

Volume 58 Number 3

math **NEWS**

Friday, February 14, 1991

HAPPY VALENTINE'S



DAY

Look Ahead

mathNEWS	
February 24	Issue #4 production night 6:30pm, MathSoc (MC 3038)
February 28	Issue #4 hits the stands
March 9	Issue #5 production night 6:30pm, MathSoc (MC 3038)
March 13	Issue #5 hits the stands
Math Faculty	
March 2	1B Info Night @ 7pm
March 2-6	Fall Term Pre-Registration
MathSoc	
February 17-21	Reading Week
February 16-21	Ski Trip to Killington
Co-op	
February 28	Interviews end
February 28	Ranking Forms Available
March 10	Employment Acceptance

MGC Update

Just to let you know what's going on - before everyone disappears to their ski or sun destination!

The big question that everyone's asking: When are the MGB tickets going on sale?

- MGB tickets will be on sale beginning Monday, February 24th, in front of the 3rd floor display case.
- Information about seating arrangements will be available then.

What else is happening?

- How about a night of mystery and intrigue?
Watch for details about a Murder Mystery Weekend at a secret hideaway...
- And last, but not least...
Pizza Day returns Wednesday, February 26th, same place, same time.

Remember: Watch the MGC bulletin board for important announcements!!

Have a great reading week!!

Angie & Tracy
MGC co-chairpersons

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Editor: Curtis "Cupid for a Day" Desjardins

The SOBER Prez Sez

First of all, I'd like to extend my congratulations to Jeff Stammler who won our recent Treasurer election. *Hope you didn't forget about that beer, Jeff!*

Our social director is always looking for more ideas for social events, so if you have any, drop them off in the MathSoc office. And, speaking of social events, don't forget that today is your last chance to sign up for Math Orientation '92. It says here that we're going to have 20, count them, 20 KEGS of beer at MMT this fall!!! Oh, sorry, that was a note from Orientation '90; I believe this year will be a little different.

Look for the Math Society C&D Sandwich Card coming soon to a C&D near you, and SAVE SAVE SAVE!

I hope everyone will be making the most of their reading week, as it will be the last one that we Mathies see. Killington should be amazing!

Markus Baumann
Math Society President

Soc Toc

Welcome to another exciting edition of Soc Toc, the column where YOU, the trusted reader, get informed about the great events that MathSoc has planned for the students of the best faculty on campus.

For all those Euchre players, there is a Euchre Tourney Wednesday, February 26th at the Grad House. Come and register at the MathSoc office today.

We have a tentative, yes tentative, Tropical Pub at Fed on February 27th. Make sure you watch for signs on the 3rd floor for more info. Walk, run or whatever, but remember to go to the pub for the best faculty on campus. It's going to be a blast.

It's Spring Training and we're planning a Blue Jays road trip March 13th. Come out to see the Jays beat the Pirates.

What else is in Toronto to have another road trip there? The Brunswick House is. MathSoc and ASU are planning on making this trip on March 6th. So keep March 6th in mind, we'll let you know more on the 3rd floor.

What else do we have planned for all you lucky people? Well it looks like we have a Yuk Yuk's night in the works. More info forthcoming. Until next time.

Poesy Chen
Social Director



CSC Flash

On February 10, the USS Discovery dropped off Calum T. Dalek at Waterloo after a fun-filled space-romp full of dancing and velcro experiments. Upon returning to the campus, Calum was reportedly horrified to find at least three students on campus who are not aware of the Computer Science Club! Below are words from Calum himself, recorded at the emergency news conference held immediately afterwards:

"... Thank you Mr. Kalbfleisch. Greetings, Earthlings! I have held this conference to re-acquaint the University of Waterloo with the CSC — the Computer Science Club."

"Far back in the mists of time the CSC was founded in MC 3037. Since then institutions such as MathSoc, the C+D and the comfy lounge have sprung up around us, making the CSC Office the very heart of MC. Gaining membership in the CSC is easy — just drop by and give a friendly office staffer your \$2. In return you'll receive an incredible array of benefits (as well as a nifty CSC membership card!) Here are just a few:"

1. Free Tea - no, I'm not kidding.
2. Access to our world-famous couch & speaker system
3. Membership in our massive library. We have it all — classics like The C Programming Language by K&R for reference and cutting-edge material like Graphics Gems by Glassner to get your creativity flowing.
4. Office hours even stranger than MathSoc!
5. The CTRL-D dinner: at the end of each term, we all tromp over to McGinnis Landing for good times and good fettucini!
6. The CSC is a broccoli-free zone.

"But the biggest highlights of the year come at our talks and seminars. Past topics have included X-Windows, concurrent C++, parallelism and cryptography. This term a talk on AI and Robotics by Qiang Yang is already lined up for February 25. A tour of the U(W) Computer Graphics Lab in DC is also forthcoming, as is our always hugely successful SIGGRAPH video presentation! At all talks we provide fresh doughnuts and equally fresh tea, FREE to anyone who drops by for the show."

"Where-o-where can you find out more? Watch for CSC announcements at:"

1. The uw.csc newsgroup
2. The mathNEWS CSC Flash!
3. Posters in MC, DC, Engineering and a wall near you.

"Thank you all for coming out and I'll see YOU at MC 3036"

Calum T. Dalek, PhD, AbC
CSC Executive Officer
10/2/1992

Immediately after the conference Calum headed back to his yacht in the Carriibbean where he is reportedly relaxing with a little sailing and bungy-jumping.

Brent Williams
CSC Secretary

Pure Math C&O Club

we're too sexy for mathNEWS

Here's the latest from your friendly neighbourhood spider-club.

