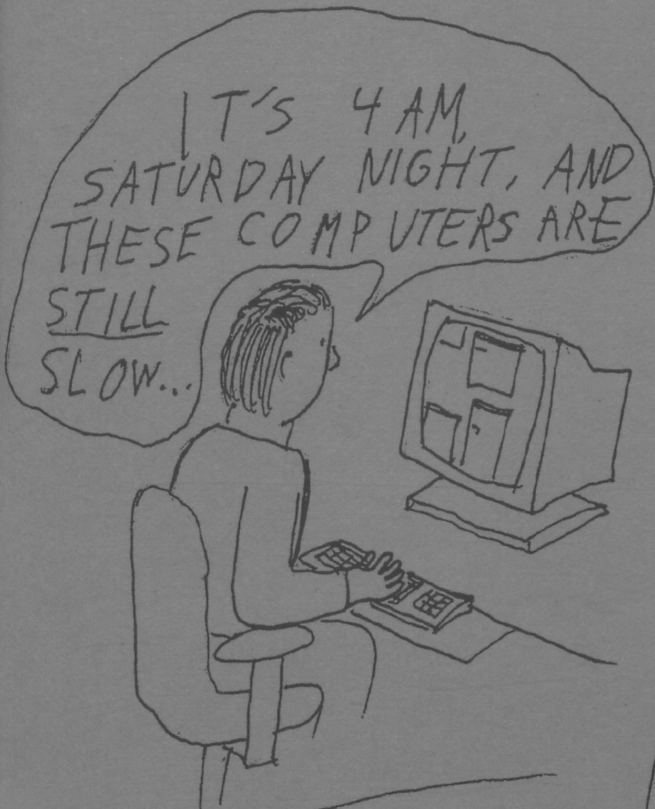


math NEWS

Volume 70, Issue 5

Friday, March 15, 1996



THAT DOES
IT, I'M GETTING
TO THE BOTTOM
OF THIS!

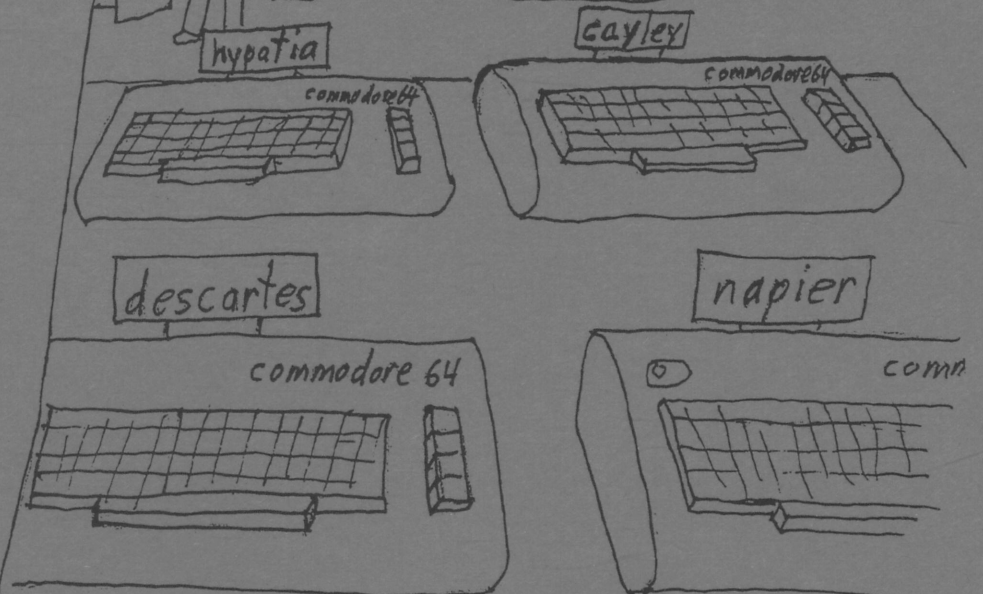


JUST AS I
SUSPECTED...



UNDERGRAD
COMPUTERS.

AUTHORIZED
PERSONNEL
ONLY



Roe

HAPPY ST. PATRICK'S DAY!! ☺

lookAHEAD

mathNEWS	
March 25	Issue #6 production night 6:30pm, MathSoc (MC 3038)
March 29	Issue #6 whacks the stands
Math Faculty	
March 18	1B Info Night
March 18-22	F96/W97 Pre-Registration
March 29	Lectures End
March 29	Ralph Stanton to address Undergrads
MathSoc	
March 23	Magic Tournament
March 23	The Game
March 25	Euchre Tournament
March 28	Bridge Tournament
April 3	Toy Story at the Cinesphere
MGC	
March 16	Math Grad Ball
Miscellaneous	
March 16-17	WatSFic AD&D-style tournament
March 30	MC Building launched into orbit
March 31	MC Building impacts the earth (location unknown)
CS Assignments Watch That Load!	
March 18	CS 337 Project 4 due 1:30pm
March 26	CS 454/654 A3
March 27	CS 337 Project 5 due 1:30pm
March 29	CS 241 Project 5 due 8:30am Load forecast to be high
March 29	CS 354 Project 4 due 5:00pm
March 29	CS 488 Project 5c due 9:30am
CSC	
March 23	Tetris Robot Programming Contest

Attention ALL Grads of '97


MathSoc council has given forth the name of Laura Williams as MGC Chair for W96/F97. There will be a ratification vote held on Tuesday, March 19th and Wednesday, March 20th, held in the MathSoc office. All members of the 1997 graduating class may vote.

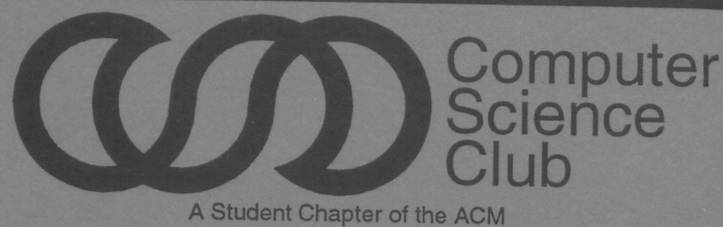
Get out and vote!!

Chris Buchanan

ISSN 0705-0410

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Full-Time Executive of the Anti- : Brian "Calculus Cowboy" Fox, Mike "Hammer" Hammond, Mala "Crakko" Krishnan



CSC Flash

Hello CSC people!

In this the penultimate issue of mathNEWS, I'm sure you are waiting breathlessly to hear about the doings of the CSC. The CSC plans to end the term in the same flurry of activity that it started the term with.

Past Events

We had our second CGL Tour of the term on March 6. Dominic Duggan gave a talk on Type Polymorphisms in OOP on March 6. Basic PC Troubleshooting by Chris Rovers was on March 11, and there was a talk on Pure Random Strategies for Tetris Robots on March 14 by Tim Prime.

