.

On the positive side, the Jam are extremely competent and work very hard; however, this very intensity and seriousness (look at the determination on their faces!) makes listening to the Jam for an extended period of time a somewhat irritating experience. Thus, the best songs on this album are the ones on which they let up the pressure a bit: "A Town Called Malice" (the first Jam single to make it on the local charts, and a good one it is, too!), "Ghosts" (with some especially nice trumpet work), "Carnation" (featuring Weller on piano and organ), and bassist Bruce Foxton's instrumental, "Circus".

Still, it's better to be faulted for trying too hard than for the opposite; and in a music scene where many people get away with a half-assed effort, the Jam are a breath of fresh air.

David Till

C & D Stand

The Math C&D Stand is once again operational. The stand is selling such goodies as (you guessed it) coffee and donuts, and assorted stuff such as pop and subs. Reasonable prices, too! The C&D is located on the 3rd level of the MC at the undergrad lounge.

Incidentally, the C&D staff is seeking opinion about the C&D. Spare a few minutes and fill out the C&D questionnaire while you're up in the 3rd floor lounge.

Crypto-Find

The following is a tortuous puzzle created by Walter Robertson, a former UW student who haunted the campus last Fall (and at last report he is presumably in Ottawa, working).

This puzzle is a word search puzzle, except that the search grid has been encyphered, but the words to search for have not. Every letter on this grid is used at least once, but there are no guarantees that every word has at least one letter in common with another word, or even that every word appears only once.

This puzzle is very challenging, indeed, and readers are invited to submit solutions (there will be no prizes, however, just fame). We ask you, the reader, to solve this because mathNEWS does not have the answer. It is probably up there in Ottawa with Walter.

The word list is:

DREAMS	MACH	REGGAE	TRIAL
HARD	MAO	REMAINS	WHO
HAUNTING	MOZART	RING	WOOD
HEAVY	NATIONAL	ROD	HOME
NEW	SLEEP	HORROR	ONE
STONE	HOT	OPERA	SUN
LAST	THE	PASSION	

Z	M	F	Z	G	Z	A	R	M
M	B	S	B	U	Y	S	G	Z
O	G	B	N	S	Q	F	B	E
G	O	G	S	Q	I	K	M	V
S	S	R	K	F	W	M	S	B
H	K	M	B	M	V	A	O	G
H	A	K	F	A	W	S	Z	S
G	Q	K	R	G	G	N	Q	O
B	M	B	B	M	Z	L	S	O

CRYPTO - FIND

Of Lettuces and Prime Ministers

I have forgotten why I came to this fantastic place. It could have been the campus. Having a tradition of its own and some financing, it did the best it could with kind clusters of buildings grouped together on a vast amount of beautiful green space, occasionally low to the ground, but more often standing proudly like the Dana Porter Arts Library. The sole condemning feature of the whole beautiful picture is the Environmental Studies II building, but I cannot say whether I am pleased that the architects finally decided to display their masterful skills openly instead of cloaking it in tired functionality, or upset that I do not pass the jewel every time I take a bus from the Village stop. At least it provides a convenient lift for the students who need to see their good fortunes reflected in something else.

It certainly may be the social atmosphere. The few bad people have no doubt been weeded out by whatever screening process is used to select Village residents. I have no idea how I escaped elimination, though it is beginning to look like several hours a day on that marvelously efficient transit system would have been a large price to pay to have missed living with such scholars. My roommate is a good example. Coming through his room on the way to watch the sunset one evening, he looked so great that in the spirit of friendship I invited him along. When he accepted gratefully, I was so enthused that I began singing an aria from Rigoletto. This brought several gratifying remarks (unfortunately, directed to a race of which I am not a member) and a promise to buy me a pizza. It was just as well. Sunsets are appreciated by such as he.

