

only reason to get up
on a winter
Friday

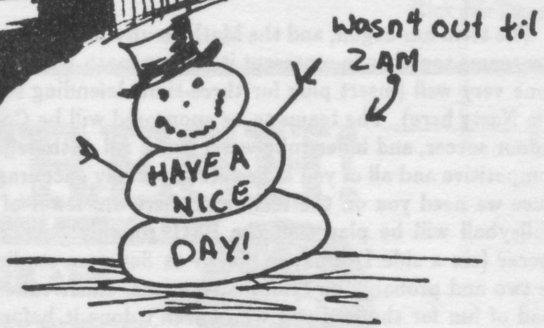
math NEWS

Friday, January 13th, 1989

Volume 49 Number 1

8:30 classes

-15°C
(-30°C
chill
factor)



wasn't out til
2AM

The MORNING After
the NIGHT Before

or

Friday the 13th Part II 26759

LookAhead

Cinema Gratis	
January 18	Dole Bananas Never Cry Wolf
January 25	Reds
February 1	Brazil Manhattan
Fed Flicks	
January 13,14,15	AL113 at 7 and 9 pm Rocky Horror
January 20,21,22	Above The Law
January 27,28,29	Good Morning Vietnam
Math Faculty	
January 17	End of Add/Change Period
January 31	Drop Course deadline
March 2	1B Information Night
Co-op	
January 16	Resumes due by 4:30 pm
January 20	Want Ads available at 11:00 am
January 23	Job Applications Due By 4:30 pm
January 24	Late Postings Begin By 1:00 pm
mathNEWS	
January 23	production night, Issue #2
January 27	Issue #2 hits the stands

Chair Chat

Welcome back! Well, this is our last term here, for most of us and your math grad committee is trying to make it your best yet.

Let's start with asking, actually begging, for candid photos of our graduating class. Please, go crazy, take pictures of people you don't like, get people to pose (nothing rude, of course). Whatever, just get those pictures in to the envelope on the MGC door, MC3042, or to our mail slot in MathSoc. If you want your picture in our yearbook, it's up to you.

In the next while we have the following events:

- Jan 14 Yearbook layout session 1:00 at MathSoc
Come out and help!
- Jan 19 Math Grad party at Heuthers' Upstairs (formerly Kent)
- Feb 2 Math Grad trip to Quebec Winter Carnival
Limited space available, so see Ritch or Greg for details
- Feb ??? MGB—cocktails start 5:30 Bingeman Park
Book your own limos now! MGB has arranged a 20% discount at Budd's Tuxedo Rentals on all formals

That's it for now. If you have any comments or questions for Ritch or Greg, drop by MC3042 or leave a note on our board in MathSoc.

Ritch Lodge
Greg Mushumanski

ISSN 0705-0410

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Editor: Rick McTavish

Obituary

AM Prof Dead at 54

Applied Math professor Dr. Roy Wentzell died of a heart attack on the 13th of December.

Dr. Wentzell, who did research in the area of fluid mathematics and taught calculus to lower-year students, had been at UW since 1965. He was known as gentle and kind, and was an avid hiker.

A native of Nova Scotia, Dr. Wentzell received his B.Sc. from Acadia University in 1958 and his M.Sc.(1960) and Ph.D.(1964) from U.W.O. He served as the Associate Chairman of Graduate Affairs in the mid-1980's.

Prez Sez

There just ain't one.

Frank Booth

Election Time

We would like to announce the upcoming MathSoc Election. The nomination period ends at 4:30 this afternoon (Friday, January 13, 1989). The positions open are President, Vice-President and Treasurer. There hasn't been an election during the Winter term for quite some time. Your reluctant CRO, whoever it will be, doesn't care to see an election either, but democracy rules. If you feel inclined to run, by all means drop by the MathSoc Office for a nomination form. We also need class representatives for 2A and 3A. And now I shall bow to the god of acclamation.

Not The CRO

Mathletics Are Here Again !!

The term has begun, and the Math faculty has decided to try to get a few teams together to represent it. Other math teams in the past have done very well (insert plug for three-time defending soccer champions Die Nasty here). The teams to be sponsored will be Co-Rec volleyball, indoor soccer, and inner-tube water polo. All of these leagues are non-competitive and all of you ladies are especially encouraged to come out since we need you on the team and there are fewer of you out there. Volleyball will be played in the PAC, roughly once a week. Indoor soccer (six a side I think) is played at Seagram stadium, every week or two and probably on Friday afternoons. Inner-tube water polo is a load of fun for those of you who haven't done it before. Sign-up lists for all three teams are outside the third floor C+D. Sign up now, since some of the sports have to be submitted today! We already lost out on a broomball team, since only two people signed up and the deadline was Monday—for any one who did want to play, go to the captains' meeting (see Campus Rec booklet for time) and you may be able to get on someone else's team. Join one or more of the faculty teams, have fun, and get your name in mathNEWS. If you have any questions, leave a note with Mathsoc.

Dave Balkwill
Mathletics Rep

BMath Changes

On Thursday, January 5th at 7:00 p.m. in DC 1351 about 300 curious Math students gathered to discover the implications of the changes to the BMath degree. In a presentation given by Arnie Dyck, Associate Dean for Undergraduate Studies, and Peter Brillinger, Director of Undergraduate Affairs. The following details were given:

- 40 courses are required for a BMath of which 20-28 must be math courses and 10 non-math
- the minimum graduating math and overall averages are 60%
- a minimum of 8 terms is required of which 4 must have no failures for at least 5 course attempts
- the maximum number of course attempts is now 50 half-credits with a maximum of 6 half-credit failures

These changes will take effect commencing with students graduating in May 1990 providing that they have been registered in at least one term with a minimum of four half-credits in 1990. CA and Teaching Option students are exempt from the one term requirement.

The new 89/90 Undergraduate Calendar with all of the changes will be available in late February.

Rick McTavish

General & Pass Programs

The old Honours and General Programs have been combined into a new 4-year Honours program. This program has the requirements listed under "BMath Changes".

The old Pass Program has been renamed the 3-Year General Program with the following changes:

- the minimum required half-credits are now 30 of which 15 must be math courses and 10 non-math
- the maximum course attempts are 40 half-credits

Students eligible for the new 3-year General Degree are those graduating in the May 1990 Convocation provided that they have been registered for at least one term in 1990.

Rick McTavish

2B Calculus & Algebra

Required or not?

For the new 40 half-credit BMath. schedule, 2B Calculus and Algebra have been removed from the core course requirements. MATH 230B is now called AM 231, and MATH 234B is now PMATH 336, and they are only required for graduation if they are listed under individual Programme requirements or as course prerequisites. The following table shows the various BMath. Honours programmes, with an 'R' indicating that the course is required and an 'S' indicating it is on a short list. A '-' indicates the course is not required, but it may still be needed as a prereq for other courses.

