

Sun Life Creates Actuarial Science Scholarship

The Sun Life of Canada insurance company has established a \$500 scholarship, to be awarded annually to a student entering third year in the Honours Actuarial Science programme. The first winner of the award, presented on July 14, was Daniel Morrison.

Volume 29 Number 3
Wednesday, July 28, 1982

mathNEWS

"How did I let myself get talked into editing this?"

W. J. Jordan
8:55 PM, July 21

```
if eof(s82) then
begin
writeln('mathNEWS');
produce(end of term issue);
party(allnight);
get(hungover);
end {if};
```

The Fed Ombudsman

Have you ever wished there was someone available on campus who could help you with problems you may encounter while going to the University of Waterloo?

There is someone who can help you. The university Ombudsman is Dean Nadon who is employed by the Federation of Students. Dean is familiar with the policies and procedures of this university, and will provide you with advice and information regarding both academic and non-academic problems.

Academic problems could consist of fees and tuition, admission, financial aid, academic status or housing conflicts, racial and sexual harassment, personal concerns and the various services available on campus.

In some situations you may feel you need an advocate for your case. While Dean can act in this capacity, he will probably provide you with a list of options open to you, and let you choose the one which makes you feel the most comfortable.

Clients' letters and interviews are confidential and cases will be dealt with as efficiently and expeditiously as possible.

Basically, the Ombudsman's office is here to help the university community with problems that might be encountered on or off campus.

If you have any problems or questions, call Dean at 885-0370 or 885-1211, ext. 2402. Or drop in to the Federation office, Campus Centre Room 235 and make an appointment with his secretary, Charlene.

WatPubs

When you go to your work term in Toronto, Calgary, Ottawa or Montreal, there is a WatPub waiting for you! WatPubs are occasions on which co-op students drink beer and socialize with other co-ops in their area. Associated with the WatPub is a WatLine, which students may call to get information on upcoming WatPubs, parties, and the like. The WatLines are usually entertaining, too.

The following lists the first two (or three) WatPubs in each city. WatLine numbers will be announced later, or you can find out the number by attending the first WatPub.

Toronto

Wed. 8 Sept.: Jolly Miller
Wed. 15 Sept.: Brunswick House

Calgary

Thurs. 2 Sept.: Harry's (11 Ave. & 11 St. SW)
Thurs. 9 Sept.: Westgate Hotel (on Bow Trail)
Thurs. 16 Sept.: Highlander Hotel

Ottawa

Thurs. 9 Sept.: Molly Maquire's
Thurs. 16 Sept.: Stoney Monday's

Montreal

Wed. 8 Sept.: The Annex
Wed. 15 Sept.: Grand Boc Brasserie

mathNEWS \$50 000 000 Contest

Yes, folks, this is mathNEWS first BIG contest, and boy is it BIG! You, a Waterloo Mathie, can win \$50 000 000- but only if you can answer the skill testing questions which follow.

First, open your wallets and look for the following items:

1. A ten dollar bill (Canadian) bearing the serial number
FG278648236.
2. A two dollar bill (Australian) bearing the serial number KAG123098456.
3. A social insurance card whose digits add up to zero.
4. A Frank Vetere's student discount card from 1865.
5. A PAC Card from 1956.

To meet these initial requirements, you need only have six of the above items. On top of this, you must answer these skill-testing questions:

1. What is Pierre Elliot Trudeau's middle name?
2. Who won the F.A. Cup in 1959?
3. Find the first ten odd perfect numbers.
4. Construct a triangle using sides with Fibonacci numbers as the lengths of the sides.
5. Where can people to run MathSoc be found?

Once you have correctly answered all the above skill-testing questions, you must perform the computer environment experience as follows:

1. Fix ALL bugs that are currently on the SuperPETS (including the pathetically useless method of computer security using student ID numbers as passwords) while retaining the Talk command, and add a mail-type facility to them for all users.
2. Write a fullsave program for the VAX.
3. Complete and execute a 1000 line program in less than five minutes using the WIDJET system (do NOT use Engineering WIDJET).

4. Finally, write a W-PASCAL compiler in 30-bit machine language.

Document your work fully.