Upcoming Events

We have decided to bring back the popular Tetris AI programming contest! The contest is scheduled for March 23. This is your opportunity to try out the algorithms that Tim Prime was talking about on March 14. For more information, refer to the Tetris Contest Rules and Information document, which can be found by pointing your web browser to: <http://www.undergrad.math.uwaterloo.ca/~jjgignac/www/tetris/index.html> on calum or [jjgignac/index.html](http://www.undergrad.math.uwaterloo.ca/~jjgignac/index.html) on the undergrad.math system. Then write e-mail to jjgignac@cscclub.uwaterloo.ca if you have more questions.

Progress Report

It would seem that we still do not have my special slave's newsgroup, alt.fan.nikita-borisov. I am starting to get angry that the newsgroup has not found its way to Waterloo yet. I will soon start to exterminate those responsible for this delay — including those who have not yet cross-posted. Since you do not seem to have the ability to reason this out on your own, I will suggest some ideas for you. Post to newsgroups such as rec.arts.drwho, rec.arts.fine, and rec.arts.comics, (and others), and talk about how much Nikita likes/dislikes the particular arts medium. Don't forget to cross-post to alt.fan.nikita-borisov. If the newsgroup has not been accepted before the end of the term, my patience will have run out and I will unleash my anger on all those responsible.

My CSC continues to grow, 611 members at time of writing. My plan to take over the world is nearing fruition. And remember — only cool people join the CSC.

[Out of curiosity, oh Calum T. Dalek, who no longer ~~is~~ the Flash or puts in the CSC Logo at the top, how many of the 611 members are members because they want to be part of the club you call CSC and how many are members just 'cause the CSC forces people to get a membership to attend some of their talks and/or get a calum account—Ed]

Calum T. Dalek

Mathematics Students

Consider adding the **Print Journalism Option** to your program.

By electing the requisite courses you can complete the degree requirements of your chosen field of study and the requirements for the diploma.

Professional journalists require an appreciation for the written word and the technical skills to create material suitable for the mass media. Of equal importance, they require a strong understanding of the world, its peoples, institutions, technologies, processes, and problems. These two types of knowledge can be obtained by enrolling in the concurrent Bachelor's degree/Diploma in Journalism, offered by the University of Waterloo and Conestoga College of Applied Arts and Technology. By fulfilling the requirements of both programs, students gain broad knowledge and depth in a major subject area (at the General or Honours level) as well as the technical skills required for careers in print journalism.

The joint program has been developed to avoid duplication of content and to permit completion of the Bachelor's degree and the Diploma in minimum time.

- The three year General Non-Major or Major plus 1 year at Conestoga College, after completion of the 25 required term courses.
- The four year Honours or General Non-major or Major plus 1 year at Conestoga College, this year normally to be taken between the 3B and 4A terms, after completion of 25 of the required term courses, including the 5 basic courses required for the option.

Application for admission to the Journalism Option can be made during the 1B term at the earliest, and normally, not later than the 2B term; decisions regarding admission are normally made in May (or following completion of the 1B or 2B term) by the Option Academic Board, composed of members of the University and Conestoga College and including the Director of the Option. The Option has limited enrollment, with intake numbers as determined by the board. Application at other times will be considered. Application forms are available in the Registrar's Office.

Details of the program are contained in a pamphlet available from the Office of the Associate Dean, Undergraduate Affairs, or your departmental advisors.

For further information contact the Director of Print Journalism.

D.E. Irish

Department of Chemistry

ESC-139, ext. 2500

e-mail: dirish@chemistry.watstar.uwaterloo.ca

Reasons to Pledge to The Pink Tie Pledge

#13: *Less calories than Pizza and Beer*

Do Not Miss!!!

Founder of UW Math Faculty and the Pink Tie returns to UW

Many, if not most, undergrads here in Math will not recognize the name Ralph Stanton. But if you walk through the halls of the fifth and sixth floors of MC and say his name you will undoubtedly hear many fond memories of his outstanding character. Ralph Stanton is the founder of the Mathematics Faculty of UW. It was Ralph's odd collection of neck garments that has left us with our unique faculty symbol, the Pink Tie.

Prof. Stanton has graciously accepted the invitation to return to Waterloo solely to deliver a talk to the undergrad community and the faculty of Math. The talk will be on March 29th at 2:30pm in MC 2066. I've been told by everyone that he knows that the talk will certainly be humorous.

This is a once in a lifetime occurrence. I recommend that everyone attend this talk to, for one, have an enjoyable time, and two, learn about how the faculty almost did not happen. It should last about an hour, including the opportunity for you to ask questions.

Incentive to all '96 Grads

The faculty in conjunction with the MGC are hosting a Wine & Cheese with Ralph Stanton, faculty and '96 Grads. It will immediately follow the talk. The location will be announced at the end of Prof. Stanton's talk.

Do Not Miss!!!

Marco Koechli Class of '96 (I hope)



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THIN CRUST

TWO MEDIUM CRUNCHY THIN CRUST PIZZAS WITH CHEESE & 3 TOPPINGS OF YOUR CHOICE

\$14⁹⁹ + tax ADD AN ORDER OF TWISTY BREAD® FOR ONLY \$1⁹⁹ + TAX

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The Pink Tie Page



The Pink Tie Pledge

Will You Accept the Challenge?

Three challenges have recently been made.

- Mike "Hammer" Hammond will pledge \$7.50 over three years for each pledge made, regardless of amount. (Even if you don't want to pledge more than \$303 over three years, any pledge amount will nail Hammer!)
- Dave "Jethro McGillivray" Vernest will pledge \$3.00 over three years for each bottle of Jolt Cola purchased from the C&D (Right Angle Café) during the last two weeks of school. Aren't Graphics and Distributed Systems due soon, Dave?
- Mala "Crakko" Krishnan is going to (I can't believe this) pledge \$10 over three years for each profQUOTES book sold between now and the end of term. The profQUOTES books are only \$2 each and are a great memory of U(W) Math. They are available from the mathNEWS office.

Let's make them pay!

Postcards From The Pledge

The Challenge

Hey, you!

Yeah, you! Are you graduating? Are you even *thinking* about graduating?

I have a challenge for you: make a pledge to the Pink Tie Pledge.

Why? Two reasons:

1. The money will be used to improve things for future mathies.
2. You can make me suffer.

Yeah, that's right. Make me suffer. Cause me financial hardship. Drain my funds. Because for every pledge of *any* amount to the Pink Tie Pledge between today and Friday, March 29, 1996, I will pledge \$7.50 over three years.

Don't like an article I've written? Hate me for bashing the CSC? Don't like what I wear, or what I look like? Then you've got problems. But you can also wreak revenge! Simply fill out that Pink Tie Pledge card that you received in the mail. Don't have it? Then you can pick one up from the MathSoc office or the MGC office!

