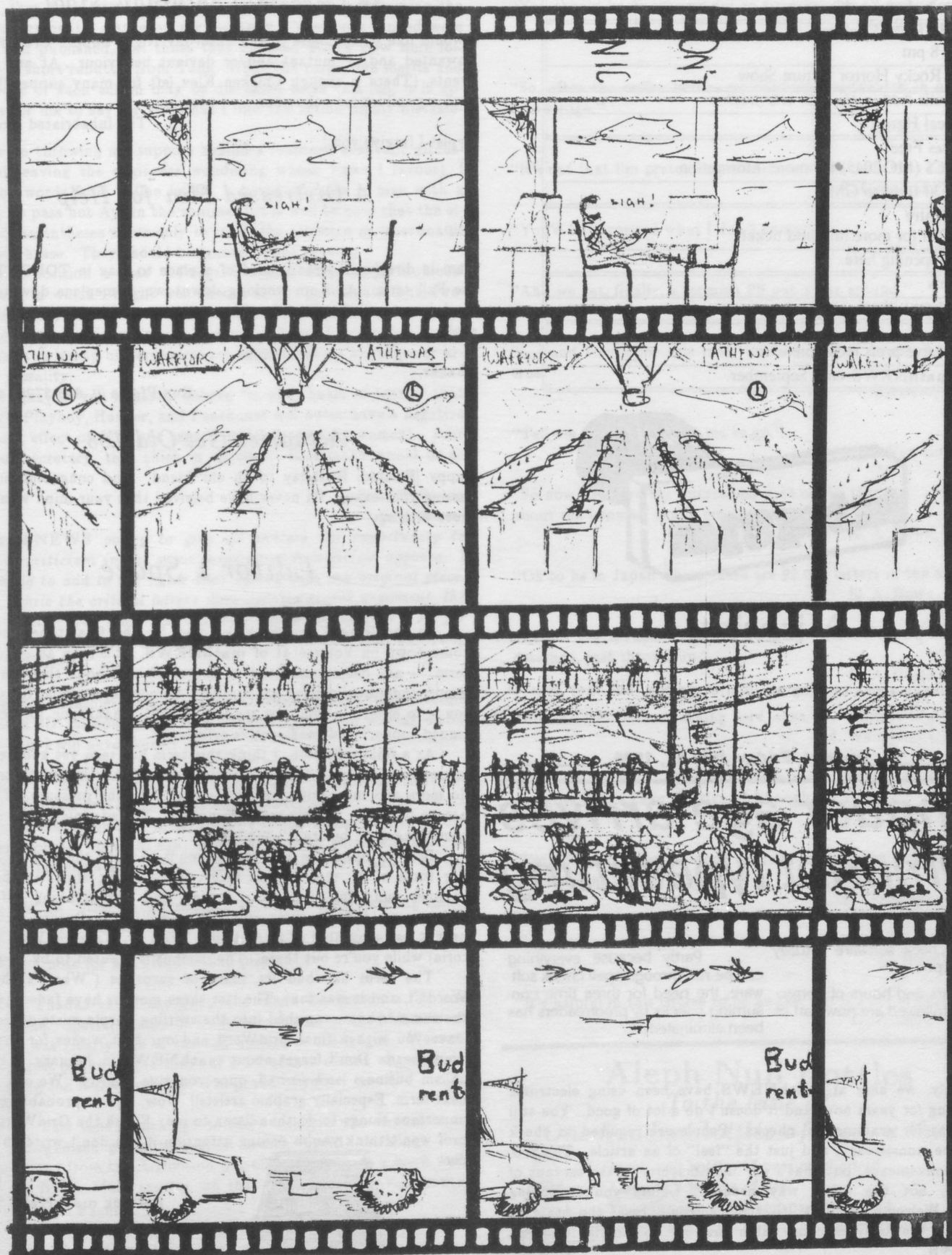


math NEWS

Volume 41 Number 6

Friday July 25th, 1986



LookAhead

Math Events
July 25 End of Term Pub at Fed Hall
WatPubs
See article elsewhere in this issue.
Fed Flix \$1 Feds, \$3 aliens Phy 145 at 8 pm
July 25.26 Rocky Horror Picture Show
Cinema Gratis 9:30 in the CC—it's free!
July 30 Local Hero
DCS Courses Free!
Contact DCS (MC 2045) for more information
July 28.29.30 Intro to GML
UW Arts Centre
Call 885 4280 for more info and tickets
Nothing happening here.
Other Events
Not much here either.
mathNEWS
Four out of five profs recommend it.
No more mathNEWS until September.



Misprint

We thought about running an Imprint parody, but they beat us to it:

Imprint, Friday July 11, 1986

Computer age arrives for Imprint typesetting

Spell Check software virtually eliminates typos.

the hours and hours of corrections which followed are now part of history.

Partly because everything can be run through spell check software, the need for three time consuming checks by proofreaders has been eliminated.

