math

Fall 1989 Bu	dget	
Expenses		
I. Printing Costs (7 issues on glossy pink paper)	\$ 90 269.00	
Processing Costs	500.00	
Production Materials	500.00	
Postage Charges (Federal Express Courier)	5 090.00	
Laser Printer (I/O Room closes too early)	300 000.00	
Military Model X-Acto Knife	5 000.00	
Duck Repellent	34.99	
Bribes to MathSoc Treasurer	1 000.00	
Protection Money to MathSoc Exec	2 350.00	
Embezzlement	500 000.00	
Subtotal	\$ 904 743.99	
II. Production Night Caviar and Champagne	\$ 154 000.00	
Mid-term Get Together (Trip to Florida)	10 050.00	
End-of-term Get Together (Book SkyDome and U2)	50 000.00	
Mel Gibson (for Karen)	500 000.00	
Kim Basinger (for Don)	350 000.00	
Doll House Road Trip	2 500.00	
Editorial Honorarium	1 000 000.00	
Subtotal	\$ 2 066 550.00	
Total Expenses	other Physics, MCANIM se Stephes, 66CRAE le-Anna	\$ 2 971 293.99
Revenues		
Faculty Computing Grant	\$ 500.00	
Subscriptions	90.00	
Advertising	100.00	
Total Revenues	with Van 186 Res Vanasendam tem 1864 WE	\$ 690.00
Net Budget	lgle S. nommaff: S. Hill H. M. St.	THE REAL PROPERTY OF THE PERSON OF THE PERSO
Dauget		\$ 2 970 603.99

MathSoc Subsidy Requirements

\$ 2 970 604.00

Don Marks and Karen Smith mathNEWS Editor Fall 1989

Volume 51 Number 2

Friday September 29, 1989

LookAhead

mathNEWS			
????	Issue #3 production night		
????	Issue #3 hits the stands		
Cinema Gratis			
Oct 3	The Ride		
	White Nights		
Oct 10	Cosmic Zoom		
	My Beautiful Laundrette		
Oct 17	Maltese Falcon		
	The Big Sleep		
Fed Flicks	AL116 at 7 and 9 pm		
Sept 29,30,1	Shoot to Kill		
Oct 6,7,8	Rain Man		
Oct 13,14,15	Dangerous Liasons		
Со-ор	garanta and a specimental (specific), swar whenever		
Oct 11	Interviews Begin		
Math Faculty			
Oct 6	Drop Course Deadline		
Social Events	PERSONAL PROPERTY OF AUGUST AND AND AUGUST A		
Sept 29	Blue Jays Road Trip		
Oct 4	Bowser & Blue - Fed Hall		
Oct 12	MathSocktoberfest at Bingeman's		
Oct 18	Sarah McLaughlin and The Grapes of Wrath		
Nov 1	The The - Fed Hall		

FACULTY OF MATHEMATICS DEAN'S HONOURS LIST

In recognition of outstanding academic achievement during the Spring 89 term, the following students qualified for the Dean's Honours List.

BALDWIN William Jonathon, BRCIC Jasenka, BRUSH May Marie Alma, CARON Nicole Jeanne, CHAN Steven, CHEUNG Ming Tak, CLAUSEN Scott Cameron, CUPIDIO Christian, DEAN Michael Philip, DESOUZA David P., FITTON Peter Ernest, FOOTE Deborah Leigh, FREDERICK Stephen Robert, GLAUM Michael, GRIFFIN Kenneth Anthony, HAIDER Mansoor A., HUME Lisa Irene, JAUBERT Fabrice, KUAH Siew Bean, LARSON Johan G., LEPAGE Claude Yvon, LEPPINEN David Michael, LO Wing Yiu, MACFARLANE D. Kent, MALTBY Samuel Jeffery, MARTIN Charles, MCANDREW Deron Michael, MCCARTHY Thomas Stephen, MCRAE Jo-Anne Elizabeth, NIDD Michael Elton, NIYOGI Shanku Shivbrata, NOCK Paul J., PASCAL Jodie Karen, PLUT Margaret Dajana, PTASHNY David, REYMER Kathleen Corina, ROBERTS Collin D., ROCKE Denease, RUUTH Steven John, SAUVE Paul M., SHORE Jennifer Ann, SMITH Stephen Andrew, SPRINGER Colin M., STEPHENS Bradley John, STOCKIE John M., TAE Paul Robert, THORNTON James Douglas, TOMLINSON Stephen Ivan, TRAN Minh Van, TSE Herman Tin-Wai, WAI Monica Ching Yee, WARMERDAM Lisa May, WEEKS Laura Patricia, WEIGEL Susan Audrey, WHITE Shannon Ralph N., WILLIAMS Damon Grant, WINGER Gary Bruce, WONG Tina Kar-Yin, YOUNG Caspar J. A., ZUBERI Khalid.

ISSN 0705-0410

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Editor: Karen-Don Marks-Smith (The Edity)

SOC TALK

Salutations and welcome to the second Soc Talk of the term. This term looks like it will be a busy one for all Math students, and we have plans to make your life even busier. This term's Social Directors have come up with a FANTASTIC schedule of events. See the complete list (at least for now) at the end of the article. Of special note is the MathSocktoberfestivities on Thurs. Oct 12th. Tickets will be going on sale Monday October 2nd.

We would also like to welcome to council all of the new class reps, especially the first year reps, Steve Butler, Nancy Cavarron, Francesca Bartha, Eric Jacoby, Thomas Lovie, Bob White and Jill Hoffman. If you have any questions or concerns, all class reps, as well as the executive, have mailboxes in the Math Soc office, MC 3038. Feel free to leave us a note.

A new service available to math students this term is the fourth floor study rooms. These facilities are available for study groups to work on projects or to study in. To book one, just come into the Math Soc office and reserve your time.

Have you ever received a mark in a course that you felt you didn't deserve? Well, there is now a formal procedure that you can go through to appeal a mark (or for that matter, any situation in which you don't feel as though you've been treated fairly). Things get started by talking to your prof about it, and could end up being reviewed by a panel of faculty and students to ensure that you are treated fairly.

See ya soon, and feel free to drop in and offer some advice, air a complaint, or volunteer some time to help out.

