

math NEWS

Volume 81, Issue 2

Friday, October 8, 1999

Look out, it's

POLKAMON

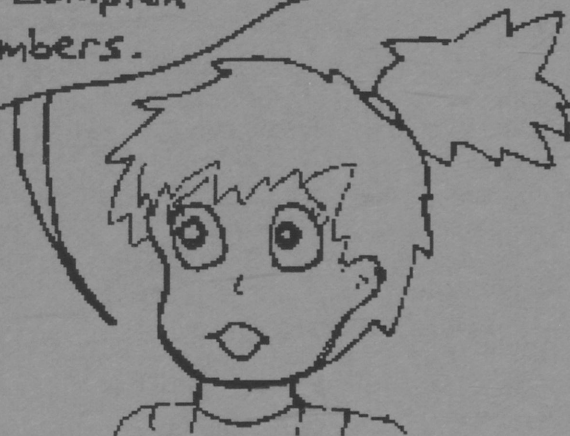
WANNA CATCH 'EM ALL?

I'd rather be
in STAT 231.



So... do you actually
have eyes?

Only when using quaternions
or complex
numbers.



Prez Sez

So you see, if you take epsilon and delta <beep> <beep> <beep> Stop the insanity, read Prez Sez.

Hey everybody, how are ya all doing? I hope everybody is very excited about the upcoming Charity Ball (November 6th). There is more information about it in different articles, I'm just doing a senseless plug.

When the last production night passed we didn't have a Vice-President, Finances, and by the time nominations closed it was too late to get it into the last issue, so I'll tell you know. Edward Chiang is our new VPF (please keep your cheers and applause at a minimum, others are trying to study amid all the hooplah). So if you have any questions of a financial nature and you come and ask us we will point at Eddie and smile.

A couple things of note happened at the last Faculty Council meeting so I'm going to tell you about them. The student study rooms on the 4th floor have been converted into office space. We have been assured that the loss of study space is, hopefully, a temporary situation as it is hoped that another building will be constructed. Faculty Council passed the Honours Business Administration and Mathematics Double Degree Program that would basically grant a BBA from WLU and a BMath from UW based on 52 courses over 10 academic terms. More information on this new program will be posted on the Academics board across from the C&D. Any questions about it can be routed through Trevor Ray, our styling rhyming VPA. There were also significant changes to the CS minor program and the Inter-Departmental Program (to be renamed the Mathematical Sciences Program), which can also be found on the Academics board.

Nominations are now open for the following Class Rep positions: Actuarial Science, Applied Mathematics, Combinatorics and Optimization, Accounting/Math Business, Computer Science, Math General, Math Interdepartmental (year 3/4), Math Teaching Option, Pure Mathematics, Statistics, Operations Research, Officially Undeclared (2A term or above), First Year at-large.

Nomination forms are available outside the MathSoc Office. Nominations close on Monday, October 11th at 2:58 PM. Forms

can be dropped off at the MathSoc office (in the CRO mailbox). Duties of Representatives:

- 1) Represent their constituents to council and keep them informed.
- 2) Regularly attend Council meetings (every other week for one hour).
- 3) Maintain at least 1 office hour per week.

Speaking of Council, we will be having a meeting on Tuesday, October 12th, 1999 at 5 pm. It will probably be in DC1302 but you should look for the location on the MathSoc board or the newsgroup. The agenda will also be in both of those places, however some highlights will be Orientation and the Budget.

Guess what, I know how many students there are in the faculty (on stream), and you don't. Of course, I'm about to tell you, so just let me bask in my special-ness for a moment or three. OK, there are 2857 students as of September 30th. Now you know, and knowing is half the battle. Actually, I painstakingly went through the two thousand, eight hundred, and fifty-seven names and obtained the following numbers:

102 in Actuarial Science, 55 in Applied Mathematics, 40 in Combinatorics and Optimization, 292 in Accounting/Math Business, 925 in Computer Science, 183 in Math General, 33 in Math Interdepartmental (year 3/4), 8 in Math Teaching Option, 37 in Pure Mathematics, 29 in Statistics, 30 in Operations Research, 95 in Officially Undeclared (2A term or above), and 1049 First Year Students. (Note that the program numbers don't count frosh and that it adds up to more than 2857 due to double and joint enrollment.)

Eng Scunt was last Friday and it went extremely well. I would like to thank Kenny (my co-captain), all the Mathies who joined the Evil Pink Smurfs (our team), all the participants of the other teams, and of course, the organizers of this event (special thanks to Alex, the head Scunt g-d, and Julie, Math's favourite Scunt g-d).

The Snuggly President
The only student representative who's snuggly soft

MEF Sez

The \$31.42 you've been donating to MEF each term has piled up. The interest generated off the endowment has risen to the point where we have over \$20,000 to spend this term.

What are we going to do with all that money? Well, that's up to you — the students. You can have your say by doing one of the following things:

Join the Funding Council

The funding council is composed of students, alumni, and faculty. Proposals are presented to the Funding Council, and the Funding Council recommends proposals it decides are appropriate to the Board of Directors. The Board of Directors (also composed of students, alumni, and faculty, as well as the Dean), then accepts or rejects the proposals.

MEF is looking for student representatives from each year, as well as representatives from each department. Nomination forms for Funding Council are available on the MEF office door (MC 4046) and on the MEF web site (<http://www.undergrad.math.uwaterloo.ca/~mefcom>). Completed

nominations can be returned by slipping the form under the MEF office door no later than Wednesday October 27 at 5pm.

Submit a Proposal

If you have an idea that would benefit education in the Faculty of Mathematics, bring your idea forward by submitting a proposal. Proposal forms are available on the MEF office door and on the MEF web site. Proposals are due on Wednesday October 27 at 5pm, and can be returned by slipping the form under the MEF office door.

Become the MEF Director

Finally, MEF is looking for a Director for Winter 2000. Nominations forms for the directorship are also available on the MEF office door and on the MEF web site.

If you have any questions about MEF, you can contact MEF by dropping by the office, calling x5757, or by writing to mefcom@undergrad.math.uwaterloo.ca

John Poole
MEF Director, Fall 1999



Computer Science Club

A Student Chapter of the ACM

CSC Flash

Greetings, humans. Another term, and another chance to add new blood to that old vat of blood under the couch in the office. In fact, what with the clean-ups done and planned, I may be able to expand to a full tub! I'd like to take a moment to thank my faithful servants who have made this possible. In case you don't know, the CSC exec this term are as follows:

Prez: archmiel (Aaron Chmielowiec)

Veep: wbiggs (Billy Biggs)

Trez: jarocho (Jason Rochon)

Sec : trwcolem (Tim Coleman)

Sysadmin: lsorense (Len Sorensen)

Other positions were doled out in this way:

Offman: rlbell (Richard Bell)

ook : kvijayan (Kannan Vijayan)

WWW: kvijayan (Kannan Vijayan)

flasher: pechrysl (Paul Chrysler)

My servants also hope to bring you many enjoyable talks and events this term, including:

CSC "CheapBytes" Order

The CSC will be submitting a second order for a variety of Linux packages. The deadline for the second order will be Monday, November 15th. Come to our office (MC 3006) to see the order list and sign up.

Mozilla Talk

time and place TBA

Mike Ang, of Mozilla.org, will be giving a talk on the Mozilla code base.

General Meeting

October 13th, 17h30

MC4041

Clarifications and changes to the club's constitution will be among the items to be discussed.

Please feel free to drop by the office and visit, or ask for any updates and clarifications.

