New Hotness

*look*AHEAD

*math*NEWS	
July 22	Issue #6 hands in its last assignment

We are seeking submissions for our Frosh Issue! If you've got something you want to tell frosh, send it to mathnews@student.math.uwaterloo.ca

Math Faculty	
July 29	Last day of lectures
August 2	First day of exams

MathSoc	
Thursdays	Movie Nights, 7:00 PM, MC 2066
	2 movies, 0 dollars!

MGC	
Wednesdays	Pizza Day!

Miscellanious	
July 27	Take your pants for a walk day
	[Hmm, maybe shorts in this heat — inkEd]

MathSoc Seeking Experienced SysAdmin

Fabulous Resume-Enhancing Volunteer Opportunity

MathSoc is seeking someone to take on the role of Computing Director for the W06 term (and perhaps beyond). At the bare minimum, you should be familiar with both Linux and Windows.

Our ideal candidate has experience with Debian GNU/Linux file/web server administration (Apache with mod_ssl and php4, MySQL, exim, Samba 3, ACLs), as well as Windows 2000 desktop and Windows Server 2003 Active Directory administration. You should also be comfortable taking apart and putting together PC hardware.

Experience with Cisco switch administration, Mac OS X administration, patch panel maintenance, CUPS (maybe not necessary if I ever get my act together…), rsync backups (both incremental and that other kind), and a whole lotta gumption are also assets.

If you would like more information about the position, please contact computing@mathsoc.uwaterloo.ca.

Eric Logan
MathSoc Computing Director

Apply to be an RCC

Are you living in rez next semeseter? You might be interested in being an RCC (Residence Computer Consultant). You can make $200 for the fall semester helping people with basic computer problems. To find out more go to: http://www.housing.uwaterloo.ca/resnet/resnet/rcc.html

Answers to This Issue's Squiz

No peeking!

Aaron Dos Remedios

Famous Endings: 1) *Forrest Gump* 2) *Titanic* 3) *Moulin Rouge* 4) *Flashdance* 5) *The World According to Garp* **The End of the Riolit's the End of Term:** 1) 1 2) Divide by n 3) Negative 4) Descriptive 5) 4 **Odds and Ends or Just An Odd Ending** 1) Yes 2) Zoot Suit 5) Zone defence 4) Zoloft **Alphabet:** 1) Zipper 2) Zap 3) Zoloft 4) Zone defence 5) Zoot Suit No 3) No 4) Yes 5) No.

Subscriptions!

It's math*NEWS, the home game*

Yes, really, we have subscriptions. If you aren't going to be around campus to get issues of *math*NEWS, then why not have them delivered to you? You can take them to work and read them during meetings. Or you can read them during those long commutes. Or during meetings!

Of course there is the webpage, but there's a lot less glare off bond paper, and you get to see our wacky filler! And *math*NEWS can travel almost everywhere, unlike those clunky computers with their cables and such. Unless you have a laptop, but what are the odds of that? One in fifteen?

And, let's not forget, they're pretty cheap too! In Canada, it's $7.50 a term, twenty bucks for three terms. For the States, it's $10 a term, and twenty-five for three. The rest of the world pays $15 a term or $35 for three.

A term's subscription gets you all six exciting issues, plus any bonus issues that happen to come out. But what are the odds of that? Two out of three?

The three-term option means you can get *math*NEWS every summer you're away, or, for those co-ops out there, you can have your subscriptions every time you go off to a faraway job. Any three terms are do-able.

To subscribe, just drop by the *math*NEWS Office (MC 3041) with your requested term(s) and some cash, or drop it in our mail slot in the MathSoc Office (MC 3038), or put it in the BLACK BOX, or email mathnews@student.math.uwaterloo.ca, or give your money to a mathie in the hopes he or she is an editor. But what are the odds of that? Two in one thousand five hundred?

Here's a handy-dandy form to make your requesting process even easier:

*math*NEWS Subscription Form

Name:

_____

Mailing Address:
_____
_____
_____

Terms Requested:
1. F W S 20__ 2. F W S 20__ 3. F W S 20__
Canada: $7.50/term, $20/year
USA: $10/term, $25/year
Overseas: $15/term, $35/year

*prof*QUOTES

"I don't know if you've noticed, but I've tried to avoid lying to you all term."

Lynam, CS 350

"I'm in a good mood today, so your final exam will now be 10% easier"

Lynam, CS 350

(Girl walks by class crying) "Somebody is having more fun than we are. Here, we need to apply some common sense. Hopefully you have some."

Steiner, STAT 231

VPA Sez

Hey y'all, it's been a long time since I've written one of these. That's not to say I've been slacking off, just that nothing newsworthy has happened. Of course, if you've taken MATH 135, you might be able to deduce (or even induce) that, since I'm writing now, there is something new. Indeed there is…

The Peer Mentor Program

This program is a MathSoc-initiative aimed to help give the frosh the advice they need to stay in their programs, complementing the Faculty's existing programs. Basically, we have two goals:

- To provide non-administrative academic and non-academic advice to students on a regular, informal basis.
- To facilitate communication between students and administration when such a need arises.

If you're interested, applications are available outside the MathSoc office. The application deadline is Monday, July 25. Please submit completed applications to the MathSoc office. And please, sign up for an interview time slot!

Instructor of the Year and Honourary Lifetime Membership Nominations

You may have noticed that the Instructor of the Year nominations have come and gone. Thanks to everyone who submitted a form for their profs. If you haven't yet, and it magically appears in my mailbox in the MathSoc office, I just might think I missed it before… *wink wink*

The same goes for the Honorary Lifetime Membership (HLM) nominations. Their applications are due on the 29th of July. The Nominee must:

i.   be graduating or have otherwise completed their studies; and
ii. have contributed significantly for most terms spent on campus, including not only contributions to math activities but also to other activities which have enhanced student life.

That's pretty much everything on my plate. If you have any questions about anything I've said, you can email me at vpa@mathsoc.uwaterloo.ca, or just come visit me during my office hour Thursday morning from 11:30-12:30, or anytime I'm around the third floor. Make sure to have fun during the last week of term, and then good luck on your finals!

Leander Quiring
MathSoc VPA S05

The propounders of nonsense: Eric Logan, Jenn Smith, Ian MacKinnon

The Presidential Briefing

For the Very Last Time… Really

To those who have been around for the last half decade, you've probably seen my VPA or VPAS articles with a similiar tagline as the above, but this time I'm serious. This will be my last academic term, and the very last time I will be writing a MathSoc-related column.

I consider my years of service to the Society and to the students to be a labour of selfless dedication. I hoped to achieve my goals to better the lives of students and to motivate my volunteers, and to some extent, I believe I have succeeded.

The Math Society served up some great fun this term, and also dealt with some significant changes that affected a lot of people. Our volunteers worked hard to make those social events happen, and ensured that student voices are heard when changes are being made to our education. As President, I am proud of the work the MathSoc volunteers have done, but I am also aware that those same volunteers are overworked, and obviously underpaid.