So

Pat "T	he Squirrel" Szuyrlo
	President
dement (n) spill I form	Craig Cudmore
cial Events	Vice-Prez
	Dee Vint
Fall '89	Treasurer

Sept 29 (today)	Blue Jays Road Trip
Oct 5	Bridge and Euchre Tournament at the Grad House
Oct 12	Oktoberfest at Bingeman Park (Tickets on Sale Mon.)
Oct 15	Go-Kart Indy at Erbsville
Oct 22	Detroit Lions vs Minnesota Vikings Road Trip
Oct 27	MathSoc/ESS/BENT Presents Jeff Healey at Fed Hall
Nov 3-4	Scavenger Hunt
Nov 9	Bridge & Euchre Tourne Revisited
Nov 16	Movie Night in the "Comfy" Lounge
Nov 24	Annual Semi-Formal at the University Club
Dec 1	End of Term at the Bombshelter with
	Darts/shuffleboard/Pop-a-shot tournement

Talk From the SAC

Summer Highlights

- SAC wants to introduce a petition against the \$14.00 work report marking fee.
- The midterm co-ordinator visit was discussed, and alternatives were suggested. A survey on the subject should follow soon.

The first SAC meeting of the term was last Tuesday, and the second was Wednesday. SAC wants to encourage all you co-op students out there to fill out a work term evaluation form and drop it off at MathSoc or Needles Hall. This is the real story of what your job was like. The evaluations are kept in the Career Resource Centre in Needles Hall, and are available for all to look at.

Lori Boomgaardt
Marc Kerbel
Those friendly people representing you in the SAC.

Prof Quotes

What the Prof actually said

"Could you expand this into a power series if I had a gun to your head?"

Prof. Vanstone, C&O 230

"Suppose you're a cop and you're the prisoner and they've got you by the arms and you're going to jail. Where are you going?"

F. Zorzitto, MATH 147

"Don't worry, nothing profound happened...just copy it and think about it later."

F. Zorzitto, MATH 147

"The final exam will not be like the midterm. . . because there aren't enough ambulances in KW."

C. Colbourn, C&O 230

"Girls frequently fall in love with their professors. If any boys do, buzz off."

R. Lawrence, MATHEL 100

"As long as you can read 60mark."

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Hall

H. F. Davis, MATH 234A

"Life usually doesn't fit exactly."

Springer, STATS 230

"Bitch ifting...bit shifting is very important...I'm sorry, did I miss something?"

D. Hare, CS 242

"I don't think this example has ever appeared on sesame street...or it ever will."

B. Dawkins, STAT 231

"This theorem applies to italicevery problem in the universe!"

F. Goodman, AM 251

"I don't know whether you think this is exciting. I don't, but I get paid for it."

R. Honsberger, C&O 342

"Consider the value of 0/0, which reminds me of my wife in the morning, it's an indeterminate form."

R. Honsberger, C&O 480

"Have you people not had lunch? Is there not enough sugar in your system to get your hands up past your eyebrows?"

Beatty, CS 354

"And so God created Batch systems."

Beatty, CS 354

"3+5 is 8. This morning it was 7, but I'm feeling better now."

Beatty, CS 354

"The morning class wasn't any more impressed than you are."

Beatty, CS 354

The CSC

Flash!

At the General Meeting last Thursday, the Club elected its new exec, which is: Sean Goggin, President; Ed Bourne, Vice-Pres; Terry Van Belle, Secretary; Jeff Behrendt, Treasurer. The newly-elected exec then ratified Calum T. Dalek as Chairman and appointed Ross Ridge as System Administrator. Following the election we showed clips from old Siggraph reels. Believe me, it was fun.

The CSC is getting busy on several things this terms, including a trip to the ACM Programming Contest in Dayton, Ohio on November 4. If you're interested, sorry, you're too late, we chose the team sometime this week. We were a little pressed for time, so we had to choose the team.

Although the number of members we have already is at a record high, we are still looking for members. Every two dollars we get helps, and you really could do with an unsupervised UNIX account, now couldn't you?

Other things we're doing this term include an Othello Programming Contest (for those of us who don't make the team), a few talks (we're trying to get A. K. Dewdney), and a re-organisation of the library. If you're interested in any and/or all of these, show up to the CSC office (MC3036/7) or watch the walls of campus buildings for posters, whichever is easier.

Of course, even if none of the above really piques your interest, drop by anyway and ask us the three words we're just waiting to hear..."Is this MathSoc?"

> Calum T. Dalek Chairbeing

Waterloo Indy at Erbsville Kartway



Sunday, October 15



Relieve those Midterm blues with 20 laps (miles) of track time at speeds over 50 km/h.

Tickets (\$20) on sale Monday, October 2 in the MathSoc office (MC3038).

Entrance restricted to the first 60 drivers.

First Class: MGC '90

Welcome back all you 4A, 4B, 4C and 4N students for another 4 or 8 or 12 months of higher education. Just in case we have not been formally introduced my name is Emil Mlinarevich, the Math Grad Committee (MGC) Chairman. If you are going to be in the class of '90 and want to get to know your graduating class then come on out and be a member of the MGC (it looks great on a resume.)

Here is a list of the areas you can become involved with:
Fundraising — pizza and hot dog days, raffles, bingos
Yearbook — grad photos, photography, design
Social — pubs, tournaments, campus rec., special events
Memorabilia — class rings, grad shirts and sweaters
Math Grad Ball (MGC) — planning, decorations, slideshow

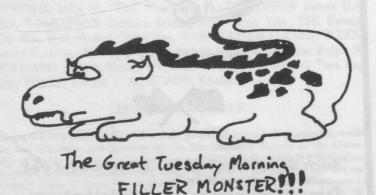
If you haven't filled out an information sheet please drop by the MGC office (MC 3042). If you have any questions please do not hesitate to come in contact with myself or other members of the MGC executive.

MGC Executive: Fall '89
Fundraising — Peter Littlefield
Yearbook — Jackie McManus
Social — Eileen Fenerty
Memorabilia — Julie Lamb
MGB — Carol Snow
Treasurer — Denise Cassibo

In our years of attending UW we have learned to block out banners and signs on doors. Therefore, to keep on top of MGC events, I recommend that you scan the bulletin board by the office at least every other day.

