

# math NEWS

Volume 71, Issue 1

Friday, May 17, 1996



TAYLOR  
'96

## Prez Says...

Well the term has begun and hopefully you are not too far behind. MathSoc is on the move and lots of great stuff is going on. If you are interesting in helping out with anything stop by the MathSoc office and see what's happening - we are always **LOOKING FOR VOLUNTEERS**.

If you have any comments, questions, concerns or ideas come out to the next MathSoc meeting, May 16 at 4:30 MC 4040, or stop by the Exec office (MC 3035) and chat with me personally!

See ya later,  
Rachel Nickie

lrnickie@undergrad.math.uwaterloo.ca

P.S. Here are some words of wisdom that were passed on to me: "The sooner you fall behind the more time you have to catch up."

## VP Sez

Hi! This is Kim Jack, the VP of Finance for MathSoc. I really don't have any fun and exciting news to tell you, but here's what's up...

- Red Cross is in desperate need of blood donors, especially on Fridays. We will have sign-ups, and you will be taxied (for free) in groups of 5 to the head office to donate your blood.
- You can get your \$7.50 MathSoc fee refunded. You must fill out and return the form located on the door of MC 3039 before Tuesday, May 21. I will contact you by e-mail to tell you the times you can pick up the \$7.50.
- Reminder to all clubs and directors: Your budgets should already be in to me, and the proposed budget for S96 will be ready for viewing at the MathSoc meeting on Thursday, May 23.

Anyway, that's all for now. I hope this will be a great term for everyone. Later...

Kim Jack  
VP Finance

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The Drop-Dead Gorgeous Editor: Mala "Crakko" Krishnan

## VPAS Sez

Hi, I'm Xavier Aburto and I will be your VPAS for the summer. You people are probably wondering what happened last term. Let's start at the beginning. Sarah Kamal got her wish and we did have a 300 lb. vat of tofu for president. (What the hell is he talking about? Look at mathNEWS from the Fall term.) Also, the exec last term decided that they didn't like anything so everything got changed - and now things are definitely different.

We still need volunteers for this term. Come on, you know you want to sign up for an office hour. Why? Meet interesting people, a beautiful parting gift at the end of the term (OK, I don't know what it is yet either) and, of course, the end of term party. All for just one hour a week. If an office hour is not your thing, what about the social committee; that way you can have the events that you want. Do you really love Canada Day? We need someone to help organize the math kids events.

Anyway, drop by the Exec office (across from the MathSoc office) and say "Hi." If I'm not there check the Bomber. Sometimes I can be spotted disco dancing. (I blame the Calculus Cowboy)

X-Man

## To: Class of '97 Math Grads!

Grad photos for this year's yearbook and class composite are being taken on May 29<sup>th</sup>-June 4<sup>th</sup> in Fed Hall from 9:00 A.M.-4:30 P.M. These photos are used for your yearbook and your class composite.

The other stream's photos will be taken in September and October 1996. *Final deadline* to have your photo taken will be on *December 2<sup>nd</sup>, 1996* to be on the Class of 1997 composite and yearbook.

It is of the utmost importance that you have your photo taken this summer for you to be included on the appropriate composite and yearbook, even if you wish to have another photo taken during the winter semester.

*The sitting fee is \$20.00 — this includes:*

- 1 class composite photo
- 1 8×10 group photo (of class)
- your grad portrait sitting and a set of proofs
- black and white photos for the yearbook

*Note: Jostens will be taking the grad portraits.* They have been with MathSoc for the past decade doing the grad portraits and Yearbook. They offer high quality, fair prices, a full guarantee, and professional photographers.

Please sign up for your grad photo appointment A.S.A.P. at the Math Grad Committee Office (MC 3029) on the notice board. *This is the photo that will be used for your yearbook and class composite!*

Don't Miss out!!!

Your Math Grad Committee

## lookAHEAD

mathNEWS	
May 27	Issue #2 production night 6:00pm, MathSoc (MC 3038) Submissions due at 3 pm
May 31	Issue #2 hits the stands 8:00am, mathNEWS Office (MC 3041)
June 10	Issue #3 production night 6:00pm, MathSoc (MC 3038) Submissions due at 3 pm
MGC	
May 23	MGC '97 Baseball Game and BBQ
May 29-June 4	1997 Grad Photos

## Oracle Awaits Your Questions

## MathSoc-ial

Hi, this is Jon and Tammy, your MathSoc Social directors for the summer. We're planning tons of great summer events for all of you Mathies out there, and hoping everyone will just forget about school and come out and have a blast. We're also hoping that it warms up a bit, or else we'll be having a snow demon building contest.

