

math NEWS

Volume 62, Issue 1

21 May, 1993



lookAHEAD

mathNEWS	
May 26	Issue #2 Writer's Night 6:30pm, abel lab (MC 3008A)
May 31	Issue #2 Production Night 6:30pm, abel lab (MC 3008A)
June 4	Issue #2 hits the stands
Math Faculty	
May 28	Course Drop Deadline
May 29	Convocation
June 1	1B Info Night @ 7pm
MathSoc	
May 25,26,27	Grad Photos sign up for your time slot!
May 26	MathSoc meeting 4:30pm, MC5158A
June 2	Orientation BBQ #2 11:20am - 1:40pm
June 2	Another MathSoc meeting 4:30pm, MC5158A
Co-op	
May 18 - June 3	Job Postings, first floor MC
May 31 - June 18	Interview Period
June 25	Job Match Results



CSC Flash

Flushes to stdout

The CSC has recently fallen into the use of various Schrödinger devices. Lately, Schrödinger Go Board and pieces have been played frequently. The basic premise being that you don't know if a group is alive or not until you look at it, and if you look at it, you know it's dead. Looking into our Schrödinger Election Box we foresee:

Elected: Mark Tompsett or Alex Brodsky as Vice President
Stephen Mills or Mark Tompsett as Treasurer

Acclaimed: Shannon Mann as President
Courtney Weaver as Secretary
Ian Goldberg as Sysadmin

Appointed: Dima Brodsky or Alex Brodsky or Mark Tompsett as Office Manager
Norm Ross or Micheal Van Biesbrouck as Librarian

NOTE: Each person is equally weighted.

But by now you can come and confirm these results at MC3037/3036. Do you think you have to be a CS Geek to join the CSC? NO! You just need two dollars, and the time to drop by MC3037/3036. But that's not all! You can enjoy the luxurious CSC couch, the expansive CSC library, and the use of our CSC phone, and CSC stapler. It is important to note that we are RENTING QUOTA! Yes! We rent out the use of SEVERAL megabytes for the term. At the LOW, LOW fee of \$2.50 per megabyte, and a SMALL \$1.00 transaction fee these megabytes could be yours! Hey, buy more than 20 megs and we'll pay the transaction fee. If you want help with CS assignments, or any like problems, my CSC office staff may be able to help you. If you wish to follow us closely, read uw.csc!

Calum T. Dalek

Editorial

Summer School

Did you have any problems getting into classes this term? Many students were stonewalled when they tried to register for a full courseload. The problem? They're not in Co-op.

Many courses, most notably C&O 230, 350, and upper-year STAT and CS courses, are closed to Regular (non Co-op) students in the Spring term. Traditionally, Regular students would not be taking courses in the spring, so this would not pose a problem. However, the current recession has left many students unable to find jobs this term, and many of these students find themselves in the Regular program, taking courses in the spring. In addition, there are an increasing number of students taking a "straight-through" program; i.e. eight terms in a row. The resulting increase of Spring-term Regular students has been dramatic enough that MathSoc is looking for [1234]N class reps this term.

One result of this policy is that some students who intended this to be their third (for example) full-time term on campus, find themselves unable to take courses which are prerequisites for courses for which they have signed up for the Fall. These students will likely have to stay an extra term in order to graduate in their intended program.

At this point some people point out that these students "are not supposed to be here." Exactly what dictates when a student should be allowed to take courses? The point is made that a large part of the Co-op fees help pay to keep the University open in the Spring (the government doesn't currently pay us during the Spring as they do in the Fall and Winter). While this is certainly true, it seems the Co-op fees should go to pay for the Co-op program. If it is necessary to gather additional fees to keep the University open in the Spring, these fees should be gathered separately, from any student taking courses in the Spring. It seems ironic that currently, a Co-op student working in K-W in the Spring is allowed to take one course, including the courses closed to Regular students, and doesn't pay the Co-op fees.

The problem to be addressed is that these Spring-term Regular students do not fall into any of the Co-op streams, nor the "normal" Regular stream of Fall, Winter. At the heart of this problem, it seems, is that a single terminology is being used for two distinct ideas: whether or not a student is in the Co-op program, and the terms in which the student takes a full courseload. Many of the Co-op programs are not the simple school, work alternation, and so the students not in Co-op should not be restricted to a particular school/no school pattern.

My proposal, then, is to either

- remove the idea that Regular students take classes in the Fall and Winter, and allow them to take a full courseload in any term. If necessary, a "Spring term fee" could replace part of the Co-op fee, or
- call the class of non-Co-op students taking courses only the Fall and Winter, "Regular," and create an additional designation for students who wish to go "straight-through" or take a full courseload at arbitrary times. A special fee for being in such a program could help cover the costs of University operations in the Spring.

This Faculty is displaying an ever-decreasing difference between the Spring term and the Fall and Winter terms. This change deserves to be noticed, and responded to.

Ian Goldberg
Editor (and Regular Student)

The Zone

It's the start of a new term, and that means it's the start of more news from the inner sanctum of the Math Society.

First, if you haven't seen the Treasurer for the last week and a half, it's because he suffered a concussion and hasn't been in to the school in that time. Hopefully, he'll be more accessible when he gets back. Also, the Math Society has no Vice President; she resigned her position due to circumstances that forced her to take a term off. As of this writing, the position is still open for nominations (as well as Class Reps). Forms are available in the MathSoc office.

With no VP or Trez for the past week and a half, the current President has been working herself ragged trying to keep the office and its related services running, which brings me to my next topic.

During the first week of classes, The Math Society was not running as efficiently as it should have. According to the President, this was due to the usual beginning-of-term confusion and lack of volunteers (not to mention the absence of 2/3 of the Exec). A MathSoc volunteer stated on uw.general that because there was a lack of volunteers, he and two other Council members were doing the jobs of seven Directors, further bogging down MathSoc's efficiency.

This lack of volunteers also seemed to be noticed by several students unhappy with MathSoc's lack of office services, as the Society was inundated with complaints. Despite the attempt of two Council members posting to uw.general and suggesting that the complainers "be part of the solution instead of the problem," every person who complained to MathSoc about its lack of services has, as yet, not come forward to volunteer. No surprise to me. People who shoot their mouths off are usually the last to do anything about it. But then again, I'm an idealist.

