

CS NEWS



Volume 1, Issue 1

Friday, July 25th, 2003

Inaugural Issue!

Half the Fun of mathNEWS
with all the Production Costs!

What These Guys Don't
Know About the Server
Going Down in 5 Minutes
Can't Hurt Them

lookAHEAD**csNEWS**

July 25	Issue #1 charges forth like a mighty warrior
August 4	Issue #2 production night 6:30 pm, CSC (MC 3036) Sadly, I don't think this will be happening. (At least, not then)

School of Computer Science

July 29	Last Day of Classes
August 1	Exam Period Begins Don't burn yourself out
August 14	Exam Period Ends I'm sorry, thanks for playing, better luck next time

Computer Science Club

I had an awesome term, how about you? See you in September/January

CS Grad Committee

Now accepting nominations for a CSGC chair.

CS Endowment Fund

Um, I found a quarter. Who wants it? Funding proposals due next Thursday.

Co-op

Don't worry, you'll get a job eventually. I mean, your fee pays for something, right?

Miscellaneous

August 16	Debian turns 10!
September 1-6	Fros...I mean, Orientation Week



**Computer
Science
Club**

A Student Chapter of the ACM

CSCFlash

What you missed by not reading this before it was published.

Thursday, yup yesterday, we had our last executive meeting, MEF had a meeting confirming what money they wanted to give us, and Simon gave a Vi tutorial for all those who haven't realized that emacs is the way things should be done.

Today, yup Friday, someone is sitting in office crying since Debian is not getting money from Imperial Oil to fund women Debian developers.

Next week classes are over and the office will probably be closed a fair bit since studying should take priority over getting your picture on the webcam, <http://www.csclub.uwaterloo.ca/office/webcam.html>.

Well, I'm not done ranting yet, sinus headaches suck, next term we'll be having elections, just like every other unique term, if you are interested in filling any executive position (President, Vice-President, Secretary, or Greedy Mongol — I mean treasurer) email cro@csclub.uwaterloo.ca.

James A. Morrison
President

mastHEAD**Split The Whole World in Two!**

So this is it, the big first issue of csNEWS. Volume 1, Issue 1. Whoever said change for the sake of change is pointless must have never read a copy of csNEWS. Although the production night was a little odd tonight, as it was a joint production night with those weenies at mathNEWS. Some mean words were hurled between the evil mathNEWS overseers and the csNEWS freedom fighters. In the end there was a big fight over the pizza and the casualties mounted. Actually, the only casualty was a rubber chicken that was mistaken as a pizza topping.

So we asked our debut csNEWS team the following question "What are you going to do now that we are free of the tyranny of math?": Eric Logan (1B CS, Divide by '0'), Albert O'Connor (3A CS, Take over ES, err I mean to a PM minor), Jim Morrison (3A CS, Throw a kegger (Aug 16th)), Aaron Klotz (3A CS, Does that mean I'm free from the tyranny of CS 360?).

Shoutout to our homies in Graphic Services.

Ian W. MacKinnon (2B C(ognitive)S(ience), nakedNEWS
...wait?..)

Louis Mastorakos (3B C(ognitive)S(ience), only serve the one
mastor)

Rumours CS students heard

1. Math is hard.
2. Pure Mathies are employable.
3. The Comfy smells good.
4. The new BCS is harder than the old BMath/CS.
5. STAT 230 and 231 are useful.

How We Ensured That There Are No Duplicate Articles in Both mathNEWS and csNEWS

A Service Brought to You By The Department of Redundancy Department

csNEWS/mathNEWS has ensured that there are no articles appearing in both issues by creating what is called the Department of Redundancy Department.

Their slogan is: "We remove and eliminate any and all useless and unnecessary superfluous redundancy and useless repetitiveness."

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The editor(s): Louis Mastorakos, Chris Harasemchuk, Ian MacKinnon

In The Next Issue of csNEWS...

We at csNEWS plan on being highly organized and well-prepared to produce future issues. We will not be the disorganized publication that *mathNEWS* is. And we actually plan on having actual news more often. What a concept!