Go ahead. Make me pay.

Mike "Hammer" Hammond

Give the Pink Tie Pledge a Jolt

Jolt:

It's not just for breakfast anymore

As you know from Marco's numerous articles, the Pink Tie Pledge is a gift from graduating students to future mathies. To this end, I am issuing the following challenge:

For the next two weeks, for every bottle of Jolt purchased for personal consumption at the Right Angle Café, I will donate \$3 to the Pink Tie Pledge.

Look at it this way. Say you're getting ready for an all-nighter, or maybe you're just a bit groggy for that 8:30 AM class. Simply drop into the Right Angle Café, buy a snappy refreshing *Jolt*, and not only will you benefit from its caffeinous effects, but you'll also have brought the Pledge \$3 closer to its goal of \$30,000. And it will only have cost you a buck! What better deal is there than that!?

Special message to Graphic Phil! We all know you'll be consuming a lot of *Jolt* in the next two weeks to help with that monstrous workload in Computer Graphics! I expect at least 20 bottles to come from you! :+)

Why am I doing this, you may ask? To make a better life for the mathies that will succeed me, and to repay the Jolt Company for sustaining me through countless CS all-nighters. (And except for one nasty incident involving four Jolts the night before a PHIL 140 midterm, the Grand Beverage has never let me down!)

So go on, the challenge is to see how high **you** can push my pledge. My purse strings are held firmly in your hands!

Dave "Over Caffeinated and Over Calibrated" Vernest

Reasons to Pledge to The Pink Tie Pledge

#43: MEF has \$10,000 to fund academics this term alone!

The Pink Tie Pledge

\$15,520 and More

So far the Pink Tie Pledge has \$15,520 in it. We've beaten the graduating classes of '90, '91, '92 and '94. I'm hoping that by Friday (today) we'll be over \$20,000. For all current stats, check the Pink Tie Pledge Thermometer, 'Thermo-Tie' or check out the web site at <http://www.csclub.uwaterloo.ca/~mkoechli/ptp/ptp.html> and pledge online!

Reorganisation in the Faculty of Mathematics

Some reorganisation will take place in the Faculty this summer. The Dean recently announced several new appointments and initiatives, to address the loss through the Special Early Retirement Program of three faculty members in the Dean's Office, and to implement some new directions recommended in the Faculty's long-range plan.

Three faculty members associated with the Dean's Office will take early retirement as of July 1:

- Professor Ron Dunkley, Associate Dean, Faculty Programs: In addition to his teaching duties, Professor Dunkley has overseen several academic programs in the Faculty, including the Business and Accountancy Programs, the Interdepartmental program and the General program. He has also directed the Faculty's high school liaison program, and has chaired the Faculty's admissions and scholarship committees, in addition to serving as Director of the Canadian Mathematics Competition.
- Professor Peter Brillinger has been an instructor in core and service courses, and been involved in administration and advising for the Business and Accountancy programs.
- Professor Larry Davidson has taught core and service courses, and participated in the liaison program and the Canadian Mathematics Competition.

Appointments effective July 1, 1996:

Professor Ron Scoins will become Associate Dean, External Relations. He will assume responsibility for the Faculty's recruitment and admission of undergraduate students (including the high school liaison program, admissions and scholarships), and continue as Director of the Teaching Option.

Professor Paul Schellenberg, Associate Dean, Undergraduate Studies, will administer the Interdepartmental and General programs.

The Business, Accountancy and Operations Research programs will be administered by a committee of the Chairs of the Departments of Computer Science, Combinatorics and Optimisation and Statistics and Actuarial Science. Serving as first chair of the committee will be Professor Ian Goulden of Combinatorics and Optimisation. The intent is to provide more links for students with the departments in the Faculty that provide many of the upper-year courses for these programs, and to facilitate the allocation of resources to support of these important programs.

Professor Adrian Lewis of the Department of Combinatorics and Optimisation has been appointed to the new position of Director of First Year Studies. The Faculty's long-range plan recognised the wide variation in preparation of students entering the Faculty, and the difficulties students may encounter as a result. Professor Lewis will carry full responsibility for the development and coordination of programs in the first year, including advising, the development of transitional programs, and first-year tutorial services. He will report to the Associate Dean, Undergraduate Studies.

In retirement, Professor Dunkley will continue his involvement with the Faculty as Director of the new Centre for Education in Mathematics and Computing. The Centre will operate the Canadian Mathematics Competition, the new Canadian Computing Competition, and increase the Faculty's outreach activities to elementary and secondary schools in the province.

The Dean is currently setting up a new Committee on Teaching and Learning. This too was recommended in the Faculty's long-range plan. One of its roles will be to encourage the investigation and evaluation of different approaches to instruction and learning, and one of its first tasks will be a review of the Faculty core curriculum. Student members will be appointed to this committee.

Shirley Thomson (sjthomso@jeeves.uwaterloo.ca)
Executive Assistant, Faculty of Mathematics

socTOC

Hey there boys and girls! Hope you are doing well. Midterms are over and you get to prepare for finals. YAH! I'll make this short, since I know you are only reading this as a break from all of the studying that you have been doing.

March is card tourney month (well, in the view of Social events). We have got a Magic Tournament on the 23rd in the Comfy Lounge, a Bridge Tourney in SLC on the 25th and Euchre in Comfy on the 28th.

Tickets for the Toy Story trip are on sale in the MathSoc Office. They are \$10. Remember, this includes that cool bus ride (where we can sing "The Wheels on the bus go...") Sorry about that, just reminiscing about the good ol' days.

Remember these dates. That's all folks.

May Szeto
Social Director Extraordinaire

Sarah Spews

Absolutely Nothing

Have three midterms tomorrow. (Tues.) Piss off.

Sarah "Spewed my guts out already. Nothing left!" Kamal

Magic Tournament

Hey all you card weenies! The amazing MathSoc social committee is bringing you a fantastically exciting Magic: the GatheringTM tournament. For only \$2, you can have a chance at winning an *Underworld Dreams*, a *Shivan Dragon*, a *Jester's Mask*, or an *Enduring Renewal*. There will also be a bunch of boosters for each of the top four winners. Participation is limited to 24 people, so sign up quick in MathSoc.

Christina

Now Playing

I've been on a real movie blitz the past couple of weeks. There wasn't anything too great or too bad. Here are my reviews.