Anyway, we've come up with some ideas for events, but, as always, are open to suggestions from you. If you come out to the MathSoc meetings, you can let us know your ideas, or come to our Social Committee meetings (Friday afternoons at the Bomber around 1:30).

As we said, there are some events planned already: just last week we had a phenomenal BBQ in front of MC. We ran out of burgers, but will have plenty more for the rest of our summer BBQ's, which will occur about once every two weeks.

Keep your eyes open for The Great Wonderland Escape sign up sheet — soon to be posted. We will be going to Wonderland on the 10<sup>th</sup> of June — we want to get there before all those high school kids are out.

Other great events planned include a Blue Jays game (hey, they're not doing that bad...), Laser Quest trips, and the ever popular movie nights (let us know what you want to see!).

And of course no term would be complete without a mind blowing, fun filled, lots-o-prizes Math Pub Night! More to come on that (as soon as we talk to the Feds).

Well, we hope to have an eventful summer. Just remember — we need your input to plan the events you want to have, so come out to the meetings, or drop us a line, or visit us at home, or something....

TTFN (Ta Ta For Now...)

Jon and Tammy

(jsavoie@undergrad.math & tlduff@undergrad.math)

...almost forgot — CANADA DAY!! As in previous years, MathSoc is contributing to the HUGE Canada Day bash by Columbia Lake. We'll be taking care of the children's activities, and need A LOT of volunteers for the day. It's always a blast, and you get a great seat for the fireworks. More on this later....

## ActSci Happenings

To all you studying freaks...

Ahh, May, what a lovely time of year... The birds are singing, the flowers are blooming, the SOA is examining, the school is stressing, and the NHL and NBA are finishing their seasons... It doesn't really get much better than this!

This is just a short note to let you know what's going on with the ActSci club this summer. (Please note that Shawna is writing this article mere hours before her first exam this sitting, so she's, how do you say, a little stressed!?!)

Our president for the term is Chantal Bray (surprise, surprise) with Irene Haung helping her out as VP. If you need money — as if we have any — treasurer Janice Floyd is the one to see. John Lo is acting as secretary for the term and Ian Koh is helping me out with publicity. Should we have anything to tell you, our grade reps (Maya Sever, Scott Shaddick, Linda Hayden and Hrvoje Lakota) will hopefully show up in your class with the news.

As far as planned activities, look forward to a few "intellectually stimulating" speakers and some parties. Parties, did you say?! Yep, some of us do know how to party - ask David Moore about Weaver's Arms. Please mark May 24<sup>th</sup> on your calendar for an end-of-exams party (no ActSci talk will be tolerated), destination unknown right now. Check in with us for more details. We're located at MC 3030 and extension 7645.

C-YA!

Shawna Stephens

745-2222

Fischer Hallman & University



## PIZZA &amp; WINGS COMBO 606

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WITH AN ORDER OF  
10 BUFFALO WINGS

LARGE 3 TOPPING PIZZA  
WITH AN ORDER OF  
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ONLY \$20<sup>99</sup><sub>+tax</sub>



Please mention coupon when ordering and redeem to driver. No substitutions, additional toppings extra. Not valid with any other coupon or offer. Limited delivery area. Drivers carry less than \$20.00. Offer subject to expire September 30, 1996.

## mastHEAD

*It's Lonely At The Top!*

Howdy, people! It's me ... again! Yep, you've got me as an editor for a **third** straight term (fourth ever)! This time, I go solo...

Well, as the sub-heading shows, it's lonely here. I'm in a Summer term with few people and none of my really good friends are here to share this term with me. Ah, the sadness ...

Here's the list of all the selfless people who gave up a sunny evening in order to comfort me in my grief, along with their favourite reason as to why the PMC is too DAMN LOUD: Warren "The Milkman" Hagey (Warren "The Milkman" Hagey), Stephen Johnston (They have nothing better to do), Viêt-Trung Luu (they're yelling at me for not filling in my mastHEAD entry), Chad Severn (hey, yeah, me too!), Greg "Hologram" Taylor (Discussing world shaking issues [Sailor Uranus?]), Carolyn M<sup>ac</sup>Leod (The drive they (we) have to prove nothing in new ways), Andrew Archibald (What? Loud? We're not loud...), Will Chartrand (D'oh! They must be mad at me, too! I forgot my mastHEAD entry), Christopher Calzonetti (It's those heated debates about the existence of "1") and John Swan (They are probably talking about topology just to confuse all second year Stat majors like me!)