In fact, we already have article ideas for the next csNEWS prepared. Here are a few sample headlines:

- Why csNEWS Requires More Funding
- *mathNEWS* profQUOTES Will Be Dramatically Reduced By Lack of Troy Vasiga Quotes
- csNEWS: Sounds Too Much Like "See Us Snooze"
- This Article is Written in Obfuscated Perl: Not Even Crypto-Specializing C&O People Can Decipher It!
- "I Coouldntt Unndrstnd Itt, It Hd Noo Tyypos," Iron Warrior Editor Writes About Our First Draft
- Imprint Editors Say That csNEWS is News-Lacking and an Unnecessary Waste of Paper (And Don't Get The Irony)
- CS 452 Student Rumoured to Have Spent More Than Two Hours Outside of the Real Time Lab
- Some of Our Headlines Are Too Long And Something Should Be Done About Their Length And This Particular Headline Is By No Means An Exception
- Introductory Social Skills for CS'ers: Lesson #1: How to Express Oneself Without Emoticons

Dear csNEWS

I have a problem. I play too much StarCraft. I know it's an old game, but it's so fun. I can even make the game difficult by having a shot of vodka for each computer I beat. The only problem is that I end up playing all night long and missing my 8:30am class, so I can't do my assignments in class. What should I do?

Sucking It Through Tons of Internal Night Games

Dear SITTING

Obviously your problem is that you aren't drinking enough. If you double your drinking to 2 shots for each computer player you beat you will pass out sooner, thus giving you a greater chance of making it to your 8:30 class where you can take the time you need to do your assignments.

Rumours MATH students have heard

1. The new BCS is useful.
2. The old BMath/CS is useful.
3. Net Compactness implies Sequential Compactness.
4. STAT 230/231 is useful.
5. Co-op works.

Prez Sez

Finally a place for all CS talk, all the time

forward: *mathNEWS* page 2, article title: Prez Sez

Albert O'Connor
President, MathSoc
Spring 2003

csNEWS Published to Honour Math Student

Thank You for This Great Honour

Imagine my surprise and delight at hearing that the University of Waterloo would be publishing a newspaper entirely about me, Craig Sloss. When I first heard of the publication of *csNEWS*, I was overwhelmed by the prospect of this great honour.

After having spent four years at this prestigious institution, I thought that it was about time that my illustrious presence was recognized by a bi-weekly student publication. Imagine all the wonderful regular features that will be included in this publication, such as *slossQUOTES* and the *slossWORD*. I eagerly await regular columns such as "The Cornered Sloss," "Sloss Sez," "Ask Craig Sloss," "Craig Crumpled," "Sloss's Believe It or Not" and "Craig 101."

I would like to thank the fine folks at *csNEWS* for this great honour that they have bestowed upon me. I wish you the best of luck in your publishing endeavours.

Craig Sloss

Glad to be a CS Major

- CS 134 — Glad I don't have to take anymore courses with these non-CS whiners
- STAT 230 — Glad I only have to take 2 of these
- CS 251 — Glad I didn't take Comp. Eng
- CS 241 — Glad I'm never going to take a compilers course
- CS 246 — Glad I'm not taking some form of Software Engineering
- STAT 231 — Glad I only had to take this twice
- CS 341 — Glad I've seen what happens when you try to drink and teach
- CS 342 — Glad I can do two things at once
- CS 354 — Glad I have a crazy prof
- CS 360 — Glad I can replace you with a Turing machine.
- CS 370 — Glad I can solve everything numerically, time to get rid of all those Mathies.
- MATH 235 — Glad I will never have to make reference to an eigenvector ever again
- MATH 239 — Glad I remember that unit in Kindergarten on colouring

Ian W. MacKinnon and Jim Morrison

A Limerick

A student, whom none would respect,
Wished to join a mysterious sect.
They made him eat flies,
And squeezed limes in his eyes,
Before he could join the elect.

