

while you were away

HIGH
LIGHTS



WHAT HAPPENED ??

Review of the Winter Term 1975

January

mathNEWS celebrated its second anniversary. MathSoc president Jim Langer promised to take action if sufficient response was made by the students about the new changes the Math Council had slipped thru in December. The changes restricted a student with an average of less than 75% to a maximum of 6 courses. The response of 60 against and 1 for was deemed insufficient for action.

The MathSoc committee on smoking, chaired by Mike Rolle, presented its report. The only major item of the report which MathSoc Council approve (12-1-0) was that smoking not be allowed in the C&D part of the Math Lounge.

mathNEWS published an estimate of how big the semiformal deficit would be and MathSoc president, Jim Langer, threatened to close down mathNEWS.

February

mathNEWS started off the month with a change in format to reduce costs. Each column of print was made wider so we could squeeze more on to fewer pages.

Senate rep, Joe Carpenter, asked for comments on a plan to change class lengths from 50 minutes to 80 minutes.

In response to demands for greater truth in the sports department, mathNEWS separated things into 2 columns -- FICTLETICS and MATHLETICS. Kathy-X (the star of Fictletics) threatened to take violent action with her chainsaw against members of the mathNEWS staff.

The semi-formal starring LIGHTHOUSE and FULLHOUSE was held. The majority opinion was that a Full House was better than a Light House. The last guess by mathNEWS on the size of the deficit was MMDLXXXVIII. When the figures finally came out, mathNEWS was only out by \$34.55.

Burloaf started off a series of articles on bases with base 1.

mathNEWS declared itself to be no longer a weekly publication due to financial problems.

(Continued on Page 6)

Friday, May 9, 1975.
ISSUE 8.1

math NEWS

SPSS SEMINAR

The Department of Statistics and the Department of Political Science at UW are sponsoring a visit to this campus in May by Dr. Mark Franklin, Senior Lecturer with the Department of Political Science of the University of Strathclyde in Glasgow, Scotland. Dr. Franklin is currently at the University of Chicago's National Opinion Research Center, as a member of the project which is developing an interactive version of SPSS, the widely-used "Statistical Package for the Social Sciences".

On May 15, at 3:00 p.m. in room 2083 of the Psychology Building, Dr. Franklin will be giving a seminar on the capabilities of the interactive SPSS; the seminar will be oriented towards potential users of the interactive package, and hence will assume no previous knowledge of SPSS on the part of the audience.

Dr. Franklin will be available after the seminar for informal discussion with those interested in the technical and design aspects of the package and its implementation.

HELP !

mathNEWS NEEDS PEOPLE

mathNEWS is desperately in need of people to help us put out this weekly rag. If you like sports, that's great because we could use a good sports editor. All you have to do is show up to the next mathNEWS meeting and we will put you to work.

Also needed are typists to get the copy into the computer. We'd like people who know qed and roff, but if you don't know these systems we will teach them to you. They are easy to learn and you will be able to use them to type up essays and reports.

Artists - you may have noticed the considerable lack of artistic talent displayed in this section. If you would like a vehicle for your drawings and cartoons, come in next week or drop them in our mail box.

The next meeting is Tuesday, May 13 at 7:00 pm in M&C 3011.

the Dean ON THE PUTNAM



The report on the William Lowell Putnam 35th Mathematical Competition was as follows: 2159 individuals competed from 374 institutions of which 306 entered teams. From Waterloo, 22 students entered, and the Faculty of Mathematics Team consisted of Steve Locke, Ed Severn and Richard Anstee. As most people will know by now, our team was placed first, with the University of Chicago coming second, and the California Institute of Technology being placed third. In addition, one of our students, Grant Roberts, was placed in the top five individual contestants, although he was not in our official team.

It is, incidentally, the first time that the University of Waterloo has won this contest. These results, together with the winning of the North American Computer Chess Championship make this an outstandingly good year for our Faculty. We probably have had the "raw material" for many years, since many good students are continuously being "discovered and nurtured" through the Junior Mathematics Contest, the Descartes Mathematics Competition and, more recently, the Euclid Competition, but this year through everyone's superb efforts, we have been able to win the top prize. In this connection, the work of Professors Rod Cooper and Murray Klamkin should be acknowledged and, again, our candidates are to be congratulated on this signal success.