Seriously, we here at mathNEWS have been using electronic spell checking for years now, and it doesn't do a lot of good. You still need humans for grammatical checks. People are required to check for relevance, consistency, and just the "feel" of an article. The program is a convenience, but that's all. The machine is the servant of the people, not the other way around. Unless you're playing *Paranoia*. Welcome, Imprint, to the electronic *rage*, the state of "Why didn't the lousy machine catch that ??" so familiar to us at mathNEWS.

Sauron

Dare to Read the UltraClassifeds

An Unearthly Saturday Night

I would like to apologise to the Saturday Night Supper Crew for any unwanted and/or mutant and/or deviant behaviour. At any future events, (There is enough Chicken Kiev left for many suppers!) I will curb my influenced behaviour.

The Inhebriated Accident.

[typist-I forgive you.]

A Distressed Plea for Help

Help

I am in dire (well, strong) need of a place to stay in TORONTO for the Fall term. As I am working downtown, someplace downtown is ideal, but anywhere along the subway lines would be great (within reason).

Thanks,

Ron Pfeifle @ 886-2796 (4A CS)

Actuaries Get Old Too

Happy [Belated] Birthday to an old friend. And congratulations on passing your exam. I'd never have beleived that your mind would improve with age!

Sauron

Editor's Space

As the Imagen printer kicks over for the final time, the lights come down on Volume 41 of mathNEWS. It's been an educational term. i am deeply indebted to my staff. Without their support I would undoubtedly have gone under. Of course, we exist for one reason - to entertain you, our reading public. Thank you for your continued support and constructive criticism.

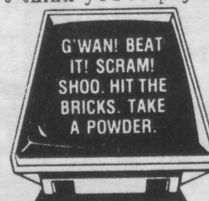
As a final reflection, I think this term has seen yet another tightening of the screw. The inexorable crush of the University trying to do more and more with less and less adds to the pressure. The pace here is too high. People are burning out. The administration must do something now, before it's too late.

Bear in mind the two weeks you'll have at the end of August. For some of us, that time is reserved for lazing about in the warm summer sun, fine-tuning the suntan and not thinking. If you're Expo-bound, take an extra umbrella, and visit the Ontario pavilion. I hear it has a number of attractions. Drop by Waterloo West (U. Victoria) while you're out there. The campus is reputed to be *very nice*.

The term has had its share of surprises ("Where's the Grid-Word?"), and it was fun. The last three months have faded away like the summer haze, vanished into the swirling purple mists of time. We leave you with a final GridWord and our best wishes for the trying time ahead. Don't forget about mathNEWS in January. This journalism business isn't so bad, once you give it a try. [We can use you next term. Especially graphic artists!] Now, you've probably got more important things to do than listen to me. Finish the GridWord! Your prof won't think you're paying attention if you don't write on the paper!

Stuart L. Hodgins

Retiring mathNEWS Editor



Feedback

It bothers me somewhat when anyone tries to "get the last word" with those expressing views contrary to his or her own, simply because of that person's affiliation with **mathNEWS**.

For those of you who have been studying math and not **mathNEWS**: Tom Ivey wrote a piece a few weeks back condemning the federal government's stance on pornography. Numerous replied were received and published, but those that opposed Tom's view were followed by a short rebuttal from Tom. While the respective merits and consequence of such action may be discussed more this fall, it is appropriate for me to say for now that I find the action highly distasteful.

Now, in throwing my support behind a reasoned academic discussion (and leaving the engineers wondering whose views I favour), I offer some words from a fine fellow, a friend of mine, a man with a tendency to pass hot Ayr in the summer. It is well to note that the ellipses and parentheses serve only to mark the omission or insertion of a word or phrase. They should be ignored when reading.

"My ... position is that ... I regard ... (terrorism) as (a) 'dubious' ... (activity, in which I might well choose to not participate, but) I refuse to force my ... (views) on the world at large. ... I refuse to judge others and call certain activities immoral !.. (and) I think it is wrong for a person or group of persons to set themselves up as judges or arbiters of morality. ..."

How many of you honestly believe "in your heart of hearts" that reading (?) Playboy, Hustler, and Penthouse will never have a negative or debasing effect on how you regard others (especially women) - your boss, your secretary, that chick in Algebra? How many would be so naive?

Paul D. Obeda
(off-stream)

It is mathNEWS policy to give all writers the opportunity to respond to criticism in the same issue as such criticism appears. I had nothing to add to the letter that agreed with my original piece. (In fact, while the critical letters were open to cogent argument, the supportive letter was more like one long rhetorical question.) As for the self-contradictory nature of my views, I am aware of it and fully enjoy it. -TAIvey

In response to 'Mathies Challenged by Teenage Mutant Ninja Mathie from Hell in 3D' (although why I am responding to some writing under a pseudonym I will never know):

Sitting at the bar, a mathematician jovially comments, "Hey bartender, I have this great joke about engineers for you."

The bartender quickly interrupts, "I would advise you to reconsider what you are about to say. You see, I myself am an engineer, as are the two bouncers at the door. In fact, every in this pub is an engineer."

"That's OK," the mathie continues with an understanding smile, "I'll speak verrrrrry slowwwlllly."