Programme	AM231	PMATH 336
Act. Sc.	—	—
AM	R	—
AM / CS	R	—
AM / EEE	R	S
AM / Phy.	R	—
C&O	—	R
C&O / CS	—	R
CS	S	S
CS / EEE	S	S
CS InfoSys	—	—
OR	—	S
PM	—	R
PM / CS	—	R
PM / Stat.	—	R
Stat.	—	—
Appl Stat. / EEE	—	—
Stat. / CS	—	—
Inter-Dept.	S	S
BA, CA, MA	—	—
BA, CA, MA / CS	—	—
Teach. Opt.	—	S

Richard McTavish

FRESH!

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REG. POP

now only

\$3.89

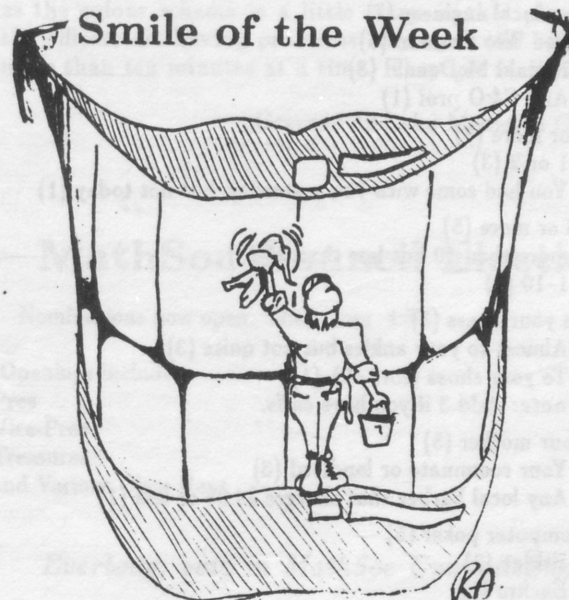




216 KING ST. N.
WATERLOO
885-1888

across from WLU

"taste the difference of a freshly made burger."



Doctor Squid Speaks...

In today's column, the Doctor attempts to answer the most commonly asked squid questions: What is a SQUID? Am I a SQUID? Is there a cure? All potential squid candidates are directed to the following questionnaire.

Squid Diagnostic Test

Answer all questions honestly. Do not look at any solutions until you've written down something for each of the 10 questions.

1. What's your favourite colour?
2. How many pocket protectors do you own?
3. What's your favourite newsgroup?
4. If you have a favourite celebrity squid, name him or her.
5. What is the number of floppy discs on your person right now?
6. If you are at home, count the number of discs on your desk — otherwise estimate.
7. How long are the pants that you are wearing today? BONUS: Do they have cuffs?
8. Who cuts your hair?
9. What's your favourite card game?
10. Do you own any leather? Be specific.

Finding your S.Q. (Squid Quotient)

Start with a score of zero. For each question, if your answer matches one of those given, add the number of points in parentheses; otherwise, add zero. Subtract 10 from your final score if you cloned any answers while doing this quiz.

1. Plaid (5)
Beige or Brown (3)
Lime Green (1)
2. Count 1 point for every pocket protector you own.
3. talk.squid.* (7)
talk.bizarre or rec.humor (not .funny) (5)
.star.trek (3)
.drwho (1)
4. Any local engineer (7)
Pee Wee Herman (5)
Ronald McDonald (3)
Any C&O prof (1)
5. 3 or more (5)
1 or 2 (3)
You had some with you yesterday, but not today (1)
6. 25 or more (5)
more than 10 but less than 25 (3)
1-10 (1)
7. To your knees (5)
Almost to your ankles but not quite (3)
To your shoes (sort of.) (1)
note: Add 3 if you have cuffs.
8. Your mother (5)
Your roommate or landlord (3)
Any local barber that charges \$4.95 or less (1)
9. Computer poker (5)
Bridge (3)
Euchre (1)
note: If you don't really like cards, but you're really into D&D, add 7 points.

10. Only the stripes on your running shoes (5)
no (3)

Interpreting Your S. Q.

If you scored:

More than 35 *Beware.* Serious squiditis has set in. Go up to the 6th floor of MC and take a good look around. This is where you'll spending most of the rest of your life. The Doctor regrets to inform you that there is no cure.

16 to 35 Welcome to Mild Squiddom. It's not too late to save yourself. Spend less time in the Billding and get some hobbies. (Table Tennis doesn't count.) Spend less time reading the manual for your calculator. Have you considered taking up squash?

0 to 15 You aren't a squid yet, but you could become one soon. Have your friends keep a close eye on you. Stay away from K-Mart, and carry a large magnet if at all possible. Don't let squiditis happen to you.

less than 0 Thank you for choosing UW.

Dr. Squid



CSCFlash

Well, hi, sports fans, this is HALum, your friendly onboard club's computer, and they're getting me to write all these CSC Flashes and try to make them sound sweet and light and attract new members. Well, here goes!

... Anyway, Hi from the land of The Club—the only club on campus, might I add, with its own computer hooked up to Sytek. The CSC is holding its elections...er, yesterday. Well, you can't win 'em all. If you want to find out who did win, drop by the CSC Office (that's MC3036/MC3037) and someone will tell you. Oh yeah, and while you're there you can pick up a Club membership for Just One Dollar, yes, that's \$1.00. For this you get free tea in the CSC office for the whole term, and an account on the HAL 9000 computer (that's me!) which is hooked up to Sytek so you can use it from *anywhere!* And another bonus—you get to borrow books from our extensive (5-shelf) Library of Computer Books, Pamphlets and Periodicals.

One other thing... we have a very important speaker coming to campus on Friday January 20 1989, at 5:00 pm, in the Theatre of the Arts. His name is Bill Gates, he's from Microsoft Corporation (all the way from the State of Washington!) and he'll be speaking on (and I quote) "Future Goals and Directions of Microsoft". So go out and see him, and tell him that HAL sent you!

If you need to know anything else, drop by for a cup of tea. Or else.

HALum T. Dalek

Prof Quotes From Hell

'Worst of' Collection

Well kids, the fall was another banner term for quotes from professors. We got some pretty bizzare ones (and they say some pretty weird things too). Here are some of the better quotes from the fall.

Don't forget to send us your quotes. Remember if it wasn't for this article many of your profs wouldn't have any indication that anyone was listening to them. Drop quotes in the **BLACK BOX** or under the door of the mathNEWS office, MC 3041. And remember, kids, your professors are trained professionals, so don't say these at home.

"You are supposed to spread people out, not hump them."