Dates to Remember: Tues., Sept. 19 MGC Meeting: 11:30 am MC 4060 Sept. 25-29 Grad Photo Sign-up: \$15 Sept. 25-29 Yearbook Sales: \$20 Sept. 25 - Oct. 6 Yearbook Blurbs: due Oct. 6 Tues., Sept. 26 MGC Meeting: 10:30 am C2 278 Wed., Sept. 27 Hot Dog Day: SW corner of MC Tues., Oct. 3 MGC Meeting: 12:30 pm Wed., Oct. 4 Class Photo: 4:30 pm Oct. 3-6, 10, 11 Grad Photos: 5th floor lounge Sat., Oct. 14 Oktoberfest: Schweitzer Haus Sat., Mar. 17 MGB: Bingeman Park Sat., May 26 Convocation Sat., May 26 Post Grad Ball: Valhalla Inn

> Emil Mlinarevich MGC Chairman



Fed Report

The first council meeting was Sunday September 17. Your reps were updated on the affairs of the Federation and student life in general.

WPIRG has been put on the defensive by a small group who wish to remove them from our fee statements. The Federation supports WPIRG but will serve as a resource to the petitioning group.

The renovations for a coat check and bar extension to Fed Hall have started and should take 16 weeks to complete.

The Federation sponsored refugee student has arrived and is well. He is from Ethiopia and studying chemistry. He is in need of donated clothing. He is small in stature and if you have any spare small mens clothing please bring it in to the Fed Office, CC235.

The Federation has many paying and volunteer positions open, here

are just a few:

- Fed BUS Manager
- Graphics Factory Workers
- Homecoming Planners (volunteers)

The Federation wants to thank the students in Math and Math Society for the use of the C+D to prepare food for Shinerama workers. Also in a Shinerama vein, our executive shall be sporting very chic purple and yellow hair because Western managed to out earn us again.

And one final note. Here we go again. The Canadian Federation of Students has become a mandate of our executive. In 1987 UW students spoke out against joining. 63.4some point in the future. Late January or early February is a good bet. Your Reps have been opposed to C.F.S. in the past because we believed that you were opposed. Now is your chance to tell us how you feel. mathNEWS has allowed us to use this as a forum for you to speak to us. You will find a ballot for a minireferendum for mathies. Tell us how you feel about C.F.S. and we will act on your behalf.

If you have any questions, gripes or concerns, drop us a line via mathNEWS, MathSoc or through the Fed Office.

Your friendly Fed Reps
Paul Trudell Eric Descoteaux
Roger Tudor Anna Diminno
John Herbert

Canadian Federation of Students Referendum

I feel	that I know en	ough about the Canadian Federation o
Students	to vote.	
I do n	ot feel that I kno	w enough about the Canadian Federation
of Stude	nts to vote.	
I wan	t my Federation	of Student Reps to support C.F.S.
I wan	t my Federation	of Student Reps to oppose C.F.S.
I am in	MATH or	OTHER.
I am in	CO-OP or	REGULAR.
	Students I do not of Stude I wan I wan	Students to vote. I do not feel that I kno of Students to vote. I want my Federation I want my Federation I am in MATH or

Please deposit your ballot in the mathNEWS BLACK BOX. Your Fed. Reps thank you mathNEWSfor their support.



... a long and knotted yarn, entirely fictitious, no resemblance to persons living or dead intended, so please don't sue us.

Dum, da dum dum.

Greetings, Sgt. Jo Fridae here. At the end of the last installment, I had uncovered a plot by unknowns to turn our fair campus into one giant parody. Already my great commander, W, was inflicted with the disease, and was walking the halls of MC spouting various Princess Leia-isms.

Who could be at the core of this vast mockery, and what was his/her/its intent?

I bravely set off to find out.

At that moment, as I stepped on to the third floor of MC to fuel up on Oreos from the Comfy Lounge (since nobody's brought any to math-NEWS yet), a pair of infected mathies flew around a corner towards me. They were decked out in strange costumes of skin-tight multi-coloured spandex with floppy capes, and one showed enough well-toned male gam to drive any rec frosh mad with desire.

Alas, I thought, the disease is more treacherous than I had forseen. For these were not mere parodies, but parodies of parodies! Yea, dear reader, the pair of waylaid students were, in fact, attired in such costume befitting the departed Watman and Duck, which sentient superheroes have entertained mathNEWS readers for yahrens past.

"Ha!" cried the Watman pretender. "There, Duck! It is that evil archenemyess of ours, Catwoman herself! Bathooks ready! She won't

escape this time!"

of

As they readied a pair of wicked-looking, stainless steel, self-sharpening, lifetime-guaranteed, specially priced, exclusive bathooks, I took it upon myself to investigate a potential suspect in the ladies' room. Watman and Duck attempted to follow, but beat a hasty retreat when confronted by a pack of admiring reckies who were adjusting their make-up after a class. I, too, followed, unable to remain long amidst the ensuing conversation.

"Oooo Jennifer, didja didja see his buns?"

"Didja die? Oooo they were sooooo cute, omigosh, eeee!"

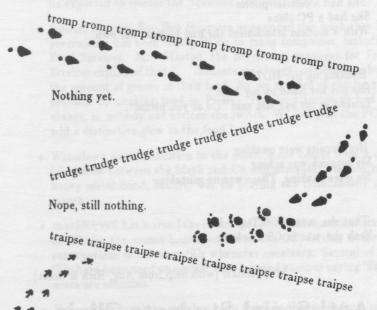
"*giggle*"

"hee hee"

"EEeeee...eeee!"

I leaned against a wall, drawing deep breaths, slowly recovering from the assault on my sensibilities.

Finally, after multiple Oreos, I again set off in search of the source of U(W)'s newest ailment.



And, of course, still nothing.

Except for all the movie scenes I'd seen played out. Over by ELH I'd seen 7 mini-engineers traipsing off to work singing 'hi-ho, hi-ho,' in the depths of the PAS I'd seen a sort of Indiana Jones excavating campus tunnels in search of riches (other than the great rumoured V1 cafeteria protein-ranch, ie rat-farm), and over by Needless Hell I'd seen hordes of hopeless co-op students trailing after a newfound leader, crying 'Give us a story, Brian!' and 'It's his shoe! It's the miracle of the shoe!!'

As yet, however, I could not determine the centre of all this activity. It seemed to have struck all parts of the campus equally and at the same time. My self-imposed mission seemed hopeless.

Worse, as my craving for mushies and a friendly daggit grew, I began to realize that I, too, was infected, and that in a few centons I would no longer be Sgt Jo Fridae but Lt Starbuck of the Battlestar Galactica.

Some time away from campus seemed to called for to cure my affliction, so I took the next flight to Buenos Aires, after first stopping at the Cathcart Towers Hotel to pick up the diamonds. Otto, of course tried to stop me, but...

Obviously, I'm worsely afflicted than I thought. Perhaps I can get Eddie to work out my personality problems to 10 decimal points.