After successful completion of the above computer environment experience, you must complete the final rite of eligibility. Write:

1. A proof of Fermat's Last Theorem in the margins of a mathNEWS article written by you.
2. Chemically synthesize snow using a cyclotron, a Commodore calculator, some diethyl ether and a mixmaster. You are also permitted to split atoms with a magnifying glass and tweezers.
3. Define the universe. Give three examples.

Once you have completed the above, you are now eligible to win a prize. However, contestants must be born November 31, 1959 in a suburb of Punkeydoodle's Corners, Ontario, or be a citizen of Lithuania. In addition, the contestant must be wearing a pink tie and an orange T-shirt when he/she began to read the details of this contest and must submit proof to this effect. Contestants must mail their entries in a 3 by 5 m envelope bearing Guyanese or Antarctic postage and a postmark from Lima, Peru to the following address:

mathNEWS \$50 000 000 Contest,
c/o Klingon and Romulan Associates,
Box 27433134,
Station W,
Bamberg, Ontario, Canada
NOW HERE

All entries must be received by 27 July 1982 to be eligible, and the conditions of the contest must be verified by any and all means by mathNEWS. This contest is subject to laws from the Morbenyerseff Bill, 1548, Cape Horn, South Africa. The official draw will be made September 31, 1982 somewhere in Luxembourg. All decisions of the judges, biased as they may be, shall be final.

Good luck! You'll need it!

MathSoc Office News

MathSoc closes 28 July (today). Many thanks go out to the office staff volunteers this term. Even though it was only three hours a day, the office ran as well as could be expected. If you have a locker, then we hope that you have collected your refund, or else you have missed the boat.

Solutions to puzzles in last issue

Holes

According to our puzzle writer there were five holes in the drawing (at least I think it was our puzzle writer who left the thing saying so in the mailbox).

Number Code Solution

Last issue's number code seemed to be a tricky one, indeed. All you had to do was to take each pair of coded numbers, subtract the second of the pair from the first, and divide this difference by two. This yields a number which corresponds to a letter of the alphabet (1 = A, 2 = B, ... 26 = Z, and spaces are 27). But wait!! There's a second message! You can get it in almost exactly the same way, but one of the operations is changed. If you think you know, then don't read the the answers until you've figured it out.

And now, the answers...

The correct message should read:

I THINK MATHNEWS IS A GREAT PUBLICATION

But, if you try the different operation, you will get:

I THINK THAT I HAVE DECODED INCORRECTLY

This is obtained by adding the two numbers at first, rather than subtracting.

Cross Sums

An answer to the Cross Sums in the last mathNEWS is shown in the diagram. There were indeed a variety of solutions submitted. Thank to J. Beale, John Plaice, David Rumph, Bill Brievely, and Lynn Marshall who all submitted solutions to the Cross Sum.

Words: Of Elegance and Sophistication

The University of Waterloo Society for the Preservation and Popularization of Obscure, But Interesting Words presents the third in this continuing series of columns. We hope you have enjoyed them thus far. Now, on with the words.

- aestival (a.) Belonging to or appearing in summer.
- frangible (a.) Breakable, fragile.
- isagogic (a.) Introductory.
- triste (a.) Sad, melancholy, dreary.

Compiled (for the last time this term) from the "Concise Oxford Dictionary".

7	5	6	4	22			1	6	2	9	
1	8	9	6	1	2	5	4	6	7	3	28
3	9	12	6	3	4	1	14	7	4	1	5
11	7	3	5	4	2	5	6	3	9	6	
	29	4	2	1	7	11	2	7	9		
		4	2	3	9	10	6	5	9	3	23
4	2	1	7	21	9	7	6	8	4	5	39
1	5	6	5	1	2	4	12	30	2	1	3
3	6	5	2	4	9	1	30		5	2	7
2	3	1	6	7	14	24	3	2	1	4	10
10	20	6					21	2	15	12	

A Bunch of Icky Little Bugs



Questionnaire Results

Well, if you hadn't guessed it by now, questionnaire response is low. Four people took the two minutes to fill out last issue's questionnaire. Sigh. Anyway, here are the results.