If you're reading this, it probably means you care about the school more than you imagined (this is NOT *prof*QUOTES you are reading right now). We need people like you to help run the office, update the exam bank, detox the MathSoc network, and run great events. One of the biggest obstacles of getting involved is the fear of knowing no one in the organization in the beginning. Have no fear, MathSoc volunteers have always been friendly folk willing to teach and learn from new volunteers. The Society only runs as well as the volunteers that run it, and by and large, the Society has been running in fantastic shape, thus is the reflection on our tireless volunteers.

Years past, I have concerned myself about leaving a legacy of sorts, but that by itself is not indicative of the quality of a leader. I have since learned that what I do now, for 2000 of my closest friends in Math, is more important than worrying about what mark I will leave for years to come.

With that said, I leave the Society in the competent stewardship of Off-term prez Michael Tersigni and his executives for the Fall 2005 term, and wish them, and all Mathies, the best of success.

On behalf of my executives Catherine, Leander, and Linda, I extend our gratitude for allowing us to serve you all, and wish everyone the best of success for their exams and beyond. I also have my executives to thank, for without them I would have lost my sanity from Day 1.

With mixed and bittersweet emotions, I bid adieu to you all, my fellow students, my volunteers, my fellow execs, and my Society. The best of success to you all.

Raymond Lai
President, Mathematics Society S05
This is the last time… I'm not joking… Seriously.

One Reason Why We Are Better Than You

1. We don't try to over-compensate for our adolescent low self-esteem by submitting whiny articles about the opposite sex to *math*NEWS.

Sincerely,
Math Guys

MGC Sez

Hi fellow grads! Greetings from MGC, for what might be the last time this term. (I can hear the applause already: "quiet, Alex, we've heard enough of your rambling!") The good news is that there isn't much to say at this point.

Most of the grads who are on campus this term are probably getting ready to finish off their last co-op term. When you're back in the winter, here's what you have to look forward to:

- Grad ball!
- Grad rings (if you buy one)!
- Yearbook goodness!
- Pink Tie Pledge!
- Exciting social events!
- Lots More!

MGC really hits its stride in the winter term. What we have in store for you promises to be memorable. In fact, that's not just a promise — it's a guarantee!

And now, the obligatory shameless rafting plug: as almost everyone ought to know by now, the rafting trip is on! If you're reading this and you're not going to the Ottawa Valley later today, too bad. If you're reading this and you're ready to go, even better. Watch for post-rafting stories (and pictures!) next week.

Good luck next term!

Alex Perel
MGC Chair Spring 2005

*mast*HEAD

Last Issue of the Summer

So we got quite a response to the "Why we're better than you" article in the last *math*NEWS. Allow me to sum up the response. Old & Busted: *math*NEWS getting in trouble for making fun of Math girls. New Hotness: *math*NEWS getting in trouble for making fun of Math guys.

A more interesting response was to the ESQ cover. When I was in the *math*NEWS office last week, about 14 ESQ kids came by to yell a nice big "THANK YOU MATHNEWS" to me. I didn't know sarcasm came at such a young age. Anyway, nothing quite like getting pwned by a bunch of 10-year-olds. Although we did get to interview a few of them for our article in this week's issue.

On a sadder note, this is the last issue for the term. It's been a really great term and I wish we could do another issue, but there isn't much point in having an issue come out during exam time is there? Next up is the Frosh Issue for 2005, then it's all Fall term.

Since it's been so hot lately, we asked our production staff: How do you beat the heat and humidity? Richard (2B CS, Staying inside), Michael Perkins (2B Math, My room's air conditioning is almost too good), Dan Swartzentruber (2B CS, a baseball bat), Mark Toivanen (3N, Wait 15 minutes after pushing "Hi Cool" on my AC), Kaitlyn "Half-Pint" Holman (2A.5 Pure Math, with a stick, while it sleeps).

Thanks to all our great staff and we'll see you next term *[Well, 'cept for me. I'm outta here! — inkEd]*.

Ian W. MacKinnon (4A CS, By sweating)
Eric Logan (3A CS/C&O, Stay in the MC, it has AC)
Jenn Smith (3A Pure Math, Leave the oven on so the outside seems cold compared to my house)

MathSoc Movies

What will we play now?

As I am writing this, I am not sure if there will even be movies next week, and if there are, well, I don't know what they're going to be. So, I will write this under two scenarios:
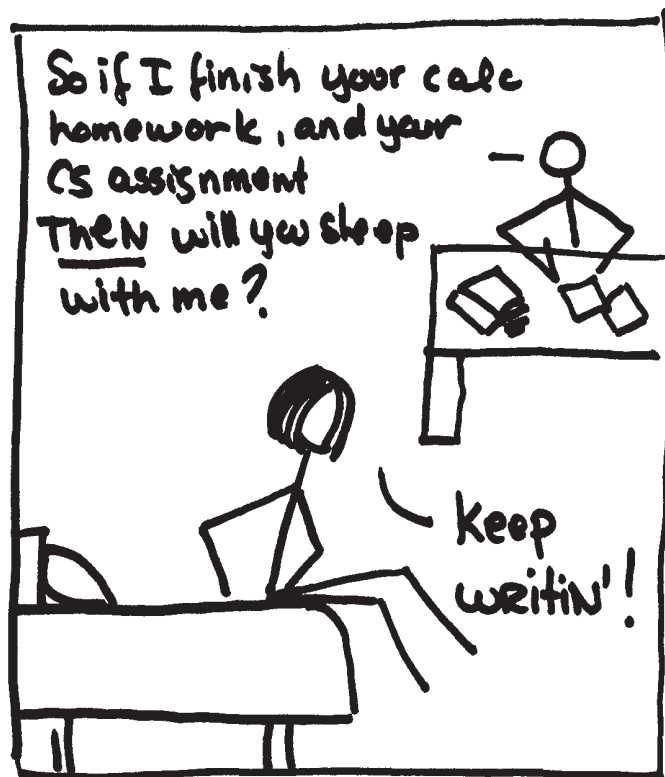
1. Standard Movie Night will take place. What this means is that next Thursday, I will be showing two movies, one at 7:00 PM, the other at about 9:00 PM. These will be posted in the Movies display case, across from the Comfy lounge (MC 3001) on the 3rd floor, and on the Movies boards in the two North-South hallways of the 3rd floor.

2. Office Marathon Week Movie Marathons. What this would be (as it has yet to be fully decided on/approved of/room booked) is a single movie on each of Monday, Tuesday and Wednesday evenings. Also, these movies are as of yet undetermined, and would be posted today on the same boards as indicated in option #1.

3. No Movie Night. This is really easy… there'd be no viewing of movies at all next week.

I'd much rather run with option 1 or 2, but there are external forces that I have to work with for either of these to work. There's not much more I can say than that, besides to thank everyone that helped out or even showed up to my first term as Movies Director. I hope you guys enjoyed it as much as I did!

Mark, the MathSoc Movies Guy

Mathie Sexual Position of the Week

Woman on Edge of Bed, Man Bent Over Desk

Elliptic Curve (with thanks to Sh8der_Boi)

MGC 2006 Yearbook

Photos Photos Photos

Greetings fellow mathies, and especially 2006 grads. We're your friendly neighbourhood yearbook editors, and we're already working away - your yearbook is going to be awesome. But what would make it even better is input from YOU! If you've got ideas, or want to help out, or just want to say hi, we'd be thrilled to hear from you.