Up Close And Personal

This movie stars Robert Redford and Michelle Pfeiffer as a news director and a newcomer to broadcasting. Of course they also get involved romantically, and the conflict between their work and personal relationships becomes the main focus of the film. The writing and acting was pretty good, and the insight into broadcasting would be of interest to most people. There were many parts of it that were reminiscent of *Broadcast News* and *To Die For*, so if you've already seen these films then you might just want to skip *Up Close And Personal*. Otherwise, it's well worth your time and money. ***

Down Periscope

Kelsey Grammer (*Frasier*) makes the jump from television to the big screen in this comedy about a submarine captain who doesn't always play by the rules. With a sloppy crew and a beat up diesel sub left over from World War II, Lt. Cmdr. Tom Dodge (Grammer) must stage an attack on the United States to test the nation's defences. Included in the crew is Emily, the Navy's first female submarine officer, played by Lauren Holly (*Dumb and Dumber*). This slapstick show had some very funny moments, but overall it just seemed to be lacking something. *** $\frac{1}{2}$

The Birdcage

A gay couple's son wants to marry the daughter of a Republican senator. That's the premise of *The Birdcage*, starring Robin Williams, Nathan Lane, Gene Hackman, and Dianne Wiest. It just so happens that the couple (Williams and Lane) own a drag club and are the director and star of the show. This makes things a bit uncomfortable for the senator (Hackman) who fears losing even more of his conservative support going into the presidential election after a close colleague died while with a prostitute. Watching Lane 'play it straight' and Hackman trying to figure out what's going on will keep you watching and laughing all the way through this one. ***

If Lucy Fell

Sarah Jessica Parker, Eric Schaeffer, and Elle Macpherson star in this romantic comedy. Joe (Schaeffer), a painter, and Lucy (Parker), a psychiatrist, realize that their lives are passing by and they still haven't found that special someone. Joe has been fantasizing about Jane (Macpherson) for five years and finally starts dating her, only to find out that she isn't exactly the dream girl he expected. Lucy also finds someone, but things don't work out for her either. In the end... well, you'll have to watch the movie to find out. The one thing that this movie does provide is a commentary on the decay of society because of the way people go about their relationships. *** $\frac{1}{2}$

Warren "The Movie Milkman" Hagey

profQUOTES

"...so let's try to solve some examples from the book instead of the real world."

Chen, STAT 333

"I'm sure you are all enjoying assignment 4. If you haven't already started enjoying assignment 4, I strongly urge you to start enjoying it soon."

Taylor, CS 342

"I was going to have the midterm marked for Monday except that my wife is leaving me...for the weekend."

Willard, MATH 138

(Hears a little kid singing 'la-la-la' in the halls) "Gee, and it isn't even end-of-term yet."

Burkowski, CS 444

"My standards are pretty low."

Willard, PM 330

"Yeah...the payback method is kinda like safe sex."

Schein, BUS 121

(While handing out midterm) "...and please don't cheat, 'cause if I catch you, it means enormous bureaucracy. If you do feel the need to cheat, at least sit beside someone who's smarter than you. In some cases, that shouldn't be too difficult."

Stortz, HIST 254J

"Students always ask me how I prefer to have essays handed in — in a duotang? With a plastic cover? Just stapled? I've found that the best essays I've received have been wrapped around a bottle of Canadian Club."

Stortz, HIST 254J

"Basically, you keep searching the tree until you either find what you're looking for or you fall out of the tree."

Munro, CS 134

"Monogamy is not a crime. It may be a sin...No...don't tell my wife I said that."

Johnston, PSCI 292

(In reference to his UW account) "...They are not giving me the account to fool around on the Internet, yet that's what I do."

Ragde, CS 492

"So, perhaps Algebra does have a use after all..."

Collins, MATH 237

"Having trouble staying awake, eh? You should come up to my office and get some of Dr. Jeff's Happy Pills. I have two words for you — NO DOZE!!"

Shallit, CS 360

"Would you rather be at the dentist's, or in this class?"

Siegel, AM/PM 331

I'll Have The Special

Spring fresh with no static cling

Around this time of year, I get the feeling the weather is playing games with me. It starts off frigid in the morning, but you never know if the temperature will stay frigid or if it'll warm up (sometimes quite nice) as the day goes on. You don't care? Ya, you're right. I'm just bitching about little things again. Oh wait, that's the theme for my entire column!...

- I would like to extend my congratulations to the Warriors hockey team for their success this season. And I would also like to congratulate the Warriors band for actually showing up to at least ONE game this season. Good job!
- To those who watched the games, did anyone else get the impression that TSN was a little anti-Waterloo? In the Calgary game, it seemed the big story was not the fact that Waterloo dominated most of the game, but the HUGE shift in momentum for Calgary in the last half of the second period. And in the final, Paul Romanuk continually talked about how Acadia were "*x* minutes away from a national title" (even in the second period with plenty of time left). Uh, game's not over Paul. Waterloo can still win it. But I guess Waterloo winning it all would mean bad ratings?
- Well, I'm starting to get sick and tired of all those union ads in the newspaper, on radio and on TV. In the case of the public servants, I didn't care what they had to say before the strike, so why should I care now?
- Every week, I see the jackpots are huge for the Lotto Super 7... which is an indication to me that no one ever wins it. This brings to mind an interesting query: Does anyone actually play it?
- I said it last issue and I'll say it again... What's up with the Leafs? They fire Burnsie, cancel the new hi-tech scoreclock and are thinking about moving out of the Gardens even though they have no new arena to move into. Next thing you know, they'll ask Darryl Sittler to lace up the skates to help save the team.
- Do you think you (or any ordinary Canadian) could deal with a 24-hour horse-racing channel?
- I miss the crosswalk signs. You know why I miss them? Because when we had them, I knew where everyone would cross the street. Thus, I could adjust my speed accordingly from fast to even faster. Now it's just a jaywalker's festival. How can anyone drive in these conditions?

Well, that'll do it for another issue. Hopefully by the next issue, the weather will have stopped playing games with me. I know it's asking a little too much, but it would be nice. Anyways, till next time...

Brian "Calculus Cowboy" Fox

The Game

is coming... Are you ready?

Post-Teen Angst: Ach, lieber! Raccoons!

Hallucinations

—or—

Nailing Down What This Column Has Been From The Start

"Hard over, helm!" "Uhm, Captain? The port stabilizer has turned into a duck." "I'll have none of that on *my* starship. Pop it into a torpedo tube and fire it at the Klingons. Follow it up with a white wine glaze and garnish." "Aye, aye, sir."

OooOOOoooh. You thought that this was going to be *about* hallucinations, not filled with them. Sorry, my mistake. Well. I don't care *how* you inspire your hallucinations. This is not the place to condone or condemn anything.

"Except maybe the author..." sneers Average Reader.

Ahem. The point is, have fun with your hallucinations. If you see purple dogs erasing the blackboards before you can take notes, then *go* with it. Send the mutant who lives in your pencil to take care of them and continue. Or, break out some purple Milk-Bones and play purple fetch until your non-purple classmates shush you. In purple.

Oh. Wait a second while I put the letters back on the keyboard. I yhink I goy iy righy. Aaaaah, yhe ever-skepyical Average Reader needs proof of hallucinayort enjotmeny. Well.