W. Aitken ActSci 231

"... bring beer to the final. ... Right! It'll be an open bottle final. Please don't quote that in mathNEWS."

M.J. Best, C&O 350

"Don't drink and drive; Too many people are caused by accidents."

B. Lawrence, Mthel 100

"Are you guys crazy? I'm not going to do it. I'm the prof. I can say 'dot, dot, dot.'"

G. Tenti, AM 381

"That was a good blow."

G. Holmes, Music 101

"... very attractive; just like a woman in heat ... er, wombat in heat, just like they say down in Australia."

I. McGee, AM 271

"Now class, I don't think you should quote me anymore. I'm in enough trouble with the chairman and especially my wife."

I. McGee, AM 260

"I suggest my book on vector algebra. Incidentally, if any of you are thinking of a Christmas gift ..."

Davis, MATH 234a

"Shit! ... I'm hopeless, there's no other word for it. Oh, that's already been quoted in mathNEWS."

B. Marshman, AM 270

"Here we have a box that could possibly hold all 'r' balls ... pardon me, all 'r' of the balls."

J.G. Kalbfleish, STAT 240

"What do you do when you see this equation? Besides barf."

Goulden, C&O 230

"All I can say is that I'm glad that you're writing the midterm an not me."

Davis, MATH 234a

"It's nice to get a proposition once in a while."

Anderson, MATH 134a

"I'm so disappointed. I keep saying outrageous things and I never get quoted."

C. Struthers, Stat 230

Vapid Fire

Or All the News That's Print to Fit

- Intensive research has finally uncovered the meaning of the ratings system used by *Imp'tint* for their record reviews. Apparently there is an inverse proportionality between the number of dogs/handguns/she-devils and the quality of the record. "We're surprised it took everybody so long to figure it out," said a spokesman, "Jeez, did you think we liked those albums? We just bought them because we wanted to see how long we could keep publishing reviews of records that no one has ever heard of."
- Well it's FED election time again and mathNEWS has just been informed that everybody's favourite VPOF, Shane Carmichael, is running again, but this time with a twist. Insiders in Carmichael's organization say that he is planning to run for all three FED executive positions. "We're sure he can handle it," our insider told us, "look how well he's done as VPOF. Besides, it's all part of his plan for world domination. Remember, Shane is watching you."
- Controversy continues to rage as the Free-Trade debate comes to good old U(W). The U.S. and Canada are trying to resolve a bitter disagreement over the definition of the word "engineer." Specifically, Waterloo is trying to get the definition changed from its current "Uneducated bottle opener-worshipping nerds" to "A bunch of great guys who would never have anything to do with anything as ridiculous as a 90 ft. crescent wrench. Really." Talks continue.
- CPI International has confirmed that over twenty big name music artists will tour 24 major countries, including Canada, in a world wide loser relief benefit, aptly titled "Lemon Aid." All proceeds from the tour will go to aid hopeless causes around the world such as: Ben Johnson, Ed Broadbent, Mike Dukakis, Shane Carmichael, the Buffalo Bills and the Toronto Maple Laffs.
- Waterloo police are investigating eyewitness reports that gangs of vandals have been entering Davis world and dumping large buckets of paint all over Waterloo's newest beauty spot. When asked how the investigations were proceeding a spokesman was quoted as saying, "Well, we're having a little trouble finding out where the actual crimes took place as the colour scheme is a little crazy in that place. Also, the officers are having problems staying in the building for more than ten minutes at a time. They get really sick."

Greener and the Medieval Gladiator

MathSoc Council Elections

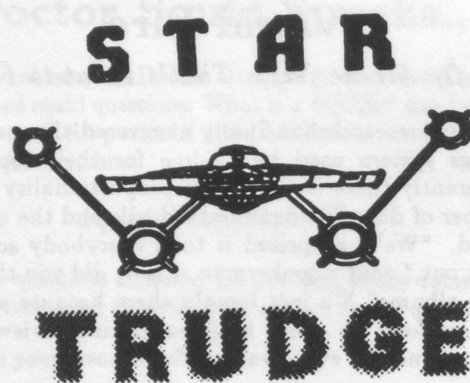
Nominations now open. They close 4:30

Openings include:

Prez
Vice-Prez
Treasurer
and Various Class Reps

Everybody, vote in MathSoc Council Elections

Mon-Tues Jan 23 & 24 in front of C+D



Day of the Duck

From deep within n-space paddles the Duck (at Warp Quack). Clearly, the Duck is not an ordinary duck. This device-in-search-of-a-plot likes it when people are mean to each other. Since everyone knows that the Wateration and the Cling-ons don't get along, it is a great time for the official "bash the Cling-ons" adventure.

Waterloo, the final frontier . . . These are the voyages of the W.U.C. Watprise on an eight term mission to explore new faculties and make contact with strange frosh everywhere . . .

(THEME MUSIC)

Starring: T.J. Jirk, captain of the Watprise
 Spockeroo, first officer
 Dr. "Boner" McToy, chief medical officer
 Mr. Scotch, chief mathematician
 Lt. Uheardit, communications officer
 Mr. Yahu, helmsman
 Mr. Gorbachev, navigation officer

Captain's In, Watdate 8901.13

The Watprise is on a routine mission, delivering Oreo cookies to Alpha Beta Gamma. As usual, Boner is hanging around on the bridge with nothing to do. I sure wish something exciting would happen.

T.J. looked up just in time to see an on-coming ship splash cosmic space slush all over the Watprise. "We just had it washed!" McToy screams, "I hate it when people do that!"

"Now Boner, remember the prime directive: Be Nice." Just then, the Duck appeared on the bridge. "On the other hand...Gosh darn it! That makes me mad! Mr. Yahu, turn this buggy around. Gorbachev, Warp Let's-get-those-guys."

Spockeroo asked, "Who are the bad guys in this adventure?"

"I can't even see them!" blurted McToy. "Spockeroo, you're the indispensable bridge officer: get out there and clean off the wind shield," ordered Jirk. "Okay, it's only slightly dangerous." The bridge crew patiently waits as Spockeroo's ears obliterate visibility. As we fade for a commercial break, McToy quietly pressed the intership intercom activation button to remind Nurse Cathedral to order Vector-sized Q-tips.

Captain's In, supplementary

The Watprise is in hot pursuit of a Cling-on cruiser, just like in the movies. Spockeroo hollered, "They're turning!"

"Mr. Yahu, lock photos on target. Take the picture when I say so." Yahu wondered why Jirk always breathes down his neck every time there's something complicated to do. "Okay, cheese!" said Jirk. Yahu hollered, "Ya-hoo, we've got a great photo of them shooting at us. What great Star Trudge memorabilia!"