Be He He Ha Ha

A Thank-you note for MATHn Softball players ...

Case n=1: Thanks to all the guys who made the season a fun and successful one. Special thanks to Doug Stones who pitched his arm off for us and was clearly one of the top hurlers in the league. We convinced the rest of the league that our 2-3-1 season record was misleading by taking the B-Division title. I'm proud of you

Case n=2: This time, thanks go to Marc Lalonde who captain'd an initially disorganized group to a great season record. Although they were eliminated from the A-Division playoff (running into a brick wall, a.k.a. Ritaz Ratz), Marc assures me that you were great representatives of the Math Faculty.

To Jim & Dean in Mathletics, thanks for the support this term and keep up the good work.

Jim Miller

Prof Quotes

Well, this is the last batch for the term. Thanks to all our submitters, and special appreciation for the profs, for their good-natured acceptance. Until next term, keep your ears open!

"You should know by now not to trust anything I write down."

M. McKiernan, AM 381

"So, after the coffee break, we continue, undaunted in our quest for Knowledge."

Ed d'Azevedo, CS 375

"It's not that I'm pretending that I can't do it, it's that I can't do it."

F. Goodman, MATH 230A

"You'd be surprised what I don't know."

M.A. McKiernan, AM 381

"And we get, finally, a formula I'll put a box around."

Keith Geddes, CS 375

"[...] and I wish for this mess to be 0, and of course my wish comes true."

Zorzitto, PMATH 352

"Tell me where you want me to go."

M. H. Van Emden, CS 340

"So now to prove the uniqueness part of the theorem: ... we only need about ten lemmas; that's not too bad."

K. A. Rowe, PMATH 344

"Oh to be in Japan where there are 92,000 letters in the alphabet."

K. A. Rowe, PMATH 344

"That's the trouble with this building [M&C - typist] - it was never designed, just thrown up."

K. A. Rowe, PMATH 344

"Did the stuff I was teaching here leave you completely clueless?"

J. Wainwright, MATH 140B

"It's like saying ... Wow, this dress that I bought at a custom built shop fits better than the size 12 I bought at Eaton's."

C. J. Dalzell, STAT 231

"I'm going to close the door because people keep looking in the class and laughing at me."

F. Goodman, MATH 230A

"What you have to do is convince yourself that it is obvious."

G. Berman, C&O 270

"It's helpful in this course to be awake, but it's not always required"

G. Wilmot, ACT SCI 221

Aleph Null Bottles

To the tune of

'One hundred bottles of beer on the wall'



Aleph null bottles of beer on the wall,
Aleph null bottles of beer.
You take one down and pass it around,
you get aleph null bottles of beer on the wall.



continue ad nauseum

Sibley's Theorem of Lethargy

During the hot summer months, it is not unusual to see hordes of students lounging outside the CC, soaking up some rays. After many minutes of thought, I realised that there is a mathematical relationship between temperature and lethargy. This relationship is not a linear one; it seems that the hotter it is, the less likely one is to want to do any work, but the rate at which this occurs increases as the mercury rises. This can be expressed mathematically as:

$$w \propto \frac{1}{T^2}$$

where w is the amount of work one can get done in seconds, and T is the temperature outside in degrees Celsius.

The constant of proportionality, which is known as Sibley's coefficient of lethargy, is related to the amount of sleep one has managed to get recently. According to my observations, the last three days seem to be the relevant time period. Again, this is not a linear relationship. The graph of w versus s , where w is work and s is sleep in hours (not be confused with S , which is Sibley's coefficient of lethargy), seems to indicate a cubic relationship. This can be expressed mathematically as:

$$S \propto s^3$$

The constant of proportionality in this case is c , the caffeine constant, which is equal to the boiling point of water in degrees Kelvin, which is 373.15.

A corollary to this theorem explains why students can never get all of their work done, even if they sleep for three days straight, which would lead to a value of w of just over 4 days for a temperature of 20° C.

Thus, the hotter it gets outside, and the less sleep a student gets, the less work the student gets done.

Lance Sibley



ASU and MathSoc

present



END-OF-TERM BASH

with

WHITE CHINA

DANCE DANCE DANCE

Friday July 25

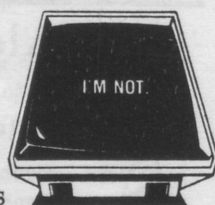
8:00

Fed Hall

\$3 Feds \$4 Others

Tickets at MathSoc

MC 3038



A Change of View Making Change

It seems like I've cursed two hundred times because of the lack of this one thing. They don't give change at the PAC desk.

No one in the PAC, apparently, is supposed to have change. Even the people who manage the sports shop have to pick up and drop off their money at the Turnkey Desk.

I wouldn't care one way or the other about this if it weren't for the strange way that equipment rentals are handled at the PAC desk. For everything from badminton nets to squash rackets, the renter has to plop 50¢ into one of those machines that sell the pieces of paper that you have to give to the person manning the PAC desk. Why not just give the 50¢ to the person at the PAC desk?? I don't know. I really don't understand the necessity of those machines. If they want to protect the PAC people from robbery, they why not put a slot in the PAC desk-top with a locked box underneath?