Case in poiny. I would *like* for the leyyers on my ketboard yo fall off, and yhen fall inyo some ywisyed dtslexic-esque ramble. Problem is, yhis is yoo hard. Ley's gey yhose lasy ywo swiyched. Better? Good.

When people aren't looking, I like to turn invisible. Of course, when *you* are invisible, you can see the *other* invisible things. Lots of car keys, pens, change and single socks. And trains. The trains are the worst. Never, ever, *ever* go to the east of the campus if you're invisible.

The socks are quite fun, though. Find some buttons and thread and you can play with your invisible sock puppets. Until someone turns around to look at you. Then —*bing!*— you're back. It takes some practice to pop back right when the person turns around, so don't be discouraged if they flee screaming. Oooh. Key point. Make sure you make your clothes invisible, too.

Another fun game is seeing how many aliens and squirrels attend your classes with you. Compare with your friends! If you don't have any, compare with your imaginary friends! Double points if an alien or a squirrel takes over the lecture halfway through.

Well, you get the point. Let your mind be free. Who says you need to be asleep to enjoy the randomness of your subconscious? Who cares what your psychiatrist says? Mine? Oh. Right.

Ian "Son of God Complex" Milligan

Reasons to Pledge to The Pink Tie Pledge

#47: *You can't go to jail for pledging to the Pink Tie, John*

Interview With An Idiot!

Boss: "So, you want to work for Arrow Gance Corporation, do you?"

Loser: "Uh, yeah, uh, I do, if you don't mind."

Boss: "Give me one good reason why I should hire you!"

Loser: "Uh, well, uh, as you can see from my resume, I know C, uh, sort of..."

Boss: "OK, so you know C, eh?? Well, we'll just 'C' about that!! Ha Ha. Pay attention, son. If you want to work at this company, you gotta know when to laugh."

Boss (aside): "Nice kid, just a few links short of a list, if you catch my drift."

Boss: "I say uh, you say you know C eh?? Well, then, you won't mind doing this little test we've got for ya, now would ya?"

Loser: "Uh, no, uh, I guess not."

Boss: "What was that, I say, what did you call me?"

Loser: "I said I guess not, SIR!"

Boss: "That's better, son. Now, here is what I want you to do. Design, code and test a distributed client/server application that searches the World, I say, World Wide Web for all known Foghorn Leghorn references. I want a GUI on that as well, ya hear me? Not just any GUI, I want a GUI that would make your mother proud. Ya hear me son?"

Loser: "I guess so."

Boss: "Hey, put some more oomph into it. The way you sound it's like you'd rather be watching *Baywatch* or something."

Boss (aside): "Although, I must admit, I sometimes watch that show a bit myself. Uhhh, good plot!!"

Boss: "OK, son, get to it, you've got ten minutes."

Loser: "What?? Ten minutes, you can't possibly expect me to do all that in ten minutes?? Why, just the GUI alone will take at least fifteen minutes to code! And that's without all your employees playing 'Catch the Roadrunner'. You know how much that game adds to the load? Geez, three dimensional coyotes and everything. I'll never get this done."

Boss: "Now look what you've done, son! You went and wasted time. Any of this getting through to you, son? You only got 5 minutes left."

Loser: "Hey, now wait a minute. I know what's going on here. I got some pride. Why the hell would I want to work for a maniac like you, anyway? It'd just drive me clucky."

Boss: "I'm sorry you feel that way."

Loser: "No. CLUCKY!! THAT'S A JOKE, SON!! DON'T YA GET IT? PAY ATTENTION!!"

And with that, the Loser walked out of the megalomaniac's office, and decided that from now on, he wouldn't let Co-op Services get him any more interviews.

Dave "No bitterness here... and no, I'm not going to say the co-op flew the coop!" Vernest

Reasons to Pledge to The Pink Tie Pledge

#37: You can make Marco pay!

Subscriptions!

You'll miss us, you really will

Off for a work-term? Worried about *mathNEWS* deprivation syndrome?

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Your friendly *mathNEWS* co-editors

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Fun with Cards

Bridge can be quite fun when you hold most of your cards in one or two suits. The bidding frequently gets to a high level very quickly and several hundred points can swing on one decision made with very little information.

This hand was played recently in a match between two very good teams.

Vul: Both	North		
Dealer: N	♠ 10987		
	♥ K62		
West	♦ AQJ87	East	
♠ AJ32	♣ 5	♠ KQ654	
♥ Q54		♥ AJ10973	
♦ 54	South	♦ 109	
♣ Q864	♠ Void	♣ Void	
	♥ 8		
	♦ K632		
	♣ AKJ109732		

At the first table the bidding went:

Pop	East	Face	West
1♦	2♦	4♠	Dbl.
5♦	Pass	6♦	All pass
Opening lead: ♥ A			

There are not very many books that recommend opening the North hand with one diamond. However, Pop used a different method to decide if he had an opening hand. He counted one loser for each of the first three cards in a suit that was not an ace, king or queen. When he came to no more than 7, he opened. The two diamond bid by East was conventional, saying that he had at least five cards in each of hearts and spades. Face didn't care what East had. He was not stopping below six diamonds. His four spade bid told about the spade shortage and continued on when Pop tried to sign off in five diamonds.

The play was easy for Pop. East won the heart ace then switched to the king of spades. He trumped in dummy and played 2 rounds of diamonds. Then he played the top clubs and when East discarded on the king of clubs, he led the jack. West covered with the queen and Pop trumped. At this point the South hand was high and Pop claimed the remaining tricks.

At the other table, something quite different happened. This was the bidding:

North	Fish	South	Big Red
Pass	1♥	2♣	2♥
Pass	4♥	5♣	Dbl.
Pass	5♥	Pass	Pass
Dbl.	All Pass		
Opening lead: ♣ A			

This was a very different auction. The bidding was all natural, but aggressive by Fish and Big Red. When South insisted with five clubs Big Red expressed some doubt about his sanity. Fortunately, Fish knew that they would be short of defensive tricks and removed the double. Having sat still for so long, North finally decided that East and West really were crazy and doubled.

Five hearts would fail by one trick since Fish could not get to dummy to take the heart finesse. After trumping the club lead, he lead a spade hoping to get there. Perhaps fate intervened, because South had a brain spasm and discarded. After winning the ace and taking the heart finesse, Fish conceded 2 diamond tricks to make his contract.

This is an example of winning as a team. The opponents knew that they had lost as a team, but did not let this affect their day as they went on to win the entire tournament by also winning as a team.