Well, in the realm of talks, we had one last Thursday, given by Robert Ravenscroft, discussing Maple and how it works. Marks in first year calculus and algebra reportedly hit a record high this week. Previous to the above, Prof. Djokovic discussed permutations and quadratic reciprocity. It was also well received by all onlookers. Bill Martin, of C&O 230 fame, will have given a talk on Thursday (February 13) revolving around our old friend, the icosahedron. We will not, as you may have guessed, be having a talk next week because it is reading week and we'll all be in Bermuda. Well, some sort of approximation to Bermuda.

On le jour du Saint Valentin we will be having a soccer game, at 6:25 pm. Note that that is today, as you are reading this. So come on out if you are interested in playing for the once and future mighty PMCO. The soccer game, as per the norm this time of year, will be held indoors at Seagram's Stadium. We would also like to issue an open challenge to any other club to a contest of utter supremacy in the realm of road hockey. This is a real live challenge, and we will take on anyone, at any time.

There is not a whole lot else to relate, other than a vague curiosity as to whether anyone will notice an aardvark if I say it very softly. The imminent release of MGM's "The Adventures of Bert" as plugged in the last column, has unfortunately been delayed due to lack of funding, and sundry problems relating to objections on the part of certain executive members to their taxidermic fate. Thank you, and good night.

mike "i'm tired and want to go home" motorcike

GINO'S PIZZA

Try a little bite of Italy
747-9888

The Official Pizza of *math NEWS*
160 University Ave. W.
Waterloo



Student Party Pack
4 Large 15" Pepperoni Pizzas (40 slices)
\$27.00 + tax

Expiry Date Mar 6 1992
Gino's welcomes everyone back
and wishes the best of luck to all.
See you at Gino's

Orientation '92 - ELVIS

It's the winter term and it's time to think of orientation again. No, not your orientation, but "Orientation '92." Before I get into the details of this year's orientation, let me begin by introducing myself. My name is Elvis Presley. Yes, it's really me. The "King". I want to say first that I am alive and have been in the mall in Albuquerque, New Mexico. The reason I have come out of hiding is to become Orientation director for 1992. I feel that this will be a good opportunity to instill "Elvis Mania" in first year students.

If you are interested in spreading "Elvis Mania" there are several positions available, ranging from passing Elvis Mania on to the frosh all the way up to the planning of the Elvis "Gut" look-alike contest.

So, if you want to join me in my quest to spread "Elvis Mania", all you have to do is fill in an Orientation Leader Application form, available in the MathSoc Office, and drop it off in the MathSoc office by 12:30 pm Friday, February 14.

80 lucky Elvis Followers will be chosen randomly and their names will be posted on the MathSoc door and the Orientation door (MC3042) by Thursday, March 27.

So long live the King!!

Thank you, Thank you very much.

Elvis Presley
Orientation Director
(A.K.A. Oliver Lee)

Thinking about graduate school?

The Faculty of Mathematics is holding an **Information Meeting** on graduate work in the mathematical sciences:

Tuesday, March 3, 1992
3:30 p.m. - MC 5158

- * Why undertake a graduate program?
- * How do you know if you are suited for graduate work?
- * Where can you obtain information on programs?
- * What financial assistance is available?

Departmental representatives from Applied Mathematics, Combinatorics and Optimization, Computer Science, Pure Mathematics, and Statistics & Actuarial Science will be available with specific information about their programs.

All students welcome
Refreshments available

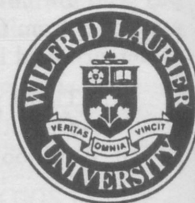
INTERESTED IN AN MBA?

Find out more about full-time and part-time
MBA programs at Wilfrid Laurier University.

* * *

For more information call:
Nancy Elliott (Associate MBA Director)
884-1970, Ext. 2544

Please Join Us!!



MBA Information Day

- Should I get one?
- What are the advantages?
- What are the requirements?

Find answers to all your questions on Wednesday, February 26th, during a presentation by the Director of the Wilfrid Laurier University MBA programme.

Watch for posters on the 3rd floor of the Math building as the date approaches. This event is sponsored by the UW Business Administration Club.

Kevin Boyes

ASC: King of the Jungle

Well, how should I start? I first should say that the ASC party on February 1st was in many ways a very successful one and was attended by a bunch of party animals! And like I promised, the booze was flowing cold, fast and cheap! If you missed out, that's your problem. Thanks go to Platypus, Lemur, (Horny) Toad, Rabbit, Leopard, Kitten, Hippo, Orangutan and the rest of you from the animal kingdom who came out. Another thanks goes out to Scott whose lair we invaded for the night.

As for other ASC events, circle March 5th on your calendar because that is the day that we make our spectacular return to Yuk Yuk's. Tickets will be sold for an incredibly low price of \$4 and should be going on sale just after Reading Week. Also be watching for the many, many exciting seminars that will be coming your way in late February and March. Last, but not least, is the official ASC Squash Ladder which kicked off this week. For more information and/or to sign-up, come to MC3030.

Finally, I would just like to welcome the Business Club with whom we are now sharing office space. It's just too bad that MathSoc didn't realize what they were doing when they put us in the same room! Together, we will rule the world!!!

Mosquito

P.S. Bzzzzzzzz...

Faculty of Mathematics

Dean's Honour List

In recognition of outstanding academic achievement throughout their undergraduate careers, the following students will **"GRADUATE ON THE DEAN'S HONOUR LIST"** at Spring Convocation, May 30, 1992 and have their names displayed in gold on the walls of the Faculty Colloquium Room (MC 5158).

