

math

NEWS

Volume 101, Issue 3

Friday, June 2nd, 2006



**Shirts? Shoes?
Service?
Not without your MathSoc fee**



lookAHEAD**mathNEWS**

June 16	Issue #3 takes the field
June 26	Production Night #4 6:30PM, MathSoc (MC3038) All welcome!
June 30	Issue #4 gets a tan

Math Faculty

June 16	Last day for 50% tuition refund
June 23	Drop, penalty 1 (WD) period ends
July 3	University holiday
July 25	Lectures end
July 31	Exams begin
August 12	Exams end
August 13	Unofficial grades released

MathSoc

June	C&D BBQs, T/Th
Thursdays	Movie Nights

CECS

Daily	Job postings available
June	Workshops
August 4	Last day of on-campus interviews

Student Awards & Financial Aid

July 12	Confirmation of Enrollment deadline
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Misc

July 1	Canada Day
August 7	Civic Holiday

mastHEAD*Chock-full of heady goodness*

I wish I could be funny right now, but frankly, between software design and architectures, and networking midterm, I'm out of sleep. Mostly, the architectures thing. I've spent more time on that one project than I have on EVERY SINGLE OTHER COURSE I'VE TAKEN.

But enough about my problems, here's the part you're really interested in: we asked our production staff, "What do you want to smash with a giant sledgehammer?" Rain Water (STAT TAs that don't speak english); Half-pint (my midterm schedule), HWT (Damon Lindelof), Juggernaut (I don't need a sledgehammer - I'M THE JUGGERNAUT, BITCH!), D1ZZle.OWNSZ (That smart-mouthed dumpster behind campus pizza *Shakes fist*), DanS (Some anti-matter), 42 (Children's happiness), theMAINwoman (My laptop. It's old, senile, and trying to disown me), Angelo (Snakes on a plane), Mike (Hee ho!) Q.Steve (Bacon- flavored fudge-o's), Math.random() (all that is pure and good)

SheepNinEd (An abstract concept)
StatsEd (not SheepNinEd, despite everything)

Censorship*How much is too much?*

Given the limited distribution of our fine *mathNEWS* publication, most of you have probably seen the Stats Club Posters that were up close to the start of term. These posters were provocative, funny, and at the very least grabbed my attention (in a positive manner). It would appear however, that not everyone appreciated, shall we say the classiness of these posters. Someone, or some group of people, apparently took offense to these extremely classy posters and complained at some level or another. This resulted in the Stats Club being asked to remove these posters and it is my understanding that some other restrictions may have resulted. Now, while these posters were a touch on the cheeky side, I don't believe they crossed the line to which they should have been required to be removed. The decision to force the removal of the posters was taken unilaterally by MathSoc. This saddens me as a Mathy; are we really so up tight as to require to removal of classy posters such as these?

For those of you that know me, this matter goes further than just these posters. I hold the freedom of expression in very high regard.

One of my preferred words of parting (to people that I know or do not know) is something along the lines of best of luck with the ladies/gentlemen. Will I still be able to say this? In the CSC Unix tutorials, will I be able to let people know the awesome power that unix provides in picking up ladies/gentlemen? How will I let the world know that I am the sexy pirate? We are in the Faculty of Math; how politically correct do we need to be?

In summary, the actions made by the Mathematics Society saddens me as a math student. That and its been way too long since I ranted, I'm really surprised you managed to read this far, you deserve one of the stale C&D cookies that are sometimes free on Fridays when they put them out.

Cheers,

Pantsd

Important Note: I don't speak on behalf of anyone and may deny having written this.

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The editor(s): Chris and Emerald

Prez Sez

Hey everyone! This is just a quick hello to let you know that I'm still here, still working, and still available to lend a hand — whether it's an academic project, a cool event idea, or just something you need to vent about. Some of my goals for the term are finally being brought to bear, so hopefully there'll be some highly visible activity out of my office in the next little while. I'm not being secretive; I just don't want to steal any thunder from the changes themselves. Anyway, watch for them, and if you really need to know what's happening, stop by my office: MC3039 MWF 9:30-11:30, or by appointment. C'mon, you know you want to. The couch in there is more clean AND more comfortable than those in the Comfy. Really, it is.

