

Volume 57 Number 6

math **NEWS**

Friday, November 22, 1991



Look Ahead

mathNEWS	
November 28	Issue #7 production night 6:30pm, MathSoc (MC 3038)
December 2	Issue #7 hits the stands
Drama Dept.	
November 22-23	Last days for Romeo and Juliet

Undergraduate Research Positions

NSERC Undergraduate Research Awards are designed for senior undergraduate students interested in spending a term (Spring 1992, Fall 1992, or Winter 1993) doing research work under the supervision of a faculty member who is a current NSERC grantee. Math students interested in applying should have strong cumulative averages and some potential for involvement in innovative research in any of the five departments of the Faculty of Mathematics. Reimbursement is usually commensurate with salaries for co-op work terms. If you have further questions or wish to apply for consideration for one of these awards, please contact one of the following representatives.

Applied Mathematics

E. Vrscay MC 5171 ext. 4602
Erna Unrau MC 5007 ext. 6105

Combinatorics & Optimization

C. Godsil MC 5035 ext. 6105
Georgina Coutinho MC 6057 ext. 2696

Computer Science

F. Burkowski DC 3121 ext. 4445
Jane Prime DC 3103 ext. 2191

Pure Mathematics

F. Zorzitto MC 5067 ext. 4073
Carolyn Jackson MC 5077 ext. 6846

Statistics & Actuarial Science

G. Willmot MC 6018 ext. 4608
Lucy Simpson MC 6133 ext. 5025

CSC Flash

Numerous items on the agenda for the next week.

On Tuesday, November 26th, there will be a guided tour of the Computer Graphics Lab at 2:30pm. Space is limited, so sign up soon on the CSC door (Across from MathSoc) Any other information may be obtained from a friendly office worker.

On Thursday, November 28th, there will be our regular CSC talk, this time given by Vanstone on Cryptography. It promises to be very cryptic. This will take place at 3:30pm, in room 4021. Tea and doughnaughts will be served.

On the same Thursday, the CSC will be having our regular, but rather unplanned, End-of-term dinner at 8:00pm. Location is not yet determined, but soon a friendly office worker will likely be able to give you all the necessary details. Unfortunately, the CSC executive did not consult myself, Calum T. Dalek, on the time, and I will not be able to attend.

Sometime in the next few weeks it is expected that CSC shirts of various types will be received. Again, a friendly office worker should be able to fill you in with details, or possibly just give reassurance that they will come in.

Calum T. Dalek
CSC Chairbeing



Soc Toc

Hello, and welcome to your Friday Social info-session. We've been busy (as always) for the last couple of weeks. November 7th was comedy night, and a group of mathies all headed over to YukYuks for 2½ hours of hilarity. If you were there, I hope you enjoyed it as much as I did. If not, I recommend you get over there sometime ... it's fun fun fun and you can't beat the price.

Last Thursday was Wild Wild West Night at Fed Hall. Those who were there had a great time snarfing our great Wild West buffet and defending their honour against the Wild Wild boxing robots.

In honour of the occasion, MathSoc gave away a video copy of *Butch Cassidy & the Sundance Kid* and a fabulous TV and VCR from Steve's TV to play it on! Congratulations to our winner, Scott "I've never won anything before in my life" Milne and hello to his friends, who assured me that Scott has, in fact, always been a loser.

Thursday (yesterday), a bus load o' rowdy mathies went to Ontario Place to see the Rolling Stones flick "At The Max". Since this is Monday, I can't tell you how it was 'cause I haven't been yet. But if it's even half as good as its reviews, it has to be FABULOUS.

Next Monday, November 25th, will be the awesome end-of-term pub to end all end-of-term pubs! The mathies will be meeting at the BombShelter for a great evening of celebration. Come out and party for (probably) the last time before finals are over. It promises to be a great time!

Congratulations again to Scott Milne. Good luck with your finals!(I'm finished mine on December 7th!) Keep smilin'!

Karen Wasslen
Social Affairs Director

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Editor: Mike Reade and Betty-Jo Hill

Everyone is welcome at the

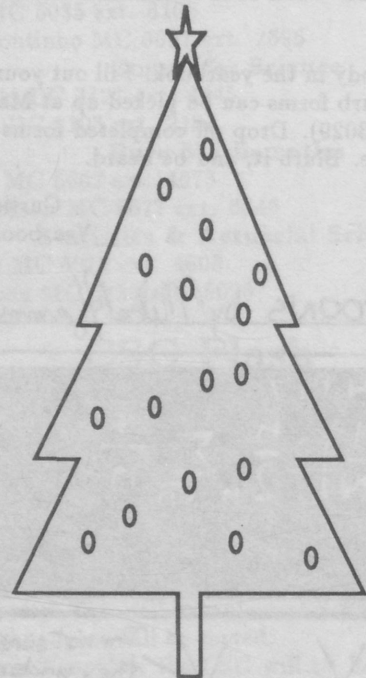
Math Christmas Party

presented by

ActSci AMClub
ClubStat CSC
PMClub

sponsored by

The Dean of Mathematics



Monday November 25
at 4:30
ICR Colloquium Room
DC1301

Pure Math/C&O Club

As the end is drawing near, we would like to thank all those who have contributed to our term. Tuesday, the PMCOC held a luncheon and awards presentation for those contributing profs and students. Thank you to all who came out.

At this luncheon, two profs were presented with our "Professor Appreciation Award" for 1991. Brian Forrest, from the Pure Math Department, and Kannoo Ravindran, from the Department of Statistics and Actuarial Science, were the two 1991 recipients. Congratulations are in order for both.

This Sunday, the U of T math club will be visiting us at UW for our second Undergraduate Math Day. Student lectures and ideas will be shared, and should be enjoyed by all. Please, if you are interested in taking part in this day sign up on the list posted on our office (MC 3033) door.

The PMC sweatshirts are now on sale in our office. If you are interested in getting one, please just drop by and ask about it.

Congratulations to Colin who competed in the recent International Othello tournament. Colin will also be competing in this weekends "CSC Open Computer Othello Tournament" as the only "human" entry. Good luck Colin! We are counting on you to put those computers to shame.

symf

Vapid Fire

mathNEWS has learned through sources inside Paramount that actor Michael Dorn, who plays Worf on Star Trek: The Next Generation, is upset about the final edit of the recent episode "Reunification II." Apparently, Dorn was planning to debut a solo number entitled "I am Klingon, hear me roar." Luckily, good taste prevailed.

As reported in Waterloo's Gazette, the new "Guelph - Waterloo Education Link" was officially opened two weeks ago. mathNEWS was on the scene to gauge student response. On the whole, students were very pleased: "At last! No more wading through cow flop." "Thank God we don't have to suffer the stigma of setting foot on Moo U any more." Further investigation revealed still more reason for science students to rejoice, the so-called "Electronic Classroom" has also been wired for TSN and First Choice cable services. When pushed for funding, information officials denied any knowledge of this. Rumours of a possible link up with Paramount Studios promises to provide the classroom with a live link to the bridge of the starship Enterprise.

U(W) is taking part in a multi-university special math program which is to be called the Fields institute. This is named after the great John Charles Fields, who was known for being outstanding in his ... nah, forget it.