You should have realized by now that the seventh question is the most important one. It reads "Would you be willing to help produce (write, paste up, etc.) mathNEWS?" The responses were three definite no's and a maybe. Two of the negative responses to this question were from people who condemned the last issue (crooked lines, lack of controversy, printing the Dean's Honour List (this was done by request), etc.). Evidently they are of the belief that if you don't like something, bitch about it and someone will take care of it. I personally believe that if you don't like something, do something about it yourself--then it will get done!

Now to answer the questions that were posed to me in the questionnaire. The reason that we couldn't fill up our calendar is because no one gave us anything in the way of upcoming events. We didn't know about the Sunnydale block party because no one told us. **Imprint** knew about it because one of the people throwing the party submitted a campus event about the party. (Events for the **mathNEWS** calendar cost the same as putting a campus event in **Imprint** (believe it or not), namely \$0.00 (that's right, free! (I love parenthetical parenthetical comments.))).

To the person who finds there is too much in the way of mathematics in **mathNEWS**: I think this publication is rather ill-named; there is very little math and even less news. Jokes may be printed if someone submits them, but I must censor them (read the ISSN number blurb about responsibility for content). I will not stoop as low as **Enginews**. **WATSFIC** got part of the front page because they were the only club to submit anything in the way of news.

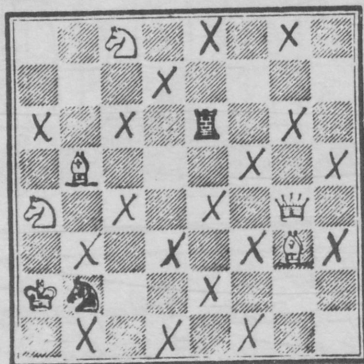
So much for that. Now I have a story to tell you. This was submitted to me through the mailbox anonymously--I am grateful. Here it is:

A Story About Four People

This is a story about four people named Everybody, Somebody, Anybody and Nobody. There was an important job to be done and Everybody was sure that Somebody would do it. Anybody could have done it, but Nobody did it. Somebody got angry about that, because it was Everybody's job. Everybody thought Anybody could do it, but Nobody realized that Everybody wouldn't do it. It ended up that Everybody blamed Somebody when actually Nobody accused Anybody.

It sounds vaguely familiar. My term as **mathNEWS** editor will soon be over--if anyone wants the job it is available. Show up at the first meeting in the Fall or Winter if you are interested.

William James Jordan,
Retiring Editor



Chess Problem Solution

Believe it or not, it is possible to find out where Black's whited-out king was hiding, and thus solve the problem.

The king can be found by logically eliminating the squares where he cannot be. First, the king is obviously not on a black square, so half of the board is eliminated. Second, the king cannot start out in check, so he is not in the path of White's king, queen or white-squared bishop. This eliminates all of the X'd out squares. Next, QR8 and QR7 are eliminated by the one move mate Q-R3. There are not enough forces on the king's side of the board to mate in two, so we are left with QB2 and Q5. A little trial and error shows that Black has too much defence against QB2 to be easily mated. Thus the king is at Q5 and it is no trouble to mate him:

- n. N-R3; K-R4
- n+1. R-R2 mate.

Glenn McFarlane

Grounded Lightning

"The time has come", the walrus said, "to speak of the paradox which forms our lives."

Well, we're back. After four months in the working world, we have returned to beloved (bedraggled?) U. of W. At the time of returning, if a survey had been done, I'm sure the feelings regarding our return would range quite nicely from stark terror and dread (loathing ?) to ecstatic elation, with everything else in between. Well, the delusions and fond memories are all gone now. We're here and can now recall how it really is. Uqq! After working and living in the "real world" (making money !!) the lifestyle here seems doubly gruesome. Yet, in all fairness, we must remember that it was this very same system which is responsible for our co-op jobs in the first place. The University of Waterloo gave us the connections we needed. In all regards to employment (except possibly pay schedules) U. of W. is right up with the times. And this is where all the complimentary fluff ends. It's time to get down to cases.

widjet

{ Sung to the tune of Devo's 'Whip It' }

Crack that code!
System overload!
All the letters stick!
Give the keys a kick!