DEAN Michael Philip	HC M/CA/I
GRIFFIN Kenneth Anthony	HC M/CA/O
MACFARLANE D. Kent	HC M/CA/I
MCRAE Jo-Anne Elizabeth	HC M/MA/I
WONG Tina Kar-Yin	HC M/CA/I

In recognition of outstanding academic achievement throughout their undergraduate careers, the following students will **"GRADUATE WITH DISTINCTION"** at Spring Convocation, May 30, 1992.

KAETHLER Richard	H COMP SCI
MOORE Michael James William	HC AM/ENGG

In recognition of outstanding achievement during the Fall 1991 term, the following students qualified for the Dean's Honour List.

ANDO Seiji	ASTOORIAN Daniel John
BARRETT Thomas Steel	BART Bradley Stephen
BARTHA Francesca Stephanie	BAXTER David Michael
BECKER Mathew William	BEH Khek Siah
BIRSAN Dorian	BOSLAND Marcus Jomo
BROCKINGTON Mark Gordon	BROWN Daniel R.L.
BUTTON Darren Earl	CALINAWAN Jonah R.
CHAN Gary Ho-Cheung	CHAN Ho Fai James
CHAN Ho Hon Joseph	CHAN Kai-Chung Petrus
CHAN Leo	CHAN Man Pun Issac
CHAN Sze Sze Ada	CHAN Yuk Kuen Henry
CHECK Paul Leslie	CHEUNG Kam Chuen Frankie
CHEUNG Ada Ying Dee	CHEUNG Man Kee Betty
CHOU Pei Kei	CHOW Tsz Kin
CHRISTENSEN J. Daniel	CLARKE Timothy William
DANTOWITZ David J.	DEMATIER Elaine Mary Rose
DEQUANNE Barry Mathew S.	DI TULLIO Giuseppe Carmine
EBBO David Serge	ERICKSON Julie B.
FARRELL Alana Christina	FERREIRA Paulo Fernando
FIELD Christopher Brian	FONG James
FONG Yuen Fay	GAMMAGE Simon
GANDHI Shailesh	GILHULY Patrick O.
GLAISTER Ian Mathew	GMACH Christopher John
GO Sunning Chun-Ning	GOLDBERG Ian Avrum
GOURLEY Rene Stephen	GOYER Stephane
HAMILTON Patty Lu	HARJI Ashif Shamshudin
HEISE Gregory Micheal	HO Jackie Cheukkin
HO Kai Fai	HSIEH Paul
HSU Ada Yee Hang	HSU Leon Cheng-Lin
HUI Wai-Ho Joshu a	HWANG Robert
JOHN Wendy Eloise	KAPLAN Craig Steven
KAPUR Rishi	KARSTEN Richard Harry
KENNES Carl Louis	KERR David George
KHERAJ Naheed	KO King Lim
LAM Kit Kan Eric	LATENDRE Heather Leanne
LAU Tin Chi	LAW John Wing Hong
LEE Betty B.	LEE Douglas Gordon
LEE Gregory Thomas	LEE Maria



LEE Teng Yeow
 LEJEUNE Jeffrey David
 LEUNG Alan Yan Lun
 LEUNG Wai Tong Matthew
 LING Chi Hung Alan
 LIU Qin
 LOU Jie Jay
 MACDONALD Robert
 MAGUIRE Andrew C.
 MARRIN Clarke Ernest
 MICHAEL Amir
 MONTEIRO Manuel Jules S.
 NG Ho Lai Leo
 OOI Soo Liang
 PARKINSON Scott Terrance
 PATEL Nilesh
 PEJCHA Dennis
 PORTER Jonathan
 PRASHAD Devika
 PROOS John A.
 RILEY Jared Kane
 SAUJANI Simal
 SHNEIDER Aviva
 SIU Steven Chi Fong
 SONG Charles J.
 SOURELIS Constantinos
 STASTNA Marek M.
 TALIB Shames
 TAVES Christopher David
 TIMMERMANS Gerry Michael
 TOMLINSON Jennifer Helen
 TSANG Clara Lai Fong
 VASIGA Troy Michael John
 WEATHERHEAD Thomas A.
 WOHLGEMUT Joel Rainer
 WONG Amin Ali Yiu Wai
 YAP-CHUNG Nicola Grace
 ZHANG Hao
 ZUCCHERATO Robert Joseph



LEE Vivian Tin Wai
 LESLIE Christina Sunita
 LEUNG Peggy
 LEUNG Yee Shuk
 LIPPERT Robert Eric
 LIU Wayne Biao
 LUK Paul K.S.
 MACFARLANE D. Kent
 MAN Vince Jing Ping
 MEHTA Atul Kishor
 MILLEY Peter
 MOSCA Michele
 NGUYEN Minh Duc
 PANKO David John
 PARSONS Kimberly Joy
 PATTON David Robert
 POON Kin Sun Albert
 POSNER Marshall Evan
 PRIEKSATIS George William
 RAZAK Shaloub
 ROSENBLOOD Leslie R.
 SHAH Nikhil
 SILGARDO Sebastian F.
 SLEUMER Nora Helena
 SONG Jonathon Zhan Shan
 STANLEY Laura Lynn
 SUEN Tak Tsuung Daniel
 TANG Terence King San
 TESSIER Joelle Florence M.
 TO Siu Lun
 TRINH Van Tai
 VANDERPOST Gerald Peter
 WAINWRIGHT Martin James
 WILLMS Allan Richard
 WONG Amin Ali Yiu Wai
 WONG Kam-Hung
 YUEN Hamilton
 ZHANG Yang

In recognition of outstanding achievement during the Winter 1991 term, the following student has been added retroactively to the Dean's Honour List.