Now, just say that you've just gotten changed and you find you don't have change. Well, you just have to go across to the CC, right? Well, that's okay now in the Summer, but come January 19th we'll all be singing a different tune.

I can understand the University Administration wanting to protect their employees. So, here is a solution to the change problem, suggested to me by a friend. Why not install a change machine beside those paper token machines? Then, if you don't have change, you can always make it fresh, so to speak.

Lockers and Locks

How much do we pay as part of our tuition for use of the athletic facilities? \$10.00. Now, pretend that you actually want to use these said facilities. A person usually wants a locker to put his/her personal effects into. If you go regularly, then the cheapest thing to do is to rent a locker for the term. This costs \$8.00. So, just because you want to use the facilities regularly, you have to pay almost twice the original fee. Let's say you use the facilities fairly irregularly, say once every two weeks. Then, to use a locker, one is asked to pay 50¢ every time. That still comes out to almost 150% of the original fee.

I certainly have sympathy with the fact that athletic facilities cost money, but when I pay a fee for it, I expect that that fee will cover the costs of my using the place. NO ONE enjoys being nickel-and-dimed to death.

I'm just curious how the administration would react if all those people who don't "exercise" their privilege would begin using these facilities...

N.O.R.

Platter Spatter Home of the Brave Laurie Anderson

This is the latest recording from experimental superstar Laurie Anderson, and is the sound track from her forthcoming concert film. Many of the tracks are meant as background for her performance on film, and have difficulty standing on their own merits here. Fortunately, though, there are some tracks that are well worth listening to, namely *White Lily*, *Language is a Virus*, and *Talk Normal*. The first of these songs is an instrumentally minimal showcase for Anderson's vocal style (predominantly talking rather than singing) while the second captures her particular rhythmic style. If you don't mind listening to a little bit of sound track music between the choice tracks, and enjoyed any of Laurie Anderson's previous releases, you may wish to consider this album.

TeeFax

Losing

Four moons spy and mark our steps
Through futility, a state of mind;
Flowing out from open cloak,
My steaming pain meets nameless sea.

By the shore of the Crimean War
The Florentine marble rises from the sand:
Eyes that carve meaning about my eyes,
Grey indecision of wave on wave.

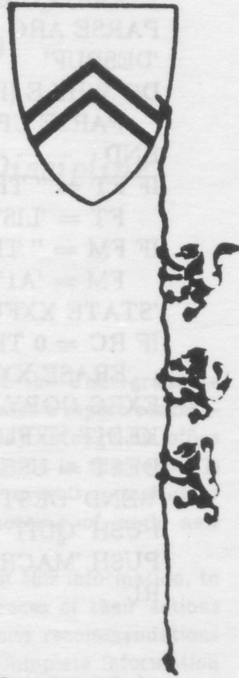
In the negative space of this hand
Lies an infinity of man:
Shadows moving by a faded tintype,
Mirror of shape craving shape.

This is when words fail, dissolute
Bricks in shiftsand walls; and yet
The dark makes its own vowels and avowals:
We speak in shadow its language of regret.

That child that lies in the garden
Wakes at night, sings little songs
To the wreckage, they say, to the mother who sees
Empty space above the marking moon.

In dreams I hear him calling me,
Beating softwing on the windowpane;
I reach for you out of empty sleep
And find it all in vain.

Thomas A. Ivey



Untitled work

My shoulder throbs with pain where the bullet passed through it. I can no longer run fast enough to get away from the men that hunt me. I do not deserve this.

A bullet wings closely past my ear and adrenalin begins to surge through my tired limbs. I out-distance my pursuers for another hundred metres. The fatigue quickly returns and my hunters are once again gaining on me.

I will not be so lucky again.

I keep ahead of my pursuers somehow until dawn, but they are still close enough to be seen and to see. I wonder if it has really been that long since this started. It seems like an eternity. I don't deserve this.

With the light, the men can see me better and they close faster. Two guns are fired one after the other. Both miss, one closely. I can be so lucky again!

The men catch up a little more and try again. This time both bullets reach their intended target. My right foreleg is blown from under me and the other bullet passes through my back just below the spine. I tumble and slide a few feet more along the ground.

I try to rise but with both forelegs injured this is impossible. The men ride up.

"You lousy wolf," says the man who reaches me first. "Why'd you kill Harry? What'd he ever do to you?"

I was trying to get away ... get away, I think. I was cornered and he was tormenting me with a torch. I don't deserve this but you'll never know.

The second man rides up and swivels his gun toward me. I don't deserve this.

Darkness ...

James McDonnell

2B Computer Science/Information Systems

Prof Football

This classroom distraction comes to you from Wilfrid Laurier University where there is a rich football tradition. Perhaps we should modify the rules somewhat and call it Prof Rugby or Prof Basketball to honour our best teams, but then maybe this year will be the big year for our Warrior's Football Team...and maybe it will snow in August!