(Jo will be commencing a short vacation in a relaxed sort of environment over the next week or so, and should be able to continue her narrative in the next installment of mathNEWS)

- Will Jo get to the heart of the matter?
- · Does she really want to?
- · Do we really want to?
- · What is this thing called life anyway?
- · Just who is that person talking in italics?
- · Has this filled the page yet?

She Was In CS Triple E

(Sung To The Tune of "You Shook Me All Night Long")

She had a Fax Machine
She kept her Keyboard Clean
She was the most technological woman I had ever seen.

She had a cellular phone
She had a PC clone
With a modem attachment she had built on her own.

Hooking up her HDTV
She put her hand on my knee
Looked in my eye and said "Do as you please".

Her circuits were quaking My joystick was aching We were shaking, There was no mistaking

That she, was in CS Triple E Yeah she, was in CS Triple E

MC/FlunkE (with help from Aug, Rich & Scott)

Anti-Social Students Clinic

Are you studying for midterms already? Do you spend Friday or Saturday nights in the CS lab? Has it been over a year since you went to a party? Do your roommates think that you're a ghost? If you answered yes to any of these questions, you may be plagued with a disease, labelling you as an "anti-social student".

We at ASSC can help you, since this disease is curable. We will teach you such important items as: how to party, how to hold your liquor, how to pick up members of the opposite sex, how to photoblast assignments so they look as if you did them, and how to fail courses. At ASSC, we have qualified people who have been in your shoes before and know what problems you're facing as you progress from anti-socialhood to socialhood. We guarantee in writing that we will make a party animal out of you!

Remember, we can help you cure this awful disease so pick up the phone now and call 1-800-666-ASSC and become a member now. Not only am I the president of ASSC, but I'm also a member.

The Procrastinator

Ultra Classifieds

R.A. Staal: FYI this course is really about mathematical logic, not math history! Leibniz is dead!

Horshack

Jo Ebergen: When does this CS 360 course get difficult?

Horshack

Professor Beatty: Are you aware that the janitor has been teaching your CS 354 class?

Sun King: I can"t make it on my own. Actually, I just don't want to.

Thinking Of Nirvana

FMC053: The magic number is 201. Unix accout to follow.

FMC022

Congratulations to SIREBOB's Lob Slobs. You finally did it!

Rick and John,

When's dinner? We're getting hungry!

Lori and Sarah

Dear Lori,

I guess you want to die young if you want me to cook for you.

Your friend,

Jeff Green, FROSH DON'T SKIP.

lungs full of water

I am looking for the red shirt I loaned a female frosh for a creeking during the King & Queen night at St. Jerome's. Please leave it with the Basement Prefect or in Rm. 12.

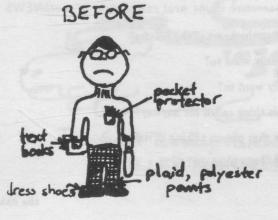
Dave Nuttall

Confidential to Sneg Jones: Freddy has a knife! Yikes!

Mr. Pavan (alias Superdave): What type of steroids are you taking? I hear they make you impotent. Then again, it doesn't matter, does it?

Horshack

Lance M.: I like a good salad. It keeps me regular.





This is not filler. We don't believe in filler. Every space of math NEWS is used towards productive entertainment of the student populace. Not tiller. Nope.

Proof of the Week

Why beer cans don't seem to hold enough beer.

Now, the volume of a beer can may be represented as:

 $V = \pi r^2 h$ as well as:

 $V = 2\pi r^2 h$

 $V = 2\pi r^2 h$

for a Tall Boy

Since $e^{i\pi} = \cos(\pi) + i\sin(\pi) = -1$ we obtain the equation:

 $e^{i\pi}=-1$

Squaring both sides gives:

 $e^{2i\pi}=1$

We now proceed by taking the natural logarithm of both sides:

 $2\pi i = \ln(1) \Rightarrow 2\pi i = 0$

Dividing both sides by 2i, we have:

 $\pi = 0$

We now substitute this value back into $V=2\pi r^2 h$ to obtain:

 $V = 0r^2h = 0$

Therefore we may conclude that the true volume of any general purpose beer can is zero, thus uncovering possibly the greatest scandal of this century.

Q.E.D.

THE, that never was and The Transcendental Bush Pig

Want Ads Policies Exposed

Recently, the investigative journalism division of mathNEWS succeeded in uncovering a previously top secret document sent to employers whose job notices appear in the Want Ads. It included the following guidelines:

- Actual job descriptions should be short, and preceded by at least one paragraph hyping your company's accomplishments but providing no useful information of any type.
- Formal classification of jobs is discouraged. In some cases, you
 may want to clearly identify positions as Junior, Intermediate, or
 Senior. Most of the time, however, jobs should be indiscriminately
 labelled as ANY. No further specification of any type should be
 given, except possibly without warning at the end of an extremely
 long advertisement.
- In addition, required work experience should have little relation to the job level requested. By no means should first year students be discouraged from applying simply because the position requires prior experience writing compilers or installing and upgrading mainframe computers.
- Job classification should, in general, be random. In some cases, many jobs should be lumped together under a single title, while in other situations it may be found convenient to scatter virtually indistinguishable job descriptions throughout the paper, preferably on different pages.
- Program specifications and job sizes should be inversely related.
 Positions open to one applicant should list 6 or 7 possible subjects, while those open to 10 or 20 applicants should list only one. Occasionally, a separate section within the job description itself should state preference for students from disciplines not included in, and entirely unrelated to, those listed above the advertisement.

-Den + Kalen

To sol of sologo ow Sale lost single for sologo ow Vapid Fire

- Rumour has it that U(W)'s Math Faculty and Toyota Canada are joining forces to design a new car. Scheduled to be released by 1991, the 'Toyota Corollary' is said to be capable of going from zero to 60 proofs in 3.14 seconds. Not to be outdone, Honda will be expected to release the 'Quelude' the same year.
- Quebec Premier Boo-Boo Bourassa announced this week that his government has been selling PCBs to many companies, including Food Services. Mr. Wasted, the purchasing manager for Food Services explained that "...students are always complaining about the amount of grease in their food. So, we decided to resolve this problem by cooking food in PCBs. The food tastes as bad as always, so nobody has noticed the switch. We feel that the PCBs add a distinctive glow to the food."
- Waterloo's newest addition to the music scene comes from a collaboration between the Math and CS departments. The hot new heavy metal band, MCDC will be playing the Bombshelter this month.
- mathNEWS has learned the reason as to why there are a shortage
 of 'N's for the events board outside of the CC, forcing awkward
 substitutions of sideways 'Z's whenever necessary. Several of the
 'N's have been used on similar signs around campus saying 'Engineers are ninnnies.'
- Yet another breakthrough has been made in the quest for a more effective fertilizer. As you may recall, the first major upgrade was discovered in 1987 when audio cassette tapes of Oliver North and Edwin Meese saying 'I don't recall ...' was first placed in fertilizer. An equally progressive find was made a year later with the addition of Ben Johnson's testimony, 'I have never knowingly taken steroids'. This most recent innovation comes from similar allegations made by American sprinters Carl Lewis and Florence Griffith-Joyner.