Another thing we need from you is pictures, as many as possible. We can be a lot of places, but not everywhere, and if you're anything like us you'll want to see tons of cool pictures in your yearbook. Please send us your shots from:

* school terms
* work terms
* vacations
* math events
* non-math events
* parties
* you or other grads "back in the day"
* random semi-math-related stuff
* anything else you want to see in the yearbook (no nudity!)

Digital Submissions

If you've got digital, the higher the resolution the better - so don't shrink them down for the sake of file size! Email them to `mgcbook06@gmail.com`, or leave a CD/diskette in the MGC/ yearbook mailbox in MathSoc.

Print Submissions

Again, these can be left in the MGC/Yearbook mailbox in the MathSoc office (or you can bring them by the MGC office in person, of course). If you need your prints back, please leave your phone number or email address so we can get your prints back to you. We'll scan them in and return them as soon as possible.

All Submissions

Make sure you include the names of the people in the pictures, and what it's a shot of (pints with profs, your trip to Holland, that work term at Microsoft, comfy-lounging, etc.). No copyrighted images please, as we can only print pictures with the permission of the photographer/owner.

That's it for now! Send us your photos, or face the wrath of the monkey minions! (Actually they're pretty friendly too...)

Gillian Gothard & Terry Vaskor
MGC 2006 Yearbook Editors
`mgcbook06@gmail.com`

Oh no! More *prof*QUOTES!

"The amount of knowledge I have has kernel 0."

Wolczuk, MATH 136

(Attempting to demonstrate a binary search by name on a phone book) "Oh... they sort this by city..."

Robinson, CS 134

After taking 5 minutes to solve a question
 Student: "Do you want us to solve that?"
 Prof: "No, I expect you to colour it in!"

Wang, MATH 213

ElseWhen

13 years ago in mathNEWS

Because that is my favourite number

The summer of '93 was a very good year; it was a very good year for small town girls and sweet summer nights… no, wait, that's not right. It was a very good time for *math*NEWS! The end of the spring term was nearing when volume 59 issue 5 hit the presses, although no one was really ready for exams, as always. Apparently, the editors for the term were both girls. Go math girls!

Dirty Mathie

So, as for content, this issue had lots, much of it good, even. Here is a glimpse of what we missed:

How Ducks have made the English Language Profane

We in Waterloo are really lucky, ducky lucky, to have such an abundance of ducks in our community. Indeed, they are quite the contribution to society, inhancing our language by making it clean, as clean as the water they swim in. For example, "duck-off!" "you're ducked up!" "it's been a ducky day," the ever-popular, "you ducking idiot!!" and as a close second, "you're full of duck-poop!" Indeed, this language may make one cringe inside, but think of the alternatives …

And if you can't see the point we're making, then Duck you!! Go Away! Don't you follow me anymore!

Oatmeal and Milk

Ultra Classifieds

To Triangle Man:
 I'll get you next time, I SWEAR IT!!!

Particle Man

To the guy who makes my stomach growl
 Do you want to come over and see my new pjs?

Remmick

Brother Dan,
 We knew that you hid our Cleaning Lady in your room!

R&D

VapidFire

The space shttle Atlantis begins another mission today. The crew that blasts off from the Kennedy Space Centre includes several people and an experimental yo-yo. NASA has denied reports that the yo-yo is actually the vice-president of the US, Dan Quayle.

A government official has been quoted as saying that the situation in former Yugoslavia is "like watching a horror movie." Other reports have surfaced that describe the Persian Gulf war as like watching an action-adventure, the constitutional debates as like watching a romance, and the legislature as like watching a comedy. In response to the accusation that members of the government watch too many movies, Brian Mulroney expressed his opinion that it was better than watching Murphy Brown.

Diderot

You Don't Know Jack

Meet Jack Rehder, the New Executive Assistant to the Dean

One could easily argue that for undergrads, the Executive Assistant (EA) to the Dean of Math is the de-facto Dean. This stems from the EA being the primary point of administration contact for many Math groups such as Orientation, MathSoc, and most importantly, *math*NEWS. The new Dean comes bundled with a new EA, as well, named Jack Rehder. We recently sat down with Jack:

**math*NEWS — What was your fondest memory as a UW Math undergrad?*

Jack Rehder — I have memories of a couple of instructors; one in particular was Jock MacKay, who really stuck me in my stats class. I had one of my first and very few all nighters, followed by a STAT230 tutorial, and I fell asleep in his tutorial. He woke me up very publicly and loudly. I really like the guy, and it's quite funny because he always remembered who I was. Of course now we have a working relationship, as he's the associate chair of the Statistics department. He never held it against me and understands the pressures on students. Particular faculty members are what I remember most.

Residence was a strong influence on me. In my previous role I'd get calls from prospective students and meet them at promotional activities like the University Fair in Toronto. One of the things I'd always tell prospective students is to go into residence. It's part of the experience and if you don't do it you're missing out on a lot. Thats where my friends came from, largely, was res. We didn't have M-sections at that time, which is a serious attempt by the Dean to form some sort of class spirit. We didn't have that, so we were a bunch of strangers walking around. Without res it would have been a lot harder to meet people. M-sections are a positive change, but we'll never have the same kind of class cohesion as Engineering. I taught a group of SE students their first CS course and the difference between teaching that group and another was phenomenal. The dynamics of the class and the way you teach was different because you knew the students had each other, where the other groups didn't have that.

**math*NEWS — How do you feel about the students who are protesting the new changes to the new math graduation rules?*

JR — I'll admit to understanding what some people are thinking about the new attrition rules, I know not all, but a number of students are thinking this somehow weakens their degree. I understand why some students are not in favour of all the things that are taking place. One of the ways that I can say this is that when I was here our course load was 6 courses, instead of five. When it changed I was wondering why all the sudden you only needed 5; that's a huge change and I remember feeling "gee, I had to do this the hard way, and these guys are getting off easy, does that mean my degree is more valuable?". I think these are similar kinds of things people are thinking about the new attrition rules. I'm not making a statement about whether it's right or wrong, but i understand where the concern is coming from.

**math*NEWS — What other jobs have you held for UW Admin?*

JR — I was manager of the instructional Support Group for CS and held various associated titles. I've been in CS doing teaching support, hiring and supervising tutors, and at one time I was responsible for the Mac labs. That evolved over the years, and more recently to doing budget support and teaching assignments.

**math*NEWS — How to view your role as EA?, as a primary point of contact for the Dean, or more behind the scenes.*

JR — I'd like to be a point of contact for students. What remains to be seen, because the Dean is so new, is how much involvement the Dean wants to keep, and how much he wants to delegate. I don't want to take anything away from the Dean that he wants to do. If he wants to be actively involved and accessible, I don't want to keep that away from him. But, if he's not in a position to do that because of time constraints, then I definitely want to be the contact. I have already had lots of contacts with specific committees like orientation. As we get closer to September my contact with orientation will probably increase.

**math*NEWS — Do you have any big plans for your time here with respect to students?*

JR — It's probably early to tell; obviously continuing to be involved with orientation. We're doing some renovations and new space is being given to student groups.