The rest of my fellow frosh (who insist on being addressed by the glorifying appellation "freshmen") are no worse. While they are not busy sipping dry white wine, they are discussing methods of wooing the beautiful, eloquent creatures who inhabit the floor above (though I must admit that the thought of two such intelligent collections of people in vigorous and mutual copulation would provide a great amount of amusement, especially considering the enchanting thought of the superior children who would almost certainly be produced from such unions). Perhaps part of the credit should go to an Orientation purposely designed to keep them as oriented as

possible, I am sure. For my part, I have managed to respond to their repeated calls to mid-day rallies of constructive behavior such as meeting in the Theatre of the Arts. Once the last load of art lovers had merrily strolled out of the Art Gallery the only distraction came from the janitor attempting to keep me from putting my feet under his buff-waxer. The curator came by every so often to bring to my attention another great work of art, but I was usually in so deep a contemplation it was difficult to say who pointed out details to whom.

Yes, it may have been the reputation of academic excellence, though I realize now that they were definitely berated by modest alumni desperately trying to tone down a reputation where such a great one existed before, and given credence by chartered accountants, life insurance salesmen, and the like. The first class was an eye-opener. A tall, well-dressed, athletic man lept onto the main platform. He and the class acknowledged each other's presence, and when he started to erase the blackboard, I assumed he was a member of the faculty. He turned out to be the janitor, as I discovered when he started putting up "No Smoking" signs above the blackboard while loudly singing a rousing version of "Morning Has Broken". At first I thought the fortunate fellow was a rock singer, but I soon realized that he was attempting an excellent imitation of Cat Stevens. This was no doubt affected to display the fact the majority of his salary goes to support a colony of relatives in some cultured haven like gay Paris (pronounced Par-ee). Even sitting in the back row, as is my wont, I could make out every syllable. The class took well to my repeated requests for encores, preferring to listen intently rather than reading their copies of "Finnegan's Wake" for the third time that week. They shan't need more books soon, for their brains will continue to thrive.

The one bad thing arising from this experience is that I can tell my parents, who with their usual faith expressed no doubt in my ability to cope, that there is a possibility I will wash out of this place academically. I will be writing this column as often as my schoolwork permits, which, if present trends are an indication, should be seldom indeed. My main purpose is to live up to the standards of this paper, and judging from the content of the issue that was mailed to me, I can see how this may fail to occur. So until next time, I remain

Telerider

The friendly folks at Kitchener Transit have installed Telerider, a computerized voice announcement system which indicates the time the local buses arrive. Just dial the number on the bus stop sign nearest you and you will shortly hear how many minutes are left before the next bus arrives at that stop. Convenient? Yes and no, depending on how far away the nearest telephone is and whether the buses are running on time. If you use the service, please allow the bus a few extra minutes to arrive. (Or even a few minutes before, if the bus comes amazingly early.)

UW Arts Centre News

The Gilbert and Sullivan Society, Waterloo Regional Branch in conjunction with the UW Arts Centre presents the Gilbert and Sullivan operetta "The Pirates of Penzance" or "The Slave of Duty". It's a fully staged production with full orchestra, beautiful costumes and magnificent sets starring some of the area's most talented singers. It is the very model of a modern major musical! Performances run from Wednesday, June 16 to Sunday, June 20 at 8:00 PM all days except Sunday, when the operetta will be performed at 2:00 pm. Admission is modest: \$8.00 for adults, \$6.50 for students and senior citizens, and a group rate of \$6.00 each for 20 tickets or more. See you there!

The Life of a Co-op Mathie



(WITH APOLOGIES TO OBNOXIO THE CLOWN)

Words: For Edification and Amusement

As an aid to increasing the non-mathematical vocabulary of math students, the following words are hereby presented:

- calefactory (n.) Warm room in a monastery.
- callipygous (a.) Having well-shaped buttocks.
- reredorter (n.) Latrine behind dormitory of convent or monastery.
- squiffy (a.) Slightly drunk.

Compiled from the "Concise Oxford Dictionary" by the University of Waterloo Society for the Preservation and Popularization of Obscure, But Interesting, Words.