On a related note, one student requested a refund of his MathSoc fee, but he said he would continue to use all of MathSoc's services. Sorry to burst your bubble, buddy, but having your cake and eating it too just doesn't work in the world of MathSoc. Good luck.

By the way, the President has admitted that she is seriously looking into hiring a full-time office secretary, much like the Engineers have done at the Orifice. Of course, the Math Society fee will have to increase at least \$3.50, or more, in order to pay for it.

In closing, last term's Council has admitted that petty theft in the office was a problem, and it has been reported to the Campus Police. More than \$400 was stolen over the whole term, including money and novelties. This term's Council has said that they have taken steps to prevent this from happening in the future.

The Zone is written by a former Senior Council Member and idealistic trouble-maker at MathSoc

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Editor: Ian Goldberg

Mind Boggler

For those with brain cells to kill

I came across this sequence the other day, and was wondering if the readers of this fine paper might want to take a crack at it. It is hard, but will not require anything other than grade 9 math.

The first 10 elements in the sequence are:

6 10 14 15 21 22 26 33 34 35

Find the next 5 elements in the sequence.

I will give \$5.00 (out of MY pocket) to the person who solves it. Submit your answers to the BLACK BOX. If there is more than one solution, we will use the mathNEWS selection process (flip a coin). Good luck.

And Then There Was One

"I visited Spain last summer and they told me the rain in Spain is mainly in the north eastern province."

Aczél, AM/PM 332

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Prez Sez

I love spring terms in school! Sun, fun, Blue Jays and my favourite, BBQs. Warm weather makes 8:30 classes enjoyable... no, that's not right... bearable... well, maybe I'll go to an 8:30 this term. So far we've had a flood of new office workers but not so many volunteers for Directors or Class Reps. As of the time I'm writing this we still need a Social Director (organise our pub and any other neat things you can think of), Postings Director (keep our boards clean!) and several other positions. Hopefully by this time we have a Vice-President and some Class Reps. If you want to represent your class, it still might not be too late. Just drop by the MathSoc office (MC 3038) and talk to Monica or Curtis. If you are a Class Rep you get to vote at MathSoc meetings. *[Ooh, now there's a big fucking incentive — Curtis]*

Things haven't gone smoothly to start the term off. Our elected Vice-Prez, Tamara Sargent, resigned because unforeseen circumstances forced her to take a term off from school. Our Prez, Jeff, (no he didn't resign) has been absent due to illness. All this combined with our initial lack of office workers made the MathSoc office my first home. I hope you didn't get too pissed off when the office had to close. I have classes too!

For all the clubs, please have your budgets ready. Jeff just came back and I'm sure he'll be pulling the budget together soon. Remember, MathSoc pays for an office supply allowance and any speakers (as long as it's reasonable and the speakers are the talking kind and not the stereo kind). MathSoc doesn't pay for social events or cookies for your friends.

You'll be hearing from me again soon but if you want to reach me you can find me in the MathSoc office. If I'm not there, you can leave me a message. Have a good summer!

Monica Rooney, Prez

KEEP IT SHORT!

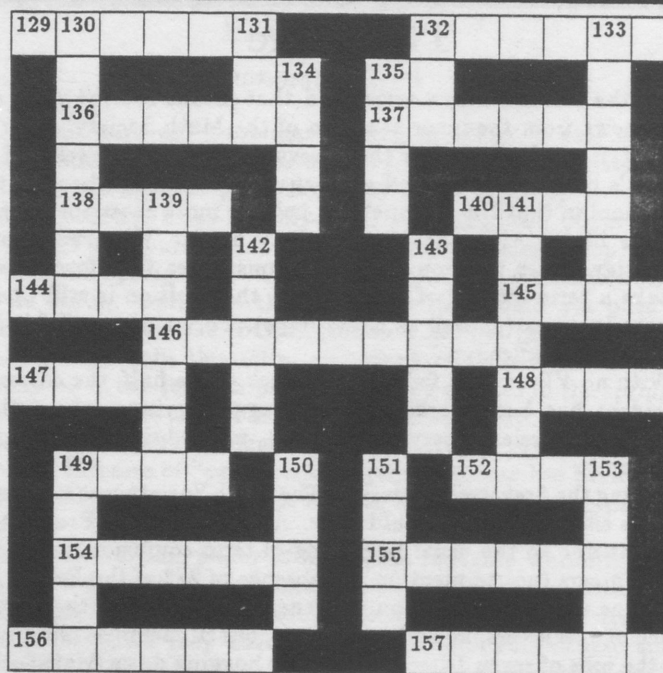
An exercise in musical efficiency.

The nighttime deejay at local radio station CLOD has an unusual, and often annoying, gimmick. Instead of giving you the real title, he will rephrase or paraphrase it; he leaves the artist's name alone. For example, if he announces that "Work" by Bachman Turner Overdrive is coming up next, then you can bet that you'll hear "Taking Care of Business." CLOD has a WIDE record library, so keep your mind open. The listener who can provide us with the most complete play list will win a CLOD mug! (or a mathNEWS prize, our choice.)

- | | |
|---------------------|--------------------------------|
| A+ | Tina Turner |
| Astronaut | Elton John |
| Go | Michael Jackson |
| Not Guilty Of Arson | Billy Joel |
| Danger | Richard Marx |
| Murder By Music | Roberta Flack |
| Honeymoon | Michael Bolton |
| Card Game | Bruce Springsteen |
| Egotist! | Carly Simon |
| Here | ABBA |
| Louder! | M.A.R.R.S. |
| Carol | Three Dog Night |
| Contact Lens | Crystal Gayle (A real toughie) |

Send your submissions to the BLACK BOX across from the C+D.

Gridby



GRADS! GRADS! GRADS!

Let's hear it for the Class of '94

That's right all you people out there. If you are planning on graduating next year with the Class of '94, then read this! If not, read it anyway!

The Math Grad Committee is getting together for all the fun, fun things that are going to be happening this summer, and we need your help. Volunteers are needed to dish out pizza, and organize all the parties and events that we will be having **ALL SUMMER LONG**.