The University of Waterloo, in co-operation with Seagram Museum, is offering a special non-credit course called "Introduction to Acting Like You Aren't Drunk". This course, to be held during the winter term at the museum in Waterloo, is for people "interested in deepening their tolerance for the effects of liquor, while keeping their respectable appearance and jobs." It will focus on teaching students to avoid the unsteadiness, fuzzy speech and all-around boorishness which characterize the drunken state. Engineering students are strongly advised to take this course, even if they don't drink.

MacGyver
VapidFuzzy

ProfQuotes

Ravi free!

You might be wondering why we have so few prof quotes. Sure we received a lot more than we've printed here, but we selected only the best for your exclusive reading pleasure. If you're going through your notes studying (ack!) and find some great quote scribbled in the margin of your page, by all means, submit it to the BLACK BOX on the third floor of MC (across from the Comfy Lounge), by (note the strange date) Rhursday, November 28th at 6:30 pm.

"It may be more important for me to have your name than your sex."

Pidduck, CS 131

"Nod twice if you understand, once if you're conscious..."

Morris, MATH 237

"The best part of getting your Ph.D. is knowing it will be on your tombstone."

R.L. Porter, CLAS 202

"I think that just for asking that question I should get a good evaluation from you in the course."

Randall, ENGL 208A

"This sort of hard problem will not be on the final exam. We realize that thinking is painful for you."

Morrison, PHYS 121

"Suppose you don't know what to do, but you want one free mark out of five — what do you do? You put 'Take any $\epsilon > 0$ and find δ such that...'"

Zorzitto, MATH 147

"This only proves that if you're going to blow up a House of Commons, then you should choose your friends carefully."

Jackson, C&O 230

"0.05% is less alcohol than you'll find in orange juice."

Ragde, CS 134

"Real programmers aren't afraid of Quicksort."

Ragde, CS 134

"I never make mistakes, but on the off chance that something wasn't right with my writing..."

Wubnig, PHIL 140

"If there are 32 weddings on one day, but the night before two of the grooms are killed, is it possible to have 31 weddings from the remaining people? Only in California."

Varey, PSYCH 207

"Everyone at this university is pure evil!...well, you people aren't because you're taking this course...but everyone else is."

Rempel, PSYCH 253

"His? Her? No reason for God to have sex organs; it would be awfully frustrating given that there's only one of them."

Abbot, PHIL 216

"All I remember about calculus is that differentiation is easy and integration is impossible."

Abbot, PHIL 216

"You all have all done some low-level programming. By 'low-level' I don't mean 'low-quality.'"

Mavaddat, CS 351

"Teaching you is much more fun than getting killed on a highway."

Kitchell, BUS 362W

"They don't go on and on forever like calculus profs."

Scoins, MATH 137

"I apologize for being late this morning. I was in bed and my wife put her arms around me and said 'Make me late for work this morning.' You wouldn't believe how long it takes to make bacon and eggs."

Morrison, PHYS 121

"I'm going to assume you can all do this, but as often occurs in math, one can assume things without believing them..."

Springer, STAT 230

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Demystifying MathSoc Elections

The CRO's Report

We are once again in the midst of an election campaign. On Monday and Tuesday all co-op students will be asked to vote for the MathSoc executive for the term of spring 92. Why should you bother to vote? After all, you only give MathSoc \$7.50 a term.

Well, those \$7.50's do add up. For example, this term's estimated revenue is \$21 450, with over \$18 000 coming from the MathSoc fee. Spending for this term is projected at about the same amount. Do you have any idea where it went? By voting next week, you not only make next summer's executive accountable for that money (by the way, the summer term will probably have about half the income), but even have a chance to influence how it gets spent.

The following people will be running for executive positions (in alphabetical order):

President:	Mike Reade Eric Sutherland Dale Wick
Vice-President:	Erich Jacoby Elaine Ooi Michael Melvin
Treasurer:	Erick Homier Barb Torner

Each of these people has a brief statement included in today's issue.

The campaign period runs until today, and the elections will take place this Monday and Tuesday (the 25th and 26th), on the third floor.

Also, this week (ending today), is the nomination period for next year's (Winter and Fall) executive. These are nominations only; elections for these posts will be held early in the Winter term.

Finally, for all students currently enrolled in third year co-op, we will be running a confirmation vote for your Math Grad Committee Chairperson concurrent to the elections. MathSoc Council will select a chairperson this week, and you are asked to confirm that person. Simple and painless!

Jerome Nantel
CRO

Barb Torner

for Trez!

If you don't know who I am, just think blonde, enthusiastic, and forever in the MathSoc office. I'm also the person doing most of the announcements for those of you in C&O 350 (8:30) and CS 432. There hasn't been much campaigning on my part because until Tuesday I was busy organizing the Frosh party at Fed (I do hope it went well!).

For my qualifications, let me first say I'm in 3rd year Accounting, just like Erick. I'm the 3A rep (yes, there's only one), and I was on Math Orientation. I've also been helping the present Trez occasionally this term and have a good idea of what the forty hours a week entails.

Well, I have a 50% chance of getting your vote.

Thanks,

Barb

MathSoc Voting Quiz

This is a quiz for all people who want to know anything about sex ... oops I mean the election thingie that is going on Monday and Tuesday. Or even if you don't.

1. Who has been a student representative since his 1A term?
2. Who is constantly contributing to this wonderful little paper that we like to call *mathNEWS*?
3. Which person you often see in the MathSoc office is aptly nick-named 'Fuzzy'?
4. Who spent this Frosh Week running around and doing everything possible to help frosh orient themselves while valiantly resisting the temptations of sleep?
5. Who is ready to step into full executive responsibilities and help steer the MathSoc Council through the peril-ridden waters of the Spring term?
6. Who are you going to elect Vice-President?

If you answered Erich Jacoby to any or all of the above questions, (or even if you didn't) vote for him for Vice-President. It's the right thing to do (just ask Wilford Brimley).

Erich 'Fuzzy' Jacoby

Elaine Ooi

for Vice-President

Experience with the Math Society:

- 2nd VP of Services (Fall '91)
- Orientation Leader (Fall '91)
- Class Rep (Fall '90, Winter '91, Spring '91, Fall '91)
- Publications Director (Spring '91)
- Member of the Publicity Board (Spring '91)
- Posting Director (Winter '91)

My main goal for the Math Society next term is to promote society involvement. This would mean getting people out to our social events and improving the relationship between council and society members. I intend to make the summer of '92 your best summer ever by having roadtrips, tournaments, and pubs throughout the term.

There might be some of you out there who say, "Yeah, right, all these things have been said before, but will she really make a difference?" Well, I won't make empty promises by saying that I will fulfill all my goals, but I will certainly make an effort and will gladly serve you as Vice President if elected.

Elaine Ooi

The Adventures of Major Booboo, Agent of CSIS

As we left Booboo last week, he thought that he had saved the day and triumphed over evil once and for all. But of course, that would make for a pretty boring next episode of the serial, so he ain't off the hook yet.