W.F. Forbes

FED REPORT

In my first column of the Spring-Summer Term I would like to welcome back the co-op students from the fall and those regular hangers-on (like me) who are still taking a few courses full or part-time. I like to thank mathNEWS for the continuation of this column and want to take this opportunity to commend the paper for the great work it has done for the students in the Math faculty and for newspapers at this university.

Normally at this time I would give my beginning of the term Rah-Rah-Rah Get Involved spiel. Apart from telling you that the summer term co-op rep from last year on the Fed council hardly attended a meeting (in fact I do not even know who he was) and the Math Society and mathNEWS are in danger of being understaffed, I won't say much. YOU HEARD IT ALL BEFORE AND DON'T LISTEN ANYWAY, SO WHY BOTHER YOU.

Since I last wrote in this illustrious journal, the Federation has passed the budget I recommended, with slight alterations to it. The budget passed at the April 2nd meeting of Fed council had an estimated deficit of only \$899 which isn't much in a budget of \$250,809. However three weeks later the docile council, impressed with some high-powered and sympathy arguments, spent a further \$11,000 to add to the

Committee & Council Positions Open

The following positions are available for any math student interested enough to participate.

- 1) Math Faculty Council
- 2) Math Faculty Curriculum Committee (1)
- 3) AntiCal CO-ordinator (1)
- 4) MathSoc Administrator (1)

Please note that as many students that are interested are invited to participate on the Math Faculty Council.

If you are interested in applying for any of the positions or would like to obtain more information contact the MathSoc office, MC3038, ext. 2324.

deficit. This was done despite my objections over the amount of money to be spent, the worthiness of the projects (such as an engsoc sponsored student garage, a housing project, and a grant to a legal aid group in Kitchener), and the timing of the requests.

Meanwhile a dispute has blown up concerning the full-time Chevron staff personnel who are not ratified by council. A committee has been set up to report on the matter. In regards to employees Federation council voted to hire four full-time employees to work in such areas as housing, education affairs, a student handbook, and orientation.

Over the weekend a number of high-ranking federation personnel attended a conference of the National Federation of Students in Toronto. Waterloo's Federation does not belong to this group which is a separate organization from OFS which we do belong to.

It is reported that the Waterloo Observers at the conference (not official delegates mind you), led by President John Shortall and without the consent of Federation Council or Executive, pledged \$4,000 to the National Union of Students. Also Mr. Shortall wants to have a referendum to have YOU PAY 50¢ a term (compulsory fee that is) to join what is referred to as N.U.S. Apparently N.U.S. is supposed to be in danger of financial collapse but John Shortall was unable to tell me why and what went wrong.

Though it is a little early for me to cast my decision outright against N.U.S., nevertheless I remain sceptical. Remember you have just started to pay 75¢ a term to join O.F.S., which I feel was a good investment, but is it worth it to pay more. Try to find out for yourself and raise any worthwhile objections before another compulsory fee is thrown in your lap.

It is probable that the next Fed council meeting shall take place in a few weeks and be an all weekend session. Fireworks are expected to fly so try to drop in and see us. The time and place of this meeting will be available later. If you want to reach me try the Federation or Math Society office. My home phone number is 884-3968. Also if you are at all interested try to come out and see me on a mathNEWS night.

JJ Long

YOUR Mathsoc:

In Action



MathSoc is now giving out lockers to any and all mathies presenting a stamped I.D. card (there is usually a surplus of lockers in the summer). They are also stamping I.D. cards....

In case you didn't notice it was gone, the Karl Fredrick Gauss Foundation gave back the Pink Tie (we threatened not to have it cleaned if they didn't). If you wish they'd kept it, there is an ever growing list of suggestions as to what should be done with it and/or a replacement on the wall of the MathSoc office. Go in and add your own idea. We would tell you what some of them are, but it's doubtful if even Enginews would print them.

There have been two MathSoc meetings so far this term. The first was called by the Director of Internal Affairs (JJLong) to elect a president and was held April 30th. There were four members present (though only two were summer term co-op reps of a possible seven). Phil Lanouette was appointed summer president, which brought the total number of voting members present to five.... the meeting was then adjourned.