Other happenings in the summer will be the official grad photo. If you do not get your grad photo done now, you might not make it onto your class composite, and you might not even be in the Yearbook. While for some of you this may be desirable, I am sure that most of you won't want to miss this once-in-a-lifetime occurrence. The photos will be taken the week of May 25th. That's next week, so hurry up and get ready for your picture!! Sign up for photos on the bulletin board across the hall from the C+D.

Also, another photo opportunity will be on June 2nd at 5pm, where EVERYONE will go outside and we will have our class photo taken. Be there. There is no or else, just be there. Tell everyone! The location will be forthcoming.

Finally, if you have some funny pictures at home of your time at UW, or even better, some of your friends, we'd love to borrow them. You will get them back, but the Yearbook wants to see a little bit of everybody. There will be a meeting for anyone interested in helping with the Yearbook (taking pictures, getting them organized, perhaps some layout) on May 25th at 4:30 in the Comfy Lounge.

So there is your mission. Sign up for Grad Photos. Get some pictures in for the Yearbook. But most of all, come out and volunteer for MGC '94. Be a part of the adventure.

Grad-EC

mastHEAD

Well, we've just about finished the first issue of the term. It's only 10 o'clock, but we haven't laid out the issue yet...

I was a little worried about our lack of a cover artist (and was this close to just printing a random gif), but our friendly Phil came through for us!

The people who came out tonight, and their favourite colour of vegetable (except green), were: Stuart Pollock (Village "burnt" black), Michael Melvin (flesh melons), Monica Rooney (plaid), Colin Brace (magenta), Steve "Flipper" Shaw (morning-after vomit-yellow), Shannon Mann (Chocolate Brown (it IS a vegetable!)), Curtis Desjardins (does James Brady count?), Darren Rigby (Blue. It's good for the teeth), and "the Phil" (bloody red). Thanks also to Writers Night attendees Les Rosenblood and Eric Sutherland, as well as L. Amber O'Hearn (orange) for moral support, and anybody else that came out and scarfed pizza.

Thanks also, of course, to Marion at Graphic Services.

Till next issue...

Ian Goldberg (isn't this a racist question, or something?)

Can You Imagine How Much I Love You?

Moo, Moo, Moo, Moo

A shady haze fell over the bridge table. It was midnight, and the night was as dark as the players' hearts. Who would make the next move?

"Three diamonds," grunted the man in black.

"Pass," sighed the man in plaid.

"No bid," muttered the man in heat.

"Double!" smiled the man in the yellow hat. The monkey looking on was concerned.

The auction ended there, and so the play began:

Black	Heat
♠ 986	♠ J42
♥ 54	♥ AKQJ
♦ AKT764	♦ 53
♣ K3	♣ A642

A small spade lead was taken by the man in the yellow hat with the queen, and he then continued with the ace and king. With three tricks in, and feeling cocky, he switched to a small heart. Declarer won this with the ace, and played a diamond to the eight and ten, as the man in plaid showed his true colours and discarded a club.

"No matter", thought the man in black, as he continued with a heart to dummy, and another diamond to the nine and king. Then he played a club to the ace, and discarded the king of clubs on the queen of hearts as the man in the yellow hat followed helplessly. Another heart, and he was doomed. Whatever he did, declarer would ruff (higher if necessary), and play a small diamond to seal his opponents' fate. The ending would typically see the man in black with the ♦ A76, and the other hand would have the ♦ QJ2, and he would be endplayed into leading a diamond into declarers tenace at the twelfth trick.

The man in the yellow hat was no longer smiling. His monkey looked at him strangely and decided to go off on another adventure to the zoo where he could meet up with all of his animal friends.

Ace Upmysleeve

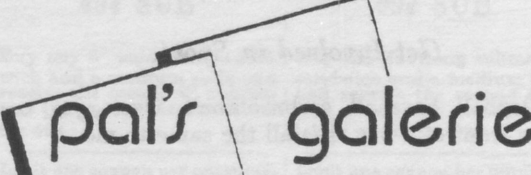
Top 10 Ways to Make Registration Easier ...

10. Do it in triplicate. Have at least ten copies of your schedule printed for you (the request paperwork is available in Needless Hell). That way you can make more than one course change per day.
9. Suck up. Get to know the MathStart ladies (take them flowers, candies, money, or love!!). This will make your lineups shorter, your changes easier, and make you the envy of all your friends ("You know her?!?! Wow!!").
8. Join the CSC. While the CSC doesn't have any direct connection to registration, they always have a computer on so it's easy to check uwinfo. Besides, somebody there must know, or will try to figure out, how to get into the registration computer system.
7. Go to the Bomber. This doesn't mean you'll get your classes but then you won't care!
6. Go see an advisor on the sixth floor. So your advisor's not on the sixth floor? Who cares?! By the time you find your way out, the term will be over.
5. Join the Borg collective (Prerequisites are irrelevant!!).
4. Drop out of math. There must be a faculty that offers more summer courses!!
3. Be keen! When you try to get a prof's signature, try to pretend that you actually like the prof and that you really want to take the course.
2. Forgery. If number 3 doesn't work, just fake the prof's signature. There's a slim chance you might get caught but then again you might just luck out and get the course.
1. If all else fails, change your major to CS/EEE. You don't get electives or choices! What could be easier?!?

thrash
Stroud

"What does the space shuttle do at [blastoff]? Diddley, for a few seconds. the rockets are roaring, fireballs shooting out the sides, but it does dick."

Willms, MATH 138



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Math, the Universe, and Everything

Fun Things to do in the Summer

There's something about a summer school term that appeals to just about everyone. For different people it's different things: some people prefer the casual, relaxed attitudes of the profs. Others enjoy the nice weather, and the fact that the campus is a lot nicer when it's half-empty. And some of us just enjoy being able to walk around naked.

Whatever it is for you, there will come a time when you stop having fun. Your prof will eventually come to class in a bad mood, and fail a couple of students. The nice weather will stop, and it will rain for three weeks in a row. Or you'll pick up a wicked case of genital herpes and be ashamed to walk around naked. It's at times like that when you have to relax, take a deep breath, and try one or more of these fun activities.