**math*NEWS — Thanks for that. By the way, *math*NEWS is getting a new office bigger than the closest we have now.*

JR — I'd like to take credit for that, but I have to credit Shirley with that one. That was well in place before I came in. One of the things that was not appealing to me when taking this job was the prospect of losing contact with students. That is something that I enjoyed in my previous job. I'm very interested in finding ways to maintain or even increase the level of student involvement.

**math*NEWS — What challenges do you see in your new position as EA?*

JR — Training the new Dean. I have very positive feelings about the new Dean, but he's going to have a huge learning curve to get adjusted to UW, which will translate into a huge challenge for me. The way that I see our relationship interacting is that the Dean will focus his energies on external activities like promotion, improving our image, recruiting, promoting research, fundraising, all of those kinds of things. I believe he'll be ambitious in those areas. That's great, no problem, but he's going to be relying on me to maintain internal communications. That's going to put a lot of pressure on me to do it right; to make sure the right people know what's going on. If it was a dean that had been here for a while I wouldn't feel that sort of pressure, but I really think he'll be relying on me for that.

Ian W. MacKinnon
*math*NEWS Editor

MathSoc Has New T-Shirts!

They're awesome! Go buy one!

Free Floating *prof*QUOTE

"Does anyone remember the last lecture before the long weekend? That wasn't a rhetorical question."

Van Beek, CS 245

New Dean Has Ascended

Dr. Tom Coleman is the newest addition to the staff of the Faculty of Mathematics, and the most important. He has taken up the reigns of leading our great faculty, as J. Alan George recently retired from the position of Dean.

Dr. Coleman earned a BMath, Masters, and PhD from Waterloo in the 70s, all focussing on combinatorics and optimization. He says he especially enjoyed his time here working on his PhD, as well as the co-op experience. After finishing a BMath, he was offered a job in Toronto, but chose to return to UW to do graduate work.

In early years, his research focus was optimization in general. Later, at Cornell University, this shifted to computational finance, and he learned and applied parallel computing to his research. Although Waterloo is now strong in computational finance, he was not aware of that when he was here as a student, and is happy "to be coming here and joining a pretty strong group of researchers in finance."

One advantage he has found in his research to having studied at UW is the broad math base he acquired. Working in continuous optimization, most mathematicians would have no education in discrete math. Coleman "used that to [his] advantage because many of [his] publications actually use ideas from discrete mathematics to solve problems that arise in continuous mathematics." He is also excited about the new Computational Math department, and thinks "it is a great idea. [He] will be looking at it hard to see if [he] can make it better, healthier."

While at Cornell in Ithaca, NY, Dr. Coleman moved up in the world over his 24 years there to become director of the Cornell Theory Centre. He says this was more like an application centre, where about 60 staff members researched optimization and even "made some waves internationally in terms of how to solve certain kinds of problems." During his time there, they expanded to grow ties with industry and internationally, and opened a second research facility in New York City, "to work more closely with industry, particularly the finance industry."

So why would anyone leave such a prestigious position to come here? Coleman has several reasons, the first being the persuasiveness of our Provost, who convinced him that this would be "an exciting and profitable thing to do." Another reason is national pride: Coleman is a Canadian citizen, and although he spent 26 years in the US, he "didn't ever want to cut those ties" with Canada. And of course the reputation of this faculty influenced him a great deal. As the "largest centre of mathematical education and research in the world," UW is a place "that [he] would be proud to be part of again."

As for his plans here, he wants to take a very hands-on approach and continue to improve things for everyone. In particular, he wants "to increase [the faculty's] profile internationally, and do some international activities." While we do have a strong reputation abroad, he would like to strengthen ties with Asia especially, and increase awareness of this great program internationally. His experience at Cornell has prepared him for this task, as he developed many of their international ties, and earned them a very good reputation.

He also whole-heartedly supports the co-op program here, and to better the system in place, would like to improve relations with various established companies, and help UW spin-off companies to grow.

One issue Dr. Coleman sees that we need to deal with is the decline in interest in computer science. Universities throughout North America are seeing decreased application rates, and we need to help generate more interest. Waterloo has not seen this to a great extent, perhaps because of the strong ties between computer science and business here. Coleman says this is due to good leadership, and will try to continue that leadership to eliminate this problem.

While Coleman has come here to work in the math faculty, his family has also moved to Waterloo. His wife, Yuying Li, will be a computer science professor, and his daughter is in grade school, while his two sons are at University in Toronto and Montreal. This has been a big change, but he says so far everything is going well, and hopefully they will be happy here.

So far our new Dean says everything is running smoothly here as well, although he did not officially start his job until after this interview took place. He knows there will be both challenges and opportunities, and his job is "to meet the challenges and take advantage of the opportunities." He is "looking forward to having a positive impact" on this faculty, as his predecessor did.

Of his predecessor, Dr. Coleman has nothing but good things to say. As a teacher, and as a friend, J. Alan George influenced him in his work. He says "following in his footsteps is attractive to me because I have a high regard for him as a person. He has contributed tremendous amounts to this university."

Of course, Coleman is here for the students, so we asked him about a great kindness he could do for us: turning down the air conditioning. He gives us the hope of action, saying, "that sounds reasonable, and I could certainly look into it, no question."

We wish Dr. Coleman luck in his efforts to improve our school, and prevent our students from freezing.

Jenn the Dirty Mathie

Solutions to This Issue's Grid

No Peeking!

How To Reconfirm Flight Reservations With Air China

So I'm trying to reconfirm a flight reservation for a flight on Air China. First, I go to their website to find the number to call. I can't find it there. So I Google for it and find it on some random person's personal web page. Then I call the number. It doesn't work. I try again. It still doesn't work. I Google again and find another site that has the number listed. The number is the same, so I try a third time. That time it works. So I get one of those automated menu dealies. It says to dial 1 for confirmation and reservations. I do so. The voice comes back and repeats the same menu. I dial 1 again. And it repeats again. And so on. I hang up in frustration.

Eventually I try again (after several more unsuccessful calls). This time I try a different menu item (like the one saying "group reservations"), hoping to speak to an agent who can help me. A new voice comes on and begins speaking in Mandarin. It appears to be repeating the menu. Exasperated, I give up and hang up the phone again.

Finally, I try a third time and resolve to hit 1 again when the second voice (in Mandarin) comes up, hoping that that will actually send me to a human being. Hooray! It works!

So, to reconfirm your flight reservation with Air China, use the following steps:

1. Google for the number. Get it from a random person's home page.
2. Try the number. After a randomly-determined number of attempts, you will get through.
3. When the menu comes up, don't dial 1 as instructed. Instead, dial any other number.
4. When the other menu comes up in Mandarin, dial 1.

Tlacahuepan

Why not to go to Leafs games

And how they still don't like their fans

With the NHL ready to go back into full swing for this coming season, many teams are looking at how to get under the new salary cap while keeping competitive. The Leafs, however, are the exception to this. They will retain their ludicrous salaries for players over 30 while bringing in more older players. How will they do this? Well, for starters, they have decided that lower ticket prices only makes them that much more attractive to fans. And that is not going to happen because they already sell out anyways. Besides, they need to actually start acquiring young talent and finding ways to get more young talent. It's not like they have a pick in the first 3 rounds in the next 8 drafts anyways (remember how these have all been traded away for "let's do it now" players like Owen Nolan, Bryan Marchment, Bryan Leetch and so many others). Really, Maple Leafs Sports and Entertainment is not so much concerned with winning as they are with bringing in a maximal profit. Think about it. They're owned by the Teacher's pension fund. What do a bunch of Ontario high school teachers care about paying hockey players to win? They are looking for a bottom line: profit.