LEUNG Peggy

In recognition of outstanding achievement during the Spring 1991 term, the following student has been added retroactively to the Dean's Honour List.

TSUI Wing S.

Prof Quotes

- "No, you're wrong, move to the back of the class."
Vanstone, C&O 331
- "You're going to leave confused, but that's what I want."
Vanstone, C&O 331
- "... times the inner product of $\langle e_i, e_i \rangle$, like Old McDonald ..."
Gilbert, MATH 235
- "Does everyone remember the Poisson distribution, or am I building on a foundation of Jell-O?"
Springer, STAT 230
- "You take two elements from a set and twiddle them, either they twiddle each other or they don't!"
Gilbert, MATH 235
- "Wait; according to the CBC beep I still have three minutes."
Jackson, C&O 230
- "This is the time you've seen an application of Linear Algebra to anything that is not trivial."
Jackson, C&O 230
- "A symbol table is just a global variable but a little more complex to make the compiler feel good."
Becker, CS 241
- "I used to know how this this stuff worked, but I don't any more, so it won't be covered on an exam."
Becker, CS 241
- "About once a term I get mad at a class, and just start writing on the board. I get three lectures' worth of material covered in one class, but nobody understands a thing, and I feel really badly after."
MacKay, STAT 230
- "This is equal to ... Oh my God ... Well, you get the idea!"
Younger, MATH 235
- "Unlike your homework, God is on our side."
Younger, MATH 235
- "You must really get your intuition caught up with 2500 years of human endeavour. You have until Friday."
Borwein, MATH 237
- "This penetration of a classically forbidden region of space ..."
McCourt, CHEM 256
- "Multiple Personality Disorder means never having to be alone."
Cardey, PSYCH 357
- "Relax ... NOW!"
Cardey, PSYCH 357
- "If you see a strange man walk into the room, don't worry; it's probably Professor Panjer."
Aitken, MTHEL 305B
- "It gets harder and harder and harder and then you'll have one person confused at the front of the class."
Aitken, MTHEL 305B
- "What the government should have done is sit in on all the classes in [MTHEL] 305A"
Aitken, MTHEL 305B
- "I would like you to try it in the privacy of your own room. There are some things that you just can't do in public."
Dickey, MATH 136
- "There are no more whole numbers. I haven't seen a whole number in about five years."
Kerr-Lawson, PMATH 330
- "The proof is in the text, so I'll skip it. I'd mess it up somehow, anyway."
Murdoch, STAT 330
- "For me, it's clearer this way. For you it may be different. Your heads may work better than mine."
Panjer, ACTSC 332
- "You believe me now? You may as well."
Murdoch, STAT 330
- "This proof uses the proof of another proof which uses the proof of another proof. This goes back and forth about five times, so I'm not going to prove it!"
Froese, MATH 137
- "Honest! ... and I don't lie often!"
Vanstone, C&O 331
- "You didn't think I'd write out 64 vectors, did you? I might look stupid."
Vanstone, C&O 331
- "I've got this backwards, don't I. It must be that Monday morning effect."
Corbett, PHYS 122
- "You don't have to be responsible for this, but sometimes we have to do something for your academic souls ..."
Corbett, PHYS 122
- "I'm not feeling well today. So you will be seeing some strange formulas on the board."
Cizek, MATH 215
- "That's the funny thing about teaching: people ignore you most of the time."
Mackay, STAT 230
- "Did you have a question for me? Or were you just giving me the finger?"
McGee, AM 250

We've got Logic Coming Out Our Ears

Seven correct solutions were received for the easy puzzle last issue, all of which were right, and eight for the hard one, three of which were right. Not a bad batting average, folks! Anyway, due to a desire to provide an actual challenge but being too busy (FASS, you know), there's no easy puzzle this week. The Pineapple Prophet has provided us with a hard one, though, so all is not lost.

Answers for the easy were submitted by The Pineapple Prophet, Qed, Pourquoi Pas, Lerxst, The Judge, Opus, and The Lone Chemist. The Lone Chemist submitted the most entertaining correct answer, so gets the prize for this one, to be picked up at the Math Society office. Meanwhile, Opus, Ogre, and the Judge submitted correct answers for the hard, none of which was in the least amusing to read. Opus had a decent response to the easy, though, and wrote very neat answers for the hard, so gets the prize.

For the record,
Sneezy's brother Drippy killed Happy with a revolver in the bedroom,
Doc's brother Smarmy killed Dopey with a lead pipe in the hallway,
Happy's brother Gimpy killed Sleepy with a rope in the kitchen,
Grumpy's brother Smelly killed Doc with a candlestick in the dining room,
Dopey's brother Sneaky killed Bashful with a knife in the library,
Sleepy's brother Hal killed Sneezy with a wrench in the conservatory,
Bashful's brother Hairy spared Grumpy, since he was always more like the seven other dwarves anyway.

Of Dwarven Hammers (Or Hammered Dwarves)

It's midterm time at the Acme Looniversity, and the seven other dwarves have written their last exams and are ready to party. Each dwarf has a favourite shooter he'll be drinking at the campus pub, the Bombrater. Each dwarf wrote a different exam, and got a different mark (30, 40, 50, 60, 70, 80, 90).

At the pub, however, the dwarves soon forgot most of the details. From their inebriated ramblings and a shooter menu, can you figure out all the related information, or is one look going to give you a taste for hard liquor?