Jared Riley

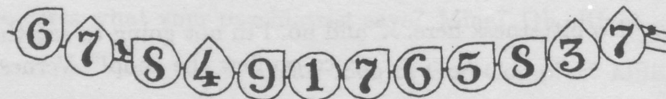
M	A	S	T	I	F	F		S	P	L	I	C	E	D			
A		W		N		O		E		A		O		E			
I			I	N	T	E	R	A	C	T	I	O	N	N			
T			N		E		A		R		R		C	O			
R	I	G	O	R			G	R	E	E	D	I	E	S	T		
E				B		E		T					R	E			
D	E	P	O	R	T	S		E	X	C	I	T	E	D			
			R		E			R		O		O					
S	C	A	N	D	A	L		T	H	E	I	S	T	S			
H								H		M				E			
S	I	N	T	P	E	R	U	C	O	M	E		A	D	M	E	N
M				L			P		A			T		U		S	
M					I	N	F	L	E	C	T	I	O	N	S		I
E						N				R		E		R		E	L
R	E	G	R	E	T	S				R	E	S	I	D	U	E	

"The Game"

Do you enjoy mind games and cryptograms?

Can you crack this CODE?

Area Cipher



and/or

Do you want to win a FREE dinner at ALI BABA's? Just go out and bribe (up to) four of your friends to make up a team.

To submit a team or for more info e-mail mathsoc@undergrad.math or drop by or phone MathSoc (MC 3038, x2324) re: The Game c/o Jared Riley.

The Philosopher's Stoned

The Dark Side

I'm directing this episode of my column to you poor lost souls who have unwittingly traded away your lives into eternal slavery for the sake of a steady income after graduation. That's right. I'm talking to you CS majors.

Computer Science, you see, is the Dark Side of mathematics. It is a perversion of the principles we hold dear. Take induction, for example; a perfectly straightforward method of proving things. Now, think back to your CS 134 course, when you studied induction the way CSers do it. Didn't it seem, well, wrong? Obfuscated? Completely unintuitive? That, dear readers, is the mark of evil.

Some of you may have seen the *Star Wars* movies... Wait, who am I fooling? You're math geeks, you've all seen them. Anyhow, what you may not have realised at the time is that the trilogy is in fact a grand metaphor for the mathematical world. Think about the characters for a moment. Darth Vader is "more machine than man now"; could it be any more obvious that ol' Anakin is a CS major? Or the Emperor: that haggard face, those sunken eyes, that pale skin... try wandering into an Xterm lab early one morning (I mean *early*... 5:00 am or so), and look around at the students; see what I mean?

Or the hero; young, idealistic, kind of naive, and fun-seeking; obviously a math frosh. During his travels, he learns the ways of the Force, an all-pervasive system of beliefs which requires strong mental discipline to use: math. His teachers are wise old men who speak in cryptic hints all the time, which describes at least half of the profs from the PMATH and C&O departments which this author has experienced in his classes. And though tempted by the easy power (read: money) of the Dark Side of the Force, he is strong enough to prevail against evil and emerges victorious (with, doubtless, his BMath). A lesson to us all.

For that matter, take Yoda's teachings. "*Fear... Anger... Aggression... The Dark Side are they.*" The fears in CS are many and various: of a system crash, of courses called "Real-Time" and "Graphics", of courses with 'PMATH' in the course code, of bathing. Anger and aggression... how many times have you heard the shout, "WHY WON'T THIS DAMN THING COMPILE??!!"? Angry? Definitely. Aggressive? Since it's normally accompanied by body language associated with the thought, "I am about to put my fist through this terminal", I would say yes. "*Once you start down the dark path, forever will it dominate your destiny. Consume you, it will.*" All too true. The average CS-type burns out in seven years, leaving little but an empty husk of what was once a bright young person.

Of course, *Star Wars* didn't tell the whole story. CS comes by its evil not only from mysticism but from its infernal connections as well. What are system processes called in Unix? Daemons, that's what. The entire Unix system does not work until the black priests of CS summon the hell-spawned imps into it to make it run. And even CSers don't dispute the diabolic origins of most other operating systems.

And so I say to you: watch yourself carefully. Do not allow yourself to be tempted into evil and despair. Keep mathematics, the constructs of holy GAUSS and his brethren (and sistren... um, whatever) pure and untainted. That way madness lies.

Matt "So-Krates" Walsh

Registrar's Addendum

Please note that preregistration occurs next week. The following courses which are not listed in the 1996-1997 Undergraduate Calendar are now available to students enrolled in the Faculty of Mathematics:

ACC 350 F,W,S 3D 0.5

Accounting Complaints

Without having to ever again disturb the sensible non-accounting students, students majoring in accounting will be able to discuss their bitter complaints about their heavy work loads, lack of optional course choices, short co-op interview period, and terribly boring lectures.

Prereq: ACC 128, ACC 131, ACC 228, ACC 232, ...

CS 461 F,W,S 3C 0.5

Lab Design

Course emphasizes optimal seating arrangements, accurately correlated desk to terminal sizes, minimized floor space, chair chaining procedures, decorative sound reducers and pretty colours for walls.

Required for all MFCF employees from now on.

MTHL 122 F,W,S 3C 0.5

Uses and Abuses of Mice

Students learn proper methods and minimum amounts of force needed when banging an unfunctioning CS lab mouse on desk.

Prereq: Must know how to operate Zeno machines.

MTHL 333 F,W,S 9C 1.5

Understanding mathNEWS Humour

An overview of the tremendous number of inside jokes contained in mathNEWS. Focus centers of understandability of Daleks, Zoggo, mastHEAD, ultraCLASSIFIEDS, and references to bridge. This course is personally endorsed by Steve "Flipper" Shaw.

PHIL 101 F,W,S 3T,3L 0.01

Personal Hygiene

Instruction in hand and face washing, shaving, proper hair care (includes shampooing, brushing, cutting). Also, proper uses of deodorant, toothbrushes, mouthwash, laundry detergent and Kleenex.

Prereq: Applicants must be members the CSC.

PMATH 372 F,W 3C π

Applied Differential Fundamental Rudimental Unconstitutional Calculus

This course contains nothing but complex, unmeaningful, insignificant, elaborate and painstakingly incomprehensible equations with lots of weird symbols and letters from alphabets other than ours.

Prereq: Applicants must be geeks.

REC 201 F,S 3C 0.499999

MC Survival

Lessons on living in the Math and Computers Building. Topics include tips on sleeping positions on Comfy Lounge couches, consuming warm drinking fountain water, telling time on busted hall clocks, familiarization of upper floor room number arrangements.

Not open to REC majors, as this course would fill all degree requirements.

Marshall "What, me hurry?" Posner

gridCOMMENTS

INPUTOutput

Hey, Hey, all you Griddy typos! Your good 'ol pal Gridby is having a bit of an off day, so even though I haven't done, attempted or so much as glanced at either of the grids this term I'm going to take it upon myself to attempt a grid write-up.

It looks like the cryptic went over pretty well (all one question and one clue of it). There were four entries all with perfect attempts. They were from Nambo, Andrew Krywnink, Ian Facey, and Church of Latter Day Sports. And the winner is... Nambo!!! Congats all!! Keep'm coming.