While the CBA does help teams like Toronto (the NHL's most lucrative team) retain its profits (they will have to share little to none of their revenues because they typically perform horribly in the post season), it will hurt teams like Calgary, which already has trouble breaking even. Not only will Calgary have to pay the

Campus Question
Why did you come to ESQ camp?

- "So I can hide in the bomber during the day under a table, then come out at night and get trashed!"

- "My parents think if I come here as an 8-year-old I'll somehow have a better shot of getting in to UW when I'm 18."

- "Both my parents work and don't really know what to do with me now that school is out. They figured this was more ethical than putting me up for adoption."

- "I came for the bitchin' t-shirts covered in corporate logos they make us wear."

- "To learn more about chemistry. I plan on building a pipe bomb by the end of August to ensure my school nevers opens back up."

- "Because it's really fun for me and 20 of my friends to utterly block a hallway for UW students. They try and get angry at us, but we're just kids and they can't. So we start spitting on them."

- "Most of the counselors are UW students, and I'm all about the College girls!"

- "My parents said it was either this, or get a job at McDonald's to help pay for "Mommy's Habit.""

Ian W. MacKinnon
*math*NEWS Editor

US$ equivalent of their salaries (as opposed to the Canadian "break" given by the NHL, in which they would pay player salaries in CAD and the NHL would pay the difference so that players get all salaries in USD), but the bulk of their playoff profits from last year will be shared with "less profitable" teams, such as those same Leafs.

The only point the players were able to salvage from this CBA is Olympic participation. Rumoured to have cost the 2006 All-Star game (that nobody watches anyways), NHL players will suit it up next year in Torino for another all-star studded set of lineups. I'm definitely more a fan of having an Olympic tournament stacked with NHL players than an NHL All-Star game where players don't go so that they "don't get injured".

Mark "Beatlemaniac"

How to have fun with a boss who has a sense of humour

Disclaimer: Serious discretion required before acting on any of these ideas. However, they are real suggestions and I know I could play (most of) these on my supervisor.

- Submit your input to the important departmental document with a false first page (or three) littered with editorial markings in bright red to make them sweat.
- When asked to blow up an item of the flowchart for the important document, return colour printout of diagram with a large fireball instead of said item.
- When told document is proprietary, look them dead in the eye and ask if it's bad that you've already quoted large portions on your public weblog.
- Slip an item in their name onto the work priority plan before long weekends that reads "pick up 24 of Blue Light." Bonus if their supervisor sees it before they do.
- Have a large pizza (bonus if it only has extra anchovies) delivered to the office in their name.
- Steal their office chair, and replace only when they've given up looking nearby and have left to find a replacement.
- Steal their office chair, and replace with armchair/couch (from break rooms, etc.).
- Steal their office chair, and replace with wooden box.
- Steal their office chair and leave ransom note (with Polaroid of chair at nearest coffee joint). Demand "Outstanding" evaluation in exchange for its safe return.
- Requires a desk somewhat distant from the boss's: play hide and go seek (conduct all business by phone and email and avoid in-person contact) for an entire business day. Bonus for an entire 5-day week.
- Write an article in *math*NEWS describing how to make their life difficult, and then leave a copy of the offending issue on their chair.

Half-pint "such an awesome work term that I haven't had to write any articles complaining…"

I like my women the way I like my CS Courses…

- **CS131:** Easy, and if you know enough, you'll skip right over 'em
- **CS134:** Simple enough to be understood by just about everyone
- **CS135:** Only of interest to the seriously brainy
- **CS240:** Not very exciting, but of great utility
- **CS246:** Boring and never quite the same twice
- **CS341:** Challenging to comprehend and difficult to score with
- **CS343:** Always doing more than one thing at a time
- **CS350:** Strong enough to separate the men from the boys
- **CS452:** Extraordinarily difficult and requiring many late nights
- **CS488:** A lot of work, but nice to look at

inkEd

Reflections on being editor

Hangin' up my editin' togs

Er, hello. My name's Eric; you might know be better as inkEd. For the last year and a term, I've been an editor of this rag. Although I don't think we were ever properly introduced (I'm fairly sure I just showed up as an editor one issue in W04), I must sadly tell you that my time here is coming to a close.

During my time as editor, some interesting things have happened. There was that whole Exam Bank debacle last Fall. Um. I put out a bounty on new articles. Um. Issues continued to be published. Um.

Okay, I admit it, I didn't do that much! To be fair, I have also been the Director of the Math Endowment Fund and the Computing Director for MathSoc during my time as Editor. Anyway, I did a whole bunch of stuff you didn't see. The internal *math*NEWS production system has been patched, fixed, and hacked into functionality. I've added a couple of new features to it, even. And I now know it better than anyone has in years. Also, I've rounded out the archives and even made two new Red Books (we bind issues in books every three years as a more permanent way of archiving — we've got every issue ever printed done up this way! Well, except for *Eclectia*. Sorry, Prabhakar.). Consequently, I've learned an awful lot of history.

So I've basically worked in silence. I've tried in this quiet way to generally raise the bar of *math*NEWS a little; I hope I succeeded. Perhaps the best testament I'll get is nothing; no one complained, which I figure is good.

I'm turning in my key, signing away my signing authority, and consigning my editor tag to the archives. Being editor's been fun, but I'm off to a different challenge now. Following in the steps of Poesy Chen and Tom Vandeloo, I'm leaving the Editor's station to run for the Presidency of MathSoc, where my plan is to quietly do the best job I can. My slogan: "MathSoc. Only better."

Even though I never had the privilege of someone doing this for me, I should introduce you to your new Editor: Jennifer "The Dirty Mathie" Smith. Jenn's in 3A Pure Math (regular), and is getting a minor in English, which makes her way more qualified than, say, me or Ian. I think Jenn's going to do a great job as Editor, although she needs an editor tag…hmm. Jenn, I dub thee "DirtyEd". Do well!

See you next winter!

Eric "inkEd" Logan
I don't get to call myself that anymore

NHL Deal Falls Through

No, this isn't a good thing

The NHLPA membership has decided to reject the "Agreement in Principle" that had been decided on as of last week. At least one high-priced free agent was quoted as saying "Why should I make less than $6M just for not wanting the $8.5M extension I was offered last year?" It is ironic that, even after the salary rollback, this player would still be making more than the approximately $6M per player cap. Basically, the reason this "deal" has fallen through is that players haven't accepted that a $3M average salary, which most players would like, is unreasonable. Especially given the NHL's current situation.

Mark "Beatlemaniac"

Molly the Frosh

Chapter 5: Curling

Molly goes curling in this chapter. Her team loses, the other offers to buy a round, but she turns it down.

Stupid publication deadlines.

Molly left the others to their drinking and merriment. With the exhilaration of the game behind her, the burden of her academic situation was once again on her mind; but with it was the firm determination that she would eventually prevail.

In fact, she determined, she would do her next calculus assignment right that night — *before* the day it was due.