Shooter Menu

Pan Galactic Gargle Blaster: J.D., Peach, Blue Curacao, 7-UP
Rock Lobster: Kahlua, Irish Cream, Peppermint, Cream, Cinnamon

Sweet Tart: Sloe Gin, Southern Comfort, Lime *Shake*

GST: Gr. Crème de Menthe, Southern Comfort, Triple Sec *Shake*

Coma: Kahlua, Banana Cream, Triple Sec

Bazooka Joe: Blue Curacao, Irish Cream, Banana Cream

Wet Spot: Kahlua, Amaretto, Irish Cream, Cream

1. Gimpy: "The dwarf drinking Gargle Blasters failed his midterm in Algebra. I hate courses and alcohol beginning with the letter 'A'."
2. Hal: "The dwarf who drinks Wet Spots was in the top three marks, but didn't write accounting (also in the top three)."
3. Smarmy: "The dwarf who wrote CS doubled my mark, but we both prefer Blue Curacao in our drinks."

4. Drippy: "Sneaky cheated and got at least a 'C' in a course beginning with the letter 'A'. Hal and I both like Irish Cream, but the dwarf who got a 60 hates anything creamy."
5. Smelly: "I got neither the highest nor the lowest mark in C&O. I've had far too much Southern Comfort to remember exactly, though."
6. Hairy: "Calculus was one of the bottom three marks. I did much better, so I'm celebrating with Banana Liqueur."
7. Sneaky: "ActSci was the highest mark, but I didn't do that well. Drippy, Smarmy, and Smelly did the worst."

Who, Me
The Prophet



Reduce Heating Costs

MathSoc turtle-necks 100% cotton
White shirt, Embroidered logo
Only \$15!

Other items available:

- T-shirts
- buttons
- rulers
- pins
- Environmentally friendly mugs AND...
- pencils.

Anne Fletcher
Novelties Director



Election Results

Congratulations to the new MathSoc treasurer
Jeff Stammler
and this year's Orientation Director
Oliver Lee.

Penny Watt
Chief Returning Officer

The Non-Euclidean Geometry of Waterloo

Have you ever noticed that there are two kinds of geometry? They are *Euclidean* and *Non-Euclidean*.

"So what is this article all about then anyway?" you say to yourself as your attention changes back to what your Calc prof just said for a moment. Well it appears that most cities are built on the concept that:

1. Parallel lines don't meet
2. Lines at right angles form a grid

"This article seems to be dragging on and on, without anything funny in it as of yet, where is the joke?" you consider as you scribble some much needed Calc assignment questions into your notes, and refer back to the article in the hopes of finding something amusing that you can quote to your friends who only read *Prof Quotes*. Well this is in fact the way many cities are labeled too (like "24 Ave and 12 Street is a happening corner") since it makes navigation easier.

"'happening'? What planet is this guy from?" you think as you plod on with the hopes of a light at the end of the tunnel.

Now in Waterloo, which has one of the only Math Facilities at a university, there is the Non-Euclidean geometry version of roads:

- Parallel roads meet (take King and Weber which cross 3 times)
- Roads at right angles join back together (try Carolyne Street to get away from Labatts. It takes you back to King St)
- There is more than one coordinate system used simultaneously depending on the viewer (King Street is North-South in Waterloo, and East-West in Kitchener)

"Ah, at least there is some content. Now for the punch line..." you think as you begin to get excited, but at that very moment the prof (who has memorized your name already) asks you for an appropriate theorem to apply to this particular problem. You state some jumble of letters that you vaguely remember being applicable as a theorem: 'MTV.' you state confidently, and then lose interest in the class again for a minute.

Finally, there is the path from *Euclidean* to *Non-Euclidean* mappings:

1. Follow 401 West (normal path)
2. Follow 8 West (Rotation, since they are not on the same path)
3. Follow 7 East (Stream reversal, same as a mirror)
4. Follow 86 North (Rotation)

And if you experimentally apply this method, you find that all of these transformations get you progressively closer to your destination, which is the precise contradiction that is required to change geometries.

QED

notasquare

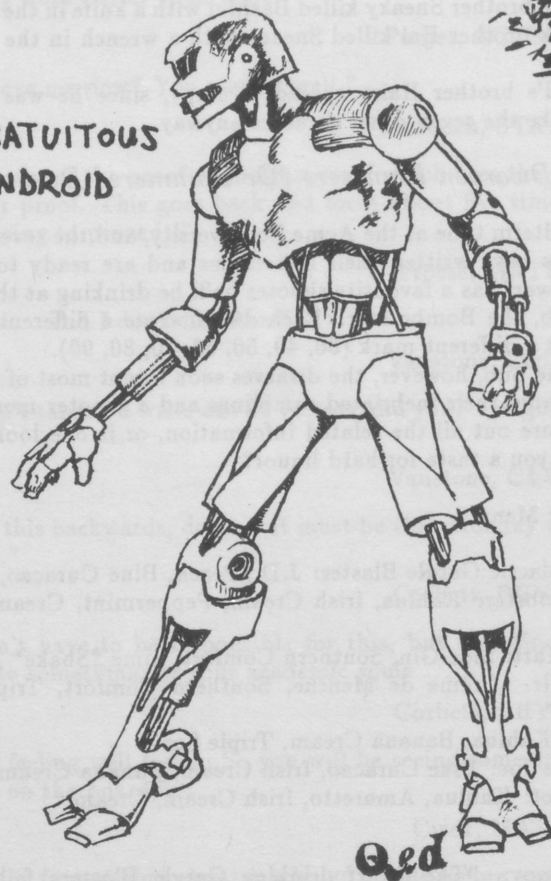
VapidFire

Valentine's day is here. Bleeding heart liberals rejoice. Speaking of politics, the Feds have distributed a pamphlet about 'Cults on Campus.' Listed as one of the people you can trust is 'a member of the Chaplain's Office.' Some techniques listed as Mind Control are: Surprise and fear. Fear and surprise. Their techniques are fear, surprise, and ruthless efficiency. Their *three* techniques are fear, surprise, ruthless efficiency, and an almost fanatical devotion to the Pope. Their *four* techniques... no, *amongst* their techniques are surprise, fear, ruthless efficiency, an almost fanatical devotion to the Pope... and nice red uniforms, Oh Damn!