The only requirement of this game is that it be played in a lecture with a prof who paces. Before the lecture begins, divide the class into two teams. For example, use an aisle in the middle of the room as a dividing line. You must also mark two goal lines at the front of the class. Do this by placing a piece of tape or other marking on the blackboard or front wall about one or two metres in from either side wall. When the prof arrives and the lecture begins, you can start playing Prof Football.

The object is to score a touchdown which occurs when the prof crosses the goal line in front of your half of the class. The opposing team can try to prevent a touchdown from being scored by attempting to attract the prof to their half of the classroom, and then possibly scoring a touchdown themselves! The best way to attract the professor's attention is to raise your hand and ask a question. This requires some imagination because the question should be relevant and so must be thought up on the spur of the moment. Watch out though, because asking a lot of confusing questions could make you part of keener bingo game!

It is best to play two twenty minute halves with a ten minute break at half time. This makes for a full fifty minute lecture of entertainment. So, go out there and win one for the Gipper!

Tank Mathie

Math Maladies

Here is a list of rare but dangerous diseases to watch for here at UW:

Apathitis

An affliction striking most students soon after arriving at UW. Symptoms include refusal to participate in most any event and repetition of the phrase "I don't care."

Birdism

A strange psychosis causing a strange and unnatural fondness for short waterfowl. Usually taking the form of Duckism but occasionally Penguinism is observed. In this case a fixation for RADIO's is also observed.

Anti-Birdism

A hatred of the flocking multitudes of insidious waterfowl that infest the campus.

Overdressup HeatStrokus

An affliction affecting a co-op student's choice of garments. Usually lasts for approximately two weeks around midterms.

Midterminal Grouch

Disease causing students to

1 - Shy away from social gatherings and emit phrases such as "Bug off, I've got four this week."

2 - Wander aimlessly around campus with a stunned and bewildered look.

Penguin Prime

The FUDGE Utility

Tired of not being able to keep a backup copy of your plots generated by SIMPLOT, or just worried about those question marks in the output for your latest CS375 assignment due in fifteen minutes? Relax, here is the answer. Now you can copy and edit files of type listing, with the fudge utility. No longer are you a slave to arbitrary SCuMS limitations.

This is accomplished with the execs FUDGE and COPY. COPY has the same format as COPYFILE with none of the options; however, if the destination file already exists the source file is appended to it. COPY uses XEDIT to stack every line in the file to the console stack. EXECIO is then used to place these lines in the destination file. Note the destination file still can not be of filetype listing but the source file can.

FUDGE uses COPY to put the contents of the listing file into a temporary file. You may then make changes and file this temporary file in the usual manner. FUDGE spools the file to your own reader and then retrieves it using the original filename and filetype. Note this requires the use of the SCuMS SEND command which may be restricted. You may wish to replace this portion of the code with a suitable call to a program, in the language of your choice, which outputs a LISTING file using the appropriate FILEDEF command.

Fuzzy

Watpubs

Calling all pubbers! The dates and locations of the first two Watpubs have been set. Call the numbers listed for the appropriate cities to find out when the rest are.

Montreal

Watpub Line - 849-0728

Ottawa

Sept 4 Pat and Mario's, 18 York Street
Sept 11 Stoney Monday's, 62 York Street
Watpub Line - 230-7775

Toronto

Sept 3 The Diamond Club, 410 Sherbourne Street
Sept 10 Nuts and Bolts, 277 Victoria Street
Watpub Line - 591-1650

Somebody is still needed to organise the pubs in Montreal. Anyone who is interested, please drop by the MathSoc office.