Leander Quiring
MathSoc President S06

VPAS says...

I'm putting mathNEWS before my homework

Hey all. Here's the run-down:

The term is seriously underway. We're hosting social events left, right, and center, it's becoming difficult to book rooms because of midterms, and people are starting to smell.

Keep your eyes peeled for **free movie nights Thursdays, a bowl-night coming very soon, and plenty of volunteer opportunities to spruce up your resume** in time for the continuous phase.

Here's a run-down of the volunteer opportunities currently accepting sign-ups on the door of MC 3038.

- Canada Day is July 1st and celebrates Canada becoming a (more) independent country from Britain in 1867. The University throws the party for the whole city. Last year, we had 60000 people at CIF at *our* party. MathSoc always runs an activity area for the littlest kids and we need your help to entertain them for the afternoon. **If you like Canada, water guns, and kids, you should sign up and earn a free meal for your time.**
- Student Life 101 is a welcoming weekend for “pre-frosh” (a.k.a. accepted students who will start this fall) to (hopefully) answer their and their parents' questions and settle their minds. We also feed them at a BBQ run by the student societies to show kids and their parents how much fun we have coming into school on a Saturday. This year, the party is on July 22. **Come on out, serve food, answer question, and earn lunch.**
- The orientation committee is sending out a **last call for frosh leaders**. If you are interested in participating (and it is 10+ times more fun to be a leader than a first year), then please apply ASAP by filling out an application available outside the MathSoc office and dropping it off at the orientation office. Time is running out!

That's all she wrote. Enjoy your midterms... yeah right.

Kaitlyn Holman
MathSoc VPAS
Spring 2006

Office Update

It is now midterm season. I would like to take this time to remind you that the MathSoc office offers many services that prove useful during this part of the semester.

We have two photocopiers where for only 5 cents per page you can copy many pages of lecture or tutorial notes that you may have missed.

We sell pink tie calculators! We sell two different models. One of the models is the model that was once upon a time given in exchange for the Math Readiness Test in first year. The other model, which is slightly more pricey, is very useful for students in Actuarial Science as it is approved for use on the SOA exams.

We also have a hard copy exam bank which might give you some idea of the structure of your upcoming midterm or some possible questions that might appear on your midterm. Come check it out!

Hopefully this helps you prepare for your midterms and good luck!

Nicole LeBlanc
1/3 Spring 2006 Office Manager

Re:Boobs!!

Hi, we're Natalie and Heather, the girls who wrote, “Boobs!! A user's guide to breasts” (an article that appeared in the last issue of *mathNEWS*). We've been made aware that our article may have offended some of our readers. Being two girls in math, we felt that our article would aid the partners of our fellow women in approaching the female body with greater understanding and respect. We felt that, as students in university, dialogue about sex can help promote healthy sex lives among our fellow students. We recognize that some people may feel uncomfortable reading about these things, and we apologize if we offended anybody.

If anyone has any further comments, questions or concerns feel free to send us an e-mail at h2perry@uwaterloo.ca or natalielowen@gmail.com or, if you prefer anonymity, you can drop a message to us in the **BLACK BOX** on the third floor of the MC between the comfy and the C&D, and we'll get it. *[You're also always welcome to send comments and opinions to the editors at mathnews@student.math.uwaterloo.ca — StatsEd, a.k.a. Emerald]*

Heather Perry (aka RainWater) and
Natalie Owen (aka Math.random())

Summer Midterm Blues

Sung to the tune of 'Summertime Blues'

Gonna be up all night, yes, I'm gonna get the shakes now;
Doing tedious math problems with a total lack of breaks now.
Lin Alg, and Calulus, they ain't too much fun!
[Prof's Voice] Sorry mathie bud, But you gotta pass them, son.
Sometimes I wonder, what I'm gonna do;
Cuz there ain't no cure for the Summer Midterm blues.

DiZz1e.OWNSZ



MEF Update

The Mathematics Endowment Fund (MEF) finances projects which are beneficial to undergraduate math students. Each term, a refundable amount of \$31.42 (10 pi) is collected from each student, is added to our principal of over \$2.5 million, and then the interest on this principal is spent.