When a program comes along
You must widjet
Before the queue becomes too long
You must widjet
No one gets away
You must widjet
Because it crashes twice a day
You must widjet

widjet -- It's just great
For execution -- You must wait
Can't get output -- Printer's dead
One more error -- It's not too late
To widjet, widjet good

I say widjet
widjet good
I say widjet
widjet good

The theory of teaching at U. of W. seems to be relatively new, most unique, and most questionable. First, let's discuss the professors. The University of Waterloo could be said to be an equal opportunity employer. It could be further said that U. of W. discriminates against professors who are literate or can speak English. How about an ELPE for professors? To further improve the education of those in the computer science course, they have restricted the number of computer courses which can be taken from an illiterate foreign speaking prof. This leads the student on a mad hunt for bird courses to fill in the blanks in his/her timetable. The sum total of this reads as follows.

An honours student takes six courses. If he/she is lucky, one of these is in his/her field of interest. The other five are either pre-requisites of questionable worth or courses of disinterest. Further still, each of these courses will have one assignment due a week. (Probably all six will be due on Friday.) More to the point, the course is taught in a foreign language by a professor who has discovered a sure cure for insomnia (if only we could bottle this !!!) and practices cryptic writing while lecturing. In desperation our student turns to the text (if there is one) and attempts to sift the relevant data out of the mountain of irrelevant facts presented. (Ever notice how our profs write on texts? See a pattern emerging?)

The theory of learning here seems to be to overwhelm the students with hours of unintelligible lectures, illiterate profs, mountains of cryptic notes, and miles (multiply by 1.609 for kilometers) of assignment questions that the prof hasn't taught his class to do yet. According to the theory, this modern day inquisition will make us worthy of our degrees (or certifications). This will make us better people (that is, those of us who will ever revert back to people.)

I question this system every time it's 1:00 A.M. with my assignment due in the morning and me only on question 1. I question this system now. (I question my prof's ability to read this and understand it.) I question the administration's ability to answer me.

I am the Walrus
I am...Grounded Lightning
HBTMJ24

A Fable
by Larry Brook

Once there was a leopard from the West who came to show the animals of the South how to live. "My way is best," he explained, "and whatever you can do, I can do better." He roared and showed his teeth, and the animals of the South were so afraid, they agreed to do whatever he said.

So the leopard taught the animals of the South new ways to eat, new ways to stalk prey, new ways to build nests. It never occurred to him that his subjects might have something to teach him.

One day, when the leopard was traveling through a new part of the jungle, he came across a tortoise. He had never seen a tortoise before, and so he roared, "What are you?"

"A tortoise," was the reply.

"Well, I've never heard of a tortoise," growled the leopard, "but whatever you can do, I can do better--now let me hear you roar!"

The tortoise, though amazed at the leopard's arrogance, kept her feelings to herself. She suggested timidly that if it was a contest the leopard wanted, he could return tomorrow afternoon. Then, she explained, she would do something she was sure the leopard could never do.

The leopard, confident of his powers, agreed.

The next afternoon all the animals of the South gathered to see the contest. The tortoise bowed to the leopard and then went behind a large baobab tree and cut off the head of a lizard. She gave it to a friend and said, "Take this to the leopard and tell him that it's my head." The friend obeyed.

A few minutes later, the tortoise, her head tucked inside her shell, came from behind the tree and danced before the leopard.

The leopard roared, flexed his muscles, and said he could dance without his head too--only better. He went into the jungle with two of his friends and told them to chop off his head. The friends objected.

"Maybe you should swallow your pride and admit the tortoise has won," they said. The leopard insisted, however, and so reluctantly the two friends chopped off his head.

The animals waited and waited for the leopard to come back, but he never did. He was dead. Though everyone--even the tortoise--was sad to lose him, they found that as the days passed, they began acting like themselves once more, and they were much happier. **MORAL:** He who gets a swelled head is likely to lose it.

Submitted to mathNEWS by dcroe.