She got back to her dorm, picked up her books, and went to a study room. It was quiet, and entirely deserted. Molly quickly went through the questions on the assignment. It surprised her how easy they were in the absence of distractions, and how much she actually learned by doing them. The last question was a tough one, though. She took it to Sarah, a Mathie on her floor.

"I haven't done it yet, but I think you rotate it around the y-axis, and then just integrate it," she did some calculations, "it looks like $\int tan^5x \, sec^7x \, dx$."

"Actually, wouldn't that be tan^4x?" asked Molly.

"Hmm, maybe… I don't know; I'll do what I can and just get part marks on the rest," said Sarah, with a shrug.

There was another Mathie on the floor. He lived at the end of the hall. His door was open and he was coding a CS assignment when she walked in. Except for two computers in the room — his and his roommate's, the room looked a lot like Molly's did before she moved in. The roommate wasn't there, the room was dark as a cave and the only light came from a single fluorescent tube in the Mathie's corner of the room.

He looked up, "Hello."

"Have you done the calculus assignment?"

"Oh, no, I usually do that during the tutorial before lunch," he replied, "It usually ends at least 10 minutes before the TA's go to empty the hand-in box."

"Can you help me with just this one question, though?"

"Let me see," he grabbed the text and sat on the bed. The two looked over Molly's calculations.

"It looks like you have to break it along its piecewise definition and rotate them separately," the Mathie concluded, conclusively.

"But then you end up with this, which isn't integratable," said Molly. It was the same wrong answer that Sarah had.

"Well, I can't do math at night," said the Mathie, stretching and yawning, "I think I'll just do this tomorrow like I had planned." He put down his text and picked up his toothbrush. Molly sat on his bed and tried to do math. The Mathie shoved his keys into his pocket and made body-language gestures to send away his unwanted guest. He eventually got his way.

Molly found that her burst of academic productivity was spent at this point, and resigned herself to another incomplete assignment. It suddenly seemed that passing was going to be quite difficult after all, and while resignation may have been injurious to Molly's esteem, it was nothing compared to what happened in the following chapter.

Chapter 6: The Cruel Joke

The phone rang. "Rinnnng…"

"Hello," said Molly when she picked it up.

The phone answered her with a fitful whimper. "Hic, sob… Molly, dear?"

"Mom?"

"…sniff, I'm at the hospital. It's your father."

*****

Molly's father was not available when she arrived. Her mother explained what happened.

George left the office after work earlier that afternoon, fully intending to enjoy the brisk breeze and walk home to his family. He got as far as Albert Street when he was set upon by a drunken and crazed non-negatively weighted bidirectional acyclic graph of at least three dozen nodes. The unfortunate graph had been dropped earlier that week as a theoretical model for the management process of making cheese pizzas. It was heartlessly replaced by a sleeker graph with cycles, and mercilessly thrown out on to the streets robbed of its very purpose for existence. It spent the afternoon drinking itself silly, and, when George walked by, it channeled the despair of its hopeless situation into a dramatic display of violent rage. Its sub-graphs converged on George like a forest of malice and its branches thrashed him like tentacles. Poor George stood not a chance. His beaten body was found crumpled on the sidewalk; his vital signs weak from the assault.

Molly and her mother waited deep into the night in the depressing waiting room. As unavoidably happens in stories like this, the doctor eventually came down the hall, with a solemn face, approached the greiving, and delivered the news.

*****

There were going to be two eulogies. It seemed that George had made a great many friends in his lifetime. The first was a short bald man who wore thick glasses.

"I prepared a speech," he said timidly as he flipped open his notebook. "George was a great mathematician. His contributions will never be forgot …" His droning voice trailed off past all hope of amplification. He looked up quite suddenly, flipped a few pages in his notes and introduced the next euloger.

Nothing was audible in the still cemetery save for the quiet grieving of Evelyn, the widow.

The next euloger showed off his thus far unmatched capacity for brevity.

The gathered crowd observed a further moment of silence.

The last speaker for the service was a representative for the organization of Mothers Against Drinking and Discrete mathematics. Her moving oratory was sure to convince everyone in the crowd to think twice before drinking and deriving. It's unfortunate that it takes the death of an innocent bystander to drive home the point.

*****

It was late in the afternoon when Molly crossed University Avenue and walked past the main entrance. The air was still and the sky was perfectly cloudless. The light of a million stars shone passionless and un-twinkling through the dry and motionless atmosphere. The flags of Canada, Ontario and the University drooped limply from half-mast. All the way back to the student residence, the crunching of the fresh snow under her feet sounded the steady beat of a constant requiem filling her head and drowning her consciousness. Every thought she had, of friends and family, classes and exams, all came back to her father.

She wasn't sure how she was supposed to act when she got back to the residence, or what people would say to her. It turned out nobody else on the floor knew either. Molly went to sleep that night the loneliest girl in the world.

Student Strife 101

We'll give you enough rope to hang yourself with!

So you've gone through Student Life 101 and, having been wowed by the outstanding tour of over four types of lecture halls and five kinds of computer labs, you've decided to enroll at the University of Waterloo! And why not? If you are a typical male applicant, you are sure to enjoy your next four or five years in an intensive course of study in Correcting Professors in Lecture, Playing with Toy Cars for Degree Credit, Getting Sloshed at the Bomber, or, if abstinence is your thing, perhaps an honours diploma in Co-operative Abstaining from Bathing (in both 4- and 8-stream Work/Smell periods). Don't worry ladies, there's something here for you, too! Break through the educational Pink Ceiling right here in the faculty of pink by partaking in the Women in Math program and achieving mathematical excellence. Even if you're more Ada Love-and-Lace than Ada Lovelace, a girly girl who only came for the Tie, stay to get laid: it doesn't take Statistics 230 to realize that the 3-to-1 ratio is in your favour.

So again, congratulations, and welcome to Waterloo. You have a bright future ahead of you should you choose to buckle down and study hard. Your years of study at Waterloo open doors of opportunity such as: being a cantankerous grad student, a confused CS tutor, or even a Master Comfy Dweller. While these positions are not very well-paid or prestigious, er, well, you should have gone to Laurier if you cared about those things.

Of course, if you choose to neither buckle down nor study hard, you'll want to employ the following three tools from my own field of study, Software Engineering, to ensure you at least get a degree at the end of your time here:

1. **The Pareto Principle** Also known as the 80-20 rule, this principle states that 80% of the mark can be garnered by doing only 20% of the work. As soon as you figure out which 20%, you'll be well on your way to a degree.
2. **The Gantt Chart** In software engineering, a Gantt chart indicates dependencies between submodules and components of an overarching project. and is a real pain to build. The upside is twofold: first, with a Gantt chart, you know exactly what you have to do to get the job done; second, as a UW student, your Gantt chart is always made for you each term! It's called the final exam schedule. This also relates heavily to tool one.
3. **The Anti-Singleton** The singleton is a useful concept in software engineering. It ensures that a given class can only have one instantiation. For example, it doesn't make much sense for QUEST to have multiple University objects kicking around, now does it? In undergraduate study, however, the singleton is a useless, if not dangerous, design pattern. Of much more use is the Anti-Singleton, especially when applied to Assignments, Quizzes, Midterms and Term Projects.