Frisbee Throw

The traditional Frisbee at Noon event is being held this summer. Come to the Math/Bio field at noon and participate by throwing the little plastic disks all over the campus. You need not buy or bring your own Frisbees since the Frisbee Fund provides them. The only cost to join is One (1) Canadian Dollar (they will also accept American or Australian dollars without hesitation--this is the aforementioned Frisbee Fund--WJJ) to cover Frisbee losses (i.e. stranded Frisbees on the MC roof, drowned Frisbees in Laurel Lake, etc.) Come and join the Frisbee tossers as they strive for Frisbee accuracy!

Questionnaire

Please take the time to answer this questionnaire and drop it in the box across from C&D on the third floor. Your comments and suggestions may well shape the future of mathNEWS. Any suggestions for change or improvement would be appreciated.

1. Did you like this issue of mathNEWS? Why or why not?
2. What would you have done to improve this issue?
3. List, in order, the three items you enjoyed the most from this issue.
4. List, in order, the three items you enjoyed the least from this issue.
5. What would you like to see more of in mathNEWS?
6. What would you like to see less of in mathNEWS?
7. Would you be willing to help produce (write, paste up, etc.) mathNEWS? If yes, please write your name, address and phone number on this page as well.

Your responses will be summarized and printed in the next issue (if there is a next issue) of mathNEWS.

```
{waiting for godot}
program(output);
while(godot not there)do
  wait;
end {which is never executed}.
```

crypto time

This unusual code is created by taking pairs of letters and performing a common arithmetic operation on each pair. The numerical values of letters are A=1, B=2, ..., Z=26. Spaces count as 30. Here is the code:

160 171 270 570 160 150 65 361 7 150

There are no prizes if you get the secret code, but you might win some fame (i.e. some mention in the next mathNEWS).

Finally, for a little more challenge, try to figure this next puzzle:

What is the next letter in this sequence?

W I T N L I T ?

We apologize most sincerely to those of you who picked up this issue of mathNEWS expecting to find a hilarious cartoon here. This cartoon is missing because we lost it. But take our word for it - it was great. We laughed for hours.

Unclassifieds

BYTES For Sale

Past issues of BYTE magazine since January 1978 plus subscription for issues to February 1983. All 62 magazines for \$31.00 or best offer (if I like it). Contact BWLutek if interested.

If you have something for sale, would like to buy something, want help with something or want to pass a message on to someone, and would like to make it known, we at mathNEWS would like to help you. Simply write what you have to say on a piece of paper, sign it and print your name, student id and phone number below your signature. Then drop the paper in the (presently) black box across from C&D on the third floor. Voila! It will then reappear (magically?) in the next issue of mathNEWS.

We will accept only personal ads and reserve the rights to edit and refuse to publish any ad. All ads must be submitted by the deadline posted by MC 3035 and around the building.

Honeywell users may submit ads through the mail facility. Simply mail your ad to userid mathnews.

mathNEWS Calendar

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
RECENT HISTORY					MAY 28	29 THEATRESPORTS NOVICE WORK- SHOP 10AM CC
					FED FLIX:	ALL THAT JAZZ
30 HAVE YOU GOT YOUR CSC MEMBERSHIP YET?	31	JUNE 1 SPLITENZ AT BINGEMAN PARK FASS MEETING	2 CINEMA GRATIS: CATCH 22 WINTER 1982 REGISTRATION	3 3 PRE- ON TO JUNE 4	4 THEATRESPORTS 9:30 PM HH180 mN deadline FED FLIX:	5 ALIEN
6	7	8 mN PRODUCTION MEETING	9 CINEMA GRATIS: LORD OF THE RINGS	10	11 DROP DEADLINE! mN reappears? FED FLIX:	12 SILENT MOVIE
13	14 THERE APPEARS TO BE NOTHING ON THIS SIDE OF THE PAGE.	15	16 CINEMA GRATIS: WILD IN THE STREETS	17	18 THEATRESPORTS FED FLIX:	19 ON THE M.O'FRONT
20	21	22 FASS MEETING	23 CINEMA GRATIS: LA CAGE AUX FOLLES II	24	25 FED FLIX:	26 CAT BALLOU
27 ON A CLEAR DISK, YOU CAN SEEK FOREVER.	28	29	30 CINEMA GRATIS: CASABLANCA	JULY 1 DOMINION DAY HOLIDAY WEEKEND!!!	2	3