Last week, he had saved us all from the threat of the evil Kanayusmakme tribe, who were plotting to do something evil (we assume). Seeing that the flood waters were still high, (being fed not only by Laurel creek but also by our near-constant precipitation) and noting the huge breakers formed by our gale-force winds, he decided to go surfing. He got out his super-dehydrated surfboard from his left pocket (his right pocket, of course, being occupied by an Amiga) and added three drops of water. It immediately expanded to a logarithmic curve which was especially calculated for greatest speed:surface-area ratio. Climbing aboard and attaching his seat belt (safety first, Robin) he commenced to surf the bell curve. Just at this precise moment, a tsunami appeared over the horizon behind him. A tsunami in Waterloo? you ask. Yes. Little did he know it had been created by the evil Dr. XOR and his top-secret Sinewave generating function.

Purely by chance, Booboo chose this moment to bend over on his stick to tie his shoe, so he was in a crouched position when the massive wave hit. "Aaaaahh-glurgle-glug-sputt-aaah-glug!" he shouted as the wave bowled him over and then sent him flying through the air. He landed in the hole in the centre of the MC with a thud. THUD!

"Oh, geez, I broke a nail," Booboo cursed to himself. "Now I'll never win that longest fingernail contest I have been having with my brother for the last twelve years."

Despondent, dazed, and somewhat waterlogged, he picked himself up and wandered through the nearest door. Suddenly he realized where he was.

"Oh no, not the sixth floor!" he shouted. "This place has been the nemesis of virtually every mathNEWS serial character to date!"

After pondering his fate for a few moments, Booboo realized that there was nothing else to do but boldly go where everyone had been before (Gene Roddenberry 1931-1991) so he set out into the maze.

"I'd give anything now for a roll of string or bowl of washing powder or something to mark my way," he thought to himself, conveniently forgetting the CSIS Homing and Lost Spy Location device he had in his (left rear) pocket.

"I feel like any moment David Bowie is going to jump out and wave his unit at me" Booboo thought to himself, as he glanced at the graffiti scrawled on the wall (Watman was here, Ungh! wuz heer, Need a detective, call Loopy (I also do knitting), Zingwork of the 21st century passed by) "Zingwork?" thought Booboo. (Zingwork is a serial character from volume 142 - Future Ed.)

To the sound of bull snorts and echoes, Booboo wandered through the corridors until he saw a sign which suddenly gave him an idea.

"In case of alarm, your exit is the east stairs," said the sign.

"Great," he replied, "all I need now is an alarm."

Before the stupidity of this line of thinking set in, Booboo pulled the alarm. Suddenly the halls were filled with the rushing bodies of professors and grad students. The buzzing of the alarm triggered Booboo's animal survival instincts and he went blindly running off in no particular direction. Plunging through a door marked 'No Admittance' (which a green man kindly unlocked for him) he found himself in a little used secret passage.

"I wonder where this goes," he wondered aloud to himself and anyone else who might be listening in. (Who might be listening in, you ask? But of course, none other than the dethpicable Dr. XOR) Turning a corner, Booboo found himself in the secret hideout and laboratory of the really nasty Dr. XOR. Not realizing the extent of his danger, Booboo casually strolled around pushing buttons and pulling levers to see what fascinating patterns he could make with all the blinking lights. "Gee, this is better than Lite-Brite©," he thought to himself. "Whatever happened to Lite-Brite, anyways?"

"I bought it all up and used the equipment to build this lab, where else did you think I got the parts?" exclaimed Dr. XOR, startling Booboo right out of his shorts. (Which for some reason he was wearing over his pants)

"Wait a minute, how can you answer my question when I was just thinking it, rather than saying it," queried Booboo in a rare flash of brilliance.

"You have fallen victim to my Direct Access Stupidity Detector! (I would call it a DASD but IBM would sue me). It reads the thoughts and controls the movements of anyone stupid enough to wander into its range."

"Oh, shit," thought Booboo.

"I heard that, and I will permit no profanity in my presence, only expanded superlative phraseology. After all, how else to tell the entire world of my incredible genius, my priceless intellect, my divine right to rule!"

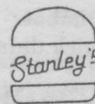
"Now I give you this choice, Booboo," he spat out the word with distaste. "You can either eat stale, left over C+D bagels until you explode or be crushed under this huge heap of stolen Iron Warriors. You may choose one or the other," he continued, "but not both!"

"Oh no," Booboo thought to himself and his captor, "it can be no other than the fiendish Dr. XOR!"

Realizing that if he tried to think of plan, Dr. XOR would immediately be aware of it and render it useless. Keeping his mind purposefully blank (not hard for Booboo) he acted on his first impulse.

continued on page 8

The Stanley Burger Philosophy



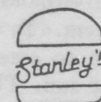
At Stanley's we believe that each customer deserves a great tasting, wholesome meal. Every item on our menu is prepared the olde-fashioned way using only fresh, nutritious ingredients. Our burgers are made with 100% pure beef, all-natural spices, no added preservatives and are served on bakery fresh buns. We take pride in putting only the best into everything we make.

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Expires Nov. 21/91

continued from page 7

"I am not the agent you are looking for," he said.

"You are not the agent I am looking for," repeated Dr. XOR in a monotone.

"You can release me now," said Booboo.

"I can release - waitaminnit, you aren't a Jedi Knight, you can't bend my mind to your will so easily!" exclaimed Dr. XOR.

Suddenly alarm klaxons began sounding, and the lighting changed to red.

"Egads, your meddling with my lab is causing a critical stack overflow! I will deal with you as soon as get things under control."

Using this convenient distraction, Booboo sprinted for the other end of the lab. Reaching a locked door marked Exit, Booboo looked around for a way to escape. Then out of nowhere a hunchbacked human-genetics-experiment-gone-horribly-wrong wearing green overalls limped forward and unlocked the door.

"Thanks alot," said Booboo, diving through the door.

Spaced Invaders

Enough with the stupid titles already!! Jeesh.

This Week in Space.

Friday November 8, NASA's Administrator for Procurement, Darleen Druyun, suspended Collins Commercial Avionics from further government contracts. The contractor and one present and one former employee were indicted on 15-counts of defrauding NASA for several years on production and repair of shuttle equipment. The two named employees, and others not named, billed NASA for work which was not performed and fraudulently inflated vouchers which had been sent to NASA for payment. If convicted, Rockwell (the parent company) could be fined \$7.5 million and the named individuals could be fined \$1.5 million and face a possible 30 year prison term. (The hammer? Oh that'll cost ya \$299.99. Ya that's the ticket.)

An IMAX film has been made from Magellan's radar imagery of Venus. The film's premier won rave reviews at the Magellan science briefing several weeks ago. (Hopefully we'll get a chance to see it here in Canada.)

The big news this week comes from the Galileo mission team. They were able to download a low resolution black and white image of the asteroid. The asteroid is 8-10 km across, about the size of Oahu, has $1/2000^{th}$ earths gravity and an escape velocity of 10 m/s. The asteroid exhibited features such as craters, ridges, and "grooves" similar to those seen on Phobos. The grooves appear to be fractures left by an impact which didn't quit break up Phobos.

Without the high gain antenna the image took 20 hours to transmit. If the antenna were deployed it would have taken one minute.