In the past, MEF has funded travel to conferences, resources for student clubs, computing equipment, course-specific resources, start-up funding for various student initiatives, and much more. A full list of projects funded by MEF is available on our website.

Funding Council

This term, MEF has about \$40,000 allocated for spending. If you want to help decide where this money goes, you should join funding council. The time commitment is minimal (one or two meetings per term) and all you have to do is fill out a nomination form in order to join (available on the website and outside the MEF office). Send me an email if you have any questions.

Funding Requests

Requests for MEF funding can be made by **anyone**, as long as the request itself will benefit undergraduate math students (the request form is also available on our website and outside of the office). If you have an idea for funding (or know someone who might), send me an email or drop by the office and I would be happy to discuss the details with you.

The deadline for funding council nominations and funding requests is **Friday June 23rd**.

Terry Anderson
MEF Director F05/S06, Office: MC 3050
mefcom@student.math.uwaterloo.ca
www.mef.uwaterloo.ca

Birth Control

Think about it before you need it

In an age where sex is becoming more mainstream, it is important to be informed about protection from pregnancy and STIs. It is the responsibility of all parties involved to ensure that you are properly prepared. Part of that means using a safe and effective method of birth control.

There are two main categories of birth control: prophylactics and oral contraceptives.

Prophylactics (physical barriers) will not only guard against pregnancy, but also help protect against infections. They are a wise choice to preserve the spontaneity of the moment. Prophylactics include dental dams (which are a sheet of plastic, usually latex, that can be used to protect against STI's during oral sex), and condoms. As they are used once, are applied at time, and disposed of after, prophylactics are a good choice if you're worried about preserving (or if you're caught up in) the spontaneity of the moment. An impromptu dental dam can be made from a condom by cutting off the closed end and cutting lengthwise up one side of the resulting tube.

Oral contraceptives are for those who wish to plan ahead. They do not protect against STI's, so using them in conjunction with prophylactics is wise if you are with a new partner. You can find out more information about the plethora of different pills, patches and injections available from your doctor (or the people here on campus over at Health Services).

There are many other types of birth control out there: Spermicides, which effectively kill a man's sperm; diaphragms and sponges, which are inserted into a woman's vagina before intercourse to block a man's sperm from entering her uterus; intrauterine devices that are inserted into a woman's uterus by her doctor and prevent a fertilized eggs from implanting (though these are normally only recommended to women who have previously given birth); and the ring, which is a device that sits in a woman's vagina and secretes hormones. And that's just a few of the many products available to us nowadays.

With all the options available, there is really no excuse to not be prepared and safe in your sexual encounters. Talk to your doctor, talk to your don, go to health services. These are just a few places where you can get contraception or more information about it.

RainWater and Math.random()

Rejected Reasons Why Google Should Come to UW

Reasons may still be good enough for RIM

As some of you may be aware, recently a video featuring several mathies was produced to attempt to convince the founders of Google to come to UW. The theme of the video was a "Top Ten" list (a la Letterman) of reasons why the Google founders should indeed come and give a talk to the UW student body. Here are some of the reasons that *didn't* make the final edit of the video:

- Quantum computers suck, but we have one... sort of...
- We'll *REALLY* feed you goose for dinner.
- We're the only university in North America to call a group of students a "Gaggle"
- UW: Come for the Cheese Club, stay for the ethnic diver-

sity.

- Nobody was *really* paying attention to Bill Gates' talk, but we promise that won't happen with you.
- Google's last visit featured a generous donation of t-shirts that went to clothe hundreds of starving CS majors.
- Future Google employees should get to meet their "non-evil" dark overlords.
- We're the Juggernaut, Bitch!

I hope these extra reasons make Google want to come to UW just that much more, I know they make me want to!

DiZz1e.OWNSZ

Hitting the Snooze Button on Your Biological Clock

An article for the immature-challenged

This article is for the young mathies and mathettes who can't leave the house without seeing bundles of joy at every turn. If you've ever had the feeling when you go to the mall that everywhere you look there are pregnant women and babies, and you start to draft a name list for when you do get to make little mathites, I can sympathize.

I don't believe that there's an *age* at which it's suddenly right for two people to decide to make a tiny person. I think it's all in relation to where you are in a life plan.