From the "Salterrae" published every once in a while by Trinity College -- University of Toronto

The Intelligent Human's Guide to Cows and Politics

The political turmoil of recent times may have left many Salterrae readers in confusion as to just what the meanings are of all those "-isms" that are bandied about by people who know something about politics. As usual, Salterrae comes to the rescue, with the aplomb so characteristic of this learned journal. It's quite simple, really -- politics means cattle, and cattle means politics. Taking that as our text, Salterrae herewith presents a streamlined, simplified analysis of the political spectrum which tells you all you need to know to hold your own in any political discussion. No bull.

SOCIALISM - You have two cows. Give one to your neighbour.

COMMUNISM - You have two cows. Give them both to the government.

Government gives you milk.

FASCISM - You have two cows. Give milk to government.

Government sells it.

NAZISM - Government shoots you and takes cows.

NEW DEALISM - Government shoots one cow, milks the other and pours milk down the sink.

CAPITALISM - Sell one cow. Buy bull.

ANARCHISM - Keep cows. Shoot government. Steal another cow.

CONSERVATISM - Embalms cows. Freeze milk.

LIBERALISM - Give milk back to cows. Let them escape.

A mathNEWS Guide to Video Games

Video games pervade society, yesiree. Here's a guide to some of the more popular video games around (in fact, you can find them at the CC Games Room).

Asteroids

In this game, you get to move around a rocketship in a glorious 2 dimensional environment blasting away at rocks and aliens for points. You have ship direction controls, a thrust button, a fire button (to shoot down rocks, aliens) and hyperspace. (Hyperspace moves you to some random location on the screen, but you may blow up after reentry or crash into a rock). To lose your ship, you have to crash into a rock, or be shot down by an invading alien, or blow up after the aforementioned hyperspace.

Strategy: If you want to rack up points, then you may use the "hunting method". You blast away all of the rocks except for a medium or small sized one, then you run up the screen (your ship is in a wrap-around universe - if you go past the top of the screen, you will reappear at the bottom) avoiding the lone rock to await for aliens. A little alien nets you 1000 points, and after a certain point in the game, little aliens appear very often. You get a new ship for every 10 000 points, hence you can keep the game going until the turn of the century if you're good enough. Manoeuvring the ship and learning how to blast the rocks away is half the game, so you must be prepared to pump in quarters to attain this skill. Even then, many players report inconsistent scores, so real success is slow to come by at times.

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mathNEWS
MC 3035

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

Centipede

You move a gun around the bottom area of the screen with a control ball, and you have a fire button with which you can zap all the inhabitants of the playing field. A centipede consisting of a number of sections descends down the screen in a zigzag fashion. The centipede will bounce off mushrooms and change directions as it descends. Then, spiders will enter the screen and bounce around some before leaving. Fleas may descend from the top to deposit more mushrooms on the field, and scorpions will travel across the upper portion of the screen. You lose your ship if you hit a spider, flea, or centipede segment. The centipede will split up if you shoot it, and catching all the little segments can be quite tricky. Unlike Asteroids, you cannot hunt for spiders and scorpions since centipede segments are added to the bottom, endangering your gun. Clearing the centipede segments is of utmost importance.

You get a new gun for every 12 000 points, and scorpions are worth 1000 points if you can shoot them. If your gun is destroyed, then you get bonus points for damaged mushrooms. Incidentally, you should clear all the mushrooms from the bottom area of the screen since they hinder your movements (dangerous if the centipede has reached the bottom).

Space Invaders

One of the traditional video games, Space Invaders has a rather simple plot. Your laser base, which can move left and right at the bottom of the screen, must shoot down a horde of aliens which descend down the screen. The aliens shoot missiles to the bottom so they must be avoided. You have the protection of shelters, but the aliens will erode these as they fire their missiles.

Helpful Hints: Try to shoot down the left and rightmost columns in the gang of invaders. That way, it takes longer for the aliens to descend. Shoot down UFOs which appear every now and then (incidentally, if you hit a UFO on your fifteenth shot, and your twenty-third shot thereafter, you get 300 points). The last few invaders in a horde will move quite quickly, and the last invader really rips down the screen - take caution.