Many thanks to Domino's Pizza, once again, for giving us the delicious pizza and to Marion at Graphic Services for printing our issues. Thanks, as well, to Jim Johnston of MFCE, who acted quickly and efficiently to get the new printer system functioning for mathNEWS.

As Production Night now comes to an end, I would like to say that the mathNEWS system has been total HELL today! If Ian (Goldberg) were in town, I'd have a lynch mob after him!

And on that happy note (h-ly, I b-ly refuse to h-en my puns)  
Have a great Summer!

Mala "Crakko" Krishnan (They're mostly PM majors, right?)  
They've got too much time on their hands. Try CS!

## Co-op Comments

1. I could have made more money working for the government
2. ... I wasn't supervised every minute or anything, it was like I was actually working.
3. Work Reports are due tomorrow? I should probably start mine then.
4. I just realized ... This is my summer vacation.
5. So ... Where did you waste the last four months?
6. I don't need to submit a resumé, they'll hire me anyway.
7. I just realized, I have to apply for the same jobs I didn't want last time.
8. I don't know why they paid me for it, but it was fun.

Carolyn "Oops, I forgot my name" M<sup>ac</sup>Leod

## mathNEWS Bar-B-Q

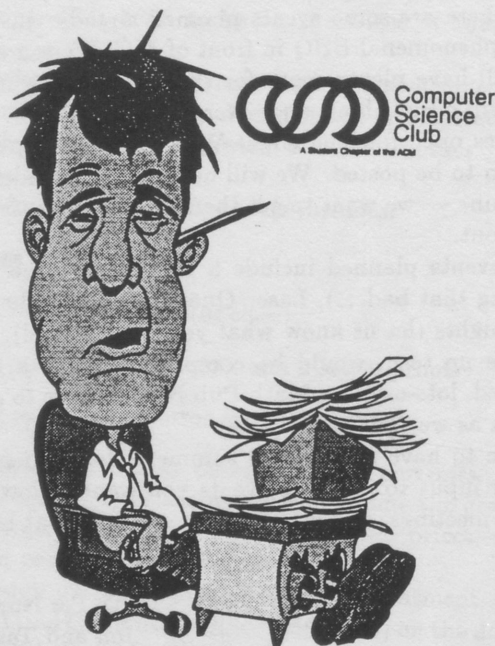
mathNEWS will be having BBQs in front of MC (towards Needles) every Thursday this summer, starting on May 23<sup>rd</sup>. Also, the MathSoc Social Committee will be providing bands for your entertainment, so come on out and support mathNEWS! Look for the posters for more information!

Warren 'The Milkman' Hagey

## The Anti-MIME Poem

Please forgive my rudeness  
For I don't mean to be that way,  
But this simple rule of kindness  
Is all I want to say.  
It may seem like a great thing  
To send articles by pine.  
If this is so, then your belief  
Is not the same as mine.  
So heed this bit of advice  
Please keep it in your head:  
To make me really happy  
Use elm or mail instead!

PLEASE DON'T SEND ARTICLES USING PINE!  
The articles go into MIME format and aren't compatible to our system!



Hey, ya' don't get  
yer stuff in on time  
and it canna be  
printed!

## At SAC We ACT!

Welcome fellow Mathies, to another term of academic and Co-operative Education rituals. It is once again time to dust off the resume, clean up those interview skills and get the interview clothes dry cleaned.

As you prepare to battle it out in a competitive student job market, take the following into consideration... Students Advising Co-op. "What's that you say...?" Fellow Mathies... Lend me your ears...

Students Advising Co-op is a group of students dedicated to improving the Co-op services. The main goal of this group is to maintain a constant, open line of communication between students, Co-op and employers. SAC will have met twice by the time you read this article, and here are some of the issues that we have decided to tackle:

1. Marketing Development Committee: NEEDED... A student is needed to commit to a one year term on the Marketing Development Committee. The Marketing Development Committee is a Co-op committee that is investigating ways to market Co-op to employers and students. Your input is greatly needed. (3 - 4 meetings / year ?)
2. Training and Development Committee: NEEDED... A student to sit on the Training and Development Committee. This is also a Co-op committee investigating methods to train on-campus staff. This position requires a one year commitment (6 meetings / year ?)
3. Job Sign-offs: Big or small issue? This has yet to be decided, but we will look into the policy regarding job sign-offs and determine if actions should be taken to improve its fairness.
4. WatPubs: Currently, in five major Co-op centres, WatPubs are run once a week. An organizer picks a bar or restaurant to meet at and announces it on a "WatPub phone line". This is a Waterloo tradition that is falling apart, and into SAC's lap.
5. Let's Go Co-op: The Federation of Students initiated informational brochures for several major cities, listing hot-spots and important numbers. SAC will update these and post them to the World Wide Web.