Consider Couple A. Both partners graduate from high school. Partner a_1 goes on to earn a college degree and enter a trade by age 20. Say partner b_2 either goes to school as well or works to save up some cash. It's possible that by age 25 this happy couple can be settled with an owned home and two kids.

Compare that with Couple B. Both members of Couple B go to a university for a 4-year degree. After the undergrad degree, partner b_1 goes to grad school and earns a master's degree while partner b_2 works for those 2 years to save up money against the student loans. After b_1 graduates, Couple B relocates so that b_1 can find a job matching his or her skill set. By now, Couple B are probably 25 years old and are lucky if they've worked off their debt. If they had gotten hitched and had children earlier, they would have had to put off their plans.

These are two polar examples, slightly exaggerated to back up this statement: if you want to stick to a life plan that puts off having children for several years, then make sure you do put it off (check out the article elsewhere in this issue concerning birth control). However, if you and your partner are in a financial and "life-plan" place where you feel secure and ready, age shouldn't be a factor.

Here are some tips I've picked up the last few weeks through talking to people about *my* life plan and whining that it's too long to wait through.

- Seriously consider what correct or incorrect details your children might fill in when they do the math and realize you had them before you finished your educations

- You *are* only young once. From the day that baby comes home, you will live a life unlike anything you've ever experienced, around every-three-hour feedings, diaper changes, and someone literally depending on you *24 hours a day*. Sure, we may feel like it's worth it, but is it worth changing plans to experience now instead of later?
- Money is good. Consider taking a year to work to put some money away. It could help cover emergencies, or even just provide you with a nest egg for a needed vacation or luxury amenity.
- If you are both career oriented people, the longer you spend at a job before you get pregnant, the more security you will have if/when you take parenting leave. By law, between the mom and dad, employees must provide 12 months of leave. Check out while job searching if/how much your leave is paid and unpaid, and if other benefits will extend to new members of your family.
- Do things you can't do as a parent. Go out. Stay out. Travel. Spent an entire weekend in bed (see article on birth control).
- Eat, drink, and be merry. There's such a thing as acceptable use of junk food, alcohol, and partying in moderation. NOT SO WHEN YOU'RE EXPECTING and usually not while you're parenting a young child. You may think that I'm only writing to the women with that, but men, you'll need to set an example and not make your partner jealous of your looser lifestyle.

Those are my two cents. I know I can't speak to everyone, but maybe I've helped someone sort out the strange and disruptive feelings they're having as their body gets older but they feel like they'll never be really ready to move ahead with plans.

If you think this is a bad, inappropriate (cause it's mathNEWS, not baby news, or simply space-wasting, then come out to production night and do better. I'm just speaking my mind cause we're trying to fill an entire issue.

Half-pint
wanting a quarter-pint

Worst Sin Ever, Committed!

The peaceful community of Waterloo was thrown in turmoil yesterday after a University of Waterloo student was found committing *the ultimate sin*: eating in a computer lab.

Police responded to an anonymous call at 5:44 PM with four police cruisers. Led by a pack of police dogs, the officers barged into the 3rd floor Unix lab to find the student (name withheld) watching porn and downloading music and movies. They then turned to find another student (name also withheld) working on their SE2 assignment and eating from a bag of skittles, and sicced the dogs on the student, leading to severe lacerations and bite marks.

After being hauled to the police station and given a lengthy interrogation, with intermittent blasts from a fire hose, the student was convicted without trial to Law #1: Eating in a Computer Lab, and sentenced to life in Canada's toughest maximum security prison.

Computer rights activists are currently looking to get the student deported to China, or one of those other countries. You know, the ones with the frequent canings.

"That student is the worst human being alive, if you can even call him that," said one bystander. "I mean, eating in front of a *computer!* Even Hitler never did that!"

"AAAAAH! My open sores!" screamed the student, between dunkings in a bucket and scorpion stings, like that intro scene to that Bond movie that had Halle Berry.

In other news, the CSCF has recently merged with the RIAA, and adopted their hardline stances. RIAA is excited about the merger, saying that through them they intend to extend their tight-ass campaign to computers, specifically, computer violence. Which everyone founds okay.

SheepNine

profQUOTES

Your rule of thumb is: don't do anything clever until you have to.