Calum T. Dalek
CSC Chairbeing

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Redefining Ruri-chan's definition of "baka": Greg Taylor

Rays of Sunshine

Did everyone have a great time sculpting mashed potatoes on Wednesday?! I hope that it didn't get too messy! We wouldn't want a wishing well full of mashed potatoes. There is still one day left for you to make your wish and help out the United Way! All you have to do is come on up (or down, or even across!) to the third floor, outside the comfy lounge. You can't miss it!

Lots of things coming up in the near future. Movie nights are still every Thursday night, and all you need to do to see what's playing is take a look at the white board across from the C&D. Of course, if you look at it today, it will still say the movies that were played last night, but if you look at it on Monday... You get the picture. Next week will be the Dating Game! It happens on Wednesday (the 13th) in the comfy lounge, but if you would like to participate, please sign up ahead of time. You can find an application outside the MathSoc Office (MC 3038).

Are you ready for another Cotton Candy Day?! There is one coming up on Monday, the 18th. If you enjoyed it last time, or if you were unfortunate and missed out on the fun, make sure you come and get some candy!!! Later that week will be PUB NIGHT, a wonderful event coming to you on the 21st (Thursday) and taking place at the Bomber with a 60's theme! It promises to be a blast, so be sure to bring all of your friends!

Watch out for the Charity Ball!!! This year it is on Saturday, November 6th, and you can find out more about it somewhere in this publication!

Soon it will be Hallowe'en! But that's another story, and so we'll talk about it later. I've been told that I am celebrating too early. I suppose one should wait until after Thanksgiving.

Until next time,

Laurie "Sunshine" Knox
VPAS, Fall '99

Fire and Ice

It's the theme of our second annual Charity Ball! You will want to come out to this semi-formal event, taking place on Saturday, November 6th at Fed Hall! There will be a silent auction at 6:30pm, along with a social dance presentation and lessons. Dinner will begin at 7:30pm, with a live auction at 8:30pm and dancing until 1:30am. Door prizes will also be available to be won.

The charity that we are supporting this year is the Food Bank of Waterloo Region. The Food Bank helps to support a variety of local agencies, including Mary's Place, Anselma House, the House of Friendship Hostel, Argus Residence and Trinity Community Table in Cambridge.

Tickets are now available in the Mathsoc Office, MC 3038. The prices are as follows:

\$30 - Single Ticket

\$55 - Pair of Tickets

\$210 - Full Table (8 Tickets)

\$200 - Full Table (8 Tickets) To Math Clubs, Organizations, Committees, Departments, etc.

Seating is arranged by table. There will be two options for dinner, including one vegetarian option. Please be sure to note any dietary restrictions.

Hope to see you all there!!!!!!!!!!!!!!!!!!!!!!

Your loving VPAS,
Laurie "Sunshine" Knox

So this is Mono, and what have you done?

What's been on my mind lately. Frosh Week. Let's talk about that. My first thought is wow, was I tired. I lost my voice the first day. But that's ok! What isn't ok is the rest of the week. Something was going wrong; something didn't feel right, and the whole time, I was wondering, was it me?

I went to one of my frosh's Calc classes the first week, and tried to get their names and stuff for a mailing list. I asked this one person in particular and I was given such a nasty look...I tried to ask about it but she didn't really explain it.

It made me think a lot about the week. What could I have done better? Well I guess I made a couple of painful mistakes during scunt, but I learnt my lesson. I realized you easily lose your good judgement and think that everything is ok. Then you get burnt.

But something else was wrong too. I thought about the leaders, and I said many times and still say it now, this was undoubtedly (in my mind) the most "efficient" effort ever orchestrated by frosh leaders, at least at the actual execution of events. I was amazed to see so many leaders, sober, helping out! When I was in first year, I helped run Toga cause there were 5, count em, 5 leaders sober enough to get things done...imagine a frosh and five leaders organizing buses, drunks, pukers, etc...it was chaos. Then you take this year, Monte Carlo night, and there are so many leaders sitting around because there is nothing to do — it's being done by too many people! That was great.

What wasn't great was the feeling, the atmosphere. The leaders felt it, the frosh felt, but it was hard to put into words. We felt like we were herding frosh; they felt herded. We felt limited and demoralised by shortened events, shortened time. We felt trapped, we felt like the fun was missing from frosh week, and felt that we were powerless to change that — we could make frosh week pretty good, but not as good as we wanted. Did we trade scunt time to watch a guy parade around in a resume on bristol board? My frosh week I was running around all night, road tripping, doing stunts. This week it was organized, but it was six hours. But it could've still been really good right? What made it so bad?

Rules. These subtle, seemingly harmless rules. You can't get more than a thousand points for a stunt, so the super-creative hour long planned stunt with your whole team worth as much as giving a donut to a judge...wait...no, you can't do that, you can't bribe a judge, cause, cause...well we don't know why, you just can't ok. You don't "have" to use your face to find the smartie, so people use their hand cause its faster. You can't play red rover. You don't have to run, but we should tell them to run, no that's a bad idea? So in the end we were lecturing out rules and regulations, and everyone was so worried about the rules that it was ridiculous. Ok, someone doesn't want to run, fine. But no one was yelling, run, run. Because G-d forbid we should "influence" the frosh into running at an event. Oh no! My little Johnny was running at school instead of taking notes and seeing the squash courts. Take a good look at those squash courts, Johnny, cause that's gonna make or break your time here. Don't worry about forming relationships with people who can support you on Algebra assignments. You'll meet them later...uh...here's the library, that's what you need. We know. We are FOC. You will be assimilated. Enthusiasm is futile.

Phew! Jesse ranting to the max. And frosh week was a while ago. But it's true. The week was too short. I didn't have time to

form long-lasting friendships with my frosh; whereas other years, I loved my groups and so many of them are still my good friends (G12 / Jala Jala Jala!!)

Did that happen this year? Was there time? No. The focus was on academic stuff, but not just that, it was the focus efficiency, the obsession on effectiveness. Most events went off more smoothly than anyone can recall. But were they more fun? In the end, I know I didn't give my frosh the best week that they could've had, that they deserved. I apologize to you all because I think of the fun I had and the strong bonds I formed during frosh week, which really carried me first term and which without I might not have made it this far; and I feel bad that my frosh this year didn't have the same degree of opportunity.

Sigh. Done. Not a lot of good my ranting will do anyway. How about something happy. Right! I spent my summer this year in Iceland & UK/Ireland. It was incredible. First of all, I *highly* recommend getting a job overseas if you can. It is worthwhile. If you would like info on how to do that, I might be able to help you or point you to places (outside of coop) that can. But even if you can't get a job overseas, go anyway, just go, go, right now! (picture the cop talking to Trinity - "DO IT! DO IT NOW!"). So Iceland I spent 2 months in, doing crap on computers...it was not so great in the beginning, but I asked for better work and got it. On weekends I did things like snowmobiling, climbing, horsebackriding, swimming, hiking, whale-watching, camping, etc. But the best was meeting all kinds of crazy cool people, from closest to home Georgia from Georgia to insane Brits like Brian; people from all over, like UK, France, Spain, Macedonia, Croatia, Scandinavia and more! It was wild, unforgettable, magnificent. I hiked 15 hours across a glacier. I rode the biggest horse and led a group of tourists in a gallop my first time riding. I jumped out of rafts in a river to fight for control of precious bailing buckets. I stayed up through pure daylight nights. I drank 100% pure Iceland water (it's all pure, no chlorine, no fluoride, nothing). I went in, under, beside and above massive waterfalls. I watched geysers and hot springs burst forth. I climbed "hells ridge" mountains. And I took lots of pictures.