"Number four reflector is hit!" Spockeroo hollered as usual. Ensign Joe Director jumped up from the dramaticam station. "You guys are doing this all wrong! You forgot to fall from your chairs. Everyone fall to the right!"

Wham! Everyone falls. Uheardit, who was facing the other way, fell in the opposite direction. Jirk did a swan dive over the helm console, 'cause he's the captain. "Number four reflector is gone." Spockeroo straightened and looked very serious. "We are now in violation of intergalactic cycling regulation." McToy said, "Elmer the safety elephant is gonna get us."

"That does it!" hollered Jirk. "Scotch, assume we're legal."

"The Cling-ons want to talk," called out Uheardit. A swarthy face appeared in the windshield. Jirk exclaimed, "We'll never surrender! In your face, jerk!"

"How did you know I was Captain Kerk?" (it's pronounced "jerk", but all Cling-ons have names that start with a "K"). "I don't want you to surrender."

"That's telling him, T.J.," said McToy.

"I want to brag about our plan to take over the centre of the Wateration: Federation Hall. Not only that, you're a jerk, Jirk!" With that, the cruiser disappeared. Uh-oh, now there's tension on the bridge of the Watprise.

Captain's In, Watdate 8901.14

The Cling-on cruiser is hovering above FED Hall. Spockeroo reports that it has been conveniently evacuated, but is emitting deadly radiation. There is no danger since the Waterloo University campus is already accustomed to radiation. I'm still so steaming mad that I haven't noticed a Duck sitting on the bridge.

"Shall I assume a standard orbit?" asked Yahu. "Assume anything you want! Hey, that reminds me: Watfleet increased our special effects budget. Scotch assume there's a blast-the-ship-to-hell-forever button. Gorbachev, use it or lose it."

"I eye," chortled the young officer. BOOM! No more Cling-on ship. Jirk said, "Alright, the Cling-ons are around here somewhere, let's faze them out." Ensign Director interjected, "But Captain, that's not dramatic enough." "Right. Scotch, assume that everybody but W.U.C. frosh have swords. Spockeroo, senseless readings."

"Captain, this is not not illogical. There's some kind of commotion in FED Hall."

Uheardit interjected, "Captain?" "What is it Lt. Are you frightened again?"

"I've given that up; you get so chauvinistic. I've got a distress call: swarthy dudes are attacking frosh in FED Hall." Scotch and Yahu pulled out their swords with bubbling anticipation. "I'm not letting you two loose in FED Hall. Fight it out for the command chair when I'm gone. Spockeroo, organize a landing party of n minus two." With that, Jirk popped out of his chair and headed for the transformation room with Spockeroo, McToy, and Gorbachev at his heels.

As usual, chief mathematician Scotch saw personally to the indefinite integration. Fortunately, the value of constant C does not matter, even in practice. The scenery shattered and the landing party was differentiated in FED Hall.

With glee, Jirk cried out, "A-ha! There they are! En garde!" Ensign Director yelled, "Action!" Needless to say, there was a major sword fight at FED Hall.

To Be Continued

THE ADVENTURES OF WATMAN



Alive?

When we last left our dynamic dodos, they were dead.
... nanaNANANANAnana ...

We take you now to Limbo (the place where dead mathNEWSserials go), where a rather curious conversation takes place...

"Duck?"

"... Yeah?"

"That you, Duck?"

"I think so. Watman?"

"Yeah?"

"Oh, I thought we were dead."

"So did I. I think."

"Therefore..."

Poof. Poof.

"We are!" Watman and Duck shouted in tandem.

"Holy Holy of Holies, Watman!" exclaimed Duck.

"Exactly, Duck. But what are we doing in the Math C+D?"

"Well, let's find out. Coke?"

"You know I don't do drugs, Duck."

A look of pained exasperation, not unlike what you, dear reader, look like when you find your dog dead in the middle of the road for the second time in an afternoon, crossed Duck's face. "Classic?"

"They don't serve beer at the C+D."

"Deus ex Machina?"

"Whazzat?"

Suddenly, inexplicably, a loud 'BIFF!' was heard, and Watman and Duck found themselves seated at adjacent computer terminals blinking 'HONEYWELL'. At a loss for words, Watman said "!"

"Holy Plot Device, Watman!" Duck whispered roughly.

"Do you realise what this is, Duck?" Watman asked, pointing at the screen.

"Yes," commented Duck, pointing as well.

What both of our dynamic pointers realised was that in the last episode, in an effort to rid themselves of the serial for all time, the mathNEWSeditors archived Watman and Duck's remains in the deepest recesses of the Honeywell system. In order to truly be revived, Watman and Duck must de-archive themselves within two weeks, or the next installment of this serial will have them die yet again! Does this installment sound like it's signing off? Well, something else has to happen before we go into the routine of asking the stupid questions at the end yet.

And surprise of surprises, that very thing is about to happen, so let's return to our heroes.

A loud banging noise starts up outside the door.

"Who is that, Duck?"

"Well, let me put on my Wat-Xray specs and find out!"

"Wat-Xray specs?"

"The ones I mail ordered from a comic book."

While Watman ponders this, and wonders how this is possible, seeing how not two minutes ago they were dead and archived, Duck puts on the Wat-Xray specs.

"There's a bunch of skeletons out there pounding on the door with X-acto knives, Watman!"

"Holy... Whoops! That's your line!"

"Should we open the door and see who they are?"

"I have this hunch we shouldn't, Duck."

"Do you realise what this means, Watman?"

"Yes."

"Good."

- What does this mean?
- Will the two manage to find their archives?
- Will a bagel and cream cheese ever taste the same again?

Stay tuned to this paper (same time, same place) to find the answers to not these, but any other questions you might be asking yourself, in the nanaNANANANAnanane next edition of ...
[insert your favourite serial name here]

The Chuckler
with apologies to Rene Descartes

History of Watman

On January 17, 1986, Watman made his first appearance. Since then he and his sidekick Duck have gone through life and death together. The following is their history:

- Vol. 40 #1, January 17, 1986: Watman & Duck first appear
- Vol. 40 #8, April 2, 1986: Watman & Duck killed by The Chuckler
- Vol. 42 #1, September 19, 1986: Watman & Duck come back to life
- Vol. 43 #6, March 27, 1987: Watman & Duck killed by IRON MAIDEN mascot Eddie
- Vol. 44 #1, May 15, 1987: Watman & Duck revived
- Vol. 45 #2, October 2, 1987: Watman & Duck x-acto knifed to death by mathNEWSco-editors
- Vol. 46 #2, January 29, 1988: Watman & Duck strewn across the Conestoga Parkway.
- Vol. 47 #1, May 13, 1988: Watman killed by Swami Brock (with a killer tap-dancing routine)
- Vol. 49 #1, January 13, 1989: Watman & Duck are back

The Chuckler

Wilburys Cut Travel Costs by 20%

Wilbury's Travel, serving the community for nearly eight weeks, is pleased to announce that we are cutting the prices on many of our unbelievable tour packages. Save up to 20% on exciting trips abroad, to wonderful places such as:

Japan—Marvel as we attempt to stuff over 600 passengers onto a stretch 747 and pray that it is able to get off the ground. For urban dwellers only. Whale-hunting expeditions can be arranged.