FREE BURGER

With the purchase of a similar burger, with this coupon.



ON REGULAR PRICED

Expires Oct. 22, 1989

The Stanley Burger Philosophy



At Stanley's we believe that each customer deserves a great tasting, wholesome meal. Every item on our menu is prepared the olde-fashioned way using only fresh, nutritious ingredients. Our burgers are made with 100% pure beef, all-natural spices, no added preservatives and are served on bakery fresh buns. We take pride in putting only the best into everything we make.

Experience the Difference of a Fresh Home Made Burger

210 King St. N. Waterloo

nth Annual Want Ad Awards

After an extensive search of this term's Want Ads, the mathNEWS staff has decided that, yes, this batch is just as horrible as all that have come before, and so, without further ado, we present the mathNEWS Want Ad Awards.

The Job Title of the Year Award is a tie between the Canadian Imperial Bank of Commerce and Eaton's, both of whom are looking for a Co-op student to work as a "Co-op Student".

The ELPE Award goes to Birnbaum Prenick Steckel & Co. They put it best when they said, "We require student who are bright and articulate."

The Dedicated Workers Only Need Apply Award goes to the Ontario Police College, whose "Work hours . . . are 1:30 pm - 10:00 am Monday to Thursday".

This year's TLA Award goes to "The Canadian Depository for Securities (CMS)", where the student uses "an IBM 3090 with MVS/XA-JES2, SNA network, CICS/VS, TSO/ISPF, COBOL, M204 and DB2."

With 39 ads, Ontario Hydro is the hands-down winner of the Public Service Commission Award. As a consolation, we give PSC the Equal Opportunity Employer Award ("Working knowledge of English essential.")

The Who's Afraid of the SAM Award goes to Computing Devices Company (A Division Of Control Data). "The Combat Systems Department of the Anti-Submarine Warfare Division (ASW) is engaged in hardware and software development of operator work station and mission control system for a naval helicopter."

The Built-in Redundancy Award falls to Netron Inc. who believe so much in multiple redundancy that they make sure you read the first two paragraphs of their ad. Eight times over.

The Oh, The Excitement is Just Killing Me Award goes to the University of Waterloo Teaching Resource Centre, the job involving "signing library items out on loan, reshelving library items, and other library maintenance tasks."

The We Bend Both Ways Award - to the Ontario Ministry of Transportation. "The student should be willing to perform a wide range of tasks and to try new things. Initiative and ability to work well both alone and with others are important."

The Be Still, My Beating Heart Award goes to the Metropolitan Toronto Police, who include under the 'Duties' section: "Taking group runs up to $4\frac{1}{2}$ miles."

The Have Igloo, Will Travel Award goes to the Iron Ore Company of Canada, who want someone to work as a Comp. Science (we are not making this up) in Labrador City, Newfoundland. No mention of travel compensation or isolation pay is made in the ad.

The Leading Edge Technologies award is rightfully earned by the City of Toronto, who are looking for a CS student to "operate high speed Xerox laser printers, secondary impact printer and other processing equipment (e.g. decollator, bindar (sic), stapler)... Mounts, files and sorts tapes.'

The I Wonder if I Qualify Award goes to the Ontario Ministry of Labour, who want students with "some university experience".

Moving on to the Employer Profile Advertising Pamphlet, we have to present the Patting Our Own Back Award to Orenstein & Partners, who are, to use their words, "UNIQUE-A successful firm of chartered accountants situated in downtown Toronto".

> Mr. Death Fish the snark Marshall Mellow

The Co-op Dictionary

Now that you know which courses to avoid in your stay here at Waterloo, it is time to prepare for the next big step in your life. This is, of course, the co-op job.

Choosing the correct job is not just a simple matter of picking up the Want-Ads and reading. It is, instead, an exercise in reading between the lines. Over the years, the mathNEWS staff has managed to pick up the hidden meanings in the Want-Ads. Here, for the first time, is a collection of some of the more common phrases, which make up the first Co-op Dictionary.

- · Your duties may include—This catch-all phrase should be a signal that the company really doesn't know what you will be doing. Beware. Your duties may include going to Florida for the weekends, but it isn't very likely. If you were hiring a co-op to do photo-copying, would you tell them?
- · You will be a member of a team which—It's good to be on a team. You get to play a part. You can contribute to the effort. But remember, not every player on the team gets to play. Some people get stuck on the bench for the duration of the game. And every baseball team has a bat boy ...
- · Provide user support-Are you one of the few lucky people who find computers really easy to use? Do you like to laugh at the misfortune of others? Then this is the position for you. Teach people where the computer's ON switch is. Show them how to insert disks into the disk drive. Explain to them that, in order to solve problems, they actually need to use software. Ability to talk on the telephone without laughing is an asset.

- · Assist with data entry-Do you like to read? Do you like to write? Then this is the perfect position for you. Data entry is the wave of the future. Look at the valuable skills you can gain. Like typing. And reading. What more could you want for four months?
- · Aggressive and rapidly growing company—Roughly translates to "We can probably cover your first paycheck." If you enjoy living day-to-day, and don't like the confines of actually having a job for four months, you should apply here.
- This is a hands-on position-Depending on the position (and on whose hands are being used), this could be an uplifting work term. Most likely, however, you will experience the joys of assembly. Not the language, but actual assembly on the factory floor.
- · Leading edge technology-Means "We like to spend lots of money on whatever IBM is flogging this month." You can look forward to the best in colour monitors (usually green and black). This should not be confused with "State of the Art", which means that the company has given up buying IBM equipment and now owns obsolete machines from other companies.
- · A self-motivated person is required-There is enough work for about three weeks, but a co-op student is required to allow the company to gain a tax break. If you take this job, you should be ready to spend much of your time drinking coffee, reading paperbacks, and pretending to look busy. Similar to "Self Starter".