But even more rewarding from a personal growth perspective was the time I spent travelling alone in the UK/Ireland. I saw everything from William Wallace's sword to Magna Carta to an original Hobbes' Leviathan. And I saw the touristy things: Trafalgar Square, Big Ben, British Museum, Tower of London, Loch Ness, ya they were nice. But to rush into Stonehenge (you can't go in, only around) and avoid being seen by security as I captured a true wonder in still images, was priceless. To arrive late in a town to find no lodging, only to be saved by a bed in a church with 20 Italian girls. Or to wander around Dublin and talk to poets and guitarists on the street. To climb dangerous cliffs. These exotic challenges were exciting and rewarding. But the real confidence and self-esteem comes from being truly alone. Alone emotionally. Alone physically. Alone financially. I make the decisions, I deal with the fact I almost lost my glasses. I fell off a cliff, I need a place to sleep. I feel heartbroken by beautiful women. I do it all alone, and I come back with a sense of self-worth, a sense of satisfaction. So many great memories, and so many great changes to myself. I pray I lose neither.

Jesse Bergman

Cynic's Corner

Dust Do It

There are roughly two types of people in the world. Males and females. Of course, we're always trying to find different classifications besides this. For example, consider the set of people who hate to throw anything away versus those who get rid of something as soon as it seems to have no more use. I am one of the former types of people. Yes, I have a tendency to put things away for later use (even if I have no idea how they might be useful). Of course, this means that sometimes the clutter hides things that I really want to use. Sound familiar to anyone? Well, at the very least, I know I'm not the only one to do this... the state of the *mathNEWS* and FASS offices have confirmed it for me.

See, I spent some time last week cleaning out these offices. In the case of the FASS office I was assisting others... I think that office is actually smaller than the *mathNEWS* office and yet had more stuff in it. (By the way for those of you wondering what FASS is, it's "Faculty Alumni Staff & Students" (and others) who write and perform a play every year; you too can become involved!) But anyhow, among the interesting items discovered there:

1. Loose change (it's everywhere)
2. Two typewriters (cool, relics!)
3. FASS Finders (more current than the one on the door)
4. Half case of Canada Dry Ginger Ale (FASS president recommends not drinking it)
5. An Imp'tint from 1992, the headline on page 3 being "Feds join call for higher tuition"! (Whoa, times have changed)

I'd like to say the *mathNEWS* office fared better, but, well, maybe you should judge for yourself. Items included:

1. Loose change (I said it's everywhere)
2. Three dry erase brushes (two too many?)
3. Even more letters from Iran (now at 25 or so)
4. Old publications from all across campus (Chevron and Enginews being handy for the ENGScunt)
5. Pictures of Frosh and pictures of *mathNEWS* EOT parties (I didn't really look like THAT in 1996, did I? ^ ^)

And actually, I still have a couple of file cabinet drawers to go through here. Now, don't get me wrong, there's lots of historical significance in preserving some things. And incidently, the *mathNEWS* Gallery is still open to anyone who wants to have a look at bygone UW items (recently updated with a piece of red board, seemingly tossed aside during the Red Room deconstruction). So keeping certain items is good. Which ones? Well, that's anybody's guess. Just be careful of that saying "One person's junk is another person's... junk 20 years later".

Greg "hologrami" Taylor

MGC NewsFlash

Calling all grads out there... MGC needs YOUR help! We're collecting photos of you and your Y2K graduating class so that all your great memories can be immortalized in the YEARBOOK! So don't delay: get those dusty photo albums out and bring your wacky and wonderful pictures to the MGC office now. Please be sure to put your name and ID on your pictures so that we can return them to you.

But wait... you don't have any pictures? Don't fret, because there are plenty of photo opportunities in the next little while. On Oct. 29th, MGC will host a Hallowe'en party and on November 6th, the Math Charity Ball will be held at Fed Hall. Don't forget to mug for the camera!

For questions, comments, or to get onto the MGC e-mailing list (you get news on important grad info and MGC events), e-mail mgc@undergrad.math.uwaterloo.ca.

Rebecca Liu
MGC Communications

And now another mention of the Charity Ball in this Issue:

FOR THE
FOOD BANK OF
WATERLOO REGION

SILENT
AND
LIVE AUCTION

FIRE AND ICE CHARITY BALL

SATURDAY, NOVEMBER 6, 1999
AT FEDERATION HALL
UNIVERSITY OF WATERLOO

\$30 FOR A SINGLE TICKET
\$55 FOR A PAIR OF TICKETS
\$210 FOR A FULL TABLE (EIGHT TICKETS)

For more information,
call MathSoc at 888-4567 x2324,
go to Math and Computer Building, Room 3038
or email vpas@mathsoc.uwaterloo.ca

Uncle Lars Wants YOU!

A humorous/sarcastic account of life in Sweden

—Does living under the oppressive Mike Harris government get you down?

—Are you a computer scientist or engineer, employed or studying in this or any other high tech field?

—Are you willing to travel to new places and learn a new language?

Then living in Sweden may be for you!

Sweden is a country that hasn't had a Conservative majority government since 1976! In fact, the last time we had a majority government was before World War 2! Sweden lives under a political system that encourages minority governments and coalitions to ensure that no government can actually get anything done!

Because there are no pesky conservatives around, since we shut them down in early 80s by not giving newsprint to any sympathetic newspaper, and pulling the plug on sympathetic TV programs, we were able to establish an amazingly (in)efficient bureaucratic-ultra-socialist oligarchy between the government, the banks and the unions!

We encouraged our population to go into "real men's" jobs like the construction industry and assembly-line work at Volvo. And we discouraged people from working in the computer industry, because in order to work there you need (gasp!) an education!! Therefore, the salaries for high tech jobs are the lowest in the western world. But you get:

*FREE HEALTHCARE[1]

*FREE EDUCATION[2]

*ALL THE VACATION TIME YOU COULD EVER NEED![3]

But wait, that's not all! You also get to live in the country repeatedly ranked by the UN as one of the top 10 places to live in the world! (Behind Canada though).

You also get to live in the country with the highest taxes in the world! We have taxes on taxes! Hell, not even the Canadian government can create so many new taxes! We sell government bonds to the people and then have a lottery to decide if anyone gets interest! Seriously!! And if you think living in communist Russia was bad, you obviously never paid a 25% sales tax!

But Sweden is not only number one in taxes. We are also a nation with the highest bank fees in the world! We did it by shutting down all privately owned independent banks, so that all the major banks left are owned by our foremost politicians! You want a bank card? Pay up! You want a bank card that works in an ATM? Pay more! Oh, you want to pay your bills? Shame on you, you don't go to the bank for that! You go to the post office, but you still have to pay a monthly fee to the bank for *NOT* using the bank!

If you happen to drive a car, then we have good news for you! In Sweden you don't have to drive a car! Our gas prices are 3 times that of prices in Canada, and if you drive an automatic transmission car, we laugh at you and pelt you with meatballs until you can't wait to get yourself into a nice big '68 Malibu and follow a 94 year old lady in the same car down I-90 in Florida in the left lane with the blinker on for the past 10 miles. Oh and the parking brake is up. And it's 30 degrees Celsius. And you don't have air conditioning.