Greg Maloney

The REAL UW Blogging

In order to give prospective students a glance at what life as a UW student is like, the admin has made a special page entitled "blogging @ UW", and you can look at this tripe at <http://www.blogging.uwaterloo.ca>. This page links to the "web journals" of 9 possibly real individuals at UW. What's great about this is that if you take these 9 people to be a random sampling of UW students, there would be an 8:1 girl-guy ratio and a third of the students would be in AHS. It also happens that most of the student's experiences seem to really be a pitch for some UW service. i.e. "Today I visited CECS, where their friendly staff helped me on my way to my career goals." This page is cute and all, but it is a far cry from the 'average' day for a UW student. In order to help incoming students (who are definitely reading this) I have harvested random blogs from student.math pages and posted the ones that truly describe the UW experience, while still plugging various UW services.

The Most Exciting Day

Tiffany

May. 11, 2003

"So usually my day consists of waking up, going to school, coming home, studying, then going back to sleep. I have learned to operate without such luxuries as TV, social interaction, and fun. Usually this is good enough for me, but today was extra special!! They served special stereotype cuisine in the caf from some other country. I really am glad I have Food Services to ensure that every now and then I have a little excitement. If it weren't for them, I would probably turn into a sociopath."

Hardcore CECS

Bill

June. 13, 2003

"Today was ranking day at CECS, the people at CECS are always helpful and have a great staff filled with co-op students who couldn't be employed anywhere else. Of course for people like me who didn't get any interviews, this day has no real meaning. This is my third time going on work-term and I have yet to have a job in the initial phase. But I am not sick of paying \$400 dollars to find my own jobs though, CECS says the fee is amortized over my whole career. At first I felt really sorry for all those suckers... I mean frosh coming here in the fall, but then I realized with CECS on the case, there will be jobs for all!"

Do You Know Your Black Music?

The following is a list of black music artists. If you can name a song by at least 5 of them, come to me and you'll get a wonderful prize. If you don't recognize me, I'm the black guy with glasses.

Foxy Brown
Lil' Kim
Peter Gunz
Lord Tariq
Rugged Terrain
Marvin Gaye
Bounty Killer

Doug

Jan. 3, 2003

"I met with my Academic Advisor today. Your Academic Advisor is always there and willing to help you plan out your career. Today this planning involved sending my ass down to general because my average dropped too low. This does not mean my career is going to be limited, my advisor told me that I am just as special as any other tuition cow here at the school."

So Now I'm in General

The Voices Tell Me to do Bad Things

Tiffany

July. 17, 2003

"It has been a total of 3 weeks since I last saw the sun. It's the middle of the summer and I am as white as a snowball. Some time I dream of blowing a hole in the side of the MC to let some light in. But then I think, why just stop at a wall? I can end my misery! If the MC no longer exists, then I will finally be free! But should I feel bad? NO! I would go and see one of our friendly counsellors, but there is no time in my schedule for silly things like 'therapy'. The best therapy one can have involves lots of explosives around the MC! I want my special cuisine back!"

It's the Weekend

Jordan

July. 19, 2003

"So I was thinking about going out tonight, but I realized that there is no real place to go. The Federation of Students (who offer a variety of student services such as the bookstore) had their bars closed by the tight-assed University Admin (who run such services at the Registrar's office and counselling services) because FEDS made a better scapegoat than UW Police Services (who have a 24 hour help line and panic buttons on long walking paths). I guess liability concerns should take precedence over students enjoying their undergraduate experiences."

It's a Multi-cultural Experience

Christina

March. 23, 2003

"One of the things that I really love about Waterloo is that it is such a vibrant multi-cultural campus. I'm not convinced I've ever had a TA who spoke English!"

Ian W. MacKinnon

Max-A-Million

Boomshicka Styles (not a real artist)

Lino Demasi (not a real artist, nor black)

Sean Paul (if you think he's black, you clearly go to UW)

Michael Jackson (do I need to go there?)