P. Marriot CM361

In the back of my head, I know, because I wrote the course notes, that I'll be interested in Monte Carlo integration.

P. Marriot, CM361

Nobody goes to Arkansas willingly, they just get lost there.

Smith ECON102

That's the precipice into which we will hurl ourselves. Better make sure there's plenty of padding at the bottom.

McKinnon PMATH345

This is one of the two common definitions of a noetherian ring. In my opinion, the other one is more stupid.

McKinnon PMATH345

You know you've arrived in mathematics when the thing they've named after you is no longer capitalized.

McKinnon PMATH345

The units will be taken care of by this part, and the permutation will be taken care of by not being stupid.

McKinnon PMATH345

Are there any questions about why we care to prove this theorem? (Nobody responds) Good, that shows a level of trust.

McKinnon PMATH345

Canada's leading coefficients recommend the Hilbert Basis Theorem.

McKinnon PMATH345

I'm not saying x_1 is bigger than x_2 , I'm saying it's morally superior to x_2 . The first x is like the Dalai Lama of the variables.

McKinnon PMATH345

In long division, unlike in life, there really is a lowest you can go.

McKinnon PMATH345

We want these to go down in morality, not up... which is a bit perverse if you think about it.

McKinnon PMATH345

Evaluation criteria could be marks on an exam, general success in life, or basic capacity for not going to Hell.

McKinnon PMATH345

So I've just won Dickson's Lemma for nothing, where by "nothing" I mean "the proof of this theorem".

McKinnon PMATH345

Here's a proposition for you. Completely legal, I assure you.

McKinnon PMATH345

The ideal $\{0\}$ doesn't really have you Grobner basis. To that, I can only sigh.

McKinnon PMATH345

I know that you've been treated badly in calculus. It's an abusive course.

Dickey PMATH360

(Prof writes on board) Proof too long, I'll give you a handout. (The classes never actually got a handout)

Lanson AM342/CM352

This is how we do it in France.

Lanson AM342/CM352

(Continuously breaking chalk while trying to write lecture notes on chalkboard) Apparently, I have some anger in me. I need to see a therapist or something.

Mu Zu STAT231

(Finishes question) It's a vector space... wait, it's not closed under multiplication... Well, it's damn close to a vector space... I'm such a moron.

Hoffman MATH136

This formula is pretty cool as far as math formulas go.

Siegel AMATH351

And your boss is going to ask you "Why?" Why? Well, because you failed STAT 231.

Zhu STAT231

As they say, "woot"

McKinnon PMATH345

In any well behaved ring, one you wouldn't mind your daughter being seen with...

McKinnon PMATH345

When last we left our intrepid heroes, they were poised on the edge of a precipice, about to prove the Eisenstein Criterion!

McKinnon PMATH345

in response to a student question Yeah. I guess. Sorta. Does that answer your question?

McKinnon PMATH345

In long division, unlike real life, there really is a lowest you can go.

McKinnon PMATH345

It's the bees knees! ... Nothing like using a 70 year old expression... yup... I'm hip.

McKinnon PMATH345

Writes on board — Proof: Hard. QED Remember, when we write QED it doesn't mean we've proven anything... just that we're done with the theorem.

McKinnon PMATH345

I'm getting bored.

New PMATH340

Student: The midterm is on a *Friday*?!
Prof: Yup... BYOB.

New PMATH340

More *prof*QUOTES

Of course, after next class, you'll know how to frame an excuse so it'll work. Kind of defeating myself there.

Ennis PSYCH253

I feel like eating a desk... I'm going to take my clothes off... I'm going to spit on the person in front of me.

Ennis PSYCH253

[Puts up overhead screen, behind it, the board says "3:30-4:30"] So I'm having sex from 3:30 to 4:30. [Pause] Strike that from the record.

Ennis PSYCH253

Next class we're getting into relationships, so don't start any!

Ennis PSYCH253

Are there gender differences? Yes, there are some biological differences... that make it a much better world.

Ennis PSYCH253

Typically, if you're accepted to UW, you're accepted at 6-8 of the lesser ones.

Ennis PSYCH253

Watch George Bush... I don't think this guy even knows there's more than one box.

Ennis PSYCH253

Now, you're sitting here wishing evil on all your fellow students... awful!