Plans to free Galileo's stuck high-gain antenna, were detailed this week. They include a series of cooling manouvers which will shrink and expand the antenna components in the hope this will unjam them. To cool the antenna the spacecraft must be powered down to essential systems only and then be pointed away from the sun. This will mean a loss of contact with earth for up to 50 hours. The craft must turn back to face earth autonomously if any more commands are to be sent to it after the cool down period.

Angus Mac'Iver

"Stupid students," thought the assistant. "It's a (space) lot. When will they ever learn."

Wandering through the darkness again, Booboo found himself before a door with a mold-covered sign. Reading by the light of some faintly glowing discarded food scraps, he could only make out the letters "V_GE 2"

"This reminds me of a bad movie I once saw. Didn't Sinead O'Connor star in that?" he wondered absently. He cautiously opened the door and found himself in the Cafeteria coming through a door marked Waste Disposal.

"Aaaahhh," someone screamed, "something alive is coming out of the food scrap heap!"

Booboo blinked in the bright white light and saw a crazed chef (chef? in Village? Yah, right) with an upraised cleaver and the look of someone who could use it. The air swished as the cleaver descended towards the outstretched neck of our hero ...

Concluded next issue.

Agent Fuzzy
Harry Organs

Masthead

First a word from our sponsors to remind you that the next mathNEWS production night begins Thursday, November 28th at 6:30 pm in the MathSoc office (MC 3038). Note the departure from the Monday night schedule. This is to accommodate distribution of the last issue of the term on the last day of classes (Tuesday, December 3rd).

We return to our regularly scheduled programming. Here's our faithful mathNEWStaff (wearing their new mathNEWShirts) along with their favourite tabloid headline:

Curtis Desjardins (Elaine Ooi is a Romulan love child), Christina Caldarelli (Loch Ness Monster Moves To Meech Lake Where It Drags Angry Politicians to an Icy Grave), Caryn Babstock (Crazed CS Student Blows Up Mainframe—Claims it was Euthanasia), Rob DelMundo (Mitsou's Shocking Revelation—Eric Lindros Dumped Me For Debbie Gibson (That's why he won't play in Quebec)), Stuart Pollock (Village Food Is Nutritious (Claims Insider)), Chris Beauregard (Baby Born to Watermelon Looking for Father), Mark Brockington (Six Foot Chernoybl Chicken Stalks Ukraine Countryside), Erich Jacoby (My Husband's Love Cured My Nymphomania, "I Was Tormented by a Need for Sex—Until I Met Jim"), Mike Hammond (Elvis' body Discovered In Jeffrey Dahlmer's Freezer), Brian Spenser (Politically-Correct Persons Found Exploding), Bill McEachern (Top Psychics Predict End of World is Near), Monica Rooney (I Just Shot Them Down. It was easy!), Ian Goldberg (8-Year Old Boy Gives Birth to Pregnant Girl; First Double Birth in Recorded History), Phil Rittenhouse (Telephone Company Has New Service That Lets You Talk to the Dead), Phil C (Altarboy from Newfoundland beats Ben Johnson's World Record), Dale Wick (Snow Cones From Space Take Over the Applied Math Club), Shannon Mann (462-year-old CS Student Awarded Degree Posthumously; Wife says He'll Attend Convocation).

Thanks also to Gino's Pizza, 97.7 or whatever we were listening to, and of course Marion and everyone at Graphics Services.

Betty-Jo Hill (Responsibility Addiction—
Case Identified at UW)

Mike Reade (Huge Scandal — Muppets Are Really
Talking For Themselves!)

Sewing Machines of Love

with apologies to Tears for Fears

High time we made some pants and altered the waist for the
common man And the Tip Top shops from coast to coast We
need bandanas and suspenders most Could you be, could you
be squeaky clean And show me how to stitch a seam As our
ads say, you're free to choose We'll lower your hems or re-heel
your shoes We'll Sears brand your reds and Singer the blues
(Chorus) Sewing machines of love Machines of love Sewing
machines (repeat twice)

I spy bewildered eyes As they look to our shelves for some kind
of divine Christmas sale Clothes go to waste 'Cause nobody
has any fashion taste Mrs. Business person with your 8-inch
heels Do you know how a European blazer feels We'll do your
alterations in a flash Co-ordinate your hat so it doesn't clash
We've got the styles! You've got the cash!

(Chorus) Sewing Machines The browns and the greens The
buttonholes and seams

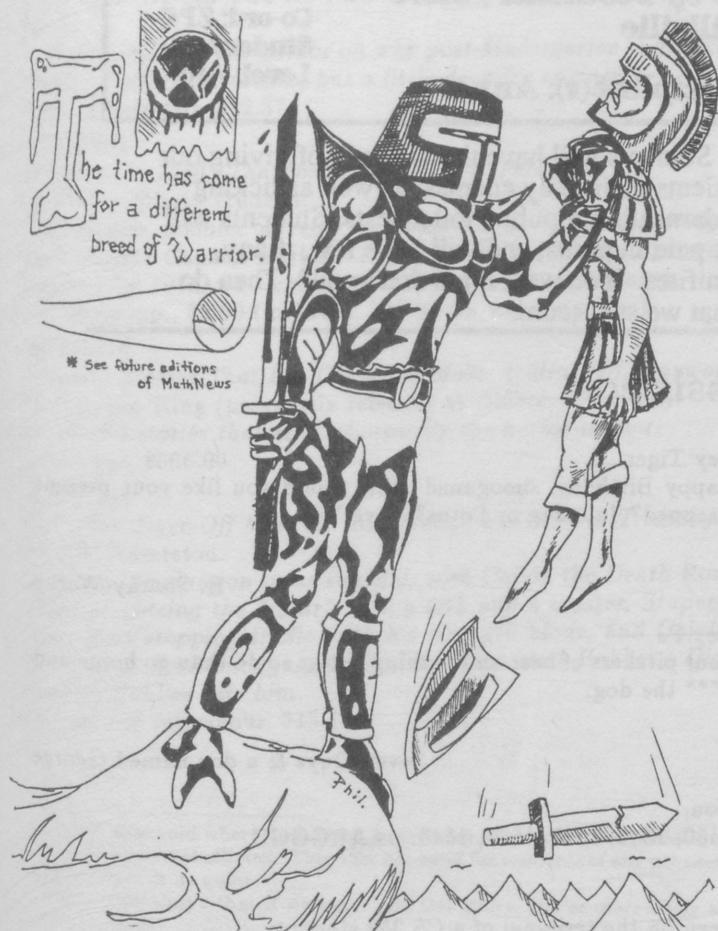
Feel the cloth If you're a worsted man - tell us about it Open
minds - think about it Open wallets - pay throughout it Wool
and tweed - never doubt it Everyone - overcrowd it!

(Chorus)

Time to stitch all your holes Stitch them in time And you'll
save nine

(Repeat 1st verse) (Chorus)

The Incredibly Bad mathNEWS Poet



Everyone's Doing It

This is how the students on campus are doing "it" ...

PHYSICISTS do it with Force. CHEMISTS do it in periods
(and in the lab). ENGINEERS do it using machines. MATHIES
do it using the natural log. COMPUTER SCIENTISTS do it
with bytes. ARTSIES do it with bullshit.