Frosh Talk

In today's interview we will attempt to discover just how the Frosh mind operates. We have with us a young candidate who is from outside the boundaries of Toronto, so we'll just call him Hick. The following questions have been painstakingly designed to delve into the deepest recesses of this now numerous, but soon to diminish animal.

Interviewer: So, why did you choose to attend the University of Waterloo?

Hick: Well, after carefully reviewing all of the universities in this area and deducing which would offer the greatest opportunity for higher education in the field of my choice, I applied for and was accepted here.

Interviewer: I see, this was the closest place to mama that you could find.

Hick: Well ...

Interviewer: Tell me, what is your opinion of the social atmosphere here at the university?

Hick: I've met a lot of really swell people and I have a strong feeling that I'll finally meet someone who I can talk to and share a meaningful relationship with.

Interviewer: So you're saying that you've never been laid.

Hick: Actually ...

Interviewer: Can you give me your view of the on campus pub "The Bombshelter"?

Hick: I think that the 'shelter is the ideal place to find all of the upper year students in the afternoon, and a place to go and enjoy a few casual drinks in the evening.

Interviewer: So any more that 5 beers puts you in a coma.

Hick: No, I just ...

Interviewer: Sorry kid, that's all the time we have today. We wouldn't want to have you miss a lecture.

There you have it, we have discovered that the Frosh is a parent smoothing, beer guzzling, sex maniac, without a hope of reaching graduation. We do feel, however, that he may fit in while he's here.

Mr. ED

Top Ten Pick-up Lines Heard at Fed Hall

- 10. My, you have a nice stomach.
- 9. F**k me if I'm wrong, but isn't your name Zelda?
- 8. Can my Dad buy you a drink?
- 7. No, really, it's a very small country. Just call me Your Highness.
- 6. You know, in this light, you look just like Barbara Bush.
- 5. Don't worry about the open sores. . .
- 4. Hello, can you break a hundred?
- 3. No, I don't stuff my pants, why?
- 2. Didn't we flunk out of school together?
- 1. That's a nice ordered pair you've got there. Mind if I show you my logarithmic function?

Ernie & Friends

DR. HENRIK SVENSSON AND INGA

The famous Swedish sexologists discuss your problems in front of the entire university population

As of this week, mathNEWS is now adding this column, a comprehensive question-and-answer format column to deal with sex and your sexual problems. Dr. Svensson and Inga have been involved in sex for a very long time, ever since Henrik dropped a test tube in the lab and Inga bent over to pick it up. Inga writes:

One night in the lab, Dr. Svensson was very frustrated. His experimental evidence was not confirming his hypothesis, and his hands were shaking so badly from the cheap drugs that he was unable to adjust the apparatus properly. When he dropped the test tube, I bent over to pick it up. Suddenly, he jumped on me, making strange noises. Soon Henrik had a new hypothesis, one which, in the interest of science, had to be tested thoroughly. Hoping for a Nobel Prize, we lost ourselves in our work. Every night, Henrik would hook up the apparatus, and I, his eager assistant, would remove my clothes and place my legs in the (The rest of this article has been removed on legal advice.-Ed. note)

Dear Dr. Svensson and Inga:

I am a first-year student here at the University of Waterloo and want to be sexually active, but I have a problem. I am afraid of going to bed with someone for fear that they might be an engineer. Is there any way you can spot these types? If not, how can I avoid going to bed with them?—WORRIED

Dear Worried:

One of the very real problems facing young students like yourself is sex with engineers. Unfortunately, it is very difficult for the ordinary person to spot an engineer. Both of us have been to bed with engineers without realizing who they were. In fact, just last week we took a nice young man home and were not aware he was an engineer until we saw the Limpid Tool. The best way to spot an engineer in bed is if he uses diagrams to show him where everything goes.

Confidential to Greenpeace:

Not at all, if performed properly. Your problem is that the squirrels are allergic to the chemicals in the Vaseline. Try a water-soluble product like K-Y Jelly.

Have you got a question for Dr. Svensson and Inga? If so, drop it in the BLACK BOX outside the comfy lounge or bring it to MC 3041, the mathNEWSoffice.

Return of Math Movies

Due to recent government grants for the Canadian movie industry, U(W) has reopened its movie-making department in a bid to attract some of the money here. They will be re-releasing some old favourites as well as filming some exciting new blockbusters. Here is a sample of what is forthcoming:

20,000 Lines Written in C A Stack of the Killer Tomatoes Debit Does Dallas The Accountancy of Duddy Kravitz The Denominator Missing in ASCII Fatal Subtraction 9 1/2 Bytes Stacks, Files, and Magnetic Tape

Well folks, it looks as if we survived another week of hell. A good way to unwind and forget about the CS assignments is to watch a movie (before partying, of course). Sex, Lies, and Videotape has been getting a lot of attention and publicity lately since this movie won the International Critic's prize as well as an award for Best Picture and Best Actor at the Cannes Film Festival.

The movie revolves around a married couple, John (Peter Gallagher) and Ann (Andie MacDowell), as well as Cynthia (Laura San Giacomo), Ann's sister, and Graham (James Spader), John's friend from college. The classic love triangle exists among John, Ann, and Cynthia; whereas, Graham is involved both directly and indirectly with John, Ann, and Cynthia and is a contributing factor in the changes of their lifes.

The movie examines the sexual relationship among the characters. This examination is accomplished by making each character's qualities so different (sexually and otherwise). For example, Ann is a sensitive person who thinks that sex is overrated; whereas, Cynthia is a competitive, insecure person who has to outdo her sister. John likes to get what he wants while ignoring the consequences; whereas, Graham videotapes his interviews with women while asking them sexually oriented questions. These qualities emerge from the interaction among the characters, most notably Ann's discussions with her therapist and Graham's videotapes. The wide cross-selection of characters poses a lot of conflicts, making the movie more intriguing.

The combination of great acting, especially Spader's, and a clever, refreshing script makes the movie interesting. The foursome work well together, making the characters more believable and realistic. Some comedy scenes are sprinkled throughout the movie, lessening the movie's intensity. These scenes do not distract from the movie's focus but rather compliment it.