Plus our streets are so narrow, accidental groping occurs when two people are going in opposite directions. And if you think

Waterloo is confusing, well, our cities were actually designed by rampaging farm animals stampeding from drunken Vikings who were feeling... well... amorous.

But don't worry, all our cities have an extensive public transportation system. Well, not extensive, more like exhaustive to the point of being redundant. Hell, we have to do SOMETHING with all the money we are taking from you!

Don't fret it however, any tax money that we didn't dump into public transportation, covering bad loans for our inept banks or researching the latest tree-hugging techniques, we put it into welfare!

This means that if you wake up one day, and on your way to work in a tram filled with alcoholics drinking beer (at 9am too! We can't decide whether they are returning from a wild one last night, or getting primed for a wild one tonight!); and every one of them has not worked a day in their lives, yet they can afford to yak on a cell-phone and chain smoke; and you decide that you have a headache: STOP! Don't show up at work, go to the nearest doctor, complain about constant headaches, mental trauma etc, etc, and you will not have to work at all! We will give you money to cultivate your aches and pains and you don't have to aggravate them by doing such ungodly things like working.

Interested in raising a family in Sweden? Say no more! Should you, your wife/spouse/partner/lover or both (or all 5) become pregnant, the government will take care of you by giving you generous tax breaks. But once your baby is born, the government will pay for the mother not to work for 6-12 months, and for the father not to work for another 6-8 months after the mother starts working. By the time that "baby" is 24, it will be the turn of the father's uncle's ex-girlfriend's dentist's brother-in-law's favourite stripper. If it wasn't for that person the baby may not have been born at all, so we have got to reward that stripper somehow.

And with the birth rate falling, we really have to reward the people for procreating. Yes, it is sad that in such a great country the birth rate is falling. In fact soon there will be no Swedes left in Sweden. All the smart ones are moving to the United States, where they can work in a high-tech field for much more money then here and pay less taxes. <insert some non-p.c. statement about too much immigration here>.

So if any or all of the above appeals to you (we stopped chasing livestock when "in the mood"; the Finns are doing that now) then Sweden is a place for you!

However if you don't like Sweden, but still want to live in a Scandinavian country, consider:

—Norway: Just like Sweden, only more fjords, and a better economy. Hell, they've got oil and are rich bastards. They even speak Swedish, but dare to use words that would be used to say something else in Swedish and call it Norwegian.

—Denmark: Just like Sweden, only inhabited by people who are actually outgoing. They drink a lot more. Their economy is also better, but that's because they produce 90% of the world's LEGO supply, and they keep ripping the whole world off. Their language is also like Swedish, only instead of changing the meaning of words, they bastardized the spelling and pronunciation.

CONTINUED ON PAGE 7...

Introduction to Tracking

If you've ever wanted to create your own instrumental music, but never had the money to invest in a mixer board or a DAT recorder, this may be the cost effective solution you've been looking for.

Before techno became popular amongst listeners in the early-nineties and beyond, aspiring teenagers from far off countries were using their low-end computer systems to create advanced *electronic* music. The typical system used in 1994 was a base 486 with a 16-bit sound card. The software used to make these four or eight channel wonders ranged from ModTracker (originally an Amiga program) to the more robust Scream Tracker.

Now for the best part of all: you can accomplish the same feats in the comfort of your very own home using just about any kind of computer or operating system. The process is called **tracking**, and, as the name implies, is essentially like recording more than one track at a time and overlapping them to create digital masterpieces. Granted, making a song doesn't come naturally to everyone, but armed with one of today's modern tracking software packages, you'll be creating masterpieces in no time.

Since this is directed at a general audience, I'll assume that at some point in your life you've used MS-DOS. Having said that, let me also state that tracking software is available for almost every operating system including variants for Linux and MacOS. There are three popular trackers available from the internet for your MS-DOS or Windows machine. Scream Tracker was written especially for slower 386 systems and was (and still is) used to compose short songs that accompanied graphics demos and the like. Fast Tracker is a bit more advanced with a mouse-driven interface, but suffered from lack of proper documentation. The newest trend is something called Impulse Tracker — it combines the power of Scream Tracker and the flexibility of Fast Tracker. All three of these programs are for MS-DOS.

Now for the technical information and relevant facts about creating your own music. All you need is a moderately fast computer with a 16-bit soundcard. You can download all of the programs I've mentioned from the internet. Use any search engine and type in such keywords as 'tracking', 'scream tracker', or 's3m' (the file format Scream Tracker uses). You create songs by inserting new tracks. Think of each track as a separate musical staff that plays only one instrument. By far, the biggest advantage to tracking is the fact that you can import sound *samples* from any source. Samples are the basic building block of your song. A sample can be anything from a bass drum to a violin; the better your sample, the better the overall song sounds. Once you've worked out each track, you arrange the tracks in what's called a *pattern*. Patterns can be reused at will, and looped for as long as you see fit.

If you're skeptical about what computerized digital music will sound like, check out <http://www.traxinspace.com/> and download a few of the suggested tracks or browse their Top 10 list by artist. To play the songs, you can either use one of tracker programs mentioned earlier in the article, or you can get something called ModPLUG for Windows (or equivalent). Most of these songs rival what people consider to be modern techno in both style and playability.

This only being an introduction to the subject, I invite you to do your own reading regarding Tracking. Think of the possibilities: samples can be made from anything, including your

own voice or a television playing static. Songs can be composed in a matter of minutes, and touched up using a very efficient keyboard interface. Once a song is finished, you can post it to the internet, or convert it to a format suitable for playback on a recordable drive.

I hope I've given enough information thus far, as the subject of tracking is a large and unorganized one. There are over 30 different file formats (for data structure junkies mainly) to use, and more than 20 different trackers available for just about any kind of computer. The best part of all: the music is **free**. It won't cost you a dime to make or download any music created using your computer and a tracker. On a final note, to anyone who may have doubts about composing their own songs, most of the artists from such great groups as Future Crew were only 14 years old when they created their first blockbuster hit.

Dave DiGaetano

UNCLE LARS, CONT'D FROM PAGE 6..

—Finland: Not a Scandinavian country, contrary to what you might believe. They are trying to become Scandinavian by giving birth to more blond cuties than Sweden does. But on the other hand, they still chase farm animals, and they were invaded by Russia. Their best King was a Swede. And their language is just screwed! They keep repeating vowels like they are from Hawaii or something.

—Iceland: Why on Earth would anyone want to live on an island in the middle of the Arctic Ocean anyway? They don't even have any livestock to chase!

—Faeroe Islands: See Iceland.

Faced with these choices we're confident that you, young professional, will choose Sweden. We look forward to hearing from you.

(Disclaimers, Caveats, Apologies to the livestock — see below)

[1] Well it's not really free... You have to pay, but only up to \$500 dollars a year. After that it's free. But only for family physicians. For specialists/dentists/eye doctors you gotta pay separately. But still, when we say free healthcare, dumb Americans run to us like ants to a sugar cube!

[2] Well only if it's in a government controlled school, whose motto is: "Educate good communis... I mean Social Democrats" *Social Democrats are the ruling party in Sweden, they have ruled on and off for this whole century and are probably like the NDP* You can go to other schools, but we try to kill them off by giving the less money, so you might have to pay. But all universities are free. In fact we give you money to go to university. We do this because we figured out that having a country full of construction workers and assembly-line drones together with lots of blondes and potent beer, does not promote good population control. We need geeks.

[3] 25 days to start with; can grow up to 2 months off for good behaviour.

Disclaimer: This is satire people!

No livestock was harmed in the publishing of this article.