MastHead

The Night in July of the Eve of the Weekend after the Fallout from the Day after the Watpub in the Crypt of the Mummy who was born on the Dawn of the Morning of the Brunch with the No Deposit No Return Son of the Nephew of the Second Cousin of the Sister of the Bride of the Giant Living Radioactive Mutant Masthead that ate Sheyboygan Part III - the Final Chapter. That's it for this term! Don't forget the Prof Quotes next winter! This issue was produced and directed by Stephen Schlemeilberg. Special effects by ILM. Mundane effects by Bill the Cat. Thanks to our inexorable and inexhaustible writers - fwletniowski, Taivey, Steve Murdoch, Tank Mathie, Lyn Williams, Penguin Prime, James McDonnell, TeeFax, the Feed-Backers, Ron Pfeifle, MLE, Fuzzy, and me. Our loyal and exhausted [from the Frosh Issue -24 pages of stuff - no wonder we can't think straight!] production staff: MED (Some layout, looking bored), Steve Furr (doing MSCI), Frank Letniowski (layout, trimming, gridwars), TALvey (Cover, -fixing), Brad Sokol (LookAhead, typing, pasteup), Spiff (Doing BUS), James (Clarification). Graphics Services - on whom I am going to dump 2 mathNEWS today - thanks for all your help this term! Especially Marion for cheery smiles at yucko times of the morning! Thanks to our friends in the I/O dungeon as well. Well, loyal fans and supporters, this is the proverbial IT! Next term is Volume 42 ... beware of Hitchhiker's revenge. Subscribe now - before it's too late! The Black Box remains open for business ... Next article deadline is sometime in September. Good luck, enjoy your work terms, see you all in the bitterly freezing cold of January! Stuart L. Hodgins, shy and retiring editor.

```
/* EDIT A FILE OF FILETYPE LISTING */
/* FILENAME: FUDGE */
/* FILETYPE: EXEC */
PARSE ARG FN FT FM
'DESBUF'
DO WHILE (FN = ")
  PARSE UPPER PULL FN FT FM
END
IF FT = " THEN
  FT = 'LISTING'
IF FM = " THEN
  FM = 'A1'
'STATE XXFUDGE XXTEMPXX A0'
IF RC = 0 THEN
  'ERASE XXFUDGE XXTEMPXX A0'
EXEC COPY FN FT FM XXFUDGE XXTEMPXX A0
XEDIT XXFUDGE XXTEMPXX A0
DEST = USERID()
'SEND' DEST 'XXFUDGE XXTEMPXX A0'
PUSH 'QUIT'
PUSH 'MACRO GETF' FN FT FM
RL
```

```
/* COPY WITH ANY FILETYPE */
/* FILENAME: COPY */
/* FILETYPE: EXEC */
PARSE UPPER ARG FN FT FM FN2 FT2 FM2
PUSH 'MACRO TEST' FN2 FT2 FM2
'XEDIT ' FN FT FM
EXIT
```

```
/* MACRO TO STEAL LISTING */
/* FILENAME: TEST */
/* FILETYPE: XEDIT */
PARSE UPPER ARG FN FT FM
'STACK *'
DO QUEUED()
ADDRESS CMS 'EXECIO 1 DISKW' FN FT FM '(FINIS'
END
'QQUIT'
```

```
/* READ LISTING FILE FROM READER */
/* FILENAME: GETF */
/* FILETYPE: XEDIT */
PARSE ARG FN FT FM
'TOP'
'LOCATE /XXFUDGE XXTEMPXX/'
'READFILE' FN FT FM '(IGNORE REPLACE'
```

Subscripts

No, not the ugly little symbols that your prof draws on the board so small that you can't see them. I'm talking about - subscriptions! Yes, the mathNEWS subscription service is all fired up and ready to go. Thrill to the excitement of a Fall term at Waterloo [I know, gimme a break!] as the X-stream's mathNEWS staff do battle with x-acto knives and, by accident, produce the occasional issue.

For the paltry sum of \$3.50 (\$4.00 in the excited states of hysteria) you can have mathNEWS mailed to you, wherever you may live. Drop by and ask a friendly MathSoc staffer. Speak very slowly. They'll be glad to help you. See you in January!

Summary of Faculty of Mathematics

Undergraduate Academic Discipline

Cases 1985/1986

Introduction

During each Spring Term the Chairman of the Undergraduate Advisory Committee on Academic Discipline releases a report concerning the conduct of cases reviewed either informally through his office or formally through the committee. The information in this report is conveyed through **mathNEWS** to the students as well as to faculty members during the first Faculty Council meeting of each new academic year.

It is the intention, through the publication of this information, to ensure that students are aware of the consequences of their actions should they fall under the purview of the University recommendations for dealing with cases of academic discipline. Complete information about the University's guidelines in this regard are contained in the booklet "Academic Regulations and Student Discipline Policy and Examination Regulations and Procedures," which is available from the Registrar's Office.

Informal Cases

All discipline cases were handled informally through the office of the Associate Dean in consultation with faculty members involved in the case at hand.

Plagiarism

There were six incidents of students submitting plagiarised course material for partial course credit. In each instance the work submitted received a penalty of -100% for the credit available for that component of the final course grade. In all instances the students were reprimanded by the instructor of the course concerning their inappropriate behaviour.

The record of the offence will be destroyed upon the date of the students' graduation.

Collaboration in Assignments

There were three instances of students involved in extensive and unwarranted collaboration in assignments. In two of these cases the students were penalised by receiving a credit of -100% for the assignment contribution to the final course mark. In the third instance the students were awarded a grade of zero on the assignment in question. In all instances the students were reprimanded by the instructor of the course concerning their inappropriate behaviour.

The record of the offence will be destroyed upon the date of the students' graduation.

Misconduct During Exam

There was one instance involving a student who allowed another student to copy material from his/her examination paper during the conduct of the exam. Since this student was a Math student taking a course from the Faculty of Arts, the Associate Dean of Math provided an official reprimand and the instructor dropped the grade in the Arts course one full grade.

The record of the offence will be destroyed upon the date of the students' graduation.

Bank to the Future

It's always been a wonder to my how this country has survived with its current banking system. One marvels at the great and twisted minds that made Canadian financial institutions what they are today.

Banking the Way it Was (it wasn't)

When Canada was young, there were no banks. Typical transactions among the newly settled were quickly completed through the use of the barter system. For example, say Laslo here is hungry and sees Ivan with a fine bowl of stew:

"Hey Ivan, I'll give you a toe-nail and my dog for some of that fine looking borscht there."

"Throw in a beaver pelt and you've got a deal."