Introducing, the mathNEWS Calendar, a handy source of information for Math students. Special concerts, Cinema Gratis, Fed Flix, important dates are all recorded in the Calendar. Read and enjoy June's calendar, then keep the calendar for a dartboard when July's calendar is printed. Hopefully we will have one in

every issue to help keep you informed about what's happening. If you know of an upcoming event, let us know about it. Leave the information in the black box across from C&D on the third floor, or, if MathSoc is open, get the person in the office to put it in the mathNEWS mailbox. Honeywell users can, of course, mail the message to userid mathnews.

Use this space for your own memos, etc.

Chess Club

Despite popular opinion, "Dungeons and Dragons" is not the only non-drinking game in the world. In fact, there is a group of people who meet every Wednesday night at 7:00 pm in CC135 and actually sit down and play one of the oldest games known to mankind. These madmen/geniuses (genii?) call themselves the Chess Club. It is a relatively small group, and, as such, is currently on a massive recruiting campaign. If anybody is interested, they are welcome to drop in and participate in this phenomenon (I assure you, this is not a cult!). For more details, or confirmation of the accuracy of this article, contact Peter Gogolek in room MC 6098A.

Cryptic Cryptogram

ON THE UKIK TKHEY YL NOGVIK OE
PKRHMKWOTHZ GLM ULVZM PHQK SVY
KOGPY NOEGKIA LE KHWP PHEM

Solution next issue.

Drop Deadline

The deadline for dropping courses and/or withdrawing without academic penalty is June 11, 1982.

It's 10:38 PM. I think we have just set a record for the fastest mathNEWS ever produced. But I couldn't have edited it without help from my fantastic(?) ground crew. In no particular order (~~xxxxx~~ except alphabetical), this weeks writers were: Dr. Richard Bartels for the info on the ~~xxxx~~ MFCF upgrade; Neil Campbell (words); J. Chris (shades of E. Stastes in 'Of Lettuces and Prime Ministers"); Mark D'Gabriel (this summer's O&D manager) (guess what he wrote); our distinguished Dean, Dr. J. Alan George (Dean's Office); yours truly (editorial, ad regulations, u-name-it-i-edited-it, hmmm...it's time to move on to someone else); David Leibold (calendar idea, crypto-time, frisbee, MathSoc office, pre-registration [got your courses picked yet?], telerider, and the note on being able to stay in Village Zoo (the cost is per night)); Glenn McFarlane (Chess Club); Walter Roberson (~~xxxxx~~ crypto-find); David Till (platter spatter, drop, dead. (no, it's short for "Drop Deadline")); John Winterton (another cryptogram--and thus the first submission for our next issue!!!!); and finally, the people ~~xx~~ at the UW Arts ~~xxxxxx~~ Centre for their blurb on the Pirates of Penzance. So much for the writers...now for the producers. Our duly acclaimed production manager is Mr. James Puttick (thanks for the accent over the 'o' in 'Editor'), and our always faithful assistants tonight were: David Till (a former editor--I think mathNEWS will never quite get out of his blood), Neil Campbell, Glenn McFarlane, and David Leibold (after a few tries we got some filler I liked (there was also some questionable stuff, but by then it was too late)). I extend a hearty thank you to you all. Tracey Allen just came in and asked if the masthead was longer than the rest of the issue. It sure seems that way. Now she's happy that she got her name in (I think she came in here on purpose), she's happy. Guy Middleton just suggested I quote some Bob Dylan. I might, if I had the lyrics right nearby. Oh, well. This migrate is killing me. How can I finish off the masthead (no, I can't stab it (excuse me, I'm talking to my conscience again--I don't know how anyone can be forced to read this))? How about a limerick?

A young race car driver named Breen
Had the fastest machine on the scene.
With no cops in sight
He'd go fast as light,
And blue-shift the red lights to green.

That does it! It's been relatively real. Only 4 more plus the frosh issue to go. Have a good weekend! WJJ

mathNEWS