Anton "zer0man" Fedorenko

Resume Writing Tips

As we plummet into the tedium that is the job application process, it's a good idea to get a head start against your fellow students (read: enemies). Sure, these tips may give you an unfair leg up on the competition, but we won't tell anyone you used them. Promise. Shh...

- The first step in writing a good resume is choosing a good font. Make your resume stand out from all the other Times New Roman resume-in-a-can offerings by using something a little more eye-catching, like Wingdings or Symbol.
- It is a widely known fact that underlining and boldfacing makes certain elements of a resume stand out. Do not hold yourself back in underlining the entire contents of your resume, if it makes you feel more comfortable with its appearance.
- Studies have shown that using special paper has no effect on the employer's impression of the resume. Stick to printing your resume on the cheapest paper available, which is either wax or freezer paper, depending on which grocery store you frequent.
- Your resume should start with a brief summary, outlining your most prominent screwups and wastes of company revenue.
- Employers appreciate the honest candidate more than any other. Do not be sparing in your use of words such as "clumsy", "inept", and "functionally retarded" as they may be appropriate. Do not use a spell-checker, as this will just add to the dishonesty.
- If you find yourself encountering difficulty expressing your skill set in words, it is common practice to write "I have far too many skills to list" in place of the usual "Proficiencies" section. Some employers may see you as a threat to their company, however, so be warned.
- Avoid ego-inflating words such as "enthusiastic", "skilled", and "competent".
- Most jobs available through co-op are technical, and require knowledge of computers. To steer clear of these everyday, run-of-the-mill jobs, refrain from listing any sort of computer training, formal or informal. Be sure to emphasize any Subway "Sandwich Artist" or teenage babysitting experience (esp. with "slow children") you may possess.
- Many employers appreciate a "Personal Interests" section, to showcase your more down-to-earth side. Use this section to inform the employer of your complete lack of a personal life, thereby inviting yourself to become a mindless workaholic under the employer's ruthless dictatorship. This is also a perfect opportunity for you to list any possible felonies you may have committed. Remember, 'honesty' is the keyword here.
- Resume writing should be fun. Try to slip phrases like "ex-

cessive lubricant", "couch monkey", and "<company where resume is being handed> sucks" into the text of the resume, as a personal exercise in creativity. If the employer doesn't at least chuckle a bit, you probably didn't want to work there anyway.

- Don't forget to include your cell block number in your address.

Nick Taylor, 2B Computer Science, and world-renowned
Resume Expert

lookAHEAD

mathNEWS

October 8	Issue #2 is unleashed!
October 18	Next mathNEWS production night 6:30pm, MathSoc (MC 3038)
October 22	Issue #3 is boiled in oil

Math Faculty

October 8	Course Drop Deadline
November 5	Course WD Deadline

MathSoc

October 11	Rep Nominations Close
October 13	The Dating Game
October 18	Cotton Candy Day (outside MathSoc)
November 6	Charity Ball

MEF

October 27	Funding council nominations due
October 27	Proposal forms due

Movie Nights

October 14	Entrapment & The Rock in DC 1302 @ 7:00pm
October 21	Two undisclosed movies

CSC "Flash"

October 13	General Meeting @ 5:30pm in MC4041
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Miscellaneous

October 9	Access resumes at front of MC
October 11	University Holiday
October 19	International VIC20 Day

MC by the (approximate) numbers

- 1024. *prof*QUOTES per minute
- 512. iMacs (or so it seems)
- 256. Bagels consumed before noon every day
- 128. X-Terminals (actually its 132)
- 64. Lost people on the 6th floor
- 32. First year M-Sections (28 to be precise)
- 16. Women in MC
- 8. People trapped in the Real-Time lab
- 4. Ways to fail MATH135
- 2. People using computers to do actual work
- 1. KickASS C&D

Snuggles Sez

It's like Simon Sez, but half the calories and none of the taste. No really, this is where I say stuff that I shouldn't say as President. So I would like to officially say that this article is only representative of my personal views and reflects in no way upon MathSoc's views or the views I have as President. In fact, the opinions expressed below don't even really represent my views, they just represent what I find funny.

Kinky kinko's - Definition: Photocopying your dirty pictures 24/7;

Horny harvey's - Definition: Getting it your way;

subway - Synonyms: Go down; eat there;

I like chocolate pudding. Don't you?

Isn't it funny that the only place in CPH you won't get screwed is called the orifice. If you could lick your own balls you could be in the circus, then you'd never have to do anything, other than lick your own balls and get paid for it.

You know how eating a banana is an intrinsically dirty thing. Sometimes it is even dirtier. There is a certain person, who is reading over my shoulder right now, she eats it, well, I can't describe it any other way then, no, no mere words can describe it, you just have to see it. (I've been told that that should be than with an 'a', but I am above the simple rules of grammar, they don't apply to me.) She says that the way she eats it allows her to get more juice. The hurting never stops.

At this term's Eng Scunt, one of the g-ds made the fatal mistake of stating something she would want while I was within earshot. Needless to say, later that night she was sitting in a swimming pool filled with candy. Of course there was also a ceramic squirrel that was really a sprinkler in the swimming pool but whatever. I like Scunt cause I get points for being random. During judging they were going down the acquisition lists to see what we had. The Scunt g-d asked for a roman gladiator so I handed him pictures of the spice girls.

Tom P says 'Snuggles Sez needs an enforcer... here I am... I' I'm not going to tell him no, are you? Do you know how long I knew Tom and Jer before I realized the connection (to the cat and mouse)? About a year. I'm big like Mac truck, smart like rock. Unfortunately I am not big like Mac truck, so I guess I'm just smart like rock.

Fiona Johnson, who is different then Fiona Apple, is the woman in red from the Matrix. She is also in the latest Maxim (the one with Melissa Joan Hart on the cover). She's some hot. That's all, just thought you should know.

I'd laugh if the custodial duties in the MC were taken over by male leprechauns, cause then they really would be Little Green Men. Of course I also laugh when I wave my fingers in front of the digital camera with display on, cause it looks psychedelic.

OK, we (me, Dan and Liam) are sitting around talking about IQ so we decided to take an online test; we spent at least 13 minutes of quality time searching for, finding, and then completing a stupid test. (It was really easy, then we got out of the math section and it got really hard; actually for most of it it was very silly, eg: which moves faster in air : a) light; b) sound; c) VW bug). Then when we finished it, it had an error and couldn't calculate our score.

Last week I said I'd talk about camp so here it goes, it was fun. Meh, I'm still not in the mood to talk about it, I think after the next time I get back from TO I'll write something down

about camp, I have to get back into the camp mode before I can talk about it a bunch. Lots of funny stuff happened, I just don't feel like writing about it right now.

Snugglerific

I'm snuggly soft, and I'll enjoy you trying to prove otherwise

Evil Pink Smurfs Don't Make Friends With Salad

The Fall 1999 Engineering scunt occurred on October 1st and 2nd this year. The theme being Clue (as in the board game and movie), Math logically chose Evil Pink Smurfs as its team theme.

Math made an incredible showing with unmatched spirit and a ton of hard-core scunters. More than 15 scunters stayed up for the entire 24 hour scunt! The Co-captains Snuggles and MonkeyMan Ken did a fantastic job of motivating members to follow through with the insanity that wins 24-hour scunts.