The second meeting of the term was held last Tuesday, May 6. It was chaired by Andrew Haycock (yes, he's still around) and attended by seven voting members....

The meeting convened at 4:33p.m. (the card game went three minutes into overtime) and a question was raised as to the parentage and voting rights of certain members. This was put as the last item on the agenda so that any questionable members would be allowed to vote in the meantime. Last term the Birth Control Centre had asked MathSoc for money, and due to the shaky condition of the budget they were referred to the summer council. An enquiry was made as to what had happened to Birth Control. There was a suggestion from the chair that JJ's parents be asked, and the meeting continued.

Under reports it was disclosed that there is still \$1600 in MathSoc's account, but \$715 or possibly more will go towards paying last term's bills. There will be about \$1690 in fees collected (about \$600 of which will not be available for a few weeks) giving a final total of about \$2600 which will require a very tight budget, but then summer councils traditionally over spend their budgets, and who are we to stand in the way of tradition?

On to old business.... since the only council members currently on campus were the Director of Internal Affairs and the (newly appointed) president, some summer council members were proposed.... Don Sheehy was put forward as treasurer (he had given the treasurer's report) and seconded by Internal Affairs Director J.J.Long who pointed out that MathSoc's absentee president Gary Dryden had recommended Don.... but they voted him in anyway. Andy Elliot was proposed as social Director (he's throwing a party for his campaign workers) and was seconded by the new treasurer. After his ratification the social director seconded the nomination of Rosemary Van den Akker as Education Director... passed (she was the only girl present)... A motion was made by

Calvin Barrett and seconded by JJLong that Rag White NOT be made MathSoc administrator... This position is still open for anyone who cares to apply.

The next item of old business, again left over from last term (when we say old we mean OLD), was a \$100 donation to the Mike Moser Fund. It was decided to table this until a budget is present so that we'll know what to take it out of (we might have a budget this term).

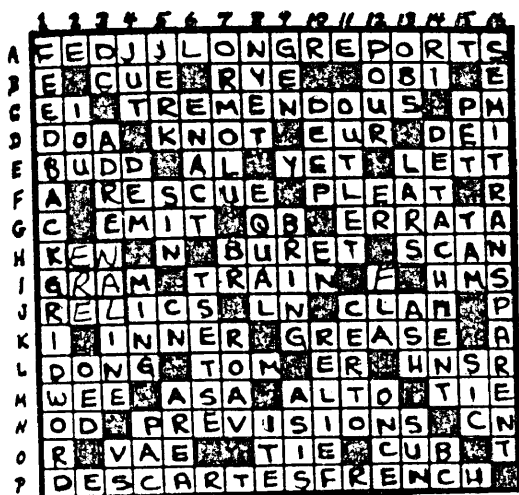
It was noted that one 1B rep has missed several previous council meetings and could be removed by a two thirds majority vote. The president suggested that she be gotten hold of. When asked how well he knew her, he replied that he didn't. There was a suggestion from the floor that this might be the reason he wanted to get hold of her....

In the meantime there will be by-elections in 2B and 4A. Nominations open this Friday the 9th and close on the 16th. The election (or thinking of last term, the acclamation) will be held on the 26th. The election committee voted in was Rag White, Mike Rusheleau and Robert Pascoe.

It should be noted that to this point all votes were unanimous (although JJ had abstained on the vote for social director).

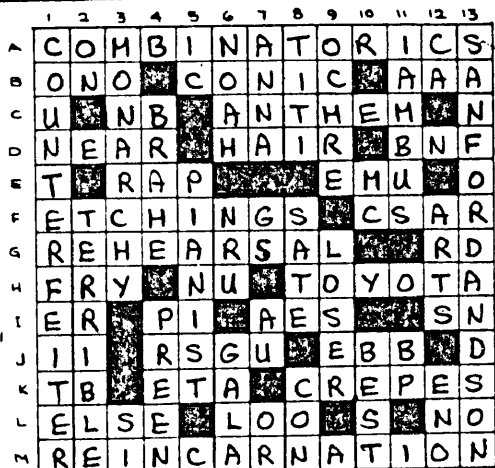
Coffee & Donuts also came up, under new business. Calvin Barrett, this term's manager, reported that donut prices have gone up from the supplier, and, though he is still making a profit on them, he may have to raise their price. He then asked that a third signing authority be named for C&D cheques (the second is Keith Farlinger (who?)) and Andy Haycock volunteered as such. Calvin also mentioned that two workers were manning the stand more often than the summer maximum set up by C&D regulations, but that it seemed necessary. J.J. commented that this was not serious and there was no reason to follow the regulations to the letter... It was then commented that MathSoc needn't follow the constitution to the letter, whereupon John noted, "Well maybe they (C&D) should" (incidentally the duty of Director of Internal Affairs is interpreting the constitution). The chair then called for other intelligent comments and council went on to the next business.