There once was a man from Waterloo,
Which OFS did try to screw,
With no information,
He voted in frustration,
And with the Feds he was through.

Quixotic Jedi, aka Other Brother Daryl

GRATUITOUS
ANDROID



Stopped Jobs Avenger

In recent days, there has been a vigilante searching the system for stopped jobs. He isn't on every system, but the ones he is on, are free from stopped jobs in excess. Rumour has it that he is a defender of overloaded systems which are slowed down by these excess processes. He is a hero in his own unusual way, trying to be friendly to those newcomers who are not trying to create these needless processes, but do accidentally. He has told me that he has a side-kick called Zonk. He says that it is very hard to find good help now-a-days and Zonk, being youthful, will be able to take over when the Stopped Jobs Avenger graduates. Zonk says SJ is "dressed in lavender tights and a bright orange cape, but he can sure 'stomp' them." When asked for the truth, he shared, "He looks like an average CS student, but he is still an idiot. I am only willing to say this much more: He has a desperate desire to get flamed." We should say that not all of this information should be taken too seriously from a man dressed in a red cape, blue boots, a black mask with 'luv me' in fluorescent yellow, a belt loaded with whips and chains, and nothing else. When asked if these allegations were true, SJ said, "Dammit, have you been talking to Dan? No, only Zonk could have said that stuff! You went behind my back?" We weren't able to get a reasonable answer after that. Excuse me, someone else wishes to talk to me. I'll put you on hold ~Z

I am the Error that writes to your screen.
I am the Purger of stopped jobs obscene.
I am the STOPPED JOB AVENGER.

You have stopped jobs, you are asked to type the following:
kill -9 %1
Then check for others using:
jobs
Compliance with this will result in peaceful co-existence.
Up Up and Away.

Markus Maximus Arillius



Bake Sale

Krista and Rob's Fabulous Bake Sale is off and running. The cooks are warming up as we speak, baking to their hearts' delight. There will be cupcakes, muffins, cookies, pies, cheesecake, an much more, so please, in the interest of a good cause, come to the CC on Tuesday, February 25th and pig out. If anyone is interested in adding to the number of wonderful baked goods we have coming, please contact me at 886-2229 or rcbell@descartes.

Rob Bell

[Krista and Rob's bake sale is to help raise money for their trip to Guyana as part of Youth Challenge International. — Ed.]

mastHEAD

More Tales from the High Chair

Holy cow! You will never guess what time it is! Previous editors will surely refuse to believe what I am about to say. It's only... (gasp)... 11:30! Yes, believe it or not, I'm going to be out of here before 1! ** Dance of Joy ** . Seeing as how the Fed elections and OFS referendum starts tomorrow, we at math-NEWS had our "annual" Fed Gallup Poll. The results of this awe-inspiring Poll is the following:

- Prez: Dave Martin (46%), Harish Pawagi (39%), Pat Forte (15%)
- VPUA: Sue Crack (50%), Jennifer Nevins (42%), Jennifer Szabo (8%)
- VPOF: Brent McDermott (69%), Hoi Leung (31%)
- OFS: No (71%), Yes (29%)

I should remind everyone that these are just our predictions for the now over-and-done-with elections, and we're just a bunch of ignorant morons. Ignore us. Here are those who showed up tonight to snarf pizza along with their favourite Valentine's Day ritual: Mark Brockington (sending black roses to those you care about... NOT!); Brent McDermott (having a sauna for two in a vat of honey); Kivi Shapiro (being sickeningly sweet and cuddly); Jennifer Watters (Am I allowed to say this...?); Rob Bell (You know, that certain nameless señorita); Ian Goldberg (gunning down my enemies (you know, like the massacre)); Dale Wick (going to Winterfest); Stuart Pollock (flopping in front of the boob tube, popping open a brewski and watch a thrilling game of chess); Dean Chan (spreading Happiness, I think); Mishelle Ducedre (anything involving chocolate sauce); John Tucker (reminiscing about the past... NOT!); Colin Brace (drinking Red Carpet Food Services coffee); Shannon Mann (eating chocolate; ain't got no woman).

Thanks to the people at Gino's Pizza (the official pizza of math-NEWS), and thanks, also, to Marion at Graphics Services (Hi Marion!). See you all in two weeks.

Curtis Desjardins (going broke cause I'm such a nice guy and buy lots of Valentines for everyone)

mathNEWSquiz # 3

Hello, and welcome to this next edition of ... The Squiz with your hosts, major, mouse #2, and Harry Organs! And here are the answers you've been waiting for for two whole weeks: 1- Backgammon; 2- Horse Racing; 3- Atlantic City; 4- Badminton; 5- William Herschel; 6- Saturn; 7- At Lagrangian Points; 8- Oort Cloud; 9- Blowing up Parliament; 10- Poet; 11- 7; 12- Silversmith; 13- John Lennon, Paul McCartney, George Harrison, Richard Starkey (Ringo Starr NOT accepted); 14- Pete Best; 15- Orphanage; 16- Beethoven's "Moonlight Sonata"; 17- First five books of the Old Testament; 18- 30 pieces of silver; 19- Turned into a pillar of salt; 20- Saul of Tarsus; 21- Tom Lehrer; 22- Frank Zappa; 23- The Firm; 24- Sheb Wooley.