The following is a set of highlights and stories you may hear about from the Mathie's adventures in this term's ENGScunt:

- Jenga using human bricks.
- Twilight Ultimate Frisbee with German goat noises.
- Starting with a pen and bartering for a couch, 2 pylons, a "conflict monitor" and a Kitchen sink.
- A Mathie dyed in Pink.
- MonkeyMan in a Backstreet Boys lipsync.
- Duct taping people to walls.
- An attempt to purchase a goat.
- Whiffle-Bat-Ball with German goat noises.
- Giddy
- Up
- 3-D twister.
- An "original" Itchy and Scratchy animation cell.
- A Don't Make Friends With Salad conga line.
- Bagpipes.
- 36 hours of no sleep!

Officially, the Math team came in second. Off the record, we probably won. But that doesn't really matter. Everyone involved had a kickass time. So here is a shameless invite to have you all join the Evil Pink Smurfs for the next ENGScunt. Giddy. Up.

Kev(o)

profQUOTES

"Satan is not actually guiding my hand."

Irving, MATH 239

"For example, I'll give you an even integer - say 7. (*Smacks himself in head*) No! 10."

Irving, MATH 239

"So what do I mean by a class of structures?...It's a kind of a thing."

C&O 630, Wagner

"So if somebody walks up to you on the street and hands you a rooted tree, how many leaves do you expect to get?"

C&O 630, Wagner

"What's the verb form of 'proper'...properizing?"

C&O 630, Wagner

"I hate Oktoberfest. I like beer, I like music and I like sausages; I just don't like the way they do it."

Ragde, CS 251

"Niggle... I'm going to read this again because it's amusing to me."

Spielmacher, ENGL 208A

"Why am I talking about all of this anyways?"

Spielmacher, ENGL 208A

"If I hear you snoring, I'll wake you up."

Spielmacher, ENGL 208A

"Cows' bells don't tinkle. Maybe sheep's bells tinkle."

Spielmacher, ENGL 208A

Discussing infants' wonder in looking at mobiles: "I can't imagine lying under one of those things. (*looks at ceiling*) But this acoustic tile..."

Spielmacher, ENGL 208A

"The problem with penguins is that they don't fly... unless they have airmiles."

Thagard, PHIL 256

"I don't think I need to explain... I don't think I need to finish that sentence, actually."

Spielmacher, ENGL 208A

"Obviously we have different definitions of forever. I advise you never to get married."

Shallit, CS 462

"So this Mealy machine is certainly likely to impress people in bars. I suggest writing it on a cocktail napkin and carrying it with you at all times."

Shallit, CS 462

"I think a little bit of pain every now and then is good. If that ends up in *profQUOTES*, I'll be unhappy. ...Actually, I think I say funny things all the time and I rarely end up in *profQUOTES*."

Shallit, CS 462

"I'm not going to go over how a CPU works because we have more important things to cover... (*proceeds with a discussion of vacuum tubes*)"

Dinn, CS 330

(*on binary multiplication*): "One plus one plus one equals one, carry the one, dammit."

D'Alessio, MATH 135

"Wouldn't it be nice to buy a stereo in base 7? ... That's a joke."

D'Alessio, MATH 135

"I want to get rich, but not by working for it."

Foster, PHIL 100

"Let's assume that there's no chain rule on Mars..."

D'Agostino, MATH 137

"Perhaps if the government found life after death to be a good thing, they might give you a tax credit."

Foster, PHIL 100

(*on object oriented programming*): "Karel the robot is no fool... he can make Histograms!"

Shallit, CS 130

"We are only interested in a universe where I am standing outside naked."

Hewitt, MATH 135

"You're university of Waterloo Faculty of Math students... Unfortunately, the first thing you do is think... That's like the antithesis of Engineers."

Vasiga, CS 241

Prof: "So, by induction..."

Student (interrupts): "It's cheap ass induction."

Prof: "For engineers it's good enough."

Wagner, MATH 239

(*after finishing a calculation and asking the class to double-check it*): "If you were on a desert island, chased by a dinosaur, you wouldn't have time to double-check."

Viscay, AM 261

(*after realising there is mistake in the previous calculation*): "That's fine, because when you're chased by a dinosaur, you might make this mistake too..."

Viscay, AM 261

(*written on the board*): "You, like, don't have to, like, write this."

Viscay, AM 261

studQUOTE

"I'm arguing against myself, so I should just shut up!"

ENGL 208A

Quantum Loop

"Ah, there we go!" Hal declared.

"4,294,967,297 worked, did it?" Sham verified.

"Yeah... pretty big for being only the fifth Fermat number," Hal commented.

"Well you'd expect that for 2 raised to the power of powers of 2," Sham argued. "I'm sure it wasn't that easy for Euler to find that 641 divided into $2^{32} + 1$."

"Whatever. Now that Sushi, the head programmer, has access... well, we should be able to get you some data," Hal offered optimistically.

"So, what's it like in the Year 2000 anyway?" Sham inquired.

"Pretty bad," Hal observed, being the observer. "Almost all the computers have failed — even ones that were supposed to be Y2K compliant. Businesses are failing because no supervisors can do arithmetic without calculators. The stock market is crashing, the economy is plummeting and there's looting and pillaging in the streets."

"What?! How are people taking it?" Sham gasped.

"Some haven't noticed the difference," Hal said, shrugging.

"But at least it's not that bad yet in Stall-Eons Gate, New Mexico... Hey, maybe you looped in as Ray to convince everyone to use four digit dates?" he mused, amused. Suddenly the calculator in his hand let out a squeal, and he glanced down at it. Picking up the squeal, he then turned his attention to the display. "Oh here we are... Sham, it looks like you're here to get supple."

"Well, I thought I was in pretty good shape..."

Hal smacked the device he held. "Sorry, get supplementary space. There's a Math & Computing building that's going to be constructed shortly, but it won't have enough room in it for computers by the end of the century."

"Computers that won't work anyway because of Y2K?"

"That's not the point. You just need to talk to the people designing the building and tell them to add more floors," Hal reasoned. "According to BigE, the MC building now has six floors. With relative ease you can make MC²."

"Actually, someone was asking me about floors just a little while ago," Sham recalled.

"Could be Mr. Aba Cuss — apparently he's supervising the design."

"I'll try to find him," Sham decided.

"I'll see if any of BigE's drives need reFermating," Hal resolved.

As Hal disappeared, Sham hurried out of Ray's office. Unfortunately, tracking down the MC design head from his current sector proved difficult. And after the seek time, Sham had to wait for a block of available discussion time. Then finally, when Sham presented his case to Mr. Cuss, he met with immediate opposition.

"I don't understand," Aba protested. "I thought you agreed earlier that we had an abundant number of floors."

Sham paused. "Actually, if you go by the actual definition of an abundant number, a six floor building falls just short of the mark," he countered.

What is Sham talking about? What is an abundant number? Does anyone really care? Find out next issue...

Greg "hologrami" Taylor

About them there mathNEWS Submissions...

Things you should know if you don't already

A few things to keep in mind when submitting all your stuff to our forthright formidable fortnightly publication.