Libya—A once-in-a-lifetime opportunity! Be one of the few citizens in the western world to ride on a genuine Soviet Mig! Daring rides over the Mediterranean, with the emphasis on "adventure". Tours of the local industries can be arranged, as well as attendance at a real-life "Death to the American Satan" protest. Bring your cameras—you won't want to miss this one.

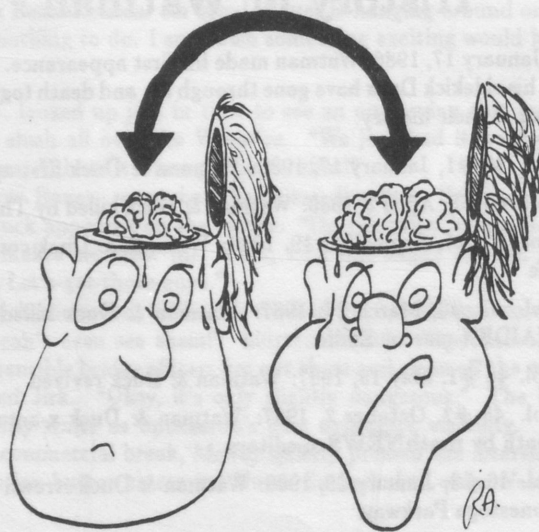
Lebanon—Need we say more? Enjoy a fun-filled week in the country that everybody wishes they had a bit of! Explore the ancient ruins, as well as the modern ones. Watch them created before your very eyes! There's no telling what can happen, in this country that never sleeps! American military personnel, however, are advised to pass this package up.

Iran—Your tour guide Fahkeem will take you on the cruise of your lifetime! Explore the Persian Gulf aboard a genuine freighter, and see the sights that the whole world is talking about. Shuttle trips to Saudi Arabia leave daily. Be prepared for a real blast of a time!

England—Tours of this quaint historical country have been arranged with the Boeing company. Where will you go? From where will you take off? Where will you land? Will you get there? Surprise is the keyword, as you see the British Isles in a way you never have before. Overnight trips to Belfast are available for a limited time only. See sectarian culture at its finest!

Quebec—An adventure tour for the strong-willed only! You are sent to the deepest, darkest confines of the Laurentians, with only a knapsack and a copy of the Coles' English/French phrasebook. Attempt to find your way out of this unilingual forest of storefronts, without letting on that you are an anglophone! For Meech Lake fans only.

The Milkman That Nobody Knows



BRAIN TRANSPLANT
IN ONE EASY STEP

1988 My-Choice Canadian Music Awards

1988 has seen Canada develop even more musical talent, and become more internationally recognized, than ever before. Certainly, they are much better than some lauded conglomerations whose names appear in other 'publications' and autopsy reports. So, here are a few awards for the Canadians, as well as the Canadian All-Star team. My apologies to those of you who may not have heard of some of these people and/or groups, but rest assured that all of them are respected and talented musicians, some from rock, blues, jazz, and classical.

The Best-Darn-Rocking-Album-Of-The-Year award goes to Rush for *Hold Your Fire*. While it is quite different from their earlier stuff, it's a new kind of quality rock 'n' roll from them, somewhat like *Power Windows*. Lee, Lifeson, and Peart also receive the Golden Pen award for the best composers and lyricists around today, making songs and words that fit together to say something meaningful, rather than 'Hey babe, you're really cute.'

The Where-Have-You-Been-All-This-Time award goes to Robbie Robertson who suddenly reappeared in the recording studio after a ten year sabbatical and gave us a wonderful and variegated album showing the influences from his early days with The Band, as well as his recent maturing processes, with help from several other well-known performers. Please pick up your free alarm clock at the mathNEWS office.

The Let's-Rip-This-Bar-Apart award goes to Jeff Healey who has burst on the scene in the last couple of years to give us the most awe-inspiring raw-energy shows for many years. He also has the distinction of being the only one alive (aside from maybe Stevie Ray Vaughn) who can play Jimi Hendrix and make it sound the way it was intended. Other groups (especially U2) have shown their severe limitations by futilely attempting cover versions of Jimi's classics. Jeff Healey is easily the best Canadian guitarist around and one of the best in the world. And he's only 23.

The Gee-My-Hair-Really-Flies-Around award goes to Katrina and the Waves who put on a great live show, bopping around the stage and getting the whole audience into the act. A free comb goes to each member of the band, but watch out for those thrash metal competitors.

The Please-Shut-Up-And-Write award goes to twenty-time defending champion Bob Dylan for his combination of a back-breaking voice but excellent songwriting talent. Vocal lessons can be taken anywhere. Please!

The Let's-Play-Good-Music-Like-We're-Supposed-To award goes to radio station 97.7 in St. Catharines for their dedication to playing a combination of old and new rock and roll with very few commercial announcements and for having announcers who are actually funny and/or interesting when they try to be.

The Welcome-To-The-Big-Time award for best new band of the year goes to Blue Rodeo. While none of the members are standouts on their own, the whole group gels together solidly and puts out good music - I wish there were more groups like them around.

The Take-This-Money-And-Shove-It award goes to Neil Young for his song and video *This Note's For You* which makes a deserved laughing stock out of all those 'musicians' who have sold out to large companies to let their 'songs' be used in commercials. May it never happen to you, Neil, or any of the stars below.

Now, the Canadian All-Star team is as follows: male vocals - Robbie Robertson, Rik Emmett female vocals - Lee Aaron, Katrina Leskanovitch electric guitar - Jeff Healey, Colin James classical guitar - Liona Boyd bass guitar - Geddy Lee drums and percussion - Neil Peart harmonica - Neil Young synthesizers - Jean-Michel Jarre piano - Andre Gagnon, Oliver Jones rhythm section - The Canadian Brass

The Music Man

A DIFFERENT HEIGHT

FED Said...

*IS IT REALLY A WINTER WONDERLAND?
by Chris Celvosky (a pseudonym)*

There are only two good things that can come out of winter as far as I'm concerned - skiing and spring. Now you good natured, stalwart, stupid types may feel differently so I'll give you a different opinion of winter.