Again, welcome and congratulations! If you have any other questions, please feel free to visit `http://www.studentstrife101.uwaterloo.ca`

Dirty Softie

Hey Look! A *prof*QUOTE!

"This radical is an adjective, that radical is a noun."

Djokovic, PMATH 345

Much More Sex Content in Games Than Thought

Rockstar isn't the only one in trouble

Recently, word has come out that Grand Theft Auto: San Andreas discs contain a locked minigame that has some sexually explicit content (which doesn't even seem to contain any nudity). This brought about much "Save the Children" criticism from many high profile American politicians including Hillary Clinton for this game that already contains vast amounts violence, coarse language and sexual innuendo, and sex scenes that are very obviously happening, just not visible through the car or house sides and is reccomended very visibly on the cover to not be sold to anyone under the age of 17. These criticisms have brought gamers worldwide to ask questions like, "What the (we're not allowed to print this word) is wrong with these people? Honestly, the game is made for adults, not kids. What kind of irresponsible parents are buying these games for their kids?"

As a sort of public service, *math*NEWS and a team of other UW computer science students decided to do a sort of investigative report as to what other games out there contain similar locked code which could have effected the game's ESRB rating. We have for you now the surprising results of our study.

* **World of Warcraft:** Although it hasn't been implemented anywhere in the game yet, we were able to find the code for "Stormwind City Strippers", something that may or may not show up later on an adults-only server
* **Metroid Prime 2:** Not even Nintendo is immune from developers hiding all out nudity code in their games, as we definetely found a suit upgrade which allows the suit to become completely invisible, while Samus herself does not.
* **Need for Speed Underground 2:** Did contain code that had races that start with a woman flashing the drivers.
* **Dead or Alive Xtreme Beach Volleyball:** Had absolutely nothing in it. At all. Like, seriously, what the hell?

Although there were more games on the list to check, the time involved took much much too long, and so the investigation ended. If you have information on other games which contain *adult* content we suggest you get in contact with us so we can get this important information out there and "think of the children."

DanS

Shuttle launch to be delayed another 8.5 years

During continued troubleshooting of a fuel tank sensor error, more bad news has begun to plague NASA's return to operations, after the space shuttle Columbia burned up on reentry two years ago. During a system scan, it was revealed that the computer subsystem responsible for ejecting the fuel tanks was using obsolete code. Thanks to redesigns in existing parts of the shuttle's main system, the legacy code was indicated during test runs to eject every single fuel tank from the shuttle simultaneously, before the fuel is fully used. This is hypothesized to result in a dangerous crash landing from a high altitude.

At press time, sources had identified that an integer overflow is believed to be the culprit. It is projected that error correction and testing will take 8 years to complete, according to our sources. More information is not available at this time, as our reporter was motioned to leave the control room.

Richard

Harry Potter and the Half-Blood Prince

For people who can't or won't read it

So, too tired to go out and get the new Harry Potter book? Perhaps you just think that you're too old to be reading little children's books. However, now you find yourself in a situation where all your friends are talking about their favorite parts from the new book, and you find yourself losing all your friends because of it. Luckily for you *math*NEWS is here to save the day and disclose to you all the information you need to know about the new book in 1/1000th the amount of paper used.

As many readers of the series have obviously noticed, as new books come out they get more mature, to keep up with the readers who are also getting older. It's now been about 2 years since the last one was released and 8 years since the first one. As such there is a good deal of content in this book that would under most circumstances be called "Mature." The most obvious piece of this "mature" content is the scene with the characters Ron and Hermione which feels more like it should be in a harlequin romance novel as opposed to a fantasy work. Unfortunately for the characters the spell "Contraceptus Impervius" that they cast beforehand didn't work properly and Hermione ends up pregnant.

Things start turning much darker as well when Harry falls into a deep depression for some mysterious reason, only to soon be visited by the villain who just won't go away, Voldemort. The meeting has several plot twists that it can easily be said no one was expecting. First, Voldemort reveals that he is Harry's father, and that the Potters who he thought were his parents had themselves murdered his real mother and kidnapped him. Voldemore was forced to kill James and Lily Potter to try to get back his son. This story is told under the influence of a truth-telling spell, and so Harry knows he is not lying. Knowing that everything he had been told by his peers throughout life have been lies, Harry joins his real father in order to exact revenge. The two of them spend time wandering around the halls of Hogwarts in a giant blood bath before enough of the wizards are able to regroup and cause them to retreat to their new secret hideout.

The book's namesake, the Half-Blood Prince, is a new character in the book, who grew up as a "muggle" in a position of English royalty (they don't use real people in order to make the books last through time better). Harry and Voldemort track him down, and tell him all the secrets both of his innate spellcasting ability, but also about how there's this hidden society that is acting without anyone else knowing. They convince him to alert the general public, who become scared of these wizards and witches, and all decide that they want to "burn them!!!" The book ends as a war is beginning between the magical group of witches and wizards worldwide and the armed forces of many of the world's superpowers.

There you have it faithful readers: enough of the plot for the new book for you to be able to survive any sort of conversation that your friends may be having about the book.

DanS

Thinking of Getting Engaged After Graduation?

Don't

With graduation looming for us 2006 grads, a major milestone in your life is on it's way in about 9 months and change. You may feel this weird desire to get engaged to that person you've been hanging around for the past while. Don't get me wrong, that person is probably a good candidate for "the one," chances are that if you're in Math you won't be doing better than them anyway. But here are some things to consider:

- **Gifts -** Right now, and especially right after grad, all your friends are going to be dead broke. One of the biggest reasons for getting married is all the presents; the more friends you have that are broke (like you probably are), the fewer cool presents you get. The longer you hold out, and the more financially secure your friends are, the more likely they'll all go "in" on a plasma TV for you.
- **Parents -** Depending on your culture, some parents might be already putting pressure on you to settle down. However, if your parents aren't doing this yet, and you get hitched, you'll be losing a great bargaining chip with them. If you wait until your parents are nervous about never getting grandkids, you're more likely to get them to do something in return, like co-sign for a car or house.
- **Lameness -** Call this an unfair generalization, but people get a lot lamer after they're married. Really, lameness is necessary for a successful marriage, as you really don't want the person you will evertually spawn with out doing stupid things at 2 in the morning after a night of drinking. Do you really think you can get away with stealing neighbourhood garden gnomes after you're hitched?
- **You're a Dumbass -** Not you personally, but all of us in our early 20s in general. You were a dumbass when you started here, it just took you a while to figure it out. Getting your degree doesn't make the dumbassness go away, but it does help. Really, until you can say, "I wasn't a total moron 4 years ago", you shouldn't be making a big life decisions just yet.
- **You're Friends aren't Married Yet -** You'll only lose your friends once you're the only one of your friends who isn't married. So what's the hurry? If anything you'll be the outcast from your group because you're the only one who *is* engaged, especially if your partner isn't too popular with them. Although, you're friends are going to be less judgemental than your parents, so when they tell you it's about that time to get married, they're probably closer to being right.

Keep that in mind before you either ask or respond positively to "the question".

Ian W. MacKinnon
*math*NEWS Editor

Yet More *prof*QUOTES

"You [Softies] are the best and brightest in Canada…which explains why America's immigration rate is so high."