That being whether or not off-term voting members should be able to vote if they are present (the essence of the issue being that Cal does not want JJ to have a vote). JJ, as internal affairs director, put forth an official version of the constitution which would allow himself to vote and Cal put forth a motion to reject JJ's interpretation. Since no one else was willing to end discussion, the next hour was spent listening to the two of them argue, with the infrequent irrelevant interjection by some members of the audience. The final vote was by roll call. One person voted for JJ's interpretation, JJ and five people voted against it. (JJ's comment: Well, after I looked at the facts...) Consensus was to ignore the problem and let questionable members vote, at least until next meeting. The meeting was then adjourned.



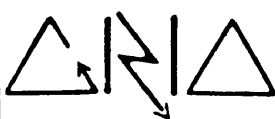
BY: ACPALIDWOR

For the edification of our subscribers (this term's and last) here are the solutions to last term's Gridwords. Anyone who missed that issue can take a guess at the clues....

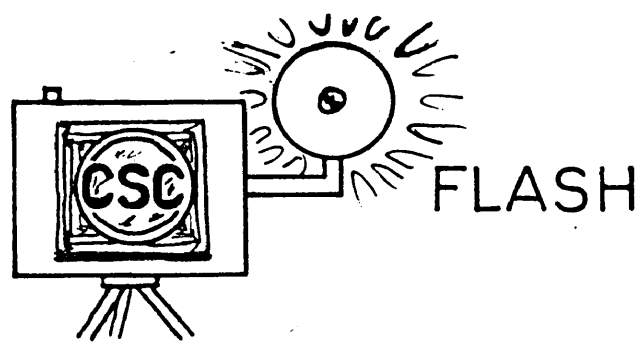


Created by: G. Johnson & G. Williams
GRAPHIC BY: K-K

last term's



SOLUTIONS



The Computer Science Club will hold its first meeting on Tuesday, May 13 (that's next week), in M & C 2034, at 7.00 P.M.

Last term, the CSC suffered from apathy on the part of the members. A couple of speakers were invited to give lectures, and a field trip to the Westinghouse plant in Burlington were held. Because of the minimal response to the lectures, it was decided to not hold any more after about half way through the term.

In December, it had been decided to allocate computer resources for people who volunteered to do projects. The club decided this was a good policy, and it was put into effect. Last term, there were many projects to do, however, all the volunteers at the first meeting in January had vanished. The promised computer resources failed to find themselves get allocated on the system, as well.

This term, things will probably run in a similar way. If the members decide to do nothing, the club as a whole will do nothing. However, if members are interested enough, and are willing to give up a little time, something can be accomplished.

The CSC offers a number of features in return for the minimal membership fee. These are:

- Lectures - Various persons, from the University and outside speak on their areas of interest.
- Field Trips - Trips to various places such as computer centres are arranged, usually at a minimal, or no cost to the partakers. These trips are open to everyone, but CSC members receive preference if space is limited.
- CSC Library - The CSC has a library of many Honeywell and IBM manuals, as well as some from other manufacturers. Anyone may browse through them, members may borrow manuals.
- Computer Resources - The CSC tries to give resources to members. We are unable to get resources on Computing Centre machinery, but we attempt to get some on the Honeywell for members.
- Tea & Coffee - For members, there is free tea, coffee and hot chocolate available in the CSC office.
- Movies - If we can dig up any films, we hold movie nights.
- ACM Membership - We can make it easy for you to join the Association for Computing Machinery. If you are really interested in computers, this is a good thing to get into.

The CSC has an office, it is in M&C 3037, just across from the MathSoc office.