It is not so much the season but what it does to me when I'm walking. The normal distance-eating strides have been reduced to mincing little steps. Why you may ask? I'll answer with one word - ICE!!!!

Up at these lofty and dizzying heights, a fall is not a minor annoyance but an inevitable event that is feared each time I venture out. I'm sure all of you shorter readers have taken a fall because of ice. Usually it starts with that narcotic feeling when you're airborne and then a pleasant little bump. In most cases you can get up and walk away from it with only your pride damaged.

It is much more exhilarating for those of us with our heads in the jetstream. We are freefalling objects for what feels like a small eternity. We are not very graceful in freefall, arms and legs are usually flailing about and we gyrate into weird and wonderful contortions to avoid this tragedy. More often than not we end up in a twisted heap of arms, legs and saliva. We don't get up right away because hey, you gotta get untangled first and then you wait. You wait for that impulse of pain to complete its incredible journey and tell you what body part you have injured, relocated or severed. If you feel nothing you are either injury free or unconscious.

When I'm not falling someone else who is nearby does and I guess the cold affects their vision and they think I'm a tree or something that can support their weight because they proceed to put a death grip on some part of me. Oh if they only knew, if they only knew how lousy my balance was.

I guess winter wouldn't be so bad if I had boots or if they made boots to fit me. Everytime I ask for some boots in size 15 I get looks of disbelief and looks of disdain and some remark about causing the price of leather to rise and making cows an endangered species.

But I would like to end on a positive note, deep powdery snow has never been a problem. Once I see some cute 5'3" girl walking and then disappear with a puff of snow, my self-esteem returns and once again I feel good about what I am 'cause I'm her St. Bernard. HOOOWWWWWL!!!!

Welcome back! A quick rundown of what happened last term: Shane Carmichael (the Vice-President, Operations and Finance for the Feds) had a bad term. He lost his bid for City Council. After losses with Homecoming stemming from his decisions, students council slapped on him a motion of restraint against his being involved with Winterfest this year. This was followed by a motion of non-confidence, which passed 12 in favour, 2 opposed, (3 abstained). He has refused to resign.

The Federation of Students has extended its prospective membership in the Canadian Federation of Students (CFS), with a nominal membership fee. This will require that another referendum on full membership be held within two years. A similar referendum held just over a year ago turned down full membership by a wide margin.

The Federation has set up a fund to sponsor a (qualified) refugee student next year. The University is also going to help cover a few of the bills.

And now for the current news: The Video Commission should be up and running soon. Watch for our videos at Fed Hall and the Bombshelter.

On a similar note, the Federation has entered into negotiations with CKCO Television to film some episodes of an upcoming series at our own Federation Hall.

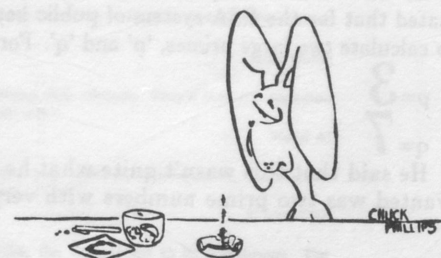
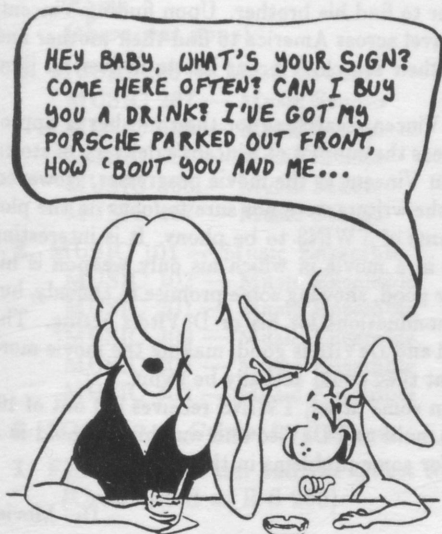
BEnt is bringing a few big names to campus this term. Tom Cochrane and Red Rider will be at Fed Hall on January 26th. A few days earlier, (on the 21st), Blue Rodeo will be at that same location. Watch for ads for other shows at Fed Hall, and an exceptional lineup of groups at the 'Shelter as well.

Don't forget about Winterfest and Cultural Caravan, which are both coming up soon. If you want to volunteer, or just want more information, ask at the Fed Office in the Campus Centre.

Finally, the Fed elections are also approaching. If you are interested in running for a Fed Rep, or for President or either of the Vice-Presidential positions, you can get a nomination form in the Fed office. (Forms are due back in the Fed office by January 20.) If you don't run, then find out what you can about those that are running, and cast an informed vote early next month.

Your Friendly Fed Reps,

John Herbert
Paul Obeda
Roger Tudor
and Jackie Yang



Move over Lefcourt.

Let the games begin!

"... Two. One. Cue Music!"

The familiar opening theme came out of the speaker above the control panel, and then, as it stopped, camera 3 began to record, for the first time ever, the Games of the Mathematical Olympiad.

"Good morning from Boinsk, Poland. I'm Brain Williams, and for the first time in the history of the Combinatorics Broadcasting Consumption, we bring you live, or slightly edited time delayed coverage, of these games. Many of you may have wondered, or perhaps not, what these games entail. But due to the miracles of Glasnost, satellite technology, and Moosehead Lager, we bring them to your home.

"And here's my guest host for the opening ceremonies, Ernie Eigenghanus."

"Yes Brain, I'm really looking forward to these exciting examples of sports. Yep. Uh-huh."

"Hold on a second, Ernie, we're just getting our first feed in from the opening ceremonies. It looks like, yes, it's the parade of engineers."

"And don't they just look soooooooo damn cute in those hardhats, Brain. Yeah."

"Uh, well, they're coming into the stadium now. Riding those beautiful white horses, so small and fluffy. Wait! Those aren't horses! They're sheep! Cut the video! Cut! Cut..."

Beeeeeeeeeeeeeeeeeeep!

"Well, we're, get that grin off your face, Ernie, we're back in Boinsk. And now it's time to go up close and personal with the second best 100 metre cache man in the world, who is scheduled to compete tomorrow. Here he is, Card Lewis."

(Voice over) "At 22 years of age, Card Lewis is the pretty boy of the international caching circuit. He has already recorded one CD-ROM which he hopes will be a chart topping..."

"More like a dessert topping..."

"Turn Ernie's mike off!"

[Click!]

"... success. His sport, however is his life."

"Caching is the newest sport in these games. It involves the transfer of files over a distance of 100 metres using only floppy diskettes. We asked Card to explain his recent loss in Washington State to Ban Jolson."

"Well, uh, he, well... He cheated! He's definitely using something illegal to get higher density out of his disks."