Ennis PSYCH253

However, if you find that other P in the same E also got a D... anybody got some rap music?

Ennis PSYCH253

How many times have I made mistakes today, babbling away saying the wrong thing?

Ennis PSYCH253

Other animals moo. A moose moos, I think.

Van Beek CS245

Mathematicians have a way of taking words that you know, like 'model' and turning them into something different.

Van Beek CS245

When I was in British Columbia, after every type of rain imaginable, people would flock to the fields... now, these were mushrooms that you couldn't get at Zehrs, mind you.

Van Beek CS245

Instead of attempting to rescue this, let me write down the proof I have on my sheet.

Van Beek CS245

In fact, I think the number of books in Waterloo is the lowest in Ontario.

Zhu STAT231

... and of course, being a poor professor, I can't donate much.

Zhu STAT231

Bomb Plot Discovered on Campus

Today, Campus Police announced the arrests of 21 Environmental Studies students, and one faculty member, for an alleged terrorist plot to blow up the MC. Campus Police were tipped off for the plot after they noticed a delivery of one tonne of fertilizer made to campus. The alleged plot was to destroy the MC or other UWaterloo landmarks in an attempt to send a message to the administration that we have too many buildings on campus now.

The group was put under surveillance and it was discovered that they would meet regularly two times a week, once on Tuesdays, and once on Thursdays at roughly the same time on both those days. The group was also using an advanced code to try to throw off any bystanders trying to determine their plot. Each one of the students was given a portion of the fertilizer and instructed to make a bomb, what they called a "project." Campus Police decoded other words too, such as "seed", which meant "detonator", and "water", which meant the last component needed to make a fertilizer bomb, one which we're not going to describe because for some reason telling people how to make bombs is usually regarded as a bad move. They had clay pots in which to assemble the bombs. At the time of the arrest, Campus Police were unable to find any of the materials other than the pots and the fertilizer, but instead only found some piles of dirt, jugs of water and packets of carrot seeds.

The University of Waterloo has found itself under criticism from its closest neighbour, Wilfred Laurier, after many members of Laurier's administration decided that UW was not doing enough to prevent terrorist attacks on both Waterloo's campus and Laurier's. Responding to this, UW's president said, "We caught the guys, what else do you want us to do, start implementing our own system of taking attendance in our classes? Come to think of it, why is it our job to stop anything happening to you, why don't you actually try doing something sometime?"

DanS

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Across

1. Descry
5. Passage of time
10. Border on
14. Molten rocks
15. Hello, in Honolulu
16. Challenge
17. ___ Guinness
18. Sheep noise
19. "Do it or ___!"
20. Sinking city
22. Actor or actress
24. Soft rock
26. "Am ___!"
27. Refute
30. Not her
33. Tree type
37. Affirm
38. Over 60
40. Bruce or Stan
41. Tom Coleman, e.g.
42. Not coupe
43. Panacea
44. Corporate abbr.
45. Cherry, in Paris
46. Within
47. Additional
49. Sweet potato
50. Monastery
51. Lightly apply paint
53. Operatic solo
55. Massacre
60. Signs or indicators
64. Mecca resident
65. Mythological woman
67. Send out
68. Pickle flavour
69. Epic Greek poem
70. Fork prong
71. Apex
72. Wary
73. Halt

Down

1. Eastern European person
2. Whitish
3. Bakery necessity
4. Untalkative
5. Identification mark
6. Everyone
7. Master of verse
8. Desert monarch
9. Consumed
10. Skilled people

11. Indonesian island
12. ___ Major, the Big Dipper
13. Adolescent
21. Feline
23. Fly high
25. Jovial
27. War of the Worlds medium
28. Occurrence
29. Come ashore
31. Bollywood location
32. Noxious atmosphere
34. ___ bob (not sponge)
35. Creepy
36. Impoverished
38. Just east of directly south (abbr.)
39. Loneliest number?
43. Nightclubs
45. Pack full
48. Comestible
50. Balloon contents
52. Purple herb
54. Horny (slang)
55. Father, to a tot
56. Monty Python star ___ Idle
57. Serene
58. Piece together
59. Cleveland lake
61. Exclude
62. Drunk
63. Walk
66. ___ rings or ___ buds

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