First time director Steven Soderbergh added intrigue to the movie by cutting away from some scenes early. This effect is not confusing but rather allows the audience to use their imagination, adding an erotic feeling to the movie. Soderbergh's directing style is consistent throughout the movie, including the ending. He cuts the ending quickly, leaving some unanswered questions; however, the movie provides subtle clues. This movie explores the characters' minds somewhat, trying to explain their actions. This focus is most evident when Ann turns the tables by videotaping Graham while trying to realize why he makes these tapes. This exploration coupled with good character development makes the characters more believable. However, I wish that John's and Cynthia's character was a little more developed. I also think Graham should have more scenes since he plays a central part in the movie, especially the

I must forewarn people that this movie is slow. In addition to the fact that Soderbergh doesn't spell everything out, some people may think that this movie is boring. As a result of the originality of the movie as well as the acting and script, I give Sex, Lies, and Videotape a 9 out of 10. I hope this movie is remembered at the Academy Awards.

Dr. Movies



Masthead

Well, here we are at mathNEWS again. Yep. And once again, we the editorship are going for the world's longest masthead. Yep. So here we

Okee dokee.

First of all, to that certain upstart GridMaster, we'd just like to say, we have ultimate power over you so be nice to us or we will do nasty things to your expense statements (we will allow the Sweden trip, but your bar tab at the Doll House is a little excessive).

Now what can we talk about ...

Well, there was the great Where's Trevor mystery, but he did indeed show up for pizza so we ceased worrying. So that was some mild excitement, soon passed, but hey, we're an easily excited lot. Just ask Rick, our old editor who we still like a hell of a lot.

Shall we discuss pizza now? Oh yes, let's.

Well we tried Gino's Pizza this time, and it was in fact quite good. But then any pizza is good. There were a few comments about having pineapple on pizza, but since both pizzas were duly devoured, we didn't take them (the comments) seriously.

Now what ...

Well, Mike and Kevin (new folk) had great fun calculating ellipse

equations for the famous MathSoc pen-on-a-string.

Production managers got to fight with the new version of Latex just installed, thereby rupturing all of our defaults (yes, for you english majors out there, that was indeed a dangling something or other or a misplaced something else, but we don't care, it's late, and we have assignments and stuff to do, so we're not going to figure out a way to make it grammatically correct).

How long is this so far?

Okay, how about we do the list of editor's little helpers now. So here they are, in black and white (kind of like a government policy), with their favourite buildings: David Nuttall (St. Jerome's Residence); David Weil (Temple of Athena on the Athenian acropolis); Stephen Sproule (Any non-government building!!!); Trevor Green (Milliways Restaurant building); Don Marks (Pathways Alcohol Treatment Centre); Rob Del Mundo (Darlington Nuclear Plant (Hey Someone's gotta like it)); Karen Smith (The CN Tower (it's soooooooo big)); Mike Rutherford (Municipal Courthouse); Mike Reade () (he didn't have one); Kelley Herbert (The invisible one); Kirsten Nelson (The Billding, naturally!); Lori Boomgaardt (anything with a bed in it); Kevin Santosuosso (The Towering Inferno); Brock Johnson (East Toronto Waste Filtration Plant); Brian Marshall (Landsdome Stadium, Ottawa); Rick McTavish (Topper Books); James Coleman (campus centre-home of those exciting GLLOW meetings); Allan Morhart (that one on Front Street in Toronto with the painting of the window on it); Niall Sweeny () (he didn't have one either); Ed Murdock (body); Stephen Smith (Stonehenge); Peter Zettler (?).

Yes, we had to share pizza with all those people. Also thanks to Graphics Services and Gino's Pizza.

And that, dear readers, should be the longest masthead to date.

Tune in next time for an even longer one, perhaps. Then again, perhaps not. Depends how much filler we need.

Don Karen MarkSmith, head of the mathNEWS mafia

caesthically pleasing

mathNEWSquiz #2

(NOI T:1164)

Well it's Monday night and the mathNEWSquizmaster is dilligently writing away, aiming to entertain the mathies who will be reading yet another great issue by Friday morning. (All right, enough with the useless introduction, who the hell won?) This week's winner came one question shy of perfection, scoring an incredible 15 out of 16. He was so incredible, he even corrected a minor error in the last baseball question. Not to worry though, the mistake did not factor into anything major, since most people got the correct answer anyway. Our winner, Mr. Rat, can pick up the prestigious Certificate of Merit in MathSoc, MC 3038.

The runners-up and their scores are as follows: Magician(12), Edmonton Euler(11), The Rookie(10), 'PJ'(10), The Keener-Killers(8) The Metal Master(7), Sharkey(6), DT Bomber(4), and Willimena(3).

Answers to Squiz #1:

- They have each broken up Dave Stieb's no-hitters with two outs in the ninth inning (bunch of bums).
- 1.00
- · California Angels, with whom he spent most of his AL career.
- · Mark McGwire, or Andre Dawson, who both hit 49.
- · Steve Dallas
- · Reichardt (had to go back a LONG way for that one)
- · Chip, Dot, Ditto, and Trixie
- · Dennis the Menace
- · Queen's
- St. Mary's or Saskatchewan
- McMaster
- UBC
- · Mark David Chapman
- · 'Can't Buy Me Love'
- · Ontario Provincial Police (Canada, eh?)
- · 'A Day In The Life' (my all-time favourite song)

Thanks for the entries, guys/gals, keep 'em coming. Next deadline is Monday, October 2, 7:00 P.M. That's right, you've only got the weekend, so hurry, hurry! With no further ado, here's round two:

Night Court

A tribute to TV's greatest show.

- 1. What did Harry name his stuffed armadillo?
- 2. With whom did Dan have a sexual encounter in his hospital bed, rendering him comatose?
- 3. How tall (or should we say short) is chief prosecutor Vincent Daniels?
- 4. Who were the unfortunate Slavics who had their hot dog cart swept away by a tornado?

Canadian Music

With which band would you associate the following vocalists?

- 1. Neil Osborne
- 2. Chris Tait
- 3. Jay Semko
- 4. Greg Keelor

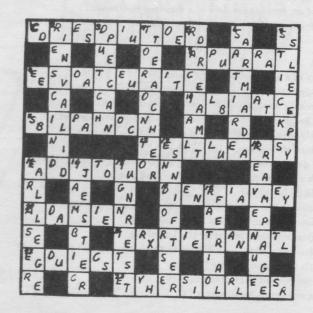
Science

- 1. Which two elements are alloyed to produce steel?
- 2. What is the name of the hypothetical planet thought to orbit the sun closer than Mercury?
- 3. What unit of measurement is defined as one minute of equatorial longitude?
- 4. TV watchers recognize the words 'An object at rest tends to stay at rest. An object in motion tends to stay in motion.' from a Reebok commercial. Which physical property is described here?