In our everyday world, these professionals do "it" ...

PROFESSORS do it for their students. POLITICIANS do
it without your consent. LAWYERS get paid too much to do
it. DOCTORS do it by examination first. ACTORS do it with
method.

And of course here in our faculty ...

STATS Majors probably do it. AM Majors do it implicitly.
TEACHING OPTION students do it with class. ACCOUNT-
ING Majors do it taxingly. PM Majors do it in theory. CS
Majors do it in trees. C&O Majors combine optimally. ACTSCI
Majors do it 'til they die.

Beaches and Mad Dr. Steel
and Others

In the Boardroom of Lottario

Advertisement Department

Boss: "Ok people, we need to get more people to buy tickets.
We need a new slogan. Brainstorm around the room."

Smithers: "Uhh, how about 'If you don't play you can't lose.'
No, that's not right."

Boss: "Boot to the head."

Smithers: "Arrgh."

Johnston: "If your numbers don't come up and you played, you
lose. No, that's worse isn't it?"

Boss: "Knee to the temple."

Johnston: "Aiyee"

Crawford: (nervous) "If you don't choose any numbers, you'll
never lose?"

Boss: "Dagger through the groin."

Crawford: "No, please! Aaahh! God!"

Peterson (sweating profusely): "Uh, um, maybe 'If you don't
buy a ticket every week, well lets just say we know where
you live.' "

Boss: "Better."

Smith: "I know! 'If you don't spend all your disposable income
on lottery tickets we'll boot you in the head and knee you
in the temple and shove a dagger through your groin.' "

Boss: "I like it! (give this man a raise)"

MacGyver

The "I'm Desperate" Late Ads

for students who will do anything for money and a cheap co-op credit
co-operative education programs

"Biff" (sole proprietor) #1998653587

**Assistant Pimp
Streets of Oakville**

**Co-ord: ZPQ
Studentx: 1
Level: Any**

Discipline(s): Any

Biff, a renowned leader in the fringe entertainment industry, requires a part-time helper for his, err, business. You will be involved in a job that offers the wonderful opportunity to work hands-on in the world's oldest profession, as well as earn a lotta cash. Duties include sales, customer service, drug pushing and looking out for cops. There are no requirements, although a knowledge of small semi-automatic weapons would be helpful.

The Registrar's Office of Satan #666

**Assistant for Unholy Demons
Depths of Utter Hell**

**Co-ord: ZPQ
Studentx: 1
Level: Any**

Discipline(s): Any

There's nothing to it. Just sign on the dotted line with blood. Trust us. Satan is a really nice guy, if you give him half a chance.

Public Service Commission Canada

#66788365 174 33

Ottawa

Discipline(s): Any

**Co-ord: ZPQ
Studentx: 1
Level: Any**

Generally, all you do is sit around collecting boogers, rolling them in small balls, and squishing them on your desk. You will take pride in the fact that you are contributing to this country's massive government debt, as well as helping in the cause of wasting taxpayers money. You get paid \$125.67 /hr.

Millville Old Age Home

h72656563989

**Co-op Bootlicker / Slave
Millville**

Discipline(s): Any

**Co-ord: ZPQ
Studentx: 1
Level: Any**

Students will have the pleasure of giving our patients their daily enemas, as well as licking underneath our public toilet seats. Students will get paid in pesos, and will have few, if any, benifites. You want a job don't you? Then do what we say, scum.

Ultra Classifieds

Dan,
You and Dan better stop meddling in Dan and I's secret affairs!
Mini-Mary will attack you. Be careful when you use the urinal!

Cathy

Dearest Duckie:
you dwrive me quackers!

Love, Me

Dan,
Happy belated big "20"!

Mini-Mary

My Little Turkey,
boy am i tired

Me, Again

Hey Tiger...

Happy Birthday, snoogums! How would you like your present wrapped? In a Jag or Lotus? Love Ya!

H. Snarky-Warky

Hey PJ

Four pitchers of beer and nothing better to do than go home and **** the dog.

Seven Guys & a dog named George

You,

1550, 1549, 1548, 1547, 1546...AARGGGH

Me

Seen on the terminal of a CS 354 student:
cat assign2.c > system.doc

mathNEWS Book Club

We put a buying power only slightly lower than that of the Canadian dollar to work for you.

"3 books, 3 bucks. No commitment. No quality. No guarantees. No assurance that we're a legitimate company. No kidding."

The above motto of the mathNEWS Book Club (mNBC) plainly sets out our aims: to make the most money possible off substandard books you normally wouldn't buy at a garage sale. With this in mind, we present you with our greatest offer to date.

Our Offer:

Order 97 books for a total of \$2,495.00 (plus applicable tax), and get 3 more for only \$3.00. **SAVE!! SAVE!!** For the first one hundred orders only, we present this amazing offer: Buy an additional 19 more books at club prices, and get the 20th absolutely **FREE!!** It's like getting 20 books for the price of 31!¹

Ordering is easy, and fun. Not. Just select the books you want from the following catalogue, then call our toll-free number with your order. It's so simple, even an engineer can do it! Just call us at 1-800-266-5266. That's 1-800-BOO-KCON. Our operators are standing by, begging for *your* call.² Order now!

Our Catalogue:

#3904126

Ull I Evur Neided Two No I Lurnd In Kyndergardn
by X.

A dissertation by the author on why post-kindergarten is unnecessary. Perfect for artsies, but a little deep for engineers. 5 pp. illustrated, \$12.37

#1492992

Megatrends 1980: The Post Office Of The Future
by Pierre Elliott Trudeau.

The former premier unveils his plans for an efficient, speedy, and reliable Canada Post by 1987. While the manuscript was finished by 1976, we received it in the mail just last month. 587 dusty pp., \$2.00 (in 1976), \$17.95 (in today's prices)

#1141114

Unscary Stories That I'm Going To Make A Mint Off, Anyway
by Stephen King (previously released as Different Seasons).

3 out of 4 stories that aren't horror by the horror master. 10394 pp., \$666.00

#3047193

Get This Tiger Off Me!, the final Calvin and Hobbes Treasury
by Bill Waterston.

Calvin's imagination turns suicidal, with Calvin the Death Row Prisoner getting the "chair" with a fork and a toaster, Stupendous Man stopping traffic with his strength alone, and Calvin the Circus Performer juggling knives, axes, and Hobbes. Disgusted, Hobbes eats him.

134 pp., 25 full colour, \$13.13

#9417831

The Prelude to the Edge of the Dawn of the Son of the Trilogy of Foundation
by Isaac Asimov.

After writing over 150 stories in 40 years, the author finally runs out of new ideas.

392 pp., \$14* $\sin(\pi/3 * 12!)$

#2347932

Exposed!, An Unauthorized Biography of Pee-Wee Herman
by Kitty Kelley.

Again responding to the titilation surrounding a recently fallen hero, the author releases a "biography" based entirely on supposition, rumour, suspicion, and everything she just "makes up" for plot's sake. In this one, the author accuses Paul Reubens (aka Pee-Wee Herman) of not only public indecency, but also of using the set of his Emmy-winning Pee-Wee's Playhouse as a brothel for celebrities like Frank Sinatra and Ronald Reagan, Jr. 400 pp., 65 lurid full-colour photographs, £14,31

#13! $\pi * \sin(\ln 3)$

Star Trek VIII—The Quest for the Fountain of Youth
by Gene Roddenberry.