At the first meeting, a new executive will be elected. As well memberships will be taken. There will be coffee and donuts served after.

C & D strikes AGAIN!

Well, Coffee and Donuts has done it again! They have foolishly opened up their stand again in the NON-SMOKING section of the math lounge (mc 3001) for another food-filled term. It seems that they never learn (summers are the worst term for trying to sell anything), but in any case, the masochists are at it again, starting at 8:00 with the setup and officially opening up for sales at 8:30. As for the last two terms, donuts (and a wide and wonderful selection it is!), kaisers (both sizes) and submarines (not the Nautilus type) will be available at opening time.

Note, however, that the closing time is 2:30 (not as for the last two terms). But that's OK, because, if the rest of the first day was anything like the first half hour (you've never seen such confusion in your life), it's good that we didn't have to continue the agony any longer.

Anyways..... For all of those that aren't sure, or haven't seen the price list yet, here it is (TAA DAA!):

Donuts	15¢ each
or	2/25¢
Coffee or Tea	10¢ a cup
Hot Chocolate	15¢ a cup
Soups	15¢ a cup
Subs	75¢ each
Kaisers	
Small	45¢ each
Large	55¢ each



AND

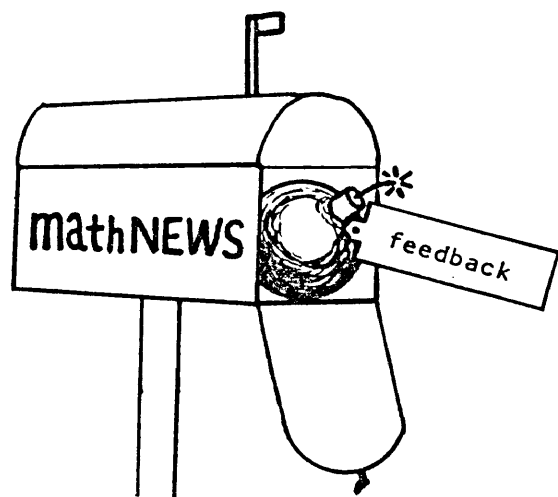


CSC MEATS

The Computer Science Club will hold its first (ie. organizational) meeting next Tuesday, May 13, 1975 at 19:00 (ie. 7:30 p.m.) in room M+C 2034. The meeting will be for the purpose of electing (?) a new executive (pres, vp, etc), and for signing up new (and old) members. If you are interested, in any way, shape or form, in computers, you will be welcome at the meeting (even if you're not interested in computers, come anyways).

***** BRING A FRIEND ! *****
***** BRING YOURSELF ! *****
***** BRING ANYTHING ! *****
BUT BRING !!!!

(Besides, there is a possibility (!) that coffee and donuts will be served before we all go upstairs to practice (learn?) our QED and ROFF preparing mathNEWS)



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, but however you get it to us, REMEMBER; send us some

FEEDBACK

mathletics

How to Win Friends and Influence People

Sign up for intramural activities. Sign up sheets located on windows of 3rd floor Math Lounge. Activities are:

- Men's softball
- Men's Basket Ball
- Co-rec Basket Ball
- 7 a side touch Football
- Ball Hockey
- Co-ed innertube Waterpolo
- Co-ed Slow Pitch
- Co-ed Volley Ball

(Continued from Page 1)

March

It was announced that Waterloo was winner of the PUTNAM math competition. The last time a Canadian university won was in 1952.

Coffee and Donuts came to the rescue, and supplied sufficient fund to keep mathNEWS going. Anti Cal put its "Instant Insanity" program into effect. Several people had to be carted away by the men in white.

Columnist J.J.Long somehow managed to become treasurer of the Federation for 1975-76.

The roving action Burloaf tracked down the new CRT's which had just arrived and reported that they were for non-hack use.

April

On April 1st., mathNEWS put out its double-header. Two front pages, 2 gridwords each with 2 prizes and three mastheads. (one can't be perfect). The front page headline says it all: "MathSoc at work: RIGID TOOL MISSING". Yes we're telling the truth, MathSoc has ye olde rigid tool.

We had a prof interview with Rod Cooper (who has now decided to quit teaching). Some mathNEWS staffers were going to interview another prof but decided not to when they read the notice "Beware! Now that the anti calendar survey is over -- I can revert to my usual snarky self."

In other happening, the university closed down due to a small snowstorm (after classes were over and before exams started - naturally).

The new MathSoc council took over on April 1st and the MathSoc office had very good probability of being open anytime between 7AM and midnite.

C&D experiment and kept the stand open for most of the exams.

And by the end of the month almost 50 subscribers had appeared for the summer issues of mathNEWS, which proves that there are at least 50 smart people in math.

well resistant

BURLOAF

Welcome to summer in Waterloo. This is the term when you find out the real value of an umbrella (or why they call it WATERloo). Excepting the weather, it is my considered opinion that the summer term is the time to be at the university. It is a time when you can almost always find a vacant table in the math lounge, a time when you can almost always find a vacant terminal in the computer room (3018 seems a lot emptier now that some decent terminals, namely the Telerays have been installed in 3067 and 3065, and 3022 seems a lot emptier now that computing centre accounts are harder to come by.). On the days that it's not raining, it's even a pleasure to be outside. Even schoolwork is easier (or so it seems). (Schoolwork goes even easier when you're not taking any courses.) You don't get up in total darkness for 8:30's so it doesn't seem like it's a lot earlier than it really is.

There are the odd disadvantages, such as things tend to close earlier on campus, but these are far outweighed by the good points.

Report from Hack Headquarters:

(For those of you who don't know what a Hack is, a Hack is an entity that sits for long hours in a place known as the Hack Room staring into the screen of a thing that looks like a TV with a spastic version of a test pattern, called a Computer Terminal by most, but often affectionately referred to by Hacks as "Blue"s. These amazing devices allow the Hack to talk to a Computer, often affectionately referred to as the "Sun". Although the computer only "hears" what is typed in on a keyboard, Hacks sometimes forget themselves, and attempt other forms of communication with the computer, predominantly by voice, with a rather limited vocabulary and by physical action, mainly pounding of the keyboard and other parts of the terminal. If you wonder what is being accomplished, it can be summed up as: "Solving yesterday's problems today".)

The latest software being turned out includes a program that turns your terminal into an expensive desk clock, a catalog lister that doesn't work, and an integer desk calculator that works to arbitrary precision. It was recently used to compute 7!! (5040 factorial). It consumed two hours of CPU time to compute and is 16473 digits long (that's over three pages).

The Hacks are pleased that the math building is now open 24 hours (because the library is). This means they can get in at any peculiar hour. Hacks like to work at peculiar times because the system tends to be faster at four in the morning than at one in the afternoon.

A reminder: If you are a Honeywell user, your userid will vanish after May 30 unless you preserve it. To preserve your ID, sign on and type "preserve".

last term's

QUESTIONNAIRE RESPONSE

Last term mathNEWS issued a questionnaire which dealt with a variety of topics. This was part of mathNEWS's continuing effort to seek out, and to be let known the opinions of its readers. Since that questionnaire, mathNEWS has from time to time published lists of the comments that we received on certain topics. In this issue we deal with opinions of our readers on both MathSoc and of the new library hours.

Here are the comments that we received regarding MathSoc....

- What?
- They seem to be doing a decent job.
- ?
- They do as much for me as I do for them.
- O.K.
- Great.
- Good
- Useful.
- It could be improved. I believe it will be.
- Hal
- Okay.
- O.K.
- I dislike any political body as a matter of principle. - Good.

The following are the comments that we received about the new library hours. This questionnaire was published before the hours were extended to 2.00 a.m. on most nights.

- should be 24 hrs. a day
- Couldn't they extend the library hours to at least 1:00? It wouldn't kill them to add on 5 extra hours during the weekdays.
- should be all night & on weekend.
- should be extended to 3AM. or 4AM.
- restrictions are okay with me.
- O.K.
- O.K.
- fine
- should be longer
- They should return to old 24 hour day. I did work at least one late night a week.
- boo!
- The library should be open always.
- I don't read so hot so I don't care.
- I have need at times of an all nighter.
- It should be open to 2AM. all term and 24 hours a day during exams.
- Okay.