"Done!"

...and you could expect Ivan to be sipping cool, delicious borscht. The system is simple and elegant.

As fate would have it, early Canadian Government was to blame for the development of banking. The government of New France was, like any government, adept at spending wealth, but not so good at hording it. We now join the scene and watch as that government attempts to pay one of its civil servants his daily wages:

"Marc, go into the back room and fetch this man his two and a half pairs of socks and a cabbage."

(Marc goes back, but, alas, the top drawer of their filing cabinet, labelled "Any funds lefts after long nights of gambling and drinking," is empty, except for a worn-out deck of playing cards.)

"Luc, all we got is dis deck of cards."

(silence)... "Marcel, I got somet'ing new for you. The pay-cheque!"

And thus was the banking institution dragged kicking and screaming into Canadian finance.

The Picture Today

The financial system of today is a fast and efficient beast, mainly because of the fateful introduction of chequing in the 17th century. Most businesses, from the lowliest flower vendor ("A cheque!?!") to the loftiest of sales establishments.

Examine, if you will, the following example, which could be a dialogue from any one of the many hundreds of banks on campus:

"I'd like to buy some american money, please."

"Will you be paying with cash or charge?"

"I'll be paying with a cheque."

"Do you have an account with us?..."

(an audible hush falls over the branch)

"...no, why do..."

(machine guns appear from nowhere) "I'm sorry, but we can't accept cheques from another branch. **NOW, GET OUT BEFORE YOU GET HURT!**"

Yes, in Canada, the personal cheque is an institution.

MLE (Emily)

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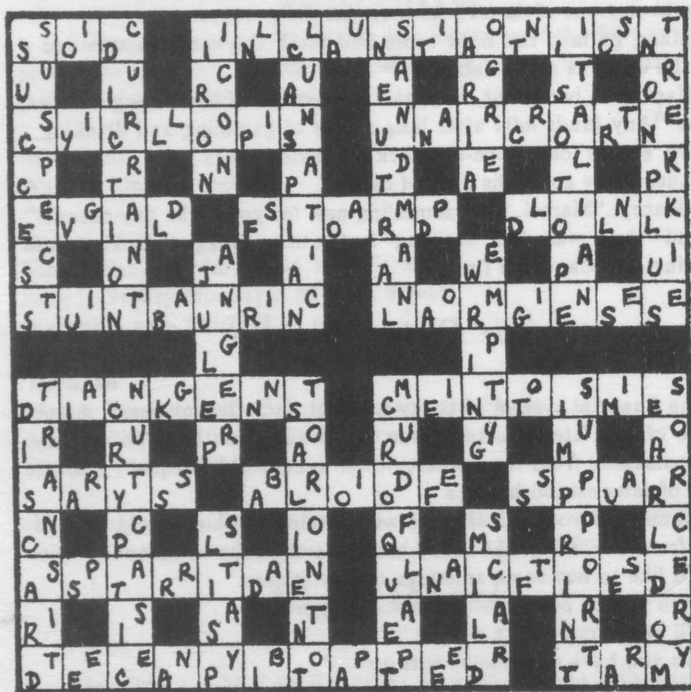
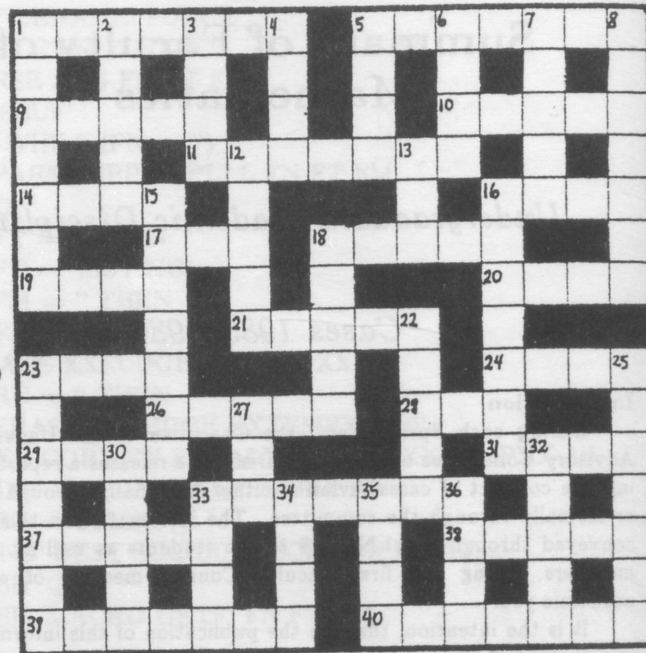
CRYPTIC