Many more issues will pop up during the term and we would like to hear from you! For more information, come to our next meeting on Tuesday, May 28, in NH 1029 at 5:30.

How to get a hold of us:

MathSoc SAC representative: Arnie Bose

SAC Chair: Etienne Phaneuf

SAC Assistant Chair: Graham Crate

E-mail: [sac@undergrad.math.uwaterloo.ca](mailto:sac@undergrad.math.uwaterloo.ca)

Newsgroup: [uw.coop.sac](mailto:uw.coop.sac)

Homepage:

<http://www.undergrad.math.uwaterloo.ca/~sac/>

We need your input! If you have issues that you would like to see investigated, come to the next meeting and share them with us. Given enough people, will can tackle many issues and bring them to the forefront!

Graham Crate

Assistant Chair - Communications, Students Advising Co-op

## PMC Gets the Term Rolling

Well, the Spring 96 term is under way, and the Pure Math Club is off to a roaring start. The executive for this term was elected and is as follows:

- Alex Lee - President
- Marni Mishna - Vice President
- Duane Mattos - Treasurer

You too can be part of the PMC, by stopping by and picking up your own membership for only \$2. The club membership entitles you to the use of the terminals, a discount on pop, and most of all, a wonderful atmosphere in which to avoid doing assignments (or get some help on them, if you're into that kind of thing). Even if you don't become a member, the PMC still has a lot to offer you, including interesting talks throughout the term and pop for a mere 50 cents.

So come on out and have fun with the PMC (we've got our own soccer team). Stop by the club, in MC 3033, pick up a membership, and check out the [uw.pmc](mailto:uw.pmc) newsgroup for all the latest PMC happenings.

Warren 'The Milkman' Hagey

## ultraCLASSIFIEDS

Drool Factor: I miss stalking you...

Wolf in Sheep's Clothing

## Money, Money, Money – The MEF Update

So you want to know what MEF was up to last term and will be up to this term. Read on!

Winter 1996 was a very successful term as the Fund handed out roughly \$10,000 to various groups. Over half of the money disbursed went to MFCF for improvements to the undergrad computing environment. Look for those! The details of all the projects funded are available on our most excellent web site <http://www.undergrad.math.uwaterloo.ca/~mefcom>.

This term we have a minimum of \$6,000 to spend on projects. If you would like a say in how that money is spent please e-mail [mefcom@undergrad](mailto:mefcom@undergrad) so that I can fill you in on the details. Nominations for the Funding Council close today, and forms are on the door of MC 4046. There are many seats still uncontested and on Monday these seats will be available on a first come first serve basis. The Funding Council will meet once or twice this term and decide which projects are funded. Finally, the deadline for submitting funding proposals is June 21st at 5:00pm.

If you would like more info please check out our web page or e-mail [mefcom](mailto:mefcom).

Etienne "ET" Phaneuf  
MEF Director

## MGC '97 Up and Running!

or, "Hey! Where did everybody go?"

Hi, and welcome back.

As the Math Class of 1997 enters its final year, I must say that it is very weird to think that soon we (most of us, anyway) will be leaving these hallowed halls for new adventures. Of course, this is only Spring, so I guess we have a while to celebrate!

We of MGC '97 – the Math Grad Committee – would like to entice you all with an exciting final year of fun, frolic, and pizza.

The fun started last Wednesday, when a diligent troop of Grads came out to Weaver's Arms for a night of free food, free pool, and 99 cent shooters! The pizza also started last Wednesday with this term's first MGC Pizza Day. Thanks to all who came out and supported us!

More events are up-and-coming. Keep your eyes peeled for signs, and send us your ideas!

Important Information:

1. We still need volunteers for MGC Pizza Days and office hours. We also need
  - A Merchandise Director
  - A Pink Tie Pledge Director
  - An MGC Webmaster
2. Will all Mathies planning to graduate in 1997 please email your userid to [mgc@undergrad.math](mailto:mgc@undergrad.math) with the word 'userid' as the subject.
3. Graduation photos are being taken from May 29 to June 4. Please sign up on the MGC notice board. Please note that these are the photos that will be used for your Yearbook and Class Composites. \*\* *Winter term will be too late!* \*\* So do it now!!!
4. You can contact us at:
  - Office: MC 3029
  - Phone: x6659
  - E-mail: [mgc@undergrad.math](mailto:mgc@undergrad.math)
5. Read [uw.math.mgc!](http://uw.math.mgc!)
6. Point your favourite web browser at: <http://www.undergrad.math.uwaterloo.ca/~mgc>
7. Check the door of the MGC office and the bulletin board to the left of the office door. Flyers advertising upcoming events, sign-up sheets and other grad related info will be posted.
8. MGC Softball/BBQ! Thursday, May 23, 4:30pm, tentative location is the Village Green (weather permitting) – check out the MGC door (that's MC 3029) for future details!