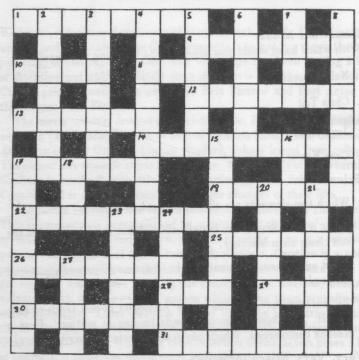
Very, Very Miscellaneous

- 1. This flop starring Lea Thompson, Jeffrey Jones and a feathered alien was anticipated to be bigger than E.T. Intelligent movie watchers had other ideas. Name the 'film'.
- 2. This British new wave band peaked in 1984, selling out concerts to 15-year old girls. However, it's been downhill since, and their latest album 'Big Thing' wasn't one. Name the group.
- 3. Tommy Douglas was the first leader of these consistent third-place finishers. Who are they?
- 4. What American patriotic song forms the basis for the geeky tune that begins 'We are, we are, we are, we are, we are the engineers'?

Sleek
The mathNEWSquizmaster
That's me!







Cryptic

- 1. Vote the right Chip into power (8)
- 9. The goblin secreted itself directly behind these flowers (7)
- 10. Love the smell left by the Greek money (4)
- 11. Space station German to me (3)
- 12. Flawless Reagan party, back before the iron state (7)
- 13. Dehumidify and ret the timber fungus (6)
- 14. Hardy heroine directs the tardy covering with tiles (9)
- 17. Dress and coagulate the male (6)
- 19. Weak contained company (6)
- 22. Greek letter when one occupies a moon of Neptune, diet corequisite (9)
- 25. A number to reverse a log base in yang's counterpart (6)
- 26. Rechecks and revamps the streets (7)
- 28. A sharp hill decays back (3)
- 29. Stagger about the engineering building (4)
- 30. Beat an accountant, lair of a hundred electrons (7)
- 31. Querulous soft mediæval guitar reflected on an insect (8)

Down

- 2. Party of a sun-god amidst slander (7)
- 3. A copper record, the right thing for the guilty party (7)
- 4. Feverishly weak about the glove, Tolkein's intelligent tree (9)
- 5. You are in an army body for a collection of writings (6)
- 6. Rarely seen is the old wound of the endless top man (6)
- A blaze of loud anger (4)
- 8. One drunk woman, a thousand of the same temperature (8)
- 15. Silk extruder rotates the seine around about (9)
- 16. A little boxer (3)
- 17. Decrease the size of the prisoner's religious pamphlet (8)
- 18. Choose a designer label for the period (3)
- 20. Enjoyable times left after the burial (7)
- 21. Adolescent after the pitch up to thick woolen twill (7)
- 23. Nuts among the stable (6)
- 24. Synchronised part of the foot (6)
- 27. Correct up to high waters (4)

Off with his Grid!

We had a surprisingly good response for the first grid of the semester-18 cryptic (2 incorrect) and 6 conventional (none wrong) answers submitted. This week's submitters were: (Cryptic) the snark; Mishelle Ducedre; Da Jif; EEK!; Macgician; 6th Floor Wanderers; Millenium Falconer; Vistlik the Romulan; Sharkey; fletniowski; The Edmonton Euler; DT Bomber; Travelling Salesman; Lance Sibley; H.H.O.W. (House Husbands of Waterloo); Lillipop; Weird Al; (Conventional) Vistlik the Romulan; G18912; United Anarchists; Weird Al; Sharkey; The Edmonton Euler; and the incorrect submissions came from Digital Door and Willimena.

Favourite Xenomorphs were (BTW a xenomorph, for those who saw not Alien(s), is an alien being or lifeform) Barbapapa; the 6th floor of MC; Ross, who looked up valetudinarian for me; Don Rickles; none; Sally Jessy Raphael (10 am CBS); The one hiding in my closet; Myself; the ones that come in specially marked boxes of Frosted Flakes(tm) boxes; I don't understand!; What the hell's a Xenomorph? [See above - L.S.]; IKKIN; Teenage Mutant Ninja Turtles; Say what? That word's too long!; Amazon Women (from the Moon); Yoda; What the hell's a Xenomorph? [Et tu Brute? - L.S.]; A.Z., C.T. & S.I.; pugsley; Ogopogo;?

Comments: Stop not before a tailless ode; Jays, Choke, Augh! (OK it's kinda dumb); We don't mind living in a "woman's" world as long as we can be house-husbands in it. - para-phrasing Marilyn Monroe; Close the roof!; 23A should have been "Calculus text"; May Thesaurus be with you; Go Orioles! [Die Traitor - L.S.]; This is getting silly, very silly. Nobody enjoys a good Grid more than I do, except...; snazzy; Gridword & sleeping in class - now the term has really begun: Subconscious, backwards treasure beyond the mixed grid for icon. (10); What the heck is a xenomorph? [Sigh]; The first one I finished and I'm only in 4A!; Doubleplusgood, not to say egregious, dude; RVLLYKCL:); "Imagination is more important than knowledge." - Albert Einstein; Iliac? "Torinto"? [Spell checker only gets 'em if they aren't words - L.S.] Kai the GridMonster! I liked it.; Mom, send money for a thesaurus; none; Think Palm Trees; The possibilities are limited.

The response was great, but now we get to see how well you can do in only 3 days. As far as I have been told, the next issue will be out next Friday (Oct. 6th), so you only have until Monday at 19:00 to submit your solutions in the BLACK BOX or under the door of mathNEWS (MC3041).

This week's winners are: Millenium Falconer (Cryptic) and Sharkey (Conventional) they may pick up their prizes (Pat willing) in the Math-Soc office, MC3038.

Go Jays!!!!

Lord S'Djawkheril

Conventional

Across 1. Rectangular church 2. Neophyte 9. Cortege 3. Incompetently 10. Scourge 4. Mediate 11. Child's game 5. Merchant vessel 12. Wealthy 6. Threaded 13. Region 7. Stake 14. Very low temperature

- 17. Tartan-like sock pattern 15. Protest 16. Profit
- 19. Shove
- 22. To glow 25. Awning
- 26. Offense
- 28. Winter pasttime
- 29. Image
- 30. Short tale
- 31. Winch

- 8. Magical symbol
- 17. Abundant
- 18. African Antelope
- 20. Ancient timepiece
- 21. Light particles
- 23. Verily
- 24. Fluctuate
- 27. Covey