After battling V'ger, defeating Khan, resurrecting both Spock and their own careers, saving the whales, finding a godlike being at the centre of the galaxy, making peace with the Klingons, breaking the Prime Directive innumerable times, and raking in millions in the process, the crew of the starship Enterprise finally give in to letters complaining of their obvious age, and set off to search the galaxy for the fountain of youth.

512 pp., 493 of which are the plot summary outlined above, 47 credits

#1011001

I'm Giving Up SETI And Turning To Taoism
by Carl Sagan.

The respected astronomer and leader of the Search for Extra-Terrestrial Intelligence (SETI) succumbs to the frustration of not finding anything and converts to Taoism. (1101001101) pp., translated into machine language, \$112.00

#7294321

Sex Sells
by Danielle Steele.

With several steamy TV movies and countless novels under her belt, the author explains her success (although the title alone is sufficient).

356 pp., \$5.95 (\$1,326.00 in Canada)

#0000666

Laundry
by Stephen King.

Responding to critics who claim he could publish his laundry list if he wanted to, the author does just that.

1112 pp. (including 1111 page introduction), \$XVI.LXXIV

Green Eggs And Hammer

¹This offer void where prohibited, prohibited where void, and prohibited and void where not allowed. This offer not valid for residents of any province with a vowel in its name.

²Research shows that if we make you feel guilty, you're more likely to buy our books.

DON'T WASTE OUR FUTURE
RECYCLE 

ANOTHER UNCOOL LARRY



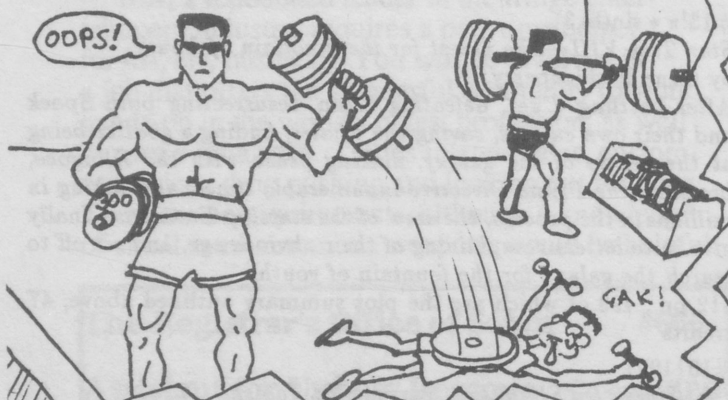
By Phil

P.S.-I had nothing to do with the cartoon in the previous issue. NOTHING !!

IN
THE PERILS
OF THE

PRAC.

THE WEIGHT ROOM



THE SQUASH COURTS



BASKETBALL



THE POOL



THE SHOWERS



KENDO



ARCHERY



THE END.

mathNEWSquiz # ??

(Last Squiz of the Term)

Greetings and salutations squizzers! I ain't got time today (and obviously I don't got none good English either), so I'll make it short. Here's the answers to the last squiz: 1- Terminator 2; 2- National Lampoon's Christmas Vacation; 3- Strange Brew; 4- City Slickers; 5- ... but I taught ladies plenty (The Fall Guy); 6- ... he reaches into his bag of tricks (Felix the Cat); 7- ... in living colour (In Living Colour); 8- ... thank you for being a friend (The Golden Girls); 9- The Day the Earth Stood Still (a true classic!); 10- War Games; 11- Battlestar Galactica (he was the robot 'daggit'); 12- The Moon is a Harsh Mistress (Robert Heinlein); 13- Eat It (for our Weird Al fan out there - You're welcome! You're welcome! You're welcome!); 14- It's the End of the World as We Know It (REM); 15- Don't Stand So Close To Me (The Police); 16- Yer So Bad (Tom Petty). With the Lyrics being scored with one point for the song and one for the artist, here's how our squizzers scored: Roman Empire, Andrew Palupa, Troi, and Kevin (3); Brave Brave Sir (3); Buddy Guy (5); the snark (7); Frosh... and So Appealing (8); Northern Exposures (10); Murr-Man (11); Fatlips (12); and our winner with an amazing runaway total of 18 is Chem Club and Friends! You guys can come claim your victory prize in the MathSoc office. Now, on to this week's questions.

*Movie Quotes**(You know how this works)*

1. "Oh my god, the quarterback is toast!"
2. "He chose... poorly."
3. "That's right, that's right, we bad."
4. "What are you doing eating pizza on my time?"
"Well, since *you're* here, and since *I'm* here, doesn't that make it *our* time? And what's wrong with a little pizza on our time?"

*The Muppets**(... and Sesame Street)*

1. What band was Animal the drummer for? (the *FULL* name)
2. Who was Kermit and Miss Piggy's waiter on their first date?
3. What is Grover's side job? (Note: Super Grover is *not* the answer)
4. What does Bert collect? (Note: it's *not* pigeons)

*Lyrics**(Points for Song and Artist)*

1. "All we do crumbles to the ground though we refuse to see."
2. "I tip my hat to the new constitution."
3. "Beauty I've always missed through these eyes before."
4. "She said I had it coming to me, but I wanted it that way."

Quantum Leap
(the TV show)

1. Whose musical career did Sam launch?
2. How many times has Sam 'Leaped' into a woman's body?
3. What song did Sam sing to his sister when he 'Leaped' into his own body?
4. What song does Al sing in his sleep? (Hint: Sam sang it in one episode)

Well, that's it squizzers, the last squiz of the term. This is your last chance to win a wonderful mathNEWSquiz prize! Get your answers in to the BLACK BOX by 6:30 Thursday, November 28th. Note the change of date, so don't be late! Until then...

Fluffy the Wonder Bunny
and the Medieval Gladiator

Top 10 Things Not to Say in an Interview

10. I: "Are you flexible on which work you do?"
S: "No! Give me development work or give me death!"
9. I: "Are you nervous?"
S: "Not as long as I've got 'ol Bessy at my side."
8. I: "What did you dislike most about your last job?"
S: "They made me **work!**"
7. S: "Yes, I would be willing to load tapes, sort printouts, and I am familiar with COBOL, BASIC, WordPerfect, and Lotus 1-2-3"
6. S: "No, money is not an important factor in my choice of job."
5. I: "Are you a team player?"
S: "Well let's just say that every person I have worked with has died mysteriously."
4. I: "Why are your marks so low."
S: "I can't be bothered with the silly courses we have to take. This is harder the high school."
3. I: "So brag about yourself."
S: "Well I know my marks are lousy, my previous work term evaluations suck, and I appear to be anti-social geek but I'm really just a misunderstood genius who can't be bothered to relate downwards to ordinary humans"
2. I: "How do you measure success?"
S: "Life is full of many small victories. If I can tie my shoelaces in the morning I consider myself fulfilled."
1. I: "So what do you think of IBM products."
S: "I be what?"

MacGyver
EvilCoop

CRIDXCIRD

Greetings!