"Statements like this have earned Card the nickname of 'Hyper.' However, nothing can touch the stacks of medals he has already won."

"Thanks for that special report. We'll return tomorrow at the same time with the first event, the running of the 100 metre cache. Until then, I'm Brain Williams."

"I'm Ernie Eigenghanus, and you're a....."

[Click!]

Marsh-mellow

Primes

At the seminar on public key cryptography, Professor Vanstone stated that for the RSA system of public key cryptography, you need to calculate two large primes, 'p' and 'q'. For example:

$$p=3$$

$$q=7$$

He said that this wasn't quite what he meant. What he really wanted was two prime numbers with very large values.

The Keener

The Man From S.E.R.I.O.U.S.

Hello comrades, and welcome back to the world of adjusted marks. As a new student movement, we here at S.E.R.I.O.U.S. thought that a few words of introduction are in order. I am Andy Hit-Her, supreme commander of S.E.R.I.O.U.S. Our organisation and members are serious, Some Enterprising Rednecks Interested in Overdoing Bell Curves. We are serious for one reason only: the gross underuse of favourable bell curves.

Now I am sure all of you know that bell curves are those mathematical gremlins that play with your marks between the time you finish writing the worst exam of the century and had go to FED Hall to find out if they are putting crackerjack prizes in the bottom of beer bottles yet and to contemplate your career as a plumber and when your Canadian Postal Turtle delivers your transcript. We here at S.E.R.I.O.U.S. believe we can harness this gremlin B.C. and create a new super race of students! With this power we will dominate the University, the city, the country, THE WORLD! We will crush the inferior races of students and will rise up out of anonymity into our rightful place!

Come and join now! Those not with us are our enemies and will be crushed without mercy! Our ranks are swelling swiftly and our elite guard of S.E.R.I.O.U.S. students (S.S.) have yet to be defeated by the toughest opponents. Already our campaigns against the Engineers have them running, their HP's being KO'ed by our B.C. The Science students are also in disarray, while the Artsies don't even realise that they are about to be crushed. With the power of the B.C. behind us, we will soon have the scattered hordes gathered up and sent to exterminator technical colleges. So join us and be a part of our rising nation. Praise be to the Fatherland! Heil!

Hobbes

Double Trouble: A Review of Twins

Once again, the start of a new term means that a new series of movies await. With movies like BEACHES and MISSISSIPPI BURNING coming soon to KW theatres, it could be a good month for movies. I will rate movies from 0 to 10 with 10 being the best.

Can you imagine Arnold Schwarzenegger and Danny DeVito being twins (obviously, not identical)? This is the basic premise of Ivan Reitman's movie TWINS. The plot starts when Julius (Schwarzenegger), the product of an experiment, is informed of the existence of his brother, Vincent (DeVito), the side effect of the experiment. As a result, Julius travels to America in order to find his brother. Upon finding Vincent, Julius convinces him to travel across America to find their mother and become a family. During their search, Vincent has to deliver an item he unknowingly stole.

The plot of Julius and Vincent searching for their mother is appropriate for the movie, whereas the subplot of Vincent's delivery of stolen goods shows the changes in Vincent as the movie progresses. However, there are moments when the writers were not sure to focus on the plot or subplot, causing segments of TWINS to be phony. It is interesting to watch Schwarzenegger in a movie in which his only weapon is his wit. Arnold is surprisingly good, showing some promise in comedy, but don't expect any Oscar nominations for his or DeVito's acting. The chemistry between Arnold and DeVito is good, making the movie more believable in the sense that they could actually be twins.

Despite a weak script in some areas, TWINS receives a 6 out of 10. The chemistry between Arnold and DeVito and watching Arnold in a comedy can compensate for some problems in the script.

Dr. Movies

mathNEWS

Production Schedule

... So once again, the monotony of classes is broken up by a liberal dose of mathNEWS. The following table (or, if you use L^AT_EX, a {tabular}) is the Production Schedule for this term's mathNEWS. Memorise it and make sure you show up to every Production Night, 7:00 P.M. in the MathSoc office, or else!

Issue #	Production Night	Issue Out
2	23 January	27 January
3	6 February	10 February
4	27 February	3 March
5	13 March	17 March
6	27 March	31 March

If you wish to submit (an) article(s), you can put it/them in the mathNEWS BLACK BOX or under the mathNEWS office door (MC3041), or (if you can) e-mail it/them to mathnews@watdcsu. Please include your name and phone number so we can set up a date later, er, that's get in touch with you in the event of any problems with your article.

Rick McTavish
Editor, mathNEWS

Top Ten Difficult Arts Credits

And, yes, these are actual courses gleaned from the 1988/89 UW Undergrad Calendar.

10. ARTS 198 — Introduction to Computer Technology
(this is the 'on' switch...)
9. ANTH 311 — Magic, Witchcraft and Religion
(no kidding!)
8. PSYCH 333 — Industrial Psychology
(Twice as strong as household psychology?)
7. HIST 250 — The Arts and Crafts of History
6. PHIL 302 — Modern Feminism
(and its companion course, PHIL 303 — Medieval Feminism)
5. CLAS 384 — Science and Technology of Ancient Greece and Rome
(there was none)
4. MUSIC 266 — Music Studio
MUSIC 267 — Music Studio
MUSIC 366 — Music Studio
MUSIC 367 — Music Studio
MUSIC 466 — Music Studio
MUSIC 467 — Music Studio
3. MUSIC 101 — Music Ensemble
MUSIC 102 — Music Ensemble
MUSIC 201 — Music Ensemble
MUSIC 202 — Music Ensemble
MUSIC 301 — Music Ensemble
MUSIC 302 — Music Ensemble
2. SOC 329 — Crime As Business
1. FINE 252 — Film and the Quest for Meaning 1
(Cross-listed as R S 266)

Mr. Death

mathNEWSQuiz #1

Welcome squizzers to the new term. My name is Squizzo, the official mathNEWSQuizmaster. In case you are not familiar with the mathNEWSQuiz, it is a series of 16 trivial and useless questions that will appear in each issue. Answer as many questions as you can and submit your entry, along with your name (or pseudonym) and any relevant comments into the BLACK BOX on the third floor. A certificate of merit will be awarded each issue for the submission received with the most correct answers.

Ready? Then let's begin...

"One" Each answer contains the word "one".

- What is the common nickname for a slot machine?
- What movie won the 1975 Best Picture Oscar?
- What was Buck Rogers' robot's name in the radio series?
- What was the theme song of Count Basie's orchestra?

High Schools What high schools did the following fictitious people attend?