Across

1. In Mexico, an arch exists as head honcho (7)
5. Ugly to conceal love with us (7)
9. Is a third dimension directly confounded? (5)
10. Ted included us in the fabric (5)
11. Math is somehow a garble (7)
14. Fifty litres of uranium left back at a calm (4)
16. Is gold a boyfriend? (4)
17. A runabout vase? (3)
18. Not stern, that is a singer (5)
19. Start to gain a replica (4)
20. Every ordinate friend (4)
21. A letter consumed in high spirits (5)
23. Hurry a cattail? (4)
24. Noose about a square pond (4)
26. Hesitate like an energy wipe-out (5)
28. A loved letter returned singly (3)
29. Look after a strange dent (4)
31. A T.O. parkway in winter? (4)
33. Ease Dad to the Holy Land lake (4,3)
37. The rear hesitates later (5)
38. The Spanish reversible small apron book (5)
39. The finish indebted and enriched (7)
40. A lot of beer for a large youngster? (4,3)

Down

1. A red mark allowed (7)
2. Profit by a Gabor taking 49 (5)
3. The notion of hideaway contents (4)
4. Mercury about an object suspension (4)
5. That lady's head butler is a spice (4)
6. Information a little bit up (4)
7. No strange bees were portly (5)
8. A froth dug under a northern city (7)
12. A man is a weapon? (5)
13. An uncooked fight rose (3)
15. Ate after acceleration lost when launched (7)
16. Whip the French rock group (7)
18. The edge baled haywire (5)
22. Wear away up about a poem (5)
23. A sun-god copies the difficulties of life (3,4)
25. Dusty ordinate Communist Italian raised (7)
27. Copy a quiet electron (3)
30. No guy marked (5)
32. A man of great wealth drinks coffee (5)
33. A sketch hung in the hospital area (4)
34. Sour current mind (4)
35. Include his kitten in a play (4)
36. Soundly competent to be in the first family (4)



CONVENTIONAL

Across

1. SUMMER TIME UNITS
5. ANCIENT SCIENCE
9. STOCKING
10. SHAPE
11. WINDPIPE
14. HURT
16. PARTLY
17. IN ADDITION
18. SIPPER
19. FLYER
20. PAIN SOUND
21. NEW
23. SMILE
24. BURDEN
26. SOLELY
28. EXPEND
29. VOID
31. ALMOST SLEEPS
33. SAVIOUR
37. FRUIT
38. EXTREME
39. CHANCE
40. ASTONISH

Down

1. EUROPEAN COUNTRY
2. RAVINE
3. RELATIVE
4. COUCH
5. SMOOTH CURVE
6. DEEP SLEEP
7. AVOID
8. JEWISH
12. SPACIOUS
13. MISJUDGE
15. FOREVER
16. PUFFED
18. FRY
22. CHEESE
23. CS BOX
25. AILMENT
27. POEM
30. CERTAIN OUTCAST
32. GROUP OF 8
33. FOOD LIST
34. ONLY
35. EYE PART
36. DANCE

Grid CommEOT's

We were dilged with solutions from last issue's GridWord - 34 in total, 28 cryptic and 6 conventional. My guess is that the cryptic was easy and the conventional, well ... not so easy. In the solution for the conventional puzzle, number 28 down, KIND is also possible for warm. The randomly-chosen winners (sorry no wonderful schemes this time) were: cryptic: Ken Sulston, and conventional: Barbara Adey. They may pick up their awards in the MathSoc office, MC3038.

As this is the last issue of the term, there will be no prizes awarded for this Grid's solutions. The solution will be posted outside of the mathNEWS office, MC3036. I want to thank all of you for making my job (??) worthwhile by doing the puzzle and making interesting comments.

Below is a list of the correct submitters:

Mike & MJ, Bruce Sutherland (scratch) Wilson, Leanne & Frank & Paul, Randy Richard, Mike Hess & Karen Joyce, Dimp Pathria & Chris Bajdik, Mark & Walli (who solved the cryptic not conventional last issue), Rubina Jiwani & Kevin Awrey (sorry about the spelling last issue), John McIntosh, P & MLE, Homer Watson, Darlene White, TU & LM, Ravi & Steve LTD. CIV. ENG.,

Peter Simpson, Greg Clarke, Connie & Ian & Dale, Len Popp, Sean Bishop & Dianne Turpin & Julie Lefebure (?) & Gail Zelding, Cari Burton & Lori Mattar, Hershchel Slansky & Gary Seven (Mission: Earth (Star Trek)?), The Spoon, Zamil Janmohamed & Charlene Purdie & Tim Kennaley & Bob Greenfield, Ken Sulston, Ric Marcucci & Ed Musters & Joanna Musters, 85069676 'The West 4 K-team', and Barbara Adey.

Also, Sean MacDonald, GRENDEL, J.C., Ron Eitzen & Ward Wiffen, David & Ian & Connie, Ice Argyle and Janis provided semi-correct solutions.

Selected comments: 'If any answers are wrong they have been changed to protect the innocent', 'Never before has man tried to confuse each other as much as they do now', 'To boldly go where no man has gone before', 'Whoever comes up with these has a sick mind' (Then whoever likes to do these), 'GridWord rates great!', 'I'm Gumby, dammit' (see second previous quote), 'Easy this time', 'Really tuff guys!', 'Massive passive self-annihilation'.

To the two of you who sent in clues to do - I never said I was able to actually do cryptic puzzles, frankly I don't know how anyone can do these since sometimes even I can't do my own!!!