André Chang & Debra Richardson  
(your MGC '97 chairbeings)

## profQUOTES

"There is a method for solving these equations, and that is to type MAPLE..."

Willard, MATH 136

"Why didn't I stay in bed this morning?"

Willard, MATH 136

"... which may not be immediately obvious from the picture because, hey, this is not an art class."

Willard, MATH 136

"I don't know how to picture these things in my mind. Legally."

Willard, MATH 136

"... but I'm a nice guy. I'm on drugs also."

Willard, MATH 136

"I notice that a bunch of you are also in my 342 class at 8:30, so you'll wake up to me and go to sleep to me now."

Murty, C&O 350

"I lost my brain here for a moment."

Buss, CS 340

## mathNEWS Has a Web Page!

In case you didn't already do know, here's what it has:

- the latest issue of mathNEWS
- lots of back issues of mathNEWS — read: profQUOTES!
- other important things about mathNEWS that you may want to know
- as they say in commercials, lots, lots more...

Simply point your Web browser at <http://www.undergrad.math.uwaterloo.ca/~mathnews/>. Go check it out!

## While You Were Out...

Last term, our "official" student newspaper, Imprint, decided that it would be okay for them to start publishing cigarette ads. Despite the objections expressed by many, the Imprint staff has made every indication that they will continue to print such ads.

If you feel that tobacco advertising does not belong in Imprint for whatever reason, I invite you to contact the Imprint editors and make your opinions heard, and/or send them an even clearer message by going to the Imprint office (on the main floor of the Student Life Center) and withdrawing your voluntary Imprint contribution. (With all that money they are raking in for printing those cigarette ads, they don't really need your money anyway...)

Viêt-Tâm "< choke, choke >" Luu

## vapidFIRE

Sheila Copps, after waffling for a few days, has finally decide to keep her word in her statement from October 18<sup>th</sup>, 1993: "If the GST is not abolished, I will resign." Her resignation, revealed to the press on May 1<sup>st</sup>, follows an apology from Finance Minister Paul Martin for the Liberal's decision to keep the tax. PM Jean Chrétien, on the other hand, has declined to apologize or resign, claiming that he has kept the Red Book promise to "harmonize" the tax. Copps, MP for Hamilton East and daughter of former Hamilton mayor Victor Copps, said that one of the things that led her to decide to resign was a discussion with her father, despite the fact that he has been dead since 1988. "As well," she is reported to have added, "one other recently-deceased entity advised me to resign: Jean Chrétien's integrity."

What does the future hold for the ex-Deputy Prime Minister? Despite its \$500,000—\$600,000 price tag, Copps' resignation will be followed up by a by-election on June 17 in Hamilton East, and Copps is, indeed, running for re-election. If, somehow, she fails to regain the seat that all the polls seem to indicate is hers, rumour has it that she will then pitch her story as a CTV situation comedy called *Resigning Women*. Details were unavailable at press time.

Bob Rigma, Reform MP for Nanaimo-Cowichan (my home riding), has resigned as Reform Party whip and apologized for suggesting to the *Vancouver Sun* that if he owned a business, he might fire or move a homosexual or a member of an ethnic minority "to the back of the shop" if bigoted customers complained. Despite his insistence to the Canadian Press the next day that he regretted the furor his remarks caused but saw no reason to apologize, he flip-flopped later in the week, saying, "I apologize without reservation for the statements made and for any hurt they may have caused any person or group." This apology pertains the most, of course, to the group most hurt by his statements: the PR people responsible for trying to make the Reform Party look non-racist.

Bill Vankoughnet, Conservative MPP for Frontenac-Addington, has resigned from Mike Harris' caucus after he was arrested by Metropolitan Toronto police during a routine anti-prostitution sweep. He has been charged with communicating to obtain the services of a prostitute. (I love the name of that felony. It makes it sound like he just picked up his telephone and dialed 3-10-10-69: "Hello, Hooker Hut? Could you send me a Large Deluxe? And do you still have that 5 buck deal?") In a pre-election article, Vankoughnet described himself as a "small-town" guy who embodies honesty, integrity, and moral values. When asked of his future plans, Vankoughnet said, "There is no place for a self-contradictory guy like me in the 'Common-Sense Revolution.' Instead, I'm going to go where self-contradiction and a lack of common sense are welcome: I'm going to work for the federal Liberals to spin doctor this GST thing."