- Archie Andrews (in the "Archie" comic books)
- Richard Cunningham (in the TV show "Happy Days")
- Laverne DeFazio and Shirley Feeney (in the TV Show "Laverne and Shirley")
- Peter Parker (Spiderman's alter ego)

Halls of Fame In what cities are the following sports Halls of Fame located?

- Major League Baseball Hall of Fame
- American Hockey Hall of Fame
- American Basketball Hall of Fame
- National Lawn Tennis Hall of Fame

Left or Right

- Which ear did Vincent van Gogh cut off a part of?
- Over which eye did Colonel Klink on Hogan's Heros wear his monocle?
- On which side of a skirt is a zipper located?
- On which foot did Maxwell Smart wear his shoe phone?

Squizzo
the mathNEWSQuizmaster
(that's me)

The Math C+D

Today I, your roving campus food critic asked some of this campus' most prominent eaters why they dine exclusively at the MathSoc c+d. Here are just a few of the replies I received:

"It's the variety that gets me in. I mean they've got subs, sandwiches, bagels, donuts, cookies, brownies, popsicles, popcorn, pastries, danishes, . . ."

Eddie Effervescent

"Mmpf. glrph, munch, mprg, shmhf, crunch, glrshp, slurp!"

Hedley Lamar

"I like their hours, they're open before my 8:30 classes and they stay open almost all day!"

Suzie Quec

"They don't discriminate among their clientele. They'll feed you regardless of race, creed, colour, or waist size."

Weird Al

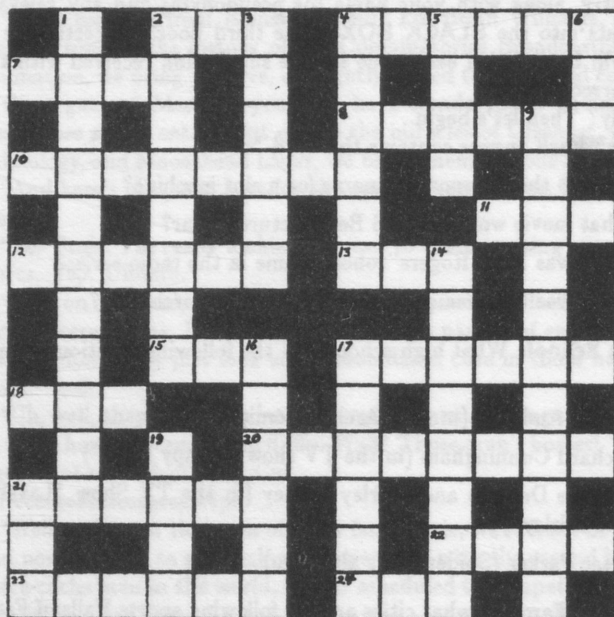
"If I'm in the mood for coffee, pop, juice, or some exotic tea, I know I can satisfy my insatiable thirst at the c+d."

L. Usty Chic

Well there you go folks, the vote seems to be unanimous. For breakfast, lunch, or a mid-day snack, the Math c+d, third floor MC, is the place to pig out!

I. M. Portly

GRIDWORD



Cryptic

Across

2. Wager 500 less than an out-of-control debt (3)
4. An arrow-holder, or what we do when the polls come in (6)
7. A disruptive vote (4)
8. This guy fibbed on the side of a van line (6)
10. A tailless ass makes Mickey less naughty, more conservative (8)
11. The last Honest politician (3)
12. In the end, a flower is scrambled after chlorination (6)
13. The first feminist did not do mornings (3)
15. Throw Joan a curve (3)
17. Look in the present and the past for the ups and downs of battle (6)
18. A leader, but not one of sunshine (3)
20. A tomb in a western land (8)
21. Seek a steeple (6)
22. Has a snowstorm (4)
23. This city hauled Jean Pigott away (6)
24. Time since a defunct oil company became uncensored (3)

Down

1. Elephants about the people and short answers (11)
2. Bo, you are a slime, shafting anglophones - not fit to be a leader (8)
3. John is a real stomach _____ (6)
4. Get this bird by beating around the bush (6)
5. Befuddled mistruths in the ocean (4)
6. An Albertan Deer in Russia (3)
9. A man and a female entertainment committee head for a third-rated party (11)
14. Vote for a particular day when the beer stores are closed (8)
16. If I'm not in America, there must be a mix-up. Get the picture? (6)
17. This committee is quiet, going nowhere instead of down (6)
19. Mrs. M. is an upwardly rotated bean (4)
21. Turn down the noise in your pad, or else! (3)

We Don't Need No Stinkin' Politics

Well, here we go again folks. It's the starts of a new term, and your old friends, the GRIDmasters (along with the rest of mathNEWS) are back. This time, since it's after an election year I'm going to test your political know-how. Most, but not all, of the solutions in this Gridword have not-so-deep political meanings. That's right - this is a theme GRIDword, and hopefully not the last.

You will notice in some cases that not all of the clues are as straightforward as before. Since all of you have been here before, you presumably know how the GRIDword works, so I won't have to coddle you with clues or by telling you how to solve it. The best of luck to you all. As for this week's favourite, remember that we want to print your answers; so, don't use any nasty arts words!

PSYDA

Name: _____

Comment: _____

Favourite Frostbite Cure: _____

mastHEAD

A new year and another term of mathNEWS. Isn't it amazing how one good thing is followed by another? I would like to thank all 21 people that showed up to the organisation meeting on January 4th. I would like to also thank the following who have taken a position in mathNEWS:

Production Co-Managers: Calvin Masson and Stephen Smith
 Technical Advisor and all around guru: Frank Letniowski
 Financial Supervisor: Stephen Green
 Advertising Manager: Mark Kerbel
 Editor Assistants: Rob Del Mundo, Trevor Green and Dave Nuttall

I would like to now thank the bunch of pizza munchers responsible (or not) for this issue: Hobbes, Don Marks, Rob Del Mundo, Dave Balkwill, Stephen Sproule, Laila Svekis, Heloise Doucet, Stephen Smith, David Nuttall, Mr. Death, Karen Smith, Graydon Hazenberg, Frank Letniowski, Tina Klien, Steve Green, Rob Armstrong, Chris Fievoli, Haystack Calhoun, John Thoms, Craig Cudmore, Mark Brewster, Curtis Desjardins, Paul Obeda, Ted Timar and BROCK JOHNSON. And believe it or not, we had to only order two large pizzas.

I would also like to thank Arnie Dyck and Katie Kent for their help with gathering information for the new BMATH degree and Lyn Williams for giving me a key to the mathNEWS office. This issue would also not have been able to make its usual appearance without Little Caesars, Marion and Graphics Services, DCS and the I/O room people.

Also thanks to
 Rob Bousfield.

Rick McTavish
 Editor in Chief