These conventional clues are a little unconventional... knowing that a lot of conventional crossword clues are trivia-type clues... these conventional clues ARE trivial clues! And some of them are a little difficult.

Too bad.

The clues may comprise a brief description, some names of some of the people related to the movie, a quote from the film or whatever the hell else I felt like at the time.

Hopefully you'll have some fun...

And hopefully you'll find this challenging...

And hopefully you'll bla bla bla bla bla.

Across

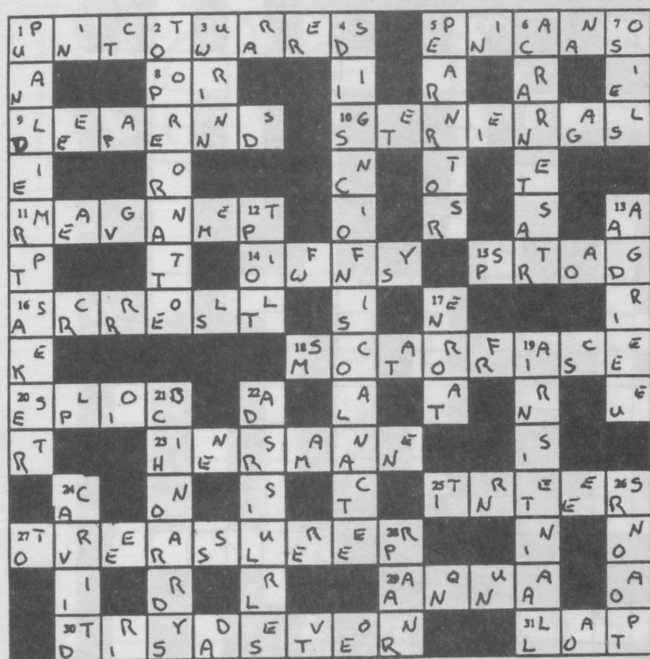
- 1 Grift Carlton for a rare bird, man!
- 6 Not the last picture show...
- 10 Huston's orphan
- 11 Coppola & Hackman
- 13 Pakula & Finney & Modine
- 14 Kubrick does Nabokov
- 15 A poor Stephen King adaptation
- 16 Mamet's first screenplay
- 20 Starring Barnard Hughes & Martin Sheen
- 22 The movie...not Sumner!
- 23 A nunnery is a place for nuns!
- 26 Pierce Brosnan an Irish rogue-hero?
- 27 A football-kicking mule film!
- 29 Christian does Jack
- 32 A bad Roman Polanski film
- 35 Altman & Newman
- 36 Classic Hitchcock
- 37 Shelley Duvall is perfect for her role...
- 38 "'Ere I am, J.H.!"
- 39 Buster Poindexter drives a cab!
- 40 What could possibly fit here?
- 46 "Smuck"
- 47 Ten days that shook the world
- 51 Tom and Robert...dancin' on the keyboard!
- 52 "Oh no...not again!"
- 53 Hitchcock film based on an original Steinbeck!
- 55 Hawks & Muni or DePalma & Pacino
- 57 Ten Directors and a Little Opera
- 58 Lowe & Tilly...but not in the Phantom costume ball
- 61 Marty & Bobby! (need I say more?)
- 63 A quality Stephen King adaptation (a rare creature indeed)
- 68 Huston's last
- 69 Gross & DeMornay & Hoover rolling in his grave
- 70 "Help me..."
- 72 If you got 40 Across, you've got this
- 75 Written by Ron & Lowell & Babaloo
- 77 Solid small film by Stilman
- 78 Clint & Sondra...again!
- 79 Marty & Bobby! (need I say more?)
- 80 McQueen, Hoffman and an island

Down

- 1 Classic Marx Brothers
- 2 Part of Levinson's Baltimore Trilogy
- 3 Also a Marvel comic...
- 4 Another part of Levinson's Baltimore Trilogy
- 5 Belushi & Gossett Jr.
- 7 Classic Visconti
- 8 Opie 'n' aliens!
- 9 Some Goldie Hawn thing
- 12 Willkommen
- 17 Carpenter & Russell
- 18 Justine! Julia! Terrible!
- 19 Swept the Oscars
- 21 What you should do if someone is showing this (besides destroy the print)
- 23 Annie Hall's directorial debut
- 24 Tippi the klepto
- 25 Kids in spaaaaace!!!
- 28 Mediocre Costner
- 30 Written by pre-chicken sandwich Bob & Jack
- 31 Cook & Moore & Faust
- 33 Classic D.W. Griffith film
- 34 Oveur, Unger, Dunn
- 35 Bikes 'n' Bacon 'n' Banks
- 41 Paulina's film debut
- 42 Gabriel Byrne buckling some swash
- 43 Liquid Terminator...NOT!
- 44 Pre-Nikita Luc Besson film
- 45 Mel Gibson really can act!
- 49 Brando's debut
- 50 Lemmon & Danson
- 54 "To all my friends..."
- 56 Best Picture...NOT!!!
- 59 Patinkin can, Eastwood can't, neither are in this film
- 60 A great baseball film
- 62 Will Graham & The Tooth Fairy
- 64 An Oliver Stone film NOT set in the 60's!
- 65 Reitman & Murray
- 66 Classic Erich Von Stroheim
- 67 A good Roman Polanski film
- 68 A good Emilio Estevez film
- 69 An ok film, a better novel, a cool plane
- 71 Good combat scenes here!
- 73 Look out! It's Sark!
- 74 She's neither Annie nor Hannah...
- 76 Preminger masterpiece... (perhaps Palmer?)

mathNEWS Colouring Contest!!

This week, the cover of mathNEWS is hiding something...a Pink Tie. Find it, colour it pink (of course), and put the cover, with whatever other colours you feel like in the black box before Nov. 29th, and you could win a mathNEWS T-shirt!! So start looking!!!



Down

- 1 Insane chocolate or hairy bowling ball
- 2 Head of a cow for a young girl with style
- 3 Bullets used to measure up to my sword
- 4 Is he a vendor of paradise
- 5 Not quite a prince, myself and a friend lead a school
- 7 I don't stop turning green up high
- 8 American shades for the solo cur
- 9 Proper behaviour for a pro to collaborate with foreigners
- 12 Taxi mixed rate for the cur
- 17 French tea head and the tail in if is a crook
- 18 It is a fact son, I did it for appeasement
- 19 The path tread upon is a life threatening place
- 21 Japanese fled from chaos
- 23 Mixed foreign saline solutions
- 24 The real way seems to go on and on
- 25 In Dover, board a ship but land in water
- 28 Rest, rather a supporting beam
- 30 Had had an e to lead
- 31 To live surprised and bewildered
- 33 bug's drink sounds like a star
- 34 Insane theatre for refuge
- 35 Slick quiver carries metallic liquid
- 41 This is recursive
- 42 Shoe's family source has a fruit for a face
- 43 Beside within a donkey pit
- 44 Path down under is a train
- 45 Such gall! I politely decline that war mate
- 49 The menaces lost male cards
- 50 An artist lost its tail to a father
- 54 Lawyers flee from tavern regular
- 56 A distraught Swede wears mourning clothes
- 59 Thick thread a mixed pore
- 60 Tom is fit so he isn't one of the outcasts