With this wave of resignations sweeping Ontario in both federal and provincial politics, the Ontario Ministry of Culture, Tourism, and Recreation has received a proposal to change their tourism slogan from "Canada: Come to the World Next Door" to "Canada: The ResigNation."

The government claims that there is no truth to the rumour that Solicitor-General Herb Gray planned to visit the problem-plagued women's prison in Edmonton until he was informed that he would not be allowed inside the facility, due to the placement on the main entrance of the facility of a "No Solicitors" sign.

Calgary socialite Dorothy Joudrie was found "not criminally responsible" for the attempted murder of her business-magnate husband Earl. With testimony from psychologists, the defence convinced the jury that Dorothy Joudrie was in a "robotic" state when she shot him six times on January 21<sup>st</sup>, 1995. This "robotic state" defense, of course, simply underlines that Real-Time (CS 452) and Artificial Intelligence (CS 486) are killer courses.

Mike "This Hammer Has 22 Minutes" Hammond

<http://www.suck.com/vacuum/>

Look quickly, suck doesn't swallow.

## Ladies' Fashion Tip #4593

*Those heels go great with those hockey gloves!!!*

Friend, Romans, countrymen, mathies, and anyone else reading this superior publication - IT'S HERE! Women's hockey is coming to Waterloo. We are en route to joining the prestigious ranks of the seven other universities with varsity women's teams across the province. Trying for as early as September, Waterloo is starting a women's team which, if the smashing success we anticipate is realized, will soon become an official varsity team. We, a once small but now not so small team of women players, are seeking your help in putting this team together.

We have the ice, we have the enthusiasm, we have (or we'll find!) the time, we have the great school to back us up, now all we need is the team!!! Although interest has been high, there is always room for more players. If you are:

- an experienced female hockey player interested in helping us pioneer a team, or
- know of an off stream experienced female hockey player that may be interested, or
- have coaching experience and would be interested in being part of the coaching staff in the fall and/or winter

then we want to hear from you!!!!

If you are here this term (S96), please email Sara - [slmannin@undergrad.math](mailto:slmannin@undergrad.math). If you will be here in F96, or are passing this info along to someone who will not be here until F96, please email Sue - [smlong@undergrad.math](mailto:smlong@undergrad.math). To access up to date info on team status, please check out my web page at <http://www.undergrad.math.uwaterloo.ca/~slmannin/>. Thanks in advance!

Sara Manning

## The "Brave" World of Lacrosse

*A View from the Statistician's Eyes*

For those who may not know me, let me have the honour of introducing myself. I am John Swan, a second year student in joint honours Statistics and Actuarial Science.

Up to this term, I did not even know that K-W had a lacrosse team. When the winter exams were finally finished, I had a rather pleasant surprise. It turned out that my sister's boyfriend was trying out for the Ontario Lacrosse Association's Junior A team, the K-W Braves. Eagerly, I told the coach Lawrie Hallman my qualifications and the rest they say is history.

May 3

Being a native of Brantford, I had seen games on television of the team from Oshwegan, the Six Nations Arrows from the OLA Seniors. But now, from the stands at the Albert McCormick Arena, I am finally exposed to the energy and the excitement that can only be provided by attending a live game. The first game of the season was against the Mississauga Tomahawks. Last season, Mississauga was 8th of eleven teams, just one place behind us, therefore we expected an exciting game. I was not disappointed. However, the pace of the game was very frantic as I was writing non-stop everything that was happening. Indeed, the stats showed after two periods, the shots on net were even, yet we trailed 7-5. Yet in the third period we managed to score 5 goals after 3 goals were scored by Mississauga, thus giving us a ten minute overtime. At 2:25 in overtime, Craig Fotopoulos scored the winning goal, giving K-W a hard fought 11-10 win.

May 6

The destination was Burlington. On the bus, I prepared the Stat Sheets (which record goals, shots on net, faceoffs, penalties, hits for and against, steals, turnovers and rebounds).

After two periods, the score was 2-2. In the third, however, the refereeing was a farce. Calls for penalties were not made (which were mostly against the Chiefs) and as a result, the Chiefs, with 5 minutes to go, scored 3 unanswered goals to receive a 7-4 victory. On the way back to Waterloo, I created the Stat Summary and promptly handed it to Lawrie Hallman.