There were ten submissions of answers to last issue's squiz; the top two submissions had 17 correct answers. Okay, the contestants were ranked as follows: CC Bridge Club (17); The Prophet (4); Ogre (2); Opus (17); Courtesy of Your Friendly Neighbourhood Research Kitchen (8); Cee Dee & PAS Minor (7); Cosmic Charlie (10); Death To You (10); Makiavellia Maks (7); Bigger is Better (6). There was also a late submission from last week's squiz from "Signed by Nothing Better to Do" (17). The winner of this week's squiz was chosen by a fair contest. The winner is ... CC Bridge Club! You can pick up your prize in the MathSoc office. When answering this week's squiz, don't forget to put your name on your submission. Now for this week's clues ...

Hockey

Name the first professional hockey team of the following players:

1. Wayne Gretzky
2. Mark Messier
3. Brett Hull
4. Tom Kurvers

Particle Physics

1. Name the six known types of quarks.
2. Which quark(s) make up a proton?
3. What is emitted when ${}^1_7\text{N}$ changes to ${}^6_6\text{C}$?
4. Who was the man whose wave equation "predicts" the location of an electron in its orbit?

TV Sitcoms

1. What is the legal capacity of Cheers?
2. Name the band that was covered on WKRP by "Scum of the Earth."
3. What is Mr. Furley's brother's name (Three's Company)?
4. On Night Court, what is Christine's husband's name?

Comics

1. Name the original members of The Avengers.
2. What does the "J" stand for in J. Jonah Jameson?
3. Who wrote "The Dark Knight Returns?"

4. Where is Darkseid from?

Movie Quotes

Name the Movie

1. "It's not a tumour!"
2. "That conversation made a lot more sense that time."
3. "Anybody want a peanut?"
4. "You mean I'm on trial for being afraid?"
"First of all, we don't think of it as a trial; second of all, yes."

Scottish Culture

1. Name the "hill" upon which is run the most widely known footrace in Scotland.
2. Name the purse in which the money of people constantly wearing kilts is placed.
3. Where is the biggest Scottish gathering in North America held?
4. What is the type of knife which Connor McLeod used to cut his hand with in "Highlander?"

major
Harry Organs
mouse #2

Math Orientation '92
We want Leaders



We want YOU!!

Orientation Leader Application forms are now available in the MathSoc Office (MC3038)

Deadline:

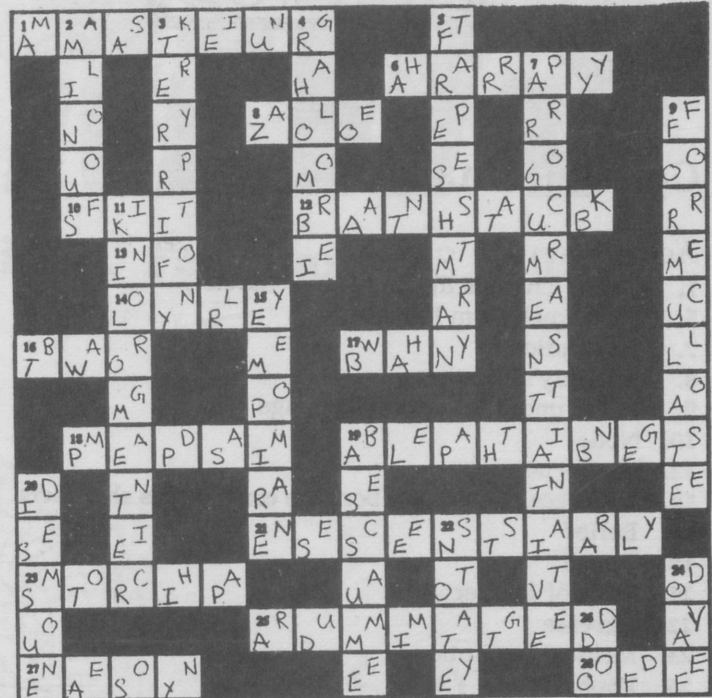
Friday February 14th, 1992 12:30pm

Top 10 Things Not to Do on a First Date

10. Wine and dine at the world-renowned Village cafeteria... dutch
9. Fart... real loud
8. Sneeze in your date's food
7. Quote Vagon poetry
6. Complain that the relationship is getting stale
5. Do your Roseanne Barr / Al Bundy imitation
4. Forget your date's name
3. Take your date to a mathNEWS production night
2. Say, "You know, that washroom wall was right. You are a good time!"
1. Give your real name

the gang

[Oh Christ! I've been doing it wrong all these years! Well, that explains all those slaps I got. — Ed.]



Grid Comments Bizzare Theoretical Insinuations

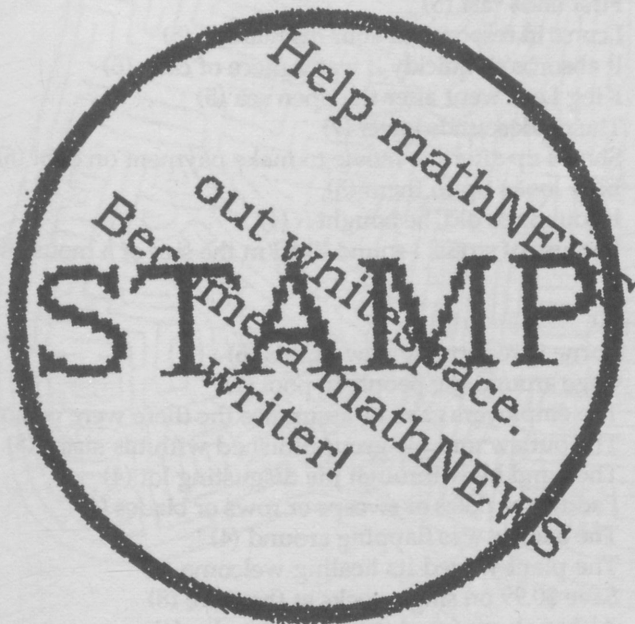
To those of you who had problems with nine down, I apologize ... **NOT!!** There were seven solutions submitted, two for the conventional and five for the cryptic. Although there were no completely correct answers, a prize will be awarded the least wrong answer. Mainly because upon closer examination I decided that that answer was acceptable. The correct (sort of) solution came from ... Death To Chocolate for the conventional puzzle. No prize will be awarded for the cryptic because although imaginative, your answers were nowhere near right. Incorrect solutions were submitted by C. C. Bridge Society for the conventional, and by Makivellia Maks, Bigger is Better, Death to You, The Prophet and Hugh Jorgan, aka OGRE, for the cryptic.