Go to the Bomber

This is a good suggestion whether it be fall, winter, or summer. In the summer it's especially nice, as you can sit on the patio and listen to the grunts and moans of those people foolish enough to play volleyball instead of drinking beer. Things can get really exciting when one of them over-exerts themselves, and falls over due to sunstroke or something like that. Damned fitness freaks — serves 'em right.

The best thing about the Bomber is that it's a fun place all day long. If you wake up at the crack of noon and feel like a beer, the Bomber is there for you. If you finish classes, and are depressed because your prof went insane and failed a bunch of your classmates again, the Bomber will be full of people willing to drink with you. If you get home for supper and realize that roommate used all the food in the house in some weird sort of *9 1/2 Weeks* ritual, you can go to the Bomber and have a barley sandwich for supper.

Eventually, though, you will drink to the point that no responsible bar staff will serve you. You'll get cut off at the Bomb, which means that you'll have to go somewhere where they don't pay even the slightest attention to those annoying liquor license laws. But it should be nice and close, since you're having real trouble walking. Where can you go?

Go to Fed Hall

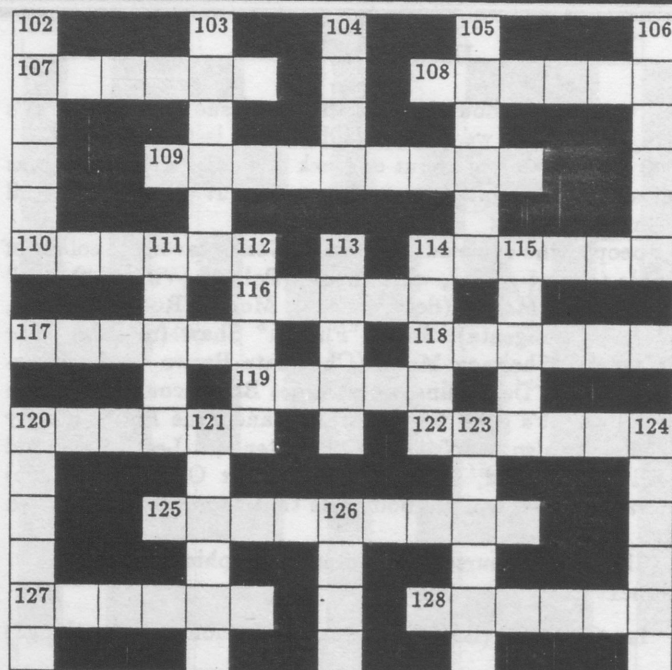
Rumour has it that there are people that actually enjoy going to Fed Hall on a regular basis. For me, once a term is enough. If I want to listen to bad music and watch fat guys dance with themselves, I'll go to a Shriner's convention, thank you very much. If I want to stand in line for an hour for drinks and get turned down by every woman in sight, I'll go to a family reunion. And if I want to pick up drunk seventeen year-olds, I'll go to Fed Hall.

Get Involved in Sports

Play volleyball, baseball, or broomball. Cycle, jog, or swim. Lie down in front of a bus. It's all the same to me.

Go to Class

This is a pretty novel concept, especially for the summertime. Don't bother taking any notes - chances are that you're not going to make it through the term, what with failing courses, abusing your body to the point of no return, and the occasional postal worker going berserk and hijacking a bus or something.



To occupy your time during class, there are many fun games that you can play. My personal favourite is one that I invented called *Geek or Freak?* Start at the front left-hand side of the class, and label each person a geek or a freak. Since this is the Math Faculty, you don't have to worry about any other classifications. This game does get boring after awhile (since the geeks outnumber the freaks so badly), so start doing it out loud. Play with a friend. Score extra points for those who are both geeks and freaks.

If that game starts to bore you, fantasize about having sex with your prof. That's almost always enough to make you get up and leave the class.

Take Up a Hobby

Everybody needs a hobby. Pick something that you've always wanted to do, and make sure that it's at least marginally legal. Here are some hobbies that are popular this time of year:

- brew your own beer
- drink your own beer
- stalk members of the opposite sex after they leave bars late at night
- see if you can get arrested by every Kampus Kop
- tackle people at random
- try to set the world masturbation record
- two words: ritual killing

Above All, Enjoy Yourself

Summer terms are all about having fun, learning as little as possible, and not getting a Co-op job. Live life to its fullest, and you'll be sure to be a happy, unemployed drop-out. See ya in the pogy line.

mathNEWSquiz #1

Spring is here, with a resounding twanggggg

Hello, everybody! Welcome back to school! I hope everybody who isn't in regular had a good work term, because you're going to have a heck of a time answering these questions. Since this is the first quiz for the term, there aren't any winners. So, let's jump right in to the questions!

Song Lyrics

- Hey, I'm your life, I'm the one who took you there
Hey, I'm your life, and I no longer care!
- My walls are getting wider, and my eyes are drawn astray
I see you now, a vague deception of a dying day
- It's partner found, it's partner lost,
It's Hell to pay when the fiddler stops
- There's a progress, we have found a way
To talk around the problem
- We're of someone's daughter, we're of someone's son
Hello, take a look at each other down the barrel of a gun

Ren & Stimpy

- What is Stimpy's favourite kitty litter?
- How long does it take to get to the Crab Nebula, and how often have they made the trip?
- How many creatures were saved from the burning building in "Fire Dogs?"
- What are Sven (Ren's Cousin) and Stimpy's "favourite game in the whooole world?"
- Finish this line: "See futuristic technology, thrilling head-gear, ..."

I'd Like Potpourri for 100, Alex

- Which of Marvel Comics' villains of modern times has become a "hero" in the year 2099 AD?
- Who was the host of the original "Jeopardy?"
- Which satirical singer has a son named Dweezil?
- How did "Mama" Cass Phillips die?
- What are the prerequisites of the course Anth 311?