May 10

The second home game brought us the Peterborough OMC Javelins, a rather formidable squad. For this game, I wrote rather frantically as there was plenty of action. That night, I would see K-W have a 4-3 lead in the first period and a 9-5 lead in the second period, only to see K-W blow the lead. After two early Waterloo goals, the Javelins pounced on the Braves, scoring 6 unanswered goals and with 4:30 left in the game, tied the score at 11-11. Luckily, with 1 minute to go, Josh Black scored the winning goal and help the Braves escape with a 12-11 win. I hope that this has taught the Braves not to be so lazy when they have a sizable lead.

The next article will highlight these games:

May 14 at Brampton, May 17 at Orangeville, May 22 at Whitby and May 24 vs Six Nations

John Swan, Statistician for Kitchener-Waterloo Braves

## Ren Sighting

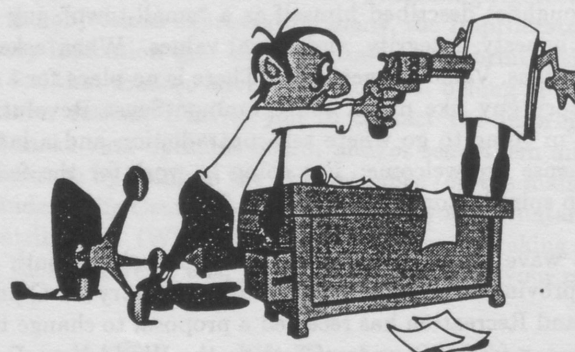
Darren 'Ren' Morby, UW graduate and frequent mathNEWS contributor, was spotted in Toronto on April 21 in a westbound 501 Queen streetcar. Darren was foolishly sporting a Toronto Maple Leafs cap, completely oblivious to the fact that they aren't any good. Wisely making use of his time, Darren perused the personals in *The Toronto Sun* and then did a very thorough 'study' of the SunShine Girl™. Unfortunately, I disembarked the vehicle before him, so I don't know his final destination, although he appeared to be heading into Mississauga.

Further updates will follow as they become available.

Warren 'The Undercover Milkman' Hagey



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E-mail [mathnews@undergrad.math](mailto:mathnews@undergrad.math)



## Toy Story: Computer Animation Goes to Infinity and Beyond...

All members of the UW campus community are invited to attend an illustrated talk by Bill Reeves, the Supervising Technical Director at Pixar, on Tuesday, May 21 at 2:30 p.m., in the Theatre of the Arts.

Bill Reeves' innovative work in computer animation has been recognized with numerous awards. Since 1980 he has worked with Lucasfilm and Pixar, where his film credits include: Star Trek II: The Wrath of Khan, Return of the Jedi, The Adventures of Andre and Wally B., Young Sherlock Holmes, Blowin' in the Wind, Flags and Waves, Luxo Jr. (1986 Academy Award nominee), Red's Dream, Tin Toy and Knick-knack. In 1988, Bill received an Academy Award for Best Animated Short Film for his work as Technical Director on Tin Toy.

Bill was Supervising Technical Director on Toy Story, a full-length feature film released by Walt Disney Pictures. Toy Story, the first feature film created entirely using computer animation, was honoured in 1995 by the Motion Picture Academy of Arts and Sciences with a special Oscar for groundbreaking innovation in film making.

Dr. Reeves (BMath '74) will receive the 1996 J.W. Graham Medal in Computing and Innovation at the Mathematics Spring Convocation on May 25, 1996. The Graham Medal was established in 1995 on the occasion of Professor Graham's retirement from UW to recognize his leadership and innovative contributions to the University of Waterloo and to the Canadian computer industry during his career as both a professor and university administrator. The medal is awarded annually to a graduate of the Faculty of Mathematics currently in business, government or education who exemplifies many of the qualities shown by Wes Graham during his career.

## mathNEWS Missing Something?

*Yes! Your Article! Write for mathNEWS!*

## Now Playing

Here's my first movie review of the term.

### *Twister*

Have you ever wondered how a tornado works? That's the question that drives tornado researchers Jo and Bill Harding (Helen Hunt and Bill Paxton) in this exciting flick. Intense action is ever present as tornadoes are shown up close with amazing visual and sound effects. The movie has a good story too, as Bill and Jo consider their relationship and compete with rival researcher Jonas (Cary Elwes). If you're looking for excitement, *Twister* is a real treat for the senses, especially if you can see it in a theatre with a big screen and good sound system.