People's favourite superlatives were: 'Super Colonblow! (oops I thought it said superlaxative)', 'The Best Has Long Since Passed By It's All Down Hill From Here', 'Tucker', 'Loosest', 'Promiscuousest', 'Seven No-Trump Bid and Made', and 'Tucker ... NOT'.

Comments: Mutual orgasms make for a better tomorrow. Sucks being us. Clare came up with number nine. Nine down is stoopid. Get a grid. Come as you are. Anyone get nine down.

There seems to be a recurring sentiment in the comments, so I've worked on this one and hopefully there won't be any problems with nine down. Is there a nine down? Death To Chocolate can pick up your prize in the MathSoc Office.

jeffie





Conventional

Across

1. Chevy Chase is this in his new movie
5. Joe Varnell from FASS
7. Contradict
8. Jeopardy's question
9. U W's unofficial second language
10. Node
12. Border tax
14. In Greece, a titan that bore the earth on his shoulders
16. Belief
18. To roll
21. Strip of leather
22. Increase
23. Medical Institution
24. Phobias
25. Down the runway
26. Complain

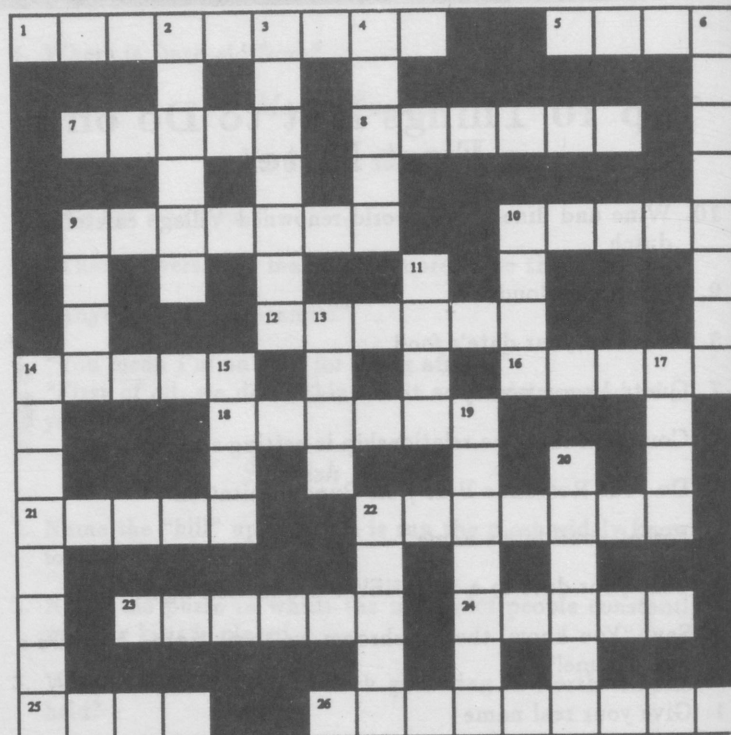
Down

2. Sarcastic
3. Examine
4. Depart
6. Sort of sugary
9. Talk
10. Short for my name
11. One thousand
13. Skillful
14. Not concrete
15. Drink
17. Legitimate
19. With hope
20. Most of the Spanish one was lost
22. Mother's mother's son's daughter's mother's husband

NAME _____

COMMENT _____

FAVOURITE B-MOVIE _____



Cryptic

Across

1. Horse noise is tiresome to people next door (9)
5. Machine around beginning of Monty Python skit (4)
7. The cheese shredder was wonderful (8)
8. At the holiday she's a messer and backcomber of hair (5)
9. Looks at geese (7)
10. Nothing as found in the desert (5)
12. Are these cheap or expensive asked the seaman (6)
14. First ends tart (5)
16. I curse in response to your insinuation (5)
18. It absorbs so quickly it was a piece of cake (6)
21. King Lear went after the open sea (5)
22. The mark sounds lower (7)
23. Shows up after the movie to make payment on debt (6)
24. Billy looks up to them (5)
25. It sounds so old, he bought it (4)
26. Because of stress, I sound like I'm the size of a mouse (9)

Down

2. Lorne is reportedly new at this (6)
3. Cage around the people in pool (7)
4. The employers gave us assurance the there were no ants (5)
6. The outlaw and his group finished with his sister (8)
9. The wind blew through the disgusting lot (4)
10. Paddles or poles or sweeps or rows or blades (4)
11. The banner was flapping around (4)
13. The plant waved its healing welcome (4)
14. Save \$0.99 on single socks at the store (8)
15. Although confused the star was ruler (4)
17. I ache all over from walking across the pasture (4)
19. Get cracking the bowl or you won't get any quiche (7)
20. He trips them up with his ladder (6)
22. 'dat, um, is a fact (5)