The correct answer to clue 20 Across was SURPLUSES. The answer to the lateral thinking puzzle: 'There was a little girl who turned eight on her first birthday. How was this possible?' is: The little girl was born in 1896 on February 29. A year is a leap year if it's divisible by 4 unless it's divisible by 100 (in which case it's not! unless it's divisible by 400 [in which case it is! unless it's divisible by 4000 (in which case it's not again.)]) All of this means that 1900 wasn't a leap year, so she celebrated her first birthday in 1904, when she was eight!!!

As for the Unconventional, all you puzzler dudes, THERE WERE ABSOLUTELY ZERO SUBMISSIONS!!!!!! Now I know It's not my place to say 'cause I didn't even look at it until now but Gridby goes and throws in a little twist and no one's got the courage to hand in an attempt. All you would have had to do is sign your name to a blank page and you would have won the prize. The little problem that discouraged even the immortal, Ian was simply that most of the numbers of the clue had to undergo a plus one shift. I think that's almost (dare I be so brave) pathetic (at least for the great puzzlers that I know exist out there).

The submissions for the gridQUESTION were lacking this week. Your gridQUESTION: What is your favourite term for the new two-dollar coin? Answers: 'U.S. Dollar' and 'twonie'.

Gridby's Pal

(At this point, Gridby himself enters and wrests Mark away from the keyboard.)

The cryptic returns this issue at full size. The conventional this issue suffers from a terminal condition. In every entry one of the terminal letters (i.e., first or last) has been taken away. Puzzlers call it a beheadment when the first letter goes and a curtailment when you remove the last letter and there are exactly half of each. The resulting sets of letters will not be words. Some people might consider 1-Down to be an abbreviation. Oh, and be careful. The condition seems to be catching; some of the clues have been afflicted too...

Send your solutions to either the unconventional, the cryptic or both to the BLACK BOX or e-mail directly to me at djrigby@undergrad.math.uwaterloo.ca by next production night (Monday, March 25) at 6:30. Include your answer to this week's gridQUESTION: When do you start studying for exams, and why?

(P.S. Any Krewe who may be reading this on the World Wide Web can submit too, but what any of you might want with a \$2 gift certificate to our C&D, I can only guess.)

Gridby (Dart)

Here are the solutions to last week's INPUTOutput problems:

16) State the length of the longest string of consecutive consonants (3,2,1,4,0,1,2). Note that the alternate rule of "State the value of the number of consonants divided by the number of vowels (rounded up)" works equally well and gives the same result. Another alternate solution that was accepted was "State the longest unbroken string of consonants between two vowels, with outputs both 1."

17) State the first letter of the first name of the famous person given in the input (M(artin), S(helly), K(athy), S(teve), G(eorge), B(ob), and D(onna) or C(ree)). Unfortunately, Suzanne Somers spells her name differently, and is not acceptable.

18) State the first letter in a homonym of the input (A(ir)/A(re), C(hoir), P(hrase), K(now), R(oot), Y(ou), H(our)).

19) State a one-digit number that rhymes with a synonym of the input. The synonyms in this case were late, store, shoe, free, gun, sticks (output = 6) and line (output = 9).

20) State the sum of the letters in the input (using A=1, B=2,...). There was a typo in the case of DIRECTOR but this didn't seem to stop anybody. It should have read 92. The correct outputs were 73 and 97.

There were thirteen people or teams who submitted, nearly all perfect. Here were the scores... 19 points: the Church of Latter-Day Sporks. 20 points: Laurel van Dommelen, Reza, Nala 'n' NoLung, Nambo, Gnuf, Andrew Krywaniuk, Lisa Harpur, Shawn Wilkin, Chris McGuire & John Gillespie, Ian Facey, the team of Anil Upadhyay, Sean Woodward & Austin Roche, and Khalid Syed. The winners this week are Anil, Sean and Austin! Congratulations! You can pick up your prize in MathSoc.

We now have five more output sheets, and I think these are a little harder than previous batches. Can you supply the missing values and state the rules? (For 1 point each and 2 points respectively)

①	SETTLER	7	②	CLUE	2	③	COAT	T
	ROUTINES	8		MONOPOLY	3		PRAY	Y
	RATIONAL	8		BRIDGE	1		COLD	O
	PHYSICAL	18		RISK	5		POUT	T
	MNEMONIC	14		YAHTZEE	7		SUMP	U
	EQUATE	?		TRIVIAL	?		CLAMP	?
	CABOOSE	?		PURSUIT	?		HEARD	?
	④	TONIC	4	⑤	FLAXBUSH	X		
		MARRY	29		CHAPPY	C		
		TORNADO	20		GRUMPY	H		
		AUDITION	13		DEPLOY	L		
		STRAIGHT	25		CODE	E		
		PICTURE	?		YELPERS	?		
		DRINK	?		ENZYMES	?		

Gridby

mathNEWSquiz #5

Yo! Math Grads! Donate to the Pink Tie Pledge!

Hi, squizzers! We got a fair number of submissions for this issue (eight). Yee-haw! Here are the answers from last issue's quiz: **Song Lyrics:** 1) Losing My Religion, R.E.M.; 2) Love Shack, The B-52s; 3) Royal Canadian Kilted Yaksmen, Ren & Stimpy; 4) Cornflake Girl, Tori Amos; 5) Could I Be Your Girl, Jann Arden; **Doctor Who:** 1) Time and Relative Dimensions in Space; 2) it opened the door; 3) gold; 4) moving up and down stairs; 5) UNIT (United Nations Intelligence Taskforce); **Great Mathematicians:** 1) Archimedes; 2) Hypatia, Maria Gaetana Agnesi, Sophie Germain, Mary Fairfax Somerville, Sonja Kovalesky, Grace Chisolm Young, and Amalie Emmy Noether; 3) Karl Freidrich Gauß; 4) Leonhard Euler; 5) Évariste Galois; **Video Games:** 1) 1000 points; 2) Inky, Blinky, Pinky, and Clyde; 3) it turned into a mutant; 4) tanks, light-cycles, spiders, entry into the IO tower; 5) Spock said, "Welcome aboard, Captain."

Alllllllrighty, then! Here are the eight people (or groups, in some cases) who submitted solutions to the squiz, with the score in parentheses: Knight of Ars Magica (8); Ian, on behalf of SSIS: Sporks in Satan's Service (12); Satan's Onions (13); The Church of Latter-Day Sporks (13); Michael Thomas (14); Manal, Duncan, Kevin, Esther, Steve, John (14); Jerry Han (17); and the winner (by random determination, of course) is (drumroll, please) is Aaron Desjardins (17)! You can pick up your squizprize in the MathSoc office. Everybody who submitted, thank you, and keep up the good work! And, now, onward ho!