Barry White (sorry, no dead people allowed for this quiz)

Troy Vasiga (.....)

Random CS Student (refer to Michael Jackson)

The Ebony Mathematician

Delve into the Devil's Dictionary

I got bored and started reading the dictionary (More specifically, the Devil's Dictionary). Consequently, here are some definitions we should all know:

ABSOLUTE, adj. Independent, irresponsible. An absolute monarchy is one in which the sovereign does as he pleases so long as he pleases the assassins. Not many absolute monarchies are left, most of them having been replaced by limited monarchies, where the sovereign's power for evil (and for good) is greatly curtailed, and by republics, which are governed by chance.

BRAIN, n. An apparatus with which we think what we think. That which distinguishes the man who is content to be something from the man who wishes to do something. A man of great wealth, or one who has been pitchforked into high station, has commonly such a headful of brain that his neighbors cannot keep their hats on. In our civilization, and under our republican form of government, brain is so highly honored that it is rewarded by exemption from the cares of office.

CARTESIAN, adj. Relating to Descartes, a famous philosopher, author of the celebrated dictum, Cogito ergo sum — whereby he was pleased to suppose he demonstrated the reality of human existence. The dictum might be improved, however, thus: Cogito ergo cogito sum — "I think that I think, therefore I think that I am;" as close an approach to certainty as any philosopher has yet made.

DISTANCE, n. The only thing that the rich are willing for the poor to call theirs, and keep.

EXCEPTION, n. A thing which takes the liberty to differ from other things of its class, as an honest man, a truthful woman, etc. "The exception proves the rule" is an expression constantly upon the lips of the ignorant, who parrot it from one another with never a thought of its absurdity. In the Latin, "Exceptio probat regulam" means that the exception tests the rule, puts it to the proof, not confirms it. The malefactor who drew the meaning from this excellent dictum and substituted a contrary one of his own exerted an evil power which appears to be immortal.

GNU, n. An animal of South Africa, which in its domesticated state resembles a horse, a buffalo and a stag. In its wild condition it is something like a thunderbolt, an earthquake and a cyclone.

INTERPRETER, n. One who enables two persons of different languages to understand each other by repeating to each what it would have been to the interpreter's advantage for the other to have said.

What We Sometimes Think "CS" Really Stands For

- Committing Suicide
- Choosing Sleeplessness
- Can't Socialize
- Crazy Suckers
- Crappie Spelers
- Caught (in) Syberspace

LOGIC, n. The art of thinking and reasoning in strict accordance with the limitations and incapacities of the human misunderstanding. The basic of logic is the syllogism, consisting of a major and a minor premise and a conclusion - thus:

Major Premise: Sixty men can do a piece of work sixty times as quickly as one man.

Minor Premise: One man can dig a posthole in sixty seconds.

Conclusion: Sixty men can dig a posthole in one second.

This may be called the syllogism arithmetical, in which, by combining logic and mathematics, we obtain a double certainty and are twice blessed.

MORE, adj. The comparative degree of too much.

OBSOLETE, adj. No longer used by the timid.

PROOF, n. Evidence having a shade more of plausibility than of unlikelihood.

PROOF-READER, n. A malefactor who atones for making your writing nonsense by permitting the compositor to make it unintelligible.

QUOTIENT, n. A number showing how many times a sum of money belonging to one person is contained in the pocket of another - usually about as many times as it can be got there.

RANK, n. Relative elevation in the scale of human worth.

REASON, v.i. To weight probabilities in the scales of desire.

REASONABLE, adj. Accessible to the infection of our own opinions. Hospitable to persuasion, dissuasion and evasion.

REDUNDANT, adj. Superfluous; needless; de trop.

SYMBOL, n. Something that is supposed to typify or stand for something else. Many symbols are mere "survivals" — things which having no longer any utility continue to exist because we have inherited the tendency to make them. We cannot stop making them, but we can give them a name that conceals our helplessness.

SYMBOLIC, adj. Pertaining to symbols and the use and interpretation of symbols.

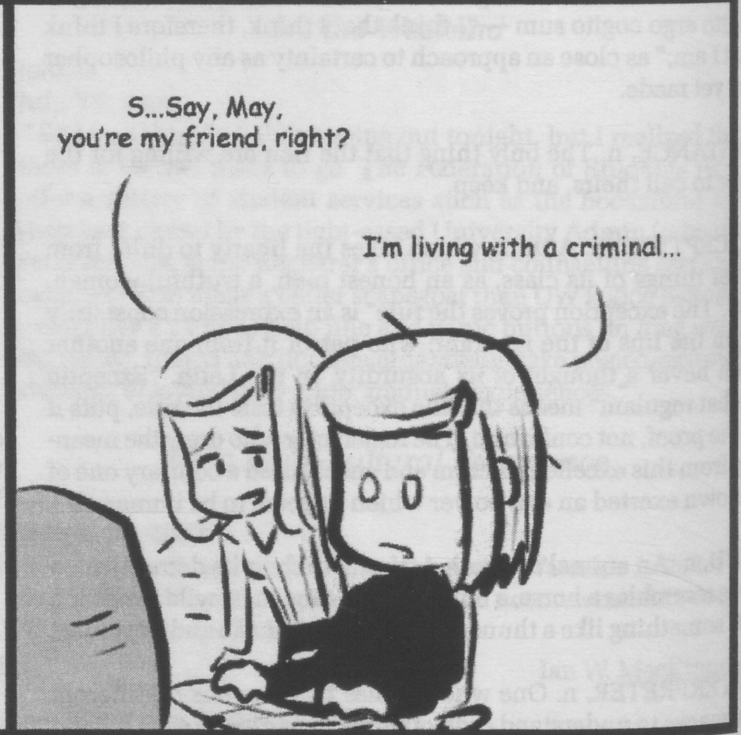
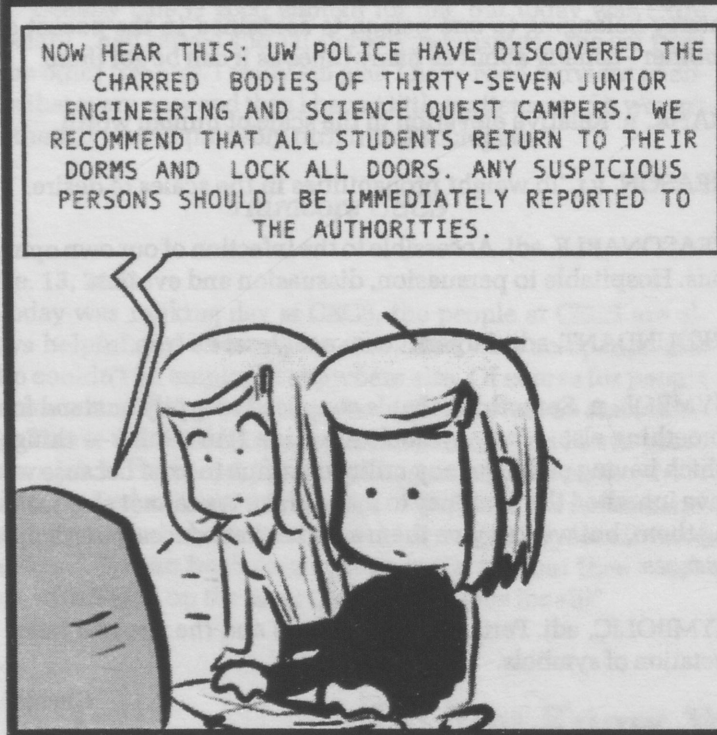
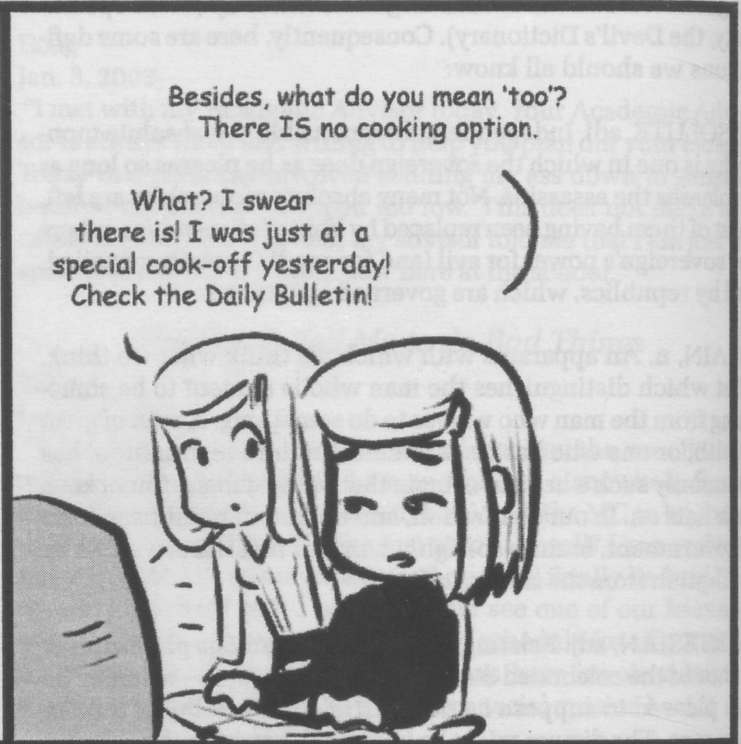
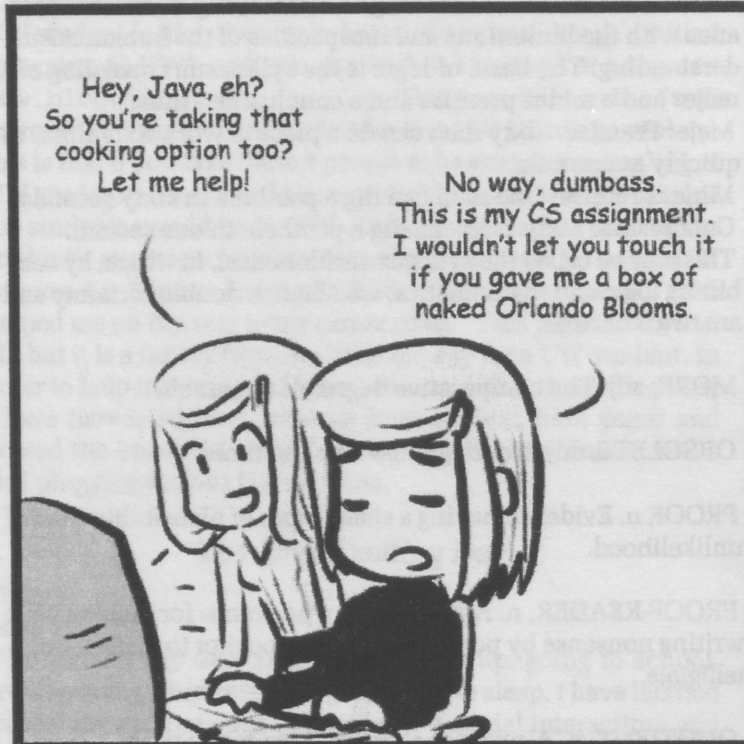
Cheers,
Sophie

Free Software, Beer, and No Exams

So, exams will be over soon and Debian is turning 10. It sounds like a good time to party and do a geeky thing: **Sign GPG keys**. Debian turns 10 on the 16th, so that is the day to party. Intel is 35, but does anyone care?

James A. Morrison
jim@python.shacknet.nu

April and May



Pure Mathie Jokes

Define Mass Un-employment — 144 Pure Mathies

"Now tell me the truth," Said the pollster, "Would you rather see your daughter married to a chimp or a pure mathie?"

"It depends," said the man, "is the monkey employed?"

An applicant for a lifeguarding job at the PAC was asked, