

# Enginews: Unfit for Human Consumption

RECALLED by DEAN

It seems that the Faculty of Engineering is currently attempting to recall the latest issue of the Enginews. There is some speculation that perhaps this issue did not live down to their usual low standards. Others have suggested it may be an attempt to destroy evidence: like the very incriminating picture and article on page two.

Seriously, though, having seen it, I can't

say why they would try to get it out of circulation...It could have been the jokes which were a little (well maybe a lot) sicker this time than usual, but they've been around for years. Then again, maybe it was the pictures...but then most of the photos were too fuzzy to be obscene. Of course, there were those cartoons...

It does say something for the faculty, though, that they WANT it back. So save your souvenir copies folks, they'll be worth a mint next term.

Friday, June 6, 1975  
ISSUE 8.3

# math NEWS

## CC COURSES

If you wish to attend any of these courses, then register by contacting Dianne Hart, the User Services Secretary, in M&C2003 (ext.3271).

### COURSE BOOKKEEPING SEMINAR

This seminar will deal with computer programmes available for maintaining files of students' marks and producing simple statistics. The main emphasis will be on a new system, MARKPROC, which is an interactive mark processing system available under CMS. A master file of students' marks can be created and maintained interactively. Calculations can be performed on these marks and simple listings produced.

This will be the first introduction of MARKPROC to users. This system is still under development, and hence your comments and suggestions as to the general applicability of the system and enhancements desired would be helpful.

This seminar consists of one session in which an overview of various student mark processing systems will be presented followed by a demonstration of MARKPROC.

DATE: June 12  
TIME: 2:30 to 4:30 p.m.  
INSTRUCTOR: Jennifer Uttley

### SPEAKEASY

SPEAKEASY is an interactive, east-to-learn language which was developed at the Argonne National Laboratories. After only one session with SPEAKEASY, you will be able to sit down and easily solve problems in a desk calculator mode. SPEAKEASY also has many built-in functions making it simple to use for statistical analysis, integration, interpolation, matrix algebra and many other applications.

SPEAKEASY has a vocabulary of over 400 words each of which performs some specific computational function, and all of these are explained in HELP documents which are part of the language. Interactive tutorial sessions are also included for helping new users to learn SPEAKEASY.

Each SPEAKEASY session will be an introduction to the basics of using SPEAKEASY, including how to use the HELP files and the tutorials. Since SPEAKEASY is so easy to use, the main part of each session will be spent on demonstrating the various capabilities of the language.

DATES: June 16  
June 19 (repeat of above session)  
TIME: 3:30 to 5:00 p.m.  
INSTRUCTOR: Sandy Hemphill

### SCRIPT

SCRIPT is a text formatting programme available on the 360/75 and under CMS on the 370/158. Input can be prepared using WITS, WYLBUR, or the CMS EDITOR. SCRIPT has facilities to control page headings and footings, the spacing of text on a page, alignment or justification, and the proper handling of footnotes. It allows Roman or Arabic page numbering, conditional page skips, and has the potential for the dynamic creation (at the time of formatting) of indices and table of contents.

The sessions will cover all aspects of text formatting using SCRIPT. This course will be of interest to anyone considering the use of a text formatter, as well as to current users of ATS.  
PREREQUISITE: A knowledge of some terminal system is essential.  
DATES: June 9, 10, and 11  
TIME: 3:30 to 4:30 p.m.  
INSTRUCTOR: Carol Vogt

continued on pages 3 & 5

Remember that the deadline for dropping courses is June 30 !!

## INSIDE 3038

Exciting things have been happening in the Math Soc office this past week. Andy the social director, also in charge of building redecoration, was asked what response he'd had on his contest, and cheerfully replied that us Mathies in our usual display of interest in our environment hadn't come up with one suggestion other than for MathSoc office.

The battle of the cards continues with more people and new games every day (We often need an extra person, so come in and join the party.) Two persons (RAGW and RVD) who tired of cards today tried dots and lines, but found it too time consuming, so RAGW conceded the game to go to class.

Don, Andy, and Rose spent an hour or so discussing what type of music to put on the new tapes. (Suggestions are welcome, but may be ignored) And yes it is true that MathSoc has decided to purchase some new blank tapes, BUT

even more important, we found a volunteer to put some music on them.

Lastly, the Pink Tie disappeared after its brief flying 2 weeks ago, and left only this note "I'm alive and well, but in hiding". We can only assume that it means hiding from the n-jlineers.

## FED REPORT +

One of the topics that was to be discussed at the supposed meeting of the Federation council on May 24 and 25 was "What is Students' Council". The topic became "WHERE is Students' Council", as executive members scurried to find the missing council on the first day, a Saturday. Nothing worked and quorum wasn't found and on Sunday May 25, it was left up to the Executive to conduct the affairs of business and make recommendations to the Board of Directors, which meets to pass important motions when council can't make quorum.

The Executive decided to strike a committee to recommend changes to Federation bylaws for a general meeting of members in the fall. A finance committee headed by the Treasurer was set up to look into ways that the Federation could improve its financial situation. Also reports were received from the Board of Publications and the Board of External/Education. Despite the objections of Randy Hannigan, co-chairperson of the Board of Publications, Art Ram and Carl Chalmovitz were recommended as co-chairpersons of the Board of Entertainment to replace the retired Niki Klein. In the most important motion of the meeting, unanimous support was given to allocate \$4000 to the Board of External/Education to go to the National Union of Students to make the Federation of Students Interim members of N. U. S. for the 1975-1976 fiscal year. Though many executive members (myself included) were somewhat

wary about spending this money, it was felt that N. U. S. really needed this money urgently to survive, and should be given the chance to organize this year so that it could fight national and provincial cutbacks in education. A referendum will be held in February to let the students at Waterloo decide themselves whether they want to remain in it in the N. U. S. permanently.

On Tuesday June 3, 1975 at 7:15 p. m. the Board of Directors of the Federation of Students Incorporated, University of Waterloo met for the first time since October 1973. It

## MathSoc Meets

This week there was a MathSoc meeting (this one again chaired by Education and Publications Director Rosemary van den Akker) at 4:30, Tuesday, in MC 3011. First business was the ratification of election results, which were:

4A: Andy Elliott (acclaimed)  
23: no nominations  
1B: Sandra Hyde-17 votes (elected)  
David Wiseman-13 votes

The turnout of 30 people out of 253 (11%) was one of the largest in recent years (especially when you consider that the March elections were ALL acclamations!).

If you look, you may notice that the balcony on the third floor is now open, and plans are being considered to have some of the lounge furniture moved out there during the day.

Voting on the Council was officially restricted this meeting to on-campus 1B, 23, 3A, 4A co-op students, and the President, Summer President, and Vice-President.

Phil Lanouette took on the job of handling Antical (and received a standing ovation.....). Joe Carpenter was named Executive Assistant to the Social Director, in charge of Athletics.

It is noted that at some time Rose banged the gavel loud enough to be heard.

The meeting adjourned after an hour and a half, at which time RagWhite still had an answer to be questioned and Cal Jarrett was left wondering why no one had complained about C&D.

unanimously passed the allocation of \$4000 to the N. U. S. and ratified the Board of Entertainment co-chairpersons. Quorum was barely obtained at that meeting since only the President, the Vice-President and Treasurer could attend (the other two members G. Dryden and A. Sweetnam could not be contacted as they were up north and inaccessible at the time). It is hoped that council will be better able to make quorum next meeting after six seats are filled by by-election. One of these seats is for a summer term co-op MATH rep, and any of my co-op readers in Math are invited to run. Nominations must be in the Fed office by Wednesday June 11.

In a sadder note, ex-Fed president Andy Telegdi, despite the presence of his "close friend and confidante" Arthur at the convention as a voting member, lost the N. D. P. party nomination to contest the provincial election as a candidate in the Waterloo North riding. He was beat by a political science prof by 115 votes to 54, as half of his supporters failed to show. A memo from party provincial headquarters was sent out to many delegates in order to prevent Telegdi from winning.

Well before I go I'd like to remark on the deplorable condition the Math Building has fallen into the past few days, since Physical Resources custodians were transferred out of this building. They were replaced by a group from an outside firm which employs mainly high school kids which are less competent than the former group. There is now a crew of 36 people doing what is in my opinion a worse job than 17 did before. Also these crews are in the building for twelve hours, when our old crew did the job in under seven and were more friendly doing it. I hope things could be changed back for the better. If you feel that way write mathNEWS or the people who (in all their wisdom) made this decision.

2 J. J. Long

JJ Long

# BURLOAF

This week we have the following thought, found on the wall in a grad student's office:

People are meant to be loved  
and things to be used.

Much of our trouble in life  
stems from the fact that we  
tend to love things and use  
people.

-- anonymous

A number of APL terminals in M&C 3022 (the CC terminal room) have been gift wrapped with blue ribbons. Although this makes for a nicer decor, it makes these terminals hard to use.

Another thought: Good steak is rare these days, so never order it well done.

While browsing through a save listing on the Honeywell, someone noticed a userid "fbaggins". Normally this wouldn't be considered that unusual, except that fbaggins is Frodo Baggins, a main character from Lord Of The Rings. (If you don't know what Lord Of The Rings is, you should be ashamed of yourself). The other unusual feature of this user is that he had all his privilege bits turned on (i.e., he could do anything he wanted to on the system), as well as being able to submit batch jobs with a priority higher than any other user on the system. (Perhaps he used Sauron's ring to get all these wonderful things). Whoever fbaggins was, he signed on long enough some time to preserve his userid.

The Math Faculty Computing Facility has acquired a device called a photo typesetter. This wonder machine allows one to create a file on the 'Bun, run it off with a special subsystem to get a tape which can then be run through the typesetter to get printed text (like you find in a book). You can print things in different sizes, in a variety of fonts, in boldface or regular, along with other good things. It creates the text by flashing a light through a disk with the desired letter positioned properly onto a piece of photographic paper. A sample of the output is on the bulletin board across from the Honeywell machine room. The software on the Honeywell to support this machine is still being developed.

Have you sat down with your output after a long day in DEBUG and wondered why after all the hours you spent there why your program still won't work. Then after several days of tracing and several pounds of output you trace your problem to the fact that you used an integer value where a real value was supposed to go.

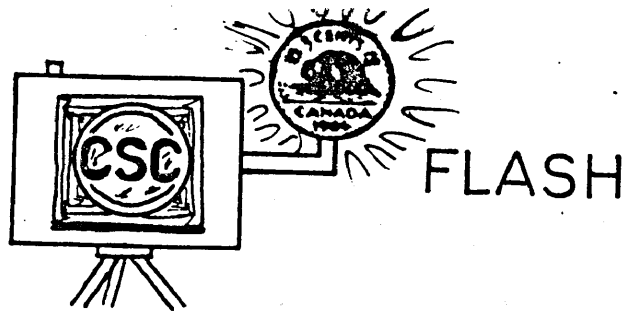
In keeping with mathNEWS' reputation for helping the down-trodden math undergrad we have instituted a new service. We will in the issues to come have an 'INTEGER\_OF\_THE\_WEEK' so that in time the faithful mathNEWS reader will have a listing of all the integers. If one is in doubt that a number is an integer all he or she has to do is look it up in the list.

SAVE THEM ALL

THIS WEEK'S INTEGER\_OF\_THE\_WEEK IS

37

WATCH FOR NEXT WEEK'S INTEGER



The Computer Science Club held its second meeting of the term last week, on Tuesday. At this meeting Charles Forsyth, of the University of Waterloo gave a talk on the programming language PASCAL. There was a fairly good turnout for the meeting. Next week, on Tuesday, June 10th, the CSC will present a lecture on CMS in M&C 1049 at 7 P.M. The lecture is in the evening, so that people who were unable to make it to the Computing Centre's lectures, given during the day, may attend.

CMS, or Conversational Monitor System, runs on the IBM 370/158 and allows you to use the machine in a time sharing mode. This is a good way to develop programmes, debug software, and run programs of an interactive nature. CMS, because it runs on VM, doesn't have many of the restrictions found in the normal batch environment. A program that requires 900K to execute in, presents no problem. All regular language processors and packages are available through CMS, as well as things like Fortran H extended and Basic which are only available through CMS.

If you would like to attend this course, please come to the CSC office (M&C 3037, across from MathSoc) and sign a list. A knowledge of some programming language would be an asset to taking this course.

In other business, the CSC may be looking for a new supplier of coffee for their meetings. CSC used to get coffee supplied by Coffee and Donuts for free. However, this term, C&D (You remember, last term they were the people that were rolling in profits after they helped MathSoc recover from the Lighthouse loss and bailed mathNEWS out of the red among other things) has decided to charge CSC for their supplies, going against previous terms' policy. It is rumored that CSC is now negotiating with the EngSoc C&D concession for a better deal.

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## USING THE VARIAN RASTER PLOTTER

Software is being made available on the 360/75 and the 370/158 to allow plots to be generated on the Mathematics Faculty Computing Facility's Varian plotter, located in the Honeywell machine room. This is a much faster plotter than the Calcomp plotter, involving only one pass over the plotting surface.

Included in the software is the facility to allow a user to do plotting as if he or she were using the Calcomp plotter, but to have the plot actually produced on the Varian plotters. Alternately, the Varian software can be invoked directly.

The seminar will discuss usage of this software, and include several examples of plots produced on the Varian plotter.

PREREQUISITE: Some knowledge of plotting.

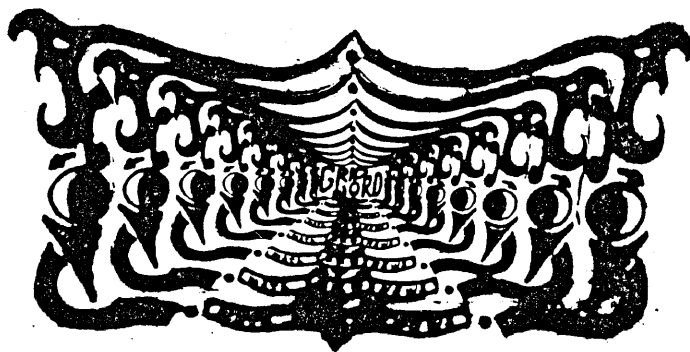
DATE: June 12

TIME: 2:30 to 3:30 p.m.

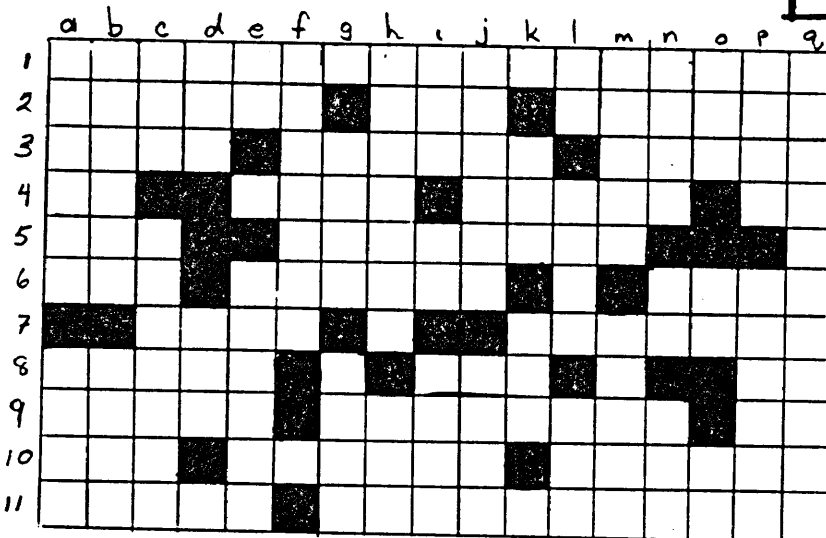
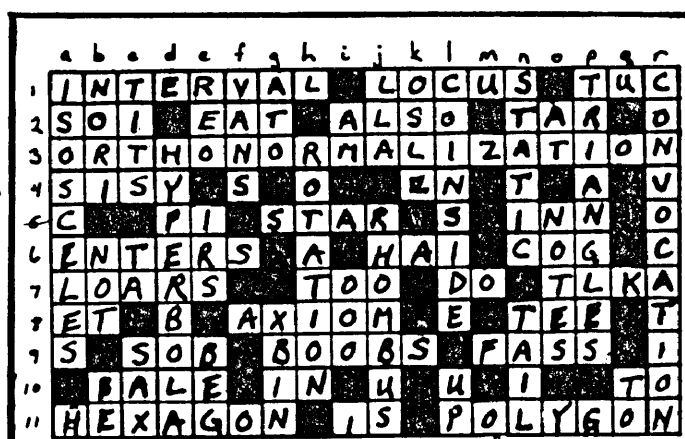
INSTRUCTOR: Malcolm Robinson

- 1a computer course  
 2a paint  
 2h where we spend most of our time on hot days  
 2l what most of us are  
 3a result of playing with frogs  
 3f room to play around  
 3m river in russia  
 4a consumption  
 4e not imaginary  
 4j \_\_\_\_\_ with problems  
 4n +  
 5a cheer at a bullfight  
 5f where football is played  
 6a something that isn't gross  
 6e home of the beaver  
 6n Honeywell OS  
 7c if yousin = true goto \_\_\_\_\_  
 7k a school of psychology  
 8a a short appearance  
 8l former Canadian's coach  
 8n 5th root of 32 in Rome  
 9a our heroes  
 9g histrionic  
 9n Viet Cong  
 10a the chamo  
 10e limit  
 10l Dick Irvin's comments  
 11a this guy was ready to go to a party  
 11g (1,0,0), (0,1,0), (0,0,1)

- a1 method for root finding  
 a8 arrangement of acid  
 b1 can't  
 b8 derivation of dual  
 c1 scratch  
 c5 the other end of your nose  
 d1 not full  
 d7 skinny fish  
 e1 concerning  
 e5 x,yER and x+yER  
 f1 'while' in fortran  
 g3 make money  
 g8 Sarge's dog in Beetle Bailey  
 h1 that which commutes  
 h9 not him  
 i1 MTHEL 100  
 i5 JCL data definition  
 i8 home for some in September  
 j1 no fuel shortage here  
 j8 vow  
 k3 bet \_\_\_\_\_ ass!  
 k7 received  
 l1 a preposition  
 l4 hurts  
 l9 routine  
 m1 comes after 10  
 m7 Nixon's cohort  
 n1 International Women's Year  
 n6 Gran Turismo  
 n9 Canadian Institute of Research  
 o1 \_\_\_\_\_ Mineo  
 o5 distinctive T-shirt around Math building  
 o10 virtual machine  
 o1 Leaf's no. 11  
 o6 "Have you never been mellow"  
 q1 a type of inference



Name \_\_\_\_\_  
 Rank \_\_\_\_\_  
 Cereal # \_\_\_\_\_



Jerry Miller - 73011519

Tom Stoops - 72010430

Last

Issue's



Answer ?

4



BOFF--WHERE  
 WHERE YOU ??



## MATHLETICS laments

First in the exciting world of bats and balls, the brave and loyal math slow-pitch team went down to a team that must have come from the New York Yankees (otherwise known as the WHIZ KIDS ...wasn't that the name of that broomball team that humiliated the mathies in broomball last term...WHIZ KIDS beware). Sam our fearless baseball landed in the creek once but was rescued so that the game could continue. Our first pitcher must have been on the other team she (the one with "HOWARD" on her hip socket) managed to get the first 7 players on our own team out. Final score was What's-their-names 30 Math 17.

Next in the undersea world of Inertubes the team in yellow T-shirts (Math) fought through the waves and the slashes until the bitter end when the entire team drowned rather than admit defeat.

So until the next wave swamps the Math building.....



## FLOGGING



Mathsoc's first summer golf tournament will be held Friday June 13 th. at Foxwood Golf Club (West of Waterloo on Erb St.). Tee off between 12:30 and 3:00 pm.

A limited number of tickets (20 foursomes) are available from the Mathsoc Office, in advance only. Green fees are \$3.50 for math students with a stamped ID card, \$4.00 for others.

Arrange your own foursome and register for a tee off time at the Mathsoc Office. Girls are welcome. (God forbid if it looked like an engineering event).

Prizes will be awarded for low net, high and low gross, and closest to the flag on the 19th. For these prizes, don't miss it. See you at the Prince of Wales for the 19th.

Andy Elliott - Mathsoc S.O.

## GRID COMMENT

Despite the fact that the quality of the gridword went down last issue, (wasn't it terrible?) the number of submissions went up. We got 6 (count 'em!) solutions. Nobody was even close to being right. The answer to "a savage beast" was LOCUS. The answer we all thought was GOINSIDE was really COINCIDE (you call that a pun?). It couldn't have been too tough though - when we ran that gridword two years ago we had a winner. Our thanks to Tom Weber who made life interesting this week with 3 solutions ....too bad two of them had blanks in them.

This week we had a choice of gridwords to put in. A free T-shirt goes to Tom Sinos and Jerry Miller for their diligent effort to create this week's puzzle. (Now let's see them split a T-shirt.)

Keep those cards and letters coming.....

## FEEDBACK

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

DEAR mathNEWS:

After reading the masthead in the last issue I came to the conclusion that mathNEWS has problems. I reached this conclusion not from the fact that there were only four (4) workers but from the fact that most of the effort appears to have come from staff members who are working for the summer term. (i.e. are "off-campus" students)

Since the masthead indicates that the active interest of mathies in mathNEWS is only 0.33% (2/600) then the only reasonable course of action is for mathnews to take a summer vacation.

The advantages of such a move are three-fold. First, the worker(s) who produce mathNEWS can get plenty of extra sleep and rest. Secondly, it would save some money for mathsoc enabling it to pay off its debts. Thirdly, the subscription editor would save a lot of time

since he'd only have to send out empty envelopes.

The only persons who would be bothered are those who have 'get a copy when it's there' kind of interest. But to quote a well known university phrase: "Who cares".

In any case, congratulations to those who have put a fine effort in the issues produced so far this term.

*Dennis Mullin*

DENNIS MULLIN



continued from page 1

## INTRODUCTION TO PLOTTING

The presentation of data in graphic form is a common part of many academic and administrative applications which involve the preparation of reports. In many cases, these reports are being prepared from computer-produced data, and hence this four-session introduction to plotting will focus on existing computing facilities which can be used for the graphic representation of data with a minimum of program effort on the part of the computer user. It will explore both the fast turnaround capabilities of the high speed line printer and the high quality capabilities of the Calcomp plotters, and an easy-to-use plotting package which has been designed to function on both devices. The final session will emphasize the basic Calcomp software which can be used by those whose needs cannot be met by the existing plotting packages.

PREREQUISITE: A working knowledge of FORTRAN will be assumed.

DATES: June 10, 11, 17, and 18

TIME: 2:30 to 3:30 p.m.

INSTRUCTOR: Roger Watt

**CLASSIFIED**

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.

NOVICE CAR RALLY...to be held July 3, 1975 at 7:00 p.m. EVERY ONE INVITED - FOR information contact GERRY ONE 575-5869.

HAPPY BIRTHDAY to anyone with a birthday today.

\*\*\* NOTICE\*\*\*  
To all 3A Mathies  
(and any single girls)

There will be a party at  
105 Longwood Drive on  
Saturday, June 7 at 8:00 PM

Phone: 884-3255 BYOB! BOYB  
For information contact  
Bill Dumencu  
Dave Freeman  
Dave Goch  
Ben Hum

Why do ducks have webbed feet?  
To stamp out forest fires!

Why do elephants have flat feet?  
To stamp out burning ducks!

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...

Circulation this issue is 510 (with 51 subscribers)  
the next mathNEWS meeting will be June 17th.  
the next mathNEWS will be out on June 20.

This weeks issue was finished at the extraordinary hour of 3:30 a.m. (Wednesday even!). This shows what you can do when you manage to highjack the entire MathSoc exec plus the CSC exec with a few holdouts from both organizations. We even had a couple of others! Roll call was as follows: Phil Lanouette (our glorious mathsoc president)... Andy Elliot (our glorious mathsoc social director)... RagWhite (our glorious mathsoc administrator and irrevocable CSC treasurer)... Wendy Higgins (a picturesque other

...)... ppraynham (our irretrievable CSC vice-president)... jlong (our glorious mathsoc internal affairs director)... Tom Sinos and Jerry Miller (some other others... Tom and Jerry????)... Rosemary (missing howard) Van Den Akker (our glorious mathsoc director of education)... Joe (very tired!!!) Lifshitz (our irreplaceable CSC president)... (who takes good dictation?)... and last (but not least?), Randall S. McDougall (our ubiquitous mathNEWS editor)...

to be continued....



# NAUS talgEA

(or  
Keeping down with the N-JINEWS)

How do you kill a blue elephant?  
With a blue shotgun.

How do you kill a pink elephant?  
Twist his trunk until it turns blue and kill him with a blue shotgun.

What's red and white on the outside and gray and white on the inside?  
Campbell's Cream of Elephant Soup!

What's the difference between a plum and an elephant?  
Their colour!

What did one elephant say to the other?  
Nothing! Elephants can't talk!

How do you stop a herd of elephants from charging?  
Take away their credit cards!

What did Tarzan say when he saw the elephants coming?  
"Here come the elephants!"

What did Jane say?  
"Here come the plums!" (She was colourblind!)

What did Tarzan say when he saw the elephants coming down the path wearing sunglasses?  
Nothing! He couldn't recognize them!

What is the similarity between a plum and an elephant?  
They're both purple, except for the elephant!

If an elephant didn't have a trunk, how would he smell?  
Trunk or no trunk, he'd still smell terrible.

THE END