Movie Quotes

- "Big surprise! Oh, I nearly had a heart attack from that surprise!"
- "Nine million terrorists in the world, and I gotta kill one with feet smaller'n my sister."
- "What are you going to do? Shoot me? You can't do that, you're a cop!"
"You're right, I can't shoot you. I am a cop, but there are 2 things you should know: (1) I've had a very bad day, and (2) I don't give a fuck!" (**BLAM**)
- "I believe in the soul. The cock, the pussy, the small of a woman's back, the hanging curveball, high fibre, good scotch, that the novels of Susan Sontag are overindulgent, overrated crap... I believe Lee Harvey Oswald acted alone! I believe there ought to be a constitutional amendment outlawing AstroTurf and the designated hitter. I believe in the sweet spot, soft-core pornography, opening your presents Christmas morning rather than Christmas Eve, and I believe in long, slow, deep, soft, *wet* kisses that last three days."
"Good night."

- "Take a card."
"Now what?"
"Keep it. I've got 51 left."

Bat-Trivia: The Old Series

- What characters did Liberace play in his guest appearance?
- Who was the most egg-squisite of all criminals?
- What is the first song on the cassette that was made based on the TV series?
- True or False. Elizabeth Taylor, Richard Burton and Sir Laurence Olivier all guest-starred.
- According to the city charter, how much is Gotham City worth?

Game Shows

- What is the longest continuously running game show?
- On what show could you hope for *Big Bucks! No Whammies!?*
- Who spent the most time in the centre square on the Hollywood Squares?
- Name all current hour-long game shows.
- Some shows never die. Name all current shows that have been hosted by more than one person in its lifetime.

Good luck, everybody! Oh, by the way, you can drop off your answers in the BLACK BOX across for the Comfy Lounge.

Harry "Snapper" Organs
Slave Boy
Chewbacca the Chaste



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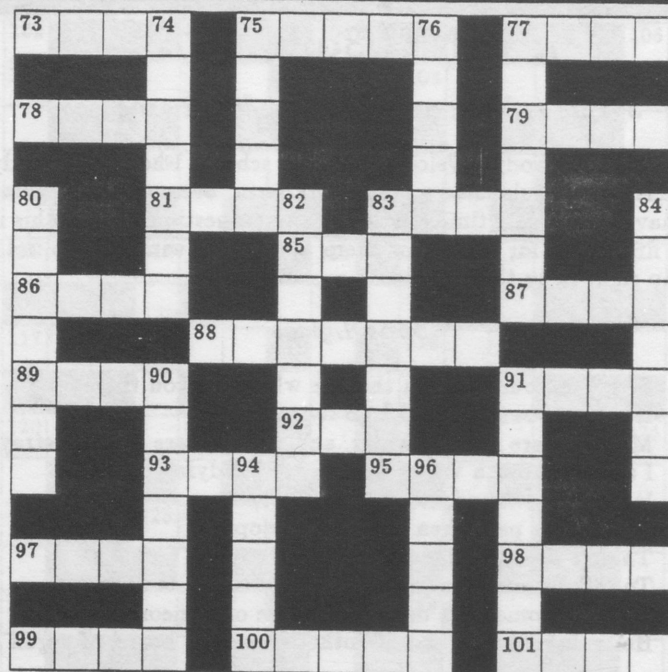
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Grid Clues

Across (Cryptic)

1. Beautiful ladies in sexy suits (5)
3. He said it in a blur. Too fast for me! (5)
6. Beer hurts (3)
8. Two eyes and I for MathSoc president (3)
9. Snake in hot sauna (3)
11. Flow within pebbles (3)
14. Saw a thousand treated boils (7)
17. Tumbling in the macro batch job (7)
20. Ominous, big (even large) is statue! Karl likes 2001! (7)
24. O grab me, don't trade me (7)
28. Burning screwed up me final (7)
34. A decrepit city is run poorly (5)
35. Music to my ears. Strings are good (5)
41. Run around the ashes (3)
43. Surgery massages back. Good for long hikes. (5)
45. Boy 'n' has lots (5)
47. Iron or gold? (3)
49. Backward mountain drink ties the knot (3)
50. How orb left forehead (4)
53. Alas! Appearance is wanted immediately (4)
55. Stares at Laurier without William (5)
57. Beg for a weird apple without urine (4)
58. Relative poker bet (4)
59. You are arty but slow (5)
61. Crazy aged exclamation (4)
63. Kick your disgusting thing (4)
64. Hear a time of confusion (3)
67. Sun King of Israel (3)
69. One hundred can do magic (5)
70. A bolt strikes and feels heavy (5)
72. Give the ball back, bro! (3)
73. Imprecise EC, π is a long story (4)
75. Gee, this looks funny (5)
77. Levy me a ride (4)
78. Preparation aids headless seaweed (4)
79. Icons don't do much (4)
81. The other group of guys is raw meat (4)
83. In that wild play, Cats (4)
85. Kept headless, it is competent (3)
86. Dry, urbane, lousy, and lackluster (4)
87. Carry the water? It's a Swedish joke (4)
88. Don't do the first two, Mark! (7)
89. Hear an unusual story on a rampage (4)
91. Dissolve electric drivers license (4)
92. Off-brown gets squished (3)
93. You state teaching assistant preparation (4)
95. Alphabet sun begins magic (4)
97. A shitty dice game (4)
98. Mined ring makes a cookie (4)
99. With interesting clue inside... (4)
100. It's 12:00 in France. Undone? No, just shy (5)
101. Yule be sorry at Christmas (4)
107. Personality marks dinner and vases (6)
108. Afro lick dance (6)
109. This darn country is going to hell! (9)
110. Al maps gooey substance (6)
114. Going to the grocery store for classical music (6)
116. Natural environment is both love and thanks (5)



117. Shine it in the sunlight (6)
118. Sure, tumors is backwards, but where do babes come from?(6)
119. Alternative lifestyles retain water (6)
120. Collect bush eaves (5)
122. West ate properly (6)
125. Fat polio is taken over by manager's ideas (9)
127. Commie alcohol is reversed death (6)
128. Binary blood type is a legend (6)
129. Tired, confused, wordy direction (6)
132. Carefully gotten by a kept woman (6)
136. Void not in tangerine (6)
137. The base of Al, the Indian death goddess (6)
138. Say what? Shocking! (4)
140. Goose sounds like cheese (4)
144. French greets hand lotion (4)
145. You thought me a narc? (4)
146. Charged particle ends cursor repetition (9)
147. A sticky luge is wrong (4)
148. Distributing Cain in Peru (4)
149. Boxer's goal, OK? (4)
152. It's not picky (4)
154. Emus, bloody emus without heads on a crest (6)
155. 8π under the sea (6)
156. EC is blah, and turns white (6)
157. A naughty army without hair (6)

Down (Cryptic)

2. Evil St. Nick (5)
4. The dancing ditz is last, not first (5)
7. Pole is broken and lumbers along (4)
8. Deal with bad stress for heading oil cartel (4)
10. Blue nose in summer (8)
12. Freak fob is fab. Just finish it (8)
15. Lapel length (3)
19. Crazy lard in the back of the ship (3)
22. Demonstrating ignorant minds (3)
23. Sticky face upside-down (3)

25. It's a seed! It's an ear! It's a bump on my foot! (5)
27. A dog is teased (4)
29. The soft fern got knocked over (4)
31. Ha! (Note disappointment) (5)
37. Arm! (4)
38. See! Train track is holy (5)
39. God in a storm (4)
40. Chocolate bar is there, love (4)
42. A frantic lope like the Pope (4)
44. In line, do this to a boat (3)
46. A darn good language (3)
48. Sounds like constipated energy (3)
49. My previous state looked up (3)
51. Elmer Fudd sings "Kill da Wabbit" (5)
54. The hedgehog makes a boom (5)
56. Battle the raw soldier (3)
59. Tacky asphalt. Roads. (3)
60. Hey, especially if I agree (3)
62. Ideally opposed to drugs (3)
63. I look lousy (3)
65. High circle (above bass) (4)
66. A repossessed musical (5)
68. Woodwind? A homeless sound (4)
69. Acre everywhere for Indian (4)
71. The wheel got confused on the post (4)
74. Money in Washington (7)
75. Israelite has bras, but is not quiet (5)
76. Exchange Inc. to water (5)
77. Hi's neighbor needs a drink (7)
80. Shelled early, without rock is old (7)
82. Hi, a messy holy one (7)
83. Braves burn in flames (7)
84. Cheap stadium is liberty (7)
90. Donald meets ET and blows his horn (7)
91. Give an 'A' for my organs (7)
94. Northern city is on guard (5)
96. Twist hair in bee sting (5)
102. Father or mother are trapped (6)
103. Bailey's and peppermint schnapps. What a release! (6)
104. Scandinavian group goes both ways (4)
105. Symbol of the past. Offense is in gap (6)
106. Play part of charge motion (6)
111. Sum over standard error (5)
112. Living quarters of a crazy indian (5)
113. More than one Ren? Sounds like you're full of shit (5)
114. Crow's song has effect (5)
115. Public voter (5)
120. disgrace, crazy gas left mist (6)
121. Non-violent colour (6)
123. Back Burton and Horton over Patricia in horseshoe place (6)
124. Mystery in game turns (6)
126. Screw up the endless bluff (4)
130. Take it out again, regarding fresh Jolson (7)
131. Aye! Today we begin! (3)
132. Endlessly lost up in space (3)
133. Fonzie gets old (7)
134. Jump because it's wrong to ask (4)
135. Blow all remaining food (4)
139. Not Here's credit is proof (7)
141. π and onions don't mix — Winston Churchill (7)
142. EC's son is crazy. He makes logos (5)
143. The joined particle isn't charged (5)
149. I heard Neil won't stand for it (5)

150. I might confuse the hour (4)
151. Evil mood (4)
153. The path to your court date follow (5)

Thru (Cryptic)

1. Tooth to teeth (5)
5. I dart around a threesome (5)
9. Dry, eh? (4)
13. Cow home that can't be hit (4)
16. Crown of certs (5)
18. Vomiting sounds are Tchaikovsky's favourite (5)
21. After left ate right (5)
26. Vermin's eye loves proportion (5)
30. Smurf takes love for you and gives it shapes (5)
32. Tent with accountant and soldier (4)
33. A little tone of music (4)
34. Recovering alcoholics, Canadiens again (5)
36. Dear fourth: backwards, I'm afraid (5)
52. Mr.Clean was here (4)
53. One spinner at the pinnacle (4)
62. Shakespeare's back, but he's boring (4)
63. It now turns outwards (4)



Across (Conventional)

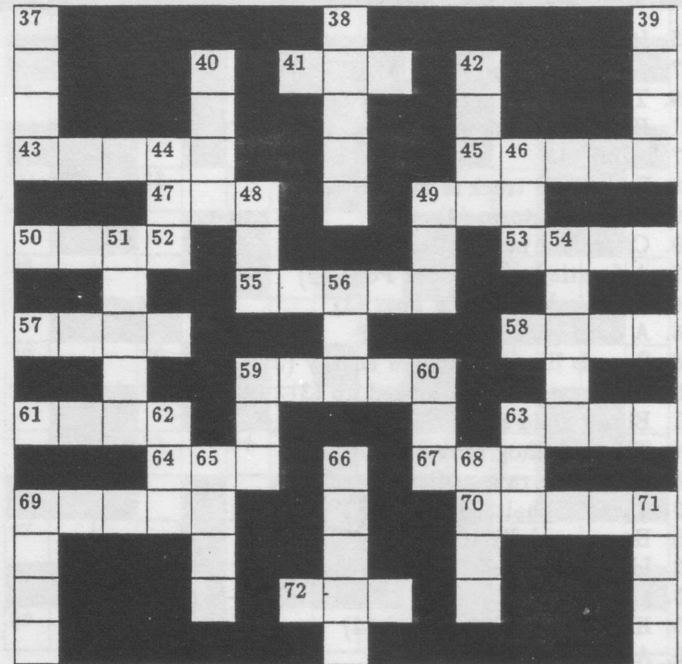
1. Not end (5)
3. Wonderful (5)
6. Charged particle (3)
8. One of ten (3)
9. Night before (3)
11. Curve (3)
14. Upgrade (7)
17. Speckled (7)
20. Storm (7)
24. Coach (7)
28. Condiment (7)
34. Over the hill (5)
35. Weepy veggie (5)
41. Child's desire (3)
43. Advertisement (5)
45. Solitary (5)
47. Era (3)
49. Anger (3)
50. Bee's relative (4)
53. Third person plural (4)
55. Ebony (5)
57. Fe (4)
58. Prom acquaintance (4)
59. Hi (5)
61. Power (4)
63. On the summit (4)
64. Spicy (3)
67. Nothing (3)
69. XX (5)

Across (Conventional)

- 70. "___ without a Cause" (5)
- 72. Canine (3)
- 73. Adept (4)
- 75. Trinket (5)
- 77. Soft drink (4)
- 78. ___ Processing (4)
- 79. One to everyone in the group (4)
- 81. Tree or part of hand (4)
- 83. ___ an egg (4)
- 85. Single (3)
- 86. Grain (4)
- 87. Proclaim (4)
- 88. Knock my gun away (7)
- 89. Deer (4)
- 91. Plane (4)
- 92. Consume (3)
- 93. Level (4)
- 95. On cars or animals (4)
- 97. Wound (4)
- 98. Fall ___ the Gap (4)
- 99. Regulation (4)
- 100. Want (5)
- 101. Behind (4)
- 107. Maintenance (6)
- 108. Pre (6)
- 109. Beatles' tune (9)
- 110. Soccer/golf shoes (6)
- 114. Middle (6)
- 116. Not verbose (5)
- 117. "Fresh Prince of ___" (6)
- 118. Soap (6)
- 119. Perfect (5)
- 120. Brief sleep (6)
- 122. Painful occurrence (6)
- 125. IRA bomber (9)
- 127. To oppose (6)
- 128. Ticket to an interview (6)
- 129. Academic institution (6)
- 132. Tree limb (6)
- 135. Us (2)
- 136. Compelled (6)
- 137. Day planner (6)
- 138. Suffering (4)
- 140. House landed on this witch (4)
- 144. Unruly child (4)
- 145. Knitting (4)
- 146. Odd (9)
- 147. Vocalizing music (4)
- 148. Burning desire (4)
- 149. Eons past (4)
- 152. Disfigurement (4)
- 154. Fuel (6)
- 155. Short summary (6)
- 156. The magic word (6)
- 157. Small singing brown bird (6)

Down (Conventional)

- 2. Stream (5)
- 3. A Japanese strategic game (2)
- 4. Response (5)
- 7. Require (4)



- 8. Ensnare (4)
- 10. Holiday (8)
- 12. Study of C3P0, R2D2 (8)
- 15. Swine (3)
- 19. Final (3)
- 22. Evergreen (3)
- 23. Soap (3)
- 25. Incompetent (5)
- 27. 2n, n is integer (4)
- 29. The good, the bad and the ___ (4)
- 31. Locomotive (5)
- 37. Fall (4)
- 38. Canopy (5)
- 39. String (4)
- 40. Prince before kissed (4)
- 42. Rip (4)
- 44. Atlas (3)
- 46. "___ it be" (3)
- 48. To wane (3)
- 49. Pen and ___ (3)
- 51. Small (5)
- 54. Valentines Day (5)
- 56. Every last one (3)
- 59. Magician's ... rabbits(3)
- 60. Possession (3)
- 62. Indefinite article (3)
- 63. Beer (3)
- 65. Exclusive (4)
- 66. Ran away with the dish (5)
- 68. Violet flower (4)
- 69. Desire (4)
- 71. Building blocks (4)
- 74. Example (7)
- 75. Camel (5)
- 76. Combine (5)
- 77. Fabricated (7)
- 80. Long neck, and no fashion sense (7)
- 82. Grover, Elmo, Harry (7)
- 83. To engage (7)

The New Co-op Process

*A Thoughtful, Creative and Constructive Look At
Needles Hall's Latest Invention*

84. Hammy _____ (7)
90. Famous (7)
91. Funny, _____, funniest (7)
94. _____ other one (5)
96. Sea (5)
102. Down-home, country-style (6)
103. Untruth (6)
104. Apple's middle (4)
105. Argue (6)
106. Tempt (6)
111. Encore (5)
112. Unclothe (5)
113. Start (5)
114. 'Baby' bass (5)
115. Famous (5)
120. Movie, flash, pinhole or reflex (6)
121. _____ as pie (two words) (6)
123. Able to stay awake through an 8:30 (6)
124. Where a cameo might make an appearance (6)
126. When the fat lady sings (4)
130. Motorbike nickname (7)
131. Fall behind (3)
132. Panhandle (3)
133. Book section (7)
134. Owed (4)
135. Four of them keep the roof up (4)
139. ...-2, -1, 0, 1, 2, ... (7)
141. Non-repeating (7)
142. Indy driver (5)
143. Poet's produce (5)
149. Little old lady, who? (5)
150. Fairy story (4)
151. Moon's gift to the shore (4)
153. Hourly changes (5)

Thru (Conventional)

1. See after hit (5)
5. Oscar the grouch (5)
9. TV award (4)
13. _____ Ashtrays (4)
16. See 111 Down (5)
18. To speak in public (5)
21. The rain in Spain falls here (5)
26. Discordant sound (5)
30. Fathers (5)
32. Tidy (4)
33. Lease (4)
34. Archaic child discipline (5)
36. Where the penguins don't live (5)
52. Blueprint (4)
62. Musical pitch (4)
63. Brand of car (4)

Needles Hall, realizing that too many Co-op students were actually being served well by the co-op program, has gone ahead and changed the way that students are placed with jobs. The biggest victim of the change is the job application and interview process, which has been gutted and reworked from the bottom up.

Instead of the eminently logical *Want Ads* and the old application form, Needles Hall has instead decided to create maximum confusion in minimum time. They should be congratulated for not being able to do anything right. Anyway, before we get too far into the Needles Hall bashing, I should briefly outline their new, improved, completely bone-headed setup. The jobs offered each day will be posted in various places around campus, including a "box office number" where you can drop off your resume and various administrivia. The employers will then go through the submitted resumes, schedule interviews, and interview those students smart enough to find their way to Needles Hall. Good design.