- DO submit by placing articles, puzzle solutions or cash in the BLACK BOX (across from the third floor lounge) or our mailbox in MathSoc. You can also submit things via email to mathnews@undergrad.math.uwaterloo.ca or by bringing items by the mathNEWS office (MC3041 for those who don't know). DO NOT submit by dictating your submission over the phone, telling it to your Algebra professor or tattooing it onto an amphibian of your choosing.
- DO submit solutions to the *gridWORD*, the *mathNEWS*quiz and the Logos, as you can win prizes (generally C&D coupons) if you come up with enough correct answers to beat anyone else who submitted. (And if you're the only one to submit, the odds are in your favour!) DO NOT submit solutions to Snuggles Sez; I think he just likes to keep everyone guessing.
- DO include your name on all submissions. We can't award prizes to anonymous people, and if an article gets us in trouble we'd like to have someone to blame. (Seriously though, you can ask that we withhold the name for printing and publish under a pseudonym but we'd prefer to know off the record who you are.) DO NOT include your cat's name, the grade you got in MATH135 or the address of your fifth grade gym teacher (unless it's relevant to the article). Including your credit card number is optional.
- DO use judgement in submitting. It may not look like much gets rejected, but sometimes things are. (Other times the issue just becomes such a pain to lay out that articles are held over until the next issue. Sorry.) DO NOT submit anything that you don't actually want to see published. If you do so, that's your own problem.
- DO get your submissions in by 6:30pm on Production Nights (alternate Mondays). Theoretically there's a bit of leeway through Monday evening but come Tuesday, unless I suddenly realize that I'm two columns short of an issue (or two bricks shy of a load) anything coming in is just going to have to wait until next time. DO NOT expect to get an article in after Monday (unless you asked and I was feeling generous or I requested something). I will laugh at you. I am not going to be working on the issue any longer than I feel is necessary. Thank you for your time.

HoloEd

Looking for Survey Results??

Sorry, try again next issue

Spermatikos Logos #1

Midterm Madness

Sometimes, even though we all know that profs try their hardest, scheduling goes awry. 12 students of the math faculty, two from each major — including statistics, found things no different this year as they had all six of their courses (these guys are serious students) schedule midterms on the same day. The Profs of these courses decided to spread these midterms out over six days to avoid conflicts, Monday to Saturday. Unfortunately, in typical UW fashion, no prof consulted the others and there were conflicts again. This process continued until each midterm was being offered on each of the six days, and the students from each major had to write the same courses on all different days. Can you use the clues to discover on which day which two students (one female and one male — the student from the same Major — wrote each exam each day) wrote each exam and which major they were from? (Just to be clear all 12 students are taking the same 6 courses.) [Submit your answers into the BLACK BOX by 6pm October 18th. You can win stuff. -HoloEd.]

1. These things happened on five consecutive evenings: John wrote CS 370; Carla wrote MTHEL 100; the OR majors wrote STAT 333; Mike wrote C&O 370 and Flo wrote AM 250.

2. On five consecutive evenings, Donna wrote CS 370, wrote C&O 370, wrote STAT 333, wrote MTHEL 100, and wrote PMATH 440.
3. The CS majors wrote MTHEL 100 the day after Ann wrote C&O 370, which was the day after Ian wrote CS 370.
4. On the day that Ken wrote CS 370, Henry wrote Stat 333, the AM Majors wrote MTHEL 100, the CS Majors wrote AM 250, Ellen wrote C&O 370 and Ann wrote PMATH 440.
5. The people who wrote STAT 333 on Monday and Tuesday included Henry and the AM Majors; on Wednesday and Thursday they included the Teaching Option students and Ellen; and on Friday and Saturday, Betty and Ann.
6. On Thursday, the Pure Math majors wrote AM 250.
7. On the consecutive days, Leo wrote AM 250, wrote PMATH 440, and wrote CS 370.

Robin J. Stewart

Midnight Sun '99

Umm, so what exactly is Midnight Sun (besides an oxymoron, I mean)? Well, it's the name of this fabulously kewl solar powered racecar that UW students design, build, hype up and race every year or two. Uh, a **solar powered** racecar called *Midnight Sun*, eh. No wonder we finished tenth.

Actually, the Midnight Sun is quite a popular undertaking here — unfortunately, most of the people working on it are engineers. Yes, we *did* finish the last race (really). However, if UW is to ever become the world class solar car powerhouse that it rightly deserves to be, those Dilberts currently working (read fumbling) on the Midnight Sun are going to need help from us mathies. (How many mathies does it take to fix something screwed up in Engineering? Mathies don't fix anything — we just keep ridiculing their 'skills' till they get it right).

Where was I now ...? Oh yeah! I was about to actually start the article. OK, let's see. Now that you're ready to join the Midnight Sun projects in droves, perhaps I should provide some info about what kind of stuff you can do for the project. Well, the work is divided up and distributed among several teams. These teams deal with various aspects of the project, including mechanics, electrical systems, solar panels, logistics, etc. Among these, the logistics team would be a great fit of anybody in Pure Math or C&O. The other team which could really benefit from some non-engineers is the Business team, which also happens to be the largest team. So large, in fact, that it is subdivided (you can just see that Venn diagram now, can't you?) into several teamlets (*mathNEWS* rule of cursor #3.1415: If an appropriate word DNE, make it up). The Web group is responsible for creating and maintaining the Midnight Sun website (<http://midsun.uwaterloo.ca>) so pretty much anyone in CS can lend a hand here. The Publicity group is in charge of making sure that everyone within nuclear blast radius of Waterloo knows about the Midnight Sun and it's quest for world domination

(but they don't need to know about that last part till later). Those of you in Accounting may want to provide some much needed assistance to the Finance group.

If my instincts are wrong and lots of pink-tie brandishing mathies show up @ the neXt Midnight Sun meeting, then maybe this year those [insert unprintable here] at Queen's will have to eat our dust when Midnight Sun V tears up the track down in Australia later on.

Antonio 'Fat Tony' D'souza :-)

Solution to Issue #1 gridWORD

H	O	L	L	O	W		M			R			M		
E		A					S	U	F	F	R	A	G	E	
L	E	G	U	M	E	S		M			A		N		
L		E		I				M	A	S	S	E	S		
O	G	R	E	S		M		U		O					
	I		M	O	R	A	L	S		N			T		
	Z		M			N				G	L	O	A	T	
	M		A	S	S	I	G	N	S		E		L		
M	O	O		A		C					T	A	L	C	
E		P			U	T	O	P	I	S	M	S		O	
A	C	H	E	S		T		D						V	
G		E		A		T		L				L	O	S	E
R		L		G	E	I	G	E	R		O			R	
E		I		E			I				W	A	N	T	
	S	A	Y					T	R	A	D	E			

mathNEWSquiz #2*Now with more potent crack!*

Hello all you squizzers out there. Contrary to the number of submissions we received I still believe that there are more than one of you. But, in any case, here are the answers to last issue's quiz: **Song Lyrics:** 1) Beatles, "Dig a Pony"; 2) Pink Floyd, "Have a Cigar"; 3) David Bowie, "Space Oddity"; 4) Cardigans, "Paralyzed". **Film History:** 1) "A Trip to the Moon", George Melies, 1902; 2) Kane's sled; 3) "Battleship Potemkin"; 4) 5 — "A Hard Day's Night", "Help!", "Yellow Submarine", "Magical Mystery Tour" and "Let it Be". **The Year 1815:** 1) Sir Edward Packenham; 2) Cannes; 3) Vienna, June 9th; 4) Rene Laennec; 5) Albanian Regiments. **Soccer, Ole!** 1) Germany; 2) Lothar Matthaus; 3) Michael Schumacher; 4) The Maracana; 5) New York City Cosmos

The following person have made a submission this time around: Lukas Kamps with 6 points. However Lukas gets an undisclosed bonus for coming up with a theme for the Music Lyrics part of the Squiz when there was no theme. Anyhow, Lukas is our winner and he should pick up a fabulous prize at the Mathsoc office. (If the MathSoc people act strange just ask them to check the *mathNEWS* mailbox.) Now without further delays here's today's Squiz:

Song Lyrics

1. Star fading, I linger oh dear
Still craving your kiss;
I wanted to linger till dawn dear,
Just saying this.
2. Who's got the class in you my friend
Into your heart I'll beat again
Sweet like candy to my soul
Sweet you rock and sweet you roll
3. Can I do the things I wanna do
That I don't do because of you
And I'll take a left then I'll second guess
Into a total mess.
4. Hey my name is Jim, where did I go wrong
My life's a bargain basement, all the good shit's gone
I just can't hold a job, where do I belong
Been sleeping in my car, my dreams move on.
5. Well she was just seventeen;
And you know what I mean;
And the way she looked
Was way beyond her age.