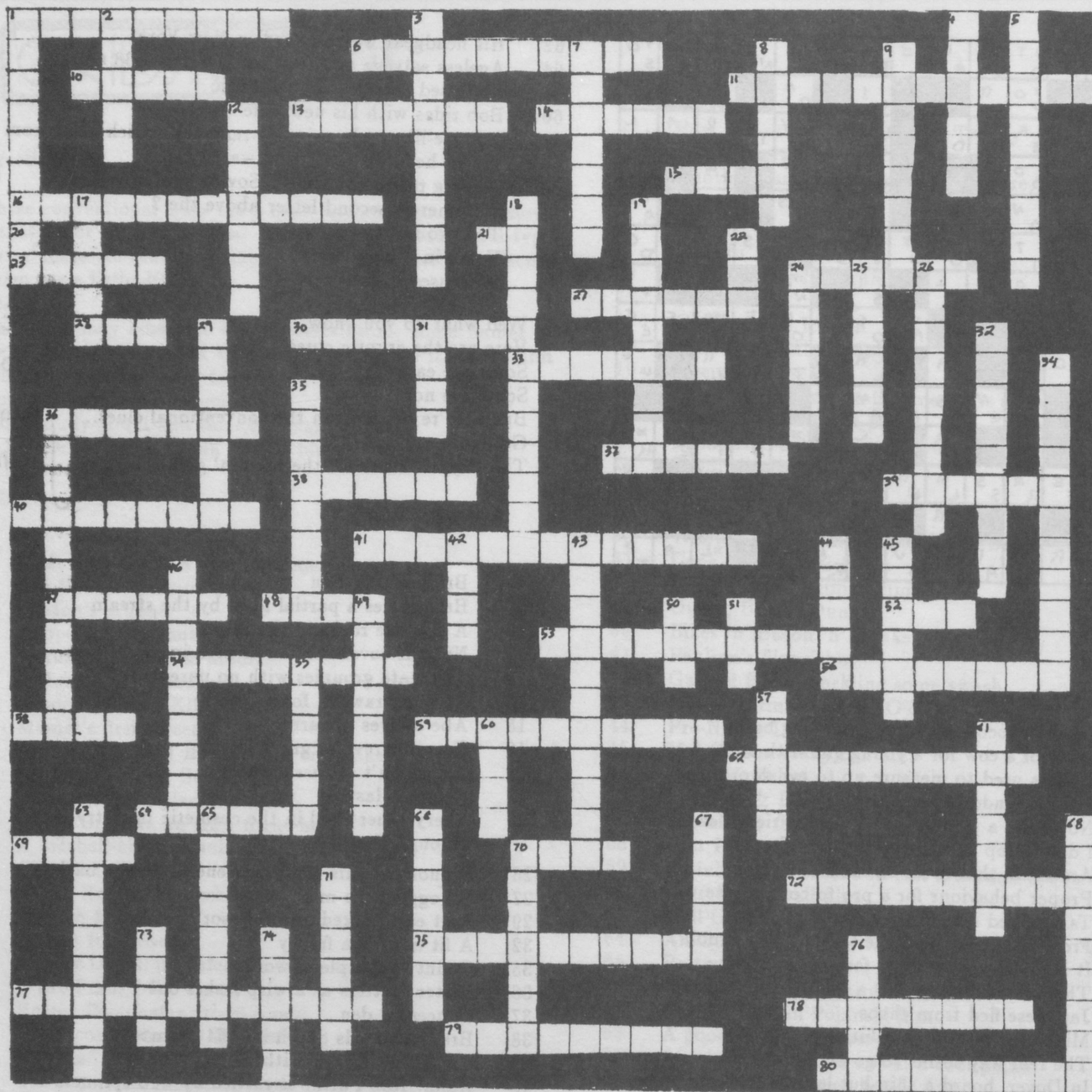
- 62 His headgear was bronzed in New York
- 64 Ageless salvage and lost love's tail in <38 across>
- 65 Confused trim age of old music
- 66 Bob rides with his new wife
- 67 Vulture-like male swindler removes ostrich head from his door
- 68 Wager headless trout and watch over
- 69 Blazing rascal could be a Soviet fighter
- 71 Superhero's second letter above the 2
- 73 The pro in trace is on
- 74 Name in my pal, Ice-T
- 76 Who uses the shelter

Well what do you know.
 Here are the cryptic clues.
 Some are easy
 Some are not.
 But they're easier than the conventional clues.
 Go figure.
 The Cryptic clues for the bitchin' grid

HEY
 YOU!!
 READ
 THIS!!

Across

- 1 Brilliant Big Ben
- 6 Hack levies a partial idiot by the stream
- 10 A cow ate rocks in the rain
- 11 Nations cover the Earth with informal talk
- 13 Alternate groupies with no parents
- 14 Random raw hit for a spectre
- 15 Abe arrives to carry
- 16 Tangible reverse greek letter
- 20 An ad isn't a Russian no
- 22 A bite is lasting
- 23 Every other Paul in the cosmetic industry walk through Bradley's Mists
- 26 Do not pat this confused general on the back
- 27 Bif oggled the mist
- 29 Rest each mixed up professor
- 32 A fit narc in a frenzy
- 35 Count this tuple of words
- 36 Water scatters as a wisp lashes out
- 37 Concealed den
- 38 Bra backwards queen in <64 down>
- 39 Sensors look near without a last of us
- 40 Aahh! Rob Pacino is rattled by web spinners
- 46 Cool comic book hero
- 47 Fired scabs are communists
- 51 A knob ignites huge fires
- 52 Region and spheres is a race of people
- 53 Boil fate to mess up a rescue
- 55 Capone's car faces north
- 57 How far I am from the sound of music
- 58 A minor treat assigned killer
- 61 Messed stile promo in the city
- 63 Scrooge plus tinless tiny in distress
- 68 The idea did not stay alive
- 69 Agents fed sheep
- 70 Rod removed from <54 down> is an insect
- 72 You are in a revolt with a charged particle
- 75 Hotel repeatedly gap is not in outerspace
- 77 Not a new ice cream, but a city slick mother
- 78 My glove makes me pale. Allow me leave.
- 79 Larry's backward city state
- 80 Soul fires give me gas



gridCOMMENTS

The better way to go...

Well, here we are again with still more gridding and playing and the like. Last week's grid appeared to stump many of you faithful readers, with only 1 cryptic and 3 conventional offerings. This week's looks like a doozy, but don't come to me crying, because I'm in the dark as you on this one.

The only cryptic solution came from Brave, Brave, Sir. As for the conventional, the only correct solution came from Murr-man, and the two incorrect ones from Chem Club and Friends and the Roman Empire, Andrew, Palupa, Troi & Kevin.

Comments and Favourite Nuclear Reactor: (Three weeks to go!, selur yrtsimehc, beet the postal rush write to Santa...NOW!!, That's Easy); (Prof. Sharma, Martin Sheen, Orchid, Chernobyl)

The winners can pick up their prizes in the MathSOC office (MC3038).

Name: _____

Favourite Insult: _____

Comments: _____