Song Lyrics

Name the song and the artist for 2 points

1. Every light is burnin'
In a house across town
She's pacin' by the telephone
In her faded flannel gown
2. What's with these homies dissin' my girl
Why do they gotta front
What did we ever do to these guys
That made them so violent
3. These are the days of miracle and wonder
This is the long distance call
The way the camera follows us in slo-mo
The way we look to us all

ultraCLASSIFIEDS

Jason Roe,
Wake up and smell the fucking coffee. Gyros available @
the BOMBER every day.

THE BOMBER REGULAR

"Fong Knows"

Hey Juice Box,
I think I left my cock ring up your ass.

A. Buster

4. Well they say the road's a dangerous place
If you flip me off I'm the danger you'll face
You drive on my ass
Your foot's on the gas
And your next breath is your last
5. I would break down at your feet
And beg forgiveness
Plead with you
But I know that
It's too late
And now there's nothing I can do

The Hitchhiker's Guide to the Galaxy

1. Whose phone number was also the probability of being picked up by a passing ship after being ejected from an airlock?
2. What was Slartibartfast's geological forte?
3. Marvin (The Paranoid Android) exhibited what great new feature from the Sirius Cybernetics Corporation?
4. Who carved his initials in the cauterized synapses in Zaphod's brain?
5. What was the "revised" (albeit heavily edited) entry for Earth that appeared in the Guide after Ford's exile?

Television Commercials

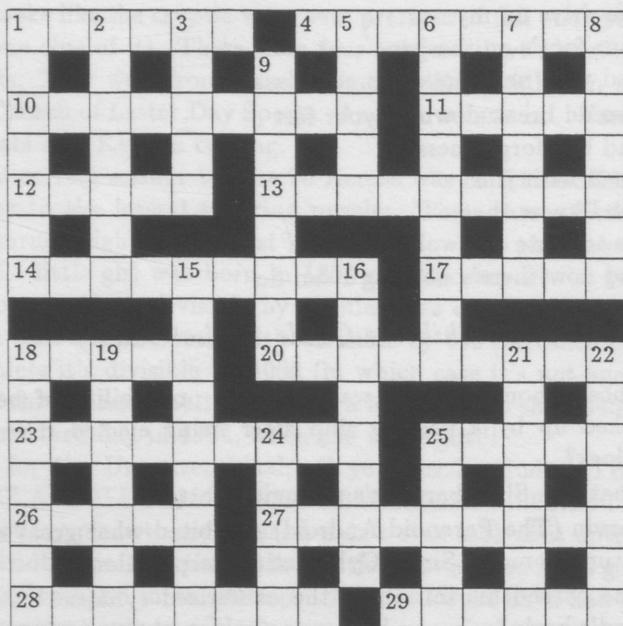
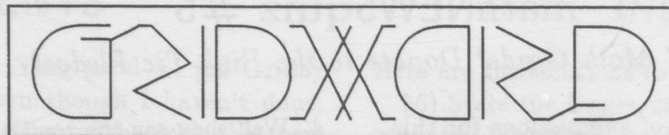
1. What is "worth the drive to Acton"?
2. Who was the nemesis of the "Burger King" back when he starred in the ads for the fast-food chain?
3. What is the telephone number for Shapiro and Shapiro — the smart, tough lawyers who will get you **cash** for your pain and suffering? (Ask someone who got Rochester cable feeds ...)
4. What hockey "star" is plugging milk these days?
5. What are "more than meets the eye"?

Monty Python

1. What is the first name of the man who speaks entirely in anagrams? (Bonus mark for the anagram title of each Shakespearean work translated into anagram form.)
2. What was the dead parrot supposedly "pining for"?
3. Who had an entire menagerie called Abdul?
4. What was the moral of the story in "Happy Valley"?
5. In what scene of *Monty Python and the Holy Grail* do we first meet the keeper of The Bridge of Death which spans The Gorge of Eternal Peril?

Good luck, everybody! You can submit your solutions to the BLACK BOX across from the Comfy Lounge on the third floor of the MC, or by e-mailing your answers to mathnews@undergrad.math.uwaterloo.ca. Submissions are due by 6:30 p.m. on Monday, March 25.

Ian "Son of God Complex" Milligan
Stuart "Jean-Guy!" Pollock



Grid Clues (Cryptic)

Across

1. Unfinished sculpture has mysterious terminal condition. (6)
4. Senior accepts prize containing way to start tonic water into wine? (8)
10. Pardon, sir, perhaps they take us by storm? (9)
11. Flatfish giving spirits to the audience. (5)
12. Garçon, I'm out of a drink. (5)
13. Elevating evaluation upon audition. (9)
14. Kid applies finish time and again (and again!). (9)
17. For example, sugar and candy eat away in some teeth. (5)
18. Worries pointlessly about circuit breakers? (5)
20. Dinner ruined when tornado hit, making whirlpool. (9)
23. Me? I can go crazy around a picture of me. (9)
25. Enough to try a little straight off. (5)
26. No rain—lack caused by terminal condition. (5)
27. Little spot on golf course serves a sandwich dressing, of a sort. (9)
28. State of depression with new stress. (8)
29. Ripest doctor who'll marry men *and* women?! (6)

Down

1. Writes piece on sun strokes. (7)
2. He'll fly through into a crag. (7)
3. Undress masculine form rendered unconscious? (5)
5. Rewrites prose puzzle. (5)
6. Natural tendencies in son can court disasters, at the core. (9)

7. Large number are sick in kind of paradise. (7)
8. A swarm of singers quits. (7)
9. IBM/Lotus merger? It makes me sick. (8)
15. Demonstrate pachisi to a nut. (9)
16. Happy to beat a group of singers. (7)
18. License to settle dorm fee. (7)
19. On the radio: "Like turtles!" and "Catch up!" (7)
21. Transport pure tar carefully. (7)
22. Sheep breeder secured by mast gets life jacket. (3 4)
24. Contract eaten by dog. (5)
25. Avoid crab hors d'oeuvre filling. (5)

Grid Clues for Terminal Condition (Unconventional)

Across

1. A terminal case?
4. Design of some cars
10. Supporter for those with a terminal condition?
11. Explanation
12. Hurl (2 wds)
13. Lying men might use one?
14. Shower
17. Retro hairstyle
18. Mythological twin
20. Detailed (hyph.)
23. Fir, for example?
25. Rutabaga
26. Look up to
27. Faulty
28. Esteem
29. Site for a terminal case?

Down

1. It helps change a terminal case? (2 wds)
2. Map
3. It can give you a rash?
5. Domino, for instance
6. Boys' room nuisance
7. California island
8. Another name for solitaire
9. Hot light?
15. Minor change
16. It exemplifies a Terminal Condition?
18. Nice
19. More weasely
21. Broke
22. It's got a terminal
24. It's two orders away?
25. More common name for the 'street starfish' character from the Discworld video game.