SUB₄ SCRIPT_α IONS_θ

This term, mathNEWS has 49 subscribers (so far). This is more than twice any other previous term. These people will receive their mathNEWS's mailed to them quickly after they're published so that they have only the postal service to blame for late papers. If you want a subscription, you may obtain one by sending your name, address, and \$1.00 (to cover postage and envelopes) to: mathNEWS, M&C 3038, University of Waterloo, Waterloo Ontario N2L 4G1.

Unlike the heartless Gazette subscription service, we have implemented a subscription system that handles all sorts of special cases like one address until end of May, another until mid July, etc... We at mathNEWS believe in giving you your money's worth.

CC COURSES: ATS and CMS

Once again the Computing Centre is offering a number of non credit courses that is open to the university at large. During the past weeks and running till the end of June the Centre will offer sixteen courses.

ATS (Administrative Terminal System) enables a typist to have the assistance of the computer in the preparation of theses, manuals, letters, reports, and other documents. The typist is able to type text into the computer via a typewriter terminal and use ATS commands that format the text automatically, and print the material in the desired format. Corrections and revisions to text are easily made using the ATS commands, and only the text which contains errors need be retyped. Documents can be printed on the terminal or by high speed printer, and, if desired, can be stored for future use.

There are no prerequisites for the ATS course. It is designed to present the fundamentals of ATS in a manner suited to those with little or no computer knowledge.

DATES: May 20 and 22
TIME: 2:30 to 4:30 p.m.

INSTRUCTORS: Dianne Hart, Shirley Melen

CMS (Conversational Monitor System) is an interactive terminal system operating on the 370/158. Its conversational mode of operation, and the fact that it is a time-sharing system, make it ideal for debugging, programme development, and the execution of any interactive programme. Cms has an easy-to-learn command language, and a simple file structure. Of particular interest to some people is the fact that CMS does not have many of the restrictions imposed on batch programmes, such as the limited availability of main storage. If your programme requires 900k to execute, this can easily be obtained. Most language processors and applications packages are available under CMS. In addition, FORTRAN H Extended, PL/1 Optimizer, and Basic are available only through CMS.

This course consists of one session in which the language structure, and file creation and manipulation in cms, are explained and demonstrated.

PREREQUISITE: Computing experience with some programming language or package.

DATE: May 21

TIME: 3:30 to 5:30 p.m.

INSTRUCTOR: Martin Wiseman

UNCLASSIFIED

MathNEWS will print your Ads FREE of CHARGE. Just jot them down on a piece of paper and put it in our mailbox on the 3rd floor across from the C&D lounge, or take it to MathSoc and have them put it in our mail slot, or put it in the mail addressed to mathNEWS M&C 3038, or send them in the mail subsystem on the 'Bun to userid mathNEWS.

mathNEWS is a weekly (fortnightly in the summer) publication, published on campus at graphic services. mathNEWS is financed by MathSoc fees, but is independent of MathSoc, and views expressed represent those of our staff and contributors only.

mathNEWS is created Tuesday nights from 7:00p.m. onwards in M&C3011. All contributions, feedback, ads, or help in putting it together is welcome... if you're around drop in...

the next mathNEWS meeting will be May 13, (in hopes of getting something organized and prepared...) the next mathNEWS will be out on May the 23rd... Circulation this issue is 777 (with 49 subscribers).

At 7:15a.m. we are finished earlier than usual by a good margin... odd then that we had no coffee, no news and NO PEOPLE... especially in putting out an eight pager... sometimes it's frightening... I'm still wondering where most of the articles came from... one source produced at long distance, communicating only by mail, and I don't think one of the others even existed... you need that sort of help when you're on your own as early as 1 in the morning and have barely started... I have come to the conclusion that while C&D coffee makes the workers unproductive, it also saps their will to leave....

Tonight's fools were Ray white (who left because of a mere four assignments which weren't due 'til Thursday); Michael Rose (who gained an unnamed shadow...); a momentary boff et dave (who tagged along for the ride); Chris Smith (who studied roff)...; JJLong (no comment); Joe the rat Lifshitz who left early, knowing there was no one else left; PRRAYnham (with us in spirit, and **mail waiting, although seldom seem...); M-1 (who came to the rescue at 2:00am and worked diligently to the end); and of course the guy who got stuck with the "editor" title... Randall S. McDougall... the one consolation being.. I get to say what I like about the rats who left early....