Bad implementation. Needles Hall has never been a mecca of good service, and this new process will only accent this lack of customer service. Even though the posted jobs can be seen twenty-four hours a day, you may only visit Needles Hall to drop off your resume between 8:30 a.m. and 4:30 p.m. The postings are up for a grand total of twenty-two hours, at which point they are taken down and presumably eaten. So that means that students looking for jobs must stand around in a big group, jostling and shoving, looking for new jobs *every single day*. For two weeks. Then they must go to Needles Hall (make sure it's open!) and apply for any job that they're interested in.

But don't worry! The Career Resource Centre has extended hours! It's open until 7:00 p.m. *every Wednesday*. Wow, you just don't get this sort of service in the private sector. But the whole building is closed weekends and holidays.

And don't forget that the jobs are arranged in random order! Whee! I love Needles Hall. The jobs are not arranged by discipline, by faculty, or by anything. They are (apparently) posted in whatever order the folks at Needles felt was as confusing as possible. Gee, wouldn't it be nice if all the CS jobs were posted on the week, all the Engineering jobs the second week, and so on? Not a chance, bub. That would make too much sense.

The new process is a good one - if you're willing to schedule your entire day around getting a job. In fact, Co-op Education was so confident that the process would meet with wild approval that when it was discussed in a SAC meeting, the discussion was stricken from the minutes. So what does SAC stand for - Students Advising Co-op? Students Against Co-op? People Unclear on the Concept of Representing Students?

The whole thing will get better when the Fall term rolls around. Those lucky folks will have interviews all term long, whenever the employers feel like coming on campus. And then if the employer wants to hire you, you have twenty-four hours to accept or decline the job. No more pesky waiting around for any of those jobs you really want. Pretty soon all the companies will figure out that they have to arrive on the campus in the first week of school in order to secure any student other than Joe Frosh.

Hey, but don't worry: it's only \$340 a term. Well worth it, especially if you actually manage to secure a job.

Flipper





gridCOMMENTS

*A grid like no one has seen before
(and will probably never see again)*

For those who haven't seen a copy, Issue 6 of last term's *mathNEWS* was our 20th Anniversary Celebration Issue, culling together the best articles of the past 20 years. Now, for that issue, we here at *mathNEWS* have gone to extra lengths to please those of you who enjoy doing our gridwords. What have we done? We've created the Ultimate Monster Grid for your procrastinating pleasures. And it's a contest, too! Dare we say, the Ultimate contest? (Dare! Dare!)

So here it comes, the dreaded 20th Anniversary 3-D Gridword From HELL! Yup, you heard right, 3-D! It only took me and the other contributors a whole term to do this, so enjoy it dammit! A super big thanks to all the people who helped out with the clues: EC, Fuzzy, and jeffie (for the grid clues), droG, mouse# 2, and the other People With Too Much Time On Their Hands (for the conventional grid), and to Mala, BJ, Kevin, Guelph, and PeeWee the Engineer (for the conventional clues), but ultimately, all the credit goes to me for the idea and designing the bugger in the first place. By the way, it seems I duplicated a couple of clues in the cryptic grid. After taking the whole term to design the thing, you can live with it. This will give you something to do while waiting for your programs to compile, or whatever.

We'll be accepting solutions ALL SUMMER (specifically, until the Production Night for the term's last issue — more on that in a later issue), with the winner receiving a FREE *mathNEWS* (Volume 2) Prof Quotes Book when we print them this summer! How's that for incentive? Anyway, when you solve it, drop it off in the BLACK BOX across from the Comfy Lounge (or for you co-ops — send it to *mathNEWS* c/o The Math Society, MC 3038, University of Waterloo, Waterloo ONT, N2L 3G1). You've got till the end of the summer, so take your time. Winners will be announced in the last issue of this term.

(PS— if you don't know how to solve gridwords, but would like a chance to win the Prof Quotes book, drop by the *mathNEWS* office, MC 3041, and pick up the gridword "rulebook").

Good luck and happy gridding!

Token Artsie
Grid-EC

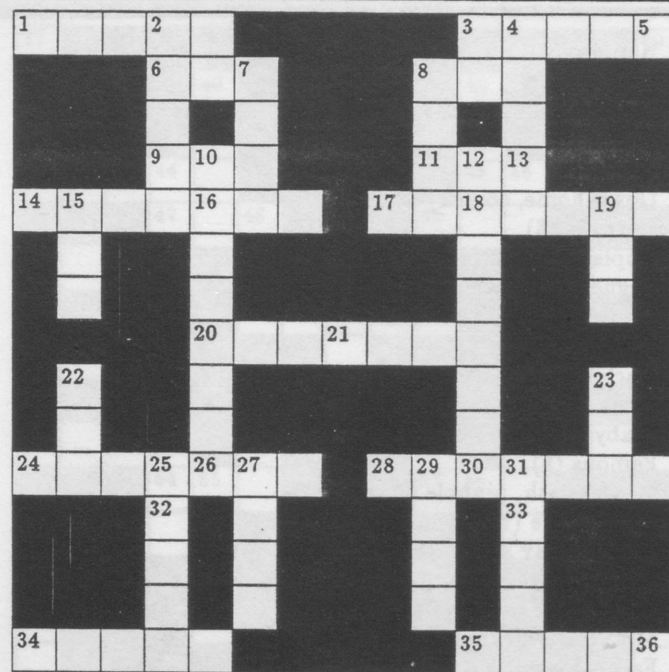
and all the people I thanked above

"We have here a proof by engineering induction: this is true for $k = 5$, therefore it is true for all values of k ."

Wagner, C&O 230

"Is there anyone here in Pure Math? Just one? If I say anything that needs to be clarified you can feel free to shut up."

McKeirnan, AM 333



A Poem

So you walk around campus
Surrounded and alone
Tell me what do you see?

I see the ducks on Laurel Creek
I see the people on the street
And that is all that I can see

So you work in your room
Surrounded and alone
Please tell me what you see?

I see words on paper below
I see my pen write and flow
And that is what I can see

So you gave up your life
To be surrounded and alone
Tell me, do you really see?

I do not see the joy in life
The sound of laughter, the love of wife
I do not see a friendly smile
The help to ease the ungrateful mile
I do not see what I can give
To help my fellow Humanity live
I do not see my lonely grave
I just see the money I save

And that is all that I can see.

The Flaming Fish

"This may seem trivial now, but not when we are confused later."

Cuenca, ECON 101