Wang, MATH 213

With $s(\mu + \tau)$ just written on the board
Student: "Where the board says 'slut', what does it actually say?"
Prof: "You guys have such dirty minds!"
Student: "You wrote it!"

Wang, MATH 213

*math***NEWS**quiz: The Last One

Welcome to the last Squiz of the summer! By now, we should know the drill, which starts with the answers to last issue's Squiz:

Not More Flying Questions!: 1) Toronto 2) Vancouver 3) Winnipeg 4) Calgary 5) Halifax **Canada Rocks!**: 1) Nickelback 2) The Barenaked Ladies 3) Great Big Sea 4) Blue Rodeo 5) Shaye **Canada Day Babies**: 1) Jamie Farr 2) Dan Aykroyd 3) Missy "Misdemeanour" Elliott 4) Liv Tyler 5) Gabriel Cade **Random Canadiana**: 1) 4 (6 is also acceptable, since her term did cover 6 months) 2) *Degrassi: The Next Generation* 3) The MacKenzie River 4) St. Pierre and Miquelon 5) Vancouver, BC. **Bonus Question**: London, Ontario

This issue we had infinitely many submissions, where infinity equals 5. We'll start with Gary Costa, who got 17 questions correct. Next was Cameron Christou, who received an 18/20. Paul Gvildys got 19/20, and Connor Warrington, who was kind enough to correct a mistake I had made in the Flying Category, scored 20/20 (sense the pattern?). This leaves us with our winners, David Jones and Charmane Zeigner, who have taken their third Squiz in a row with a 20/20 plus a point for answering the bonus question correctly! As usual, your prize is a $5 C&D gift certificate which you can pick up at the MathSoc office.

Well, since this is last issue, there's no real way to submit this week's Squiz, but feel free to see how many of these questions you can answer. Our theme this issue is "the end," fitting as we reach the end of the term, the end of *math*NEWS until September, and the end of various other things. So here are your questions:

Endings

Identify the movies from which the following scenes come. They all occur near the ending (but are not the actual endings, since that would be spoiling).
1. The protagonist brings the love of his life back to his home in Greenbow, Alabama and they get married.
2. The female lead floats on a piece of furniture while her love interest slowly dies in the freezing water.
3. The male lead returns to the title performance hall to confront his consumption-inflicted love interest, who is starring it its latest production.
4. The protagonist, a stripper/welder, performs at a ballet audition in front of a panel of judges.
5. The title character, coaching a wrestling practice, is shot by a trench-coat wearing assailant.

The End of the Alphabet

The following answers all begin with the letter "z."
1. On what item would I likely find the label "YKK?"
2. Give me a slang term which means to microwave.
3. What is the name of the anxiety and depression treating drug which has television commercials depicting an animated blob character?
4. In basketball, what is the term for the defensive formation in which each defender is responsible for covering a section of the court?
5. Name the swing hit made popular by the Cherry Poppin' Daddies.

It's the End of Term …

…finish my assignments for me. Answer the following questions, one from each course I am taking this term.
1. A planar graph has 20 vertices, 30 edges, and 12 faces. How many components does it have?
2. I have applied a Fast Fourier Transform and an Inverse Fast Fourier Transform to a vector and got a multiple of the original vector back. What is it that I likely forgot to do?
3. The temperature of a point in the unit sphere is given by $T = x^2 + y^2 + z^2$. Is the total heat flux over the surface of the sphere with respect to the outward normal positive or negative?
4. A study wants to determine how much Canadians spend on Christmas presents. What is the aspect of this problem?
5. On an xy graph, a line passes through (-2,3) and forms a triangle of area 25 with the two axes. How many such lines are there?

Odds and Ends or Just An Odd Ending?

Here is something I always wanted to try, but never really found room for in the Squiz.
1. Are there exactly three yes answers or exactly three no answers?
2. Do the first and last questions have the same answer?
3. Is "no" the answer to question 4?
4. Are there an even number of yes answers?
5. Is "yes" the answer to question 2?

I hope you enjoyed this term's Squizzes!

Squizmaster Stoken

Signs Your Line of Research isn't Worthwhile

- The cumulative amount of time saved by everyone on the planet using your new "faster" algorithm is less than the time you spent researching it.
- The name of the editor of the journal your paper got published in is "Richard Burns."
- You don't have any colleagues left since the local lifeguarding service put up that recruiting booth at the last conference.
- You've been working on it for 20 years and you're still a postdoc.
- For some reason, whenever you talk about it at cocktail parties, people are reminded of something cute their kids did at school.
- When interviewing potential grad students, they usually ask "Soooo, how close would my research need to be to yours?"
- Your responses to your NSERC funding requests usualy come back: "Dear Sir/Madam, we would like to thank you for your prank entry, it was really funny and now hanging up in the breakroom."
- The department chair casually notes that you don't NEED to credit the university anywhere in your publications.
- When applying for a private sector grant, companies tell you they calculated that buying beer and returning the bottles yielded a better return-on-investment than giving you money for research.
- Undergrads understand it

Ian W. MacKinnon
*math*NEWS Editor

GRIDXXARD

*grid*COMMENTS

Voila, a grid! There was no grid last issue, so I have no winners to announce, and there is no *grid*QUESTION, since this is the last issue of the term.

This grid brought to you by Paul Ullrich with help from Jenn Meacoe. Thanks, guys!

The solution to this grid is upside down somewhere inside.

inkEd
I'm all over this issue, aren't I?

Down

1. Mineral
2. Representation as things are
3. Tool of modern locomotion
4. To be (2nd person)
5. Without movement
6. Ignore
7. Confirm
8. Brother of Joseph
9. Frozen material
10. Interstellar clouds
11. Security company
14. Dried plants
15. Earth, sky and ____
20. Tiny
21. A deer, a female deer
22. Lingers aimlessly
23. Parliamentary member
24. Religious diviner
26. Toxic
27. Game master in D&D
28. Animate
32. Lamprey (ex.)
33. Fish type
38. Lockjaw
40. Canopy of one
41. Utterly stupid or silly
43. Virginia (abbr.)
44. Tear
45. Reflected waves
46. Overused
47. Xoxocotlan (airport code)
48. Right (abbr.)
52. Provincial police for Ontario
53. Ethernet card (ex.)
54. NSERC funded job
55. International orbiter
56. Golf tool
58. Communication between processes (abbr.)
59. Exclamation of disgust
60. Condensation

Across

1. Church instrument (pl.)
7. Female organ
12. Rise on hind legs
13. Not those
16. Perform with distinction
17. Move slowly
18. Showing interest
19. University outcome
20. Intercepted unexpectedly
22. Proceeded haltingly or unsteadily
25. Action involving (7 across)
29. Fish hawk
30. Royal servant
31. ICQ (ex.)
32. Continue similarly
34. 12th letter
35. Black suit
36. British rock band
37. Character from 1982 film
39. Company type
41. Geeky high-school club
42. Hold in high esteem
46. Orderly succession
49. Unchanging
50. LI in LIFO
51. 2005 frosh team name
54. One
57. Involving vision
58. In the same place (abbr.)
61. Scheme
62. Historical period
63. Window part
64. Examine situation
65. Avoid

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