That's just a few of the video games. Talk to the video masters if you want to improve your skills at the games. He or she is the one racking up hundreds of thousands of points.

Film Flak

This is a series of capsule comments on the recent flood of movies for the summer. Not proper reviews, mind you, but a guide as to what is playing with a sprinkling of critics' reactions.

E.T. - The Extra-Terrestrial

Hailed by many critics as Steven Spielberg's greatest effort (and deservedly so), this movie deals with a very close encounter of the third kind. Kids discover an alien stranded on Earth, and from this premise, the movie provides comedy, drama and suspense. Most aspects of this movie are superb. A must-see film, indeed.

Star Trek II - The Wrath of Khan

The Federation (with Captain Kirk, not Wim Simonis) rules the silver screen again. Unlike the first Star Trek movie, Star Trek II has more emphasis on the script rather than the special effects. Movie critics (with due exception to the Imprint) have given this movie fair to good ratings. Perhaps not flawless, but a recommended movie.

Poltergeist

A spooky story guaranteed to scare the living daylights out of its viewers. So scary, that the U.S. film raters wanted to give this movie an X rating. Not actually violent, but it's too scary for Count Floyd.

Megaforce

More aptly named "Teraturkey", "Microscript" or "Picoplot" by the critics. This film deals with a super-army which can theoretically evaporate the entire Russian Army in a few minutes (even if the Soviets had two years advance warning at that.) An extravagant idea that seems to backfire. A must miss.

Tron

A war inside a video game. The plot may not be much, but the film boasts great special effects. Tron, with its spinoff of video game products, seems destined to be a mild hit for its creators, Disney Studios, if only because of the special effects.

Rocky III

Here we go again! Just after Rocky II appeared on the television screens of our nation, Rocky III appears in the theatres. The new Rocky doesn't sound all that bad (in fact, there's a new theme song), but you might do well to save yourself the five bucks and wait for CTV's version (or Rocky IV, whichever comes first).

Monty Python Live at the Hollywood Bowl

The good old Monty Python stuff, performed live! Python fans should consider this movie.

Annie

An extravagant musical adaptation of the Broadway hit. Yes, Daddy Warbucks, Sandy, and Little Orphan Annie come from the comic strip to the silver screen. If you are into musicals, then you should view Annie.

Six Pack

Starring Kenny Rogers, this film may bomb out, not because the film is a real turkey, but perhaps because people are realizing that films such as these may be seen on CTV in about a year or so, and at five bucks less, too. In any case, the Six Pack in the film refers to six kids, who with Rogers, try to make a name in the racing world.

Firefox

A film about a theoretical Soviet super-jet. Clint Eastwood stars as the U.S. hero whose job it is to steal the jet. Los of action? You bet, but critics complained about the excess of pro- and anti- Communist rhetoric. Special effects by John Dykstra (who did Star Wars, remember?)

Young Doctors in Love

This movie does to hospitals what Airplane did to jets. A slapstick parody of soap operas, replete with soap opera stars to boot. Quite funny, and one of the better comedies of the summer.

The Secret of NIMH

The craftsmanship is back in animation, thanks to Don Bluth who created this modern-day animation masterpiece. Quality animation is on the comeback! Family fare, but quality nonetheless.

Calendar Update

The following courses were omitted from the UW Undergraduate Calendar.

Bio 352 2C, 6L -0.5
Introduction to Autopsies

An introductory course to finding the cause of death of what appears on your plate at meals.

Coreqs: Chem 247, Geol 171

BS 101 1C, 2L 0.5
Introductory Essay Writing 1

This course will introduce the student to methods of writing essays in their various forms.

Crosslisted with Engl 109.

Chem 247 2C, 6L 1119.00
Chemical Composition of Village Food

This course is an in-depth study of the components of Village food. Not for the squeamish.

Coreqs: Bio 352, Geol 171

CS 353 2C 0.5
Recursive Techniques in Teaching 1

This course will study the teaching methods used in CS 353.

CS 354 2C 0.5 + 0.5 + ...
Recursive Techniques in Teaching 2

A continuation of CS 354.

Geol 171 2C, 2L 1/e
Petrification

A study of the petrification process, with special detail given to the method of accelerating the process which was recently discovered by Food Services.

Coreqs: Bio 352, Chem 247

MTHL 313 20L \$0.02
Applied Political Science

Students will learn the basic techniques of organizing powerful political organizations and groups. Methods of circumventing previous constitutions, rules, etc., possibly with outside influence, will be studied. Students must register for the course in homogeneous groups of at least 75, all being in the same year.

RS 232 3C 0.5
Cyberphile Theology

A survey course of the religious philosophies of cyberphiles including the advancement of artificial intelligence.

Whee! Another issue of mathNEWS done! And it's only 10:08! All the old mathNEWS staffers are giving me strange looks...it seems I've broken a lot of traditions (like no all-nighters). Oh, well. I guess I should thank all of the staffers this issue and this term. First off, this issue's contributors: Dean Nadon, the Fed ombudsman, for his article; Someone from Information Services ~~xxxx~~ and Dr. Ian McGee for the scholarship news--our congratulations to you, Daniel. Our thanks to those who are doing this fall's WatPubs. David Leibold composed the contest, MathSoc news, the cartoon, ~~xxxx~~ of some of the solutions to the puzzles, how to play video games, some of Film Flak and submitted the song "Widjet", which was found on a washroom wall in Renison. (he's now trying to correct me--he is saying widjet should be spelled with a lower case 'w' and it was found on a door--I think it makes NO DIFFERENCE, DAVE!!!!==hey! racing stripes!!!). He also drew up the calendar--thanx a lot. Neil Campbell ~~xxx~~ wrote the "words" column. My thanks go out to him, and also to Glenn McFarlane, whose chess problem last issue kept people guessing (no solutions submitted), and whose cross sum didn't have a unique solution--all of them submitted were correct! Thanks to dcroe for the fable and to the one who left the story in the mailbox. The course descriptions were written by a few people in Stats 331--last winter, that is. Thanks to David Till, Chris Bajdik, ~~and~~ Andy Morton and anyone else in on it. So much for that (I think). Now the production crew: David Leibold, Glenn McFarlane, David Wilkie and yours truly (I intentionally omitted my name from the ~~xxx~~ previous part of this masthead--what I signed is mine and some other stuff is too, but I didn't really want to mention it (boy, I'm starting to sound egotistical)). Sorry, Dave Till, but no more all-nighters while I'm editing. It's been interesting to say the least. I think I'll save my farewell for the next page (boy, I love split mastheads!)

Hello again--It's still me. This term's editions of mathNEWS could not have been produced without the help of the following: David Till, Neil Campbell, Glenn McFarlane, ~~JamesxRub~~ James Puttick, David Leibold, David Wilkie, John Winterton, Grounded Lightning (I know that you know that I know who you are, GL), ~~Rickxax~~ WATSFIC and their support, and anyone else I have failed to mention who gave us a hand writing or pasting up. My thanks to MFCF for the \$1100 of resources we started the term with (which was soon cut to \$300), DCS for the use of the printer in 2015B and Graphic Services for the printing. Summer is no time to be going to school. One finds too many distractions. (Hmmm. Have I gone out on a tangent?) Anyway, this is my last issue as editor (except for the F!rosh issue). Interested applicants please leave name in mathNEWS mailbox. I just discovered that the place I spent my first work term at is closed until September and possibly indefinitely-- I hope the same does not happen to you. I sincerely hope you enjoyed this term of mathNEWS, and that you will do well on your exams and work term. God bless you all. --WJJ

mN Calendar

*-cinema gratis

		JULY!!	28 Classes End (!) *Islands in the Stream	29	30	31 Exams Begin (.)
August 1	2 Civic HOLIDAY!	3	4 *East of Eden	5	6	7
8	9	10	11 *Tribute	12 Exams End !!	13 It's been a slice!	14
15	16 ☹️ Have a day	17	18 *Other Side of *midnight	19	20	21
22	23	24	25	26	27	28
29	30 FALL WORK TERM BEGINS	31	September 1	2	3	4