\*\*\*\*  $\frac{1}{2}$

Warren 'The Movie Milkman' Hagey

## mathNEWSquiz #1

*The Puns Are On Vacation*

Hi there, it's the first squiz of the new term. It's also the first squiz we've written. Oh boy. (See us sweat a bit)

Anyhow, welcome to the coming semester, and here's our first squiz to get you through your 8:30s ...

### *Song Lyrics*

*Name the Title and Artist*

1. But touch my tears with your lips  
Touch my world with your fingertips  
And we can have forever ...
2. Moses went walking with the staff of wood.  
Newton got beamed by the apple good.  
Egypt was troubled by the horrible asp.  
Mister Charles Darwin had the gall to ask.
3. I'm very good at integral and differential calculus  
I know the scientific names beings animalculus  
In short in matters vegetable, animal and mineral...

### *Scary Waterloo Courses*

*Give the course number*

1. Methods of estimation for the distribution of the size of a single loss. Mixing and parameter uncertainty. Deductibles and other applications. Credibility theory.
2. Problems from the following areas are discussed in this light: sorting and order statistics, data structures, arithmetic computations, the NP-complete problems.
3. Metric spaces, compactness, completeness, continuity, convergence, integration, function spaces.

### *Old TV (at least 80's...)*

1. What was the secret identity of the greatest American Hero in "The Greatest American Hero?"
2. In Knight Rider, what does KITT stand for?
3. What are the names of Inspector Gadget's dog and niece?

### *Capital Cities*

*Give the country with this capital*

1. Bucharest
2. Vilnius
3. Tirane
4. Amman

Submit entries to the mathNEWS box or e-mail them to [gbtaylor@undergrad.math](mailto:gbtaylor@undergrad.math) or [chmacleo@undergrad.math](mailto:chmacleo@undergrad.math) before 3pm on Monday 27 May. The more submissions we get, the better the MathSoc prize the winner gets [Umm... no, not quite, but do submit your answers! — CrakkoEd]

Carolyn & Greg

## gridCOMMENTS

Gridby is taking a break this summer, so here is a conventional crossword puzzle for you to try. The person/people to submit a correct solution (that means one that matches our solution) will win a coupon for the C & D. Solutions can be submitted to the BLACK BOX and must be in by Monday, May 27, 1996 at 3 pm.

A couple of comments about this crossword: 8-Down is not a real word, but is a word with a certain prefix added to it. Don't take any clue with a question mark attached seriously. Finally, I completely made up the word for 19-Across. (Nothing else would fit... really.) 19-Across is "BIGFC". If you come up with a great acronym for "BIGFC", then get some white-out, erase my clue, and put that in its place.

CAS

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56						57					58			
59						60					61			

### Grid Clues

Across

1. Break into a computer
5. Brown bird
9. Computer language
14. Godzilla foe
15. Detest
16. "Skating at \_\_\_\_" (2 wds)
17. Not less
18. Repeated noise
19. I know "BigFC" isn't a word, but I was stuck
20. Gambling term
21. Noted LA crowd feature
22. WWW search engine
23. Nickname for U of W building
25. Molson Canadian slogan
26. Students' favorite day (Abbr.)
29. Printers that U of W computer store doesn't carry
33. Places where actors' reps are
35. Software company

36. American TV network
37. A type of exam
38. Usually found in a computer program
39. Humorous puzzle
40. Letter after ell
41. Engine noise
42. Three-dimensional shape with 12 sides
48. Take another drink
51. Not on time
52. Steak order
53. Relating to sheep
54. Jane Austin novel
55. Recedes
56. Edmonton hockey player
57. Chair
58. Half of "Two Bits"? (2 wds)
59. Not fauna
60. Male children
61. Gloves

Down

1. Homo sapien
2. Culkin movie: "Home \_\_\_\_"
3. Phrase: "A la \_\_\_\_"
4. Kicked in the groin
5. Standard clause
6. Type of bigotry
7. Distinguishing characteristic
8. Slang: New bullies
9. TV Show with G'Kar and Londo
10. Disney character
11. Bored noise
12. Data
13. Local TV station
24. A one-story musical?
26. Search for
27. Not imaginary
28. Small island
29. Tunnel
30. Coleco computer
31. Character from Cheers
32. First name of Star Wars character
33. He's honest
34. Movie: "El \_\_\_\_"
36. Alicia Silverstone movie
39. Microwaves do this
41. Batman's grounded cousin?
42. Tarantino films usually start in one
43. Brief walk-on appearance
44. Sleeping vision
45. Jewish religious leader
46. Path of a planet
47. Loops and birds are in these
48. That thing over your head
49. Bad
50. Farm food storage