Miscellaneous Music

1. Give the full names of the 2 members of the only father-son duo to record a rock song. (bonus: name the song, and the CD on which it's available).
2. Who owns the rights to the full Beatles catalogue?
3. This composer of "White Christmas" actually offended his heritage by writing this song. Name him and give a reason.
4. "Y Kant Tori Read" was the debut album of which recording star?
5. What does KMFD stand for?

The Year 1518

1. Who published the Colloquies in 1518?
2. Which Hindu critic of the caste system died in 1815?

3. Which church reformer in Zurich began attempts to reform the church with the permission of the authorities for a change?
4. This reformer, however, continued to defy the authorities and retract his theses. Name him.

University of Waterloo

1. In 1978 which area of the university moved to the warehouse at 156 Columbia Street?
2. What year was the Engineering Tool stolen?
3. What year were the PAC and Village 2 completed?
4. In 1987 construction began on which group of buildings?
5. How much does the "Water Under the Bridge" book cost and who wrote it?

So, that is it, easy right? In any case you can submit your answers to the **BLACK BOX** by 6:00pm on Monday, October 18, or e-mail your answers to afedoren@undergrad.math.uwaterloo.ca by the same time and date. Now I have nothing more to say, so good-bye and happy squizzing!

zer0man

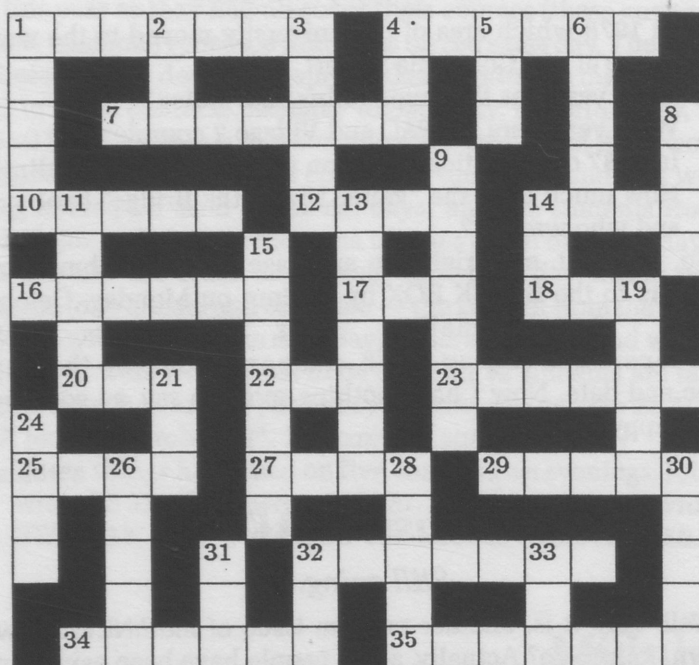
mastHEAD*Still going...*

Well, here it is, another random issue of *mathNEWS*! Two down, four to go? Actually, some people have been asking me when *mathNEWS* will be coming out with its next parody newspaper. To this I respond, "sometime after this term". You know, the "Irrational Toast" actually took two terms to put together (okay, well, only a few days out of each term were spent working on it, but that's not the point) and contrary to popular belief, I do want to have a life outside the *mathNEWS* office. (Not to mention I'm taking three CS courses this term. But at least none of them are OS.) Now, you might point out that the last time there was a solo editor (Summer 1998), *mathNEWS* put out the "Toronto Numb". But then I will point out that the term before that (when there was another solo editor), we did not put out the "Toronto Numb". So there is a need to keep the balance here, don't you agree? (Actually, maybe sometime I should compile a former editor listing, is there any interest in that?)

At any rate, an editor is nothing without people offering their time and skills to help out. (Well, I guess they are something but I'm not sure what. Lonely?) So here I'll include a listing of everyone who helped out with this issue, as well as people in the MathSoc office who liked the *mastHEAD* question. And that question is: What's allowing baseball players to hit more home runs each season? And the people are: Gigi Garbett (A la Peanut Butter & Jelly sandwiches... on a kaiser), Anton Fedorenko (Dawson's Creek on Mondays... oh!! I'm missing it!), Dave DiGaetano (legalized cork bats), Kev (iMacs), Edgar "ET" Tinio (Karel the Robot), Antonio "Fat Tony" D'Souza (Y'know how the world is shrinking, right - well those bball fields just shrank right along with it), Snuggles (mmm, steroids) and Stuart "Jean-Guy!" Pollock (Crack! Oh, wait; that's what's allowing me to hit more home runs each season).

Thanks goes to those who feel a need to be thanked, including Marion at Graphic Services. Hope you all enjoy the issue.

Greg Taylor (Ballgame music with different pitches)



Grid Clues

Across

1. Somewhere over there
4. Knoll
7. Hope springs
10. Cruise's business
12. Irons lion
14. Remember my name...
16. A measured portion
17. Exit FTP
18. 22 men out
20. Fragile 70's band
22. Golf coach
23. Trickery
25. Bubbles
27. Coward composer
29. That's not a toilet
32. Small sweet spongy citrus
34. Rotten Ruby
35. Apple bearer

Down

1. Phoenix
2. Pick
3. Prevailing _____
4. Collective Soul song
5. _____ is the place
6. Saucy dance
8. Insurgent Metis
9. Liberty
11. _____ Coast
13. Shake it baby
14. Killed over 20 million in 1918
15. I provoke, you _____
19. 8-11 time
21. Kermit's admirer
24. Dancing Queen
26. Carmen's Soap
28. Genie, Lava, Heat
30. Everready disposable pocket _____
31. Electric leap
32. Dick Tracy's Pal
33. Current affair

gridCOMMENTS

Hi! This is where we say "How come no one did the first *gridWORD*?????" We didn't get ANY submissions from the past *gridWORD*, but hopefully, everyone was just getting everything together for the first couple of weeks of school, and now everyone will do it!! The *gridWORD* that is... Well, since nobody submitted any solutions, I can't list those people or a winner...

I have to give credit to Ringmaster, who helped me a great deal on this grid. Again, like last week, the Ringmaster and I (Vocab-Girl) are still new at this, so suggestions or comments are always appreciated. Those comments and your solutions can go in the **BLACK BOX** or the *mathNEWS* mailbox in the MathSoc office by 6:30pm Monday, October 18th!! Well, I didn't receive any answers for the *gridQUESTION* this week either, so, I will just ask the next question.

This week's *gridQUESTION* is...ldots; If you could pick a new ride to be introduced at Canada's Wonderland, what kind of ride would you choose? And what would you name it?

That's all I have to say this week, so good luck everyone, and keep those submissions coming!!!

Mandi "Vocab-Girl" St.Amand
Dan "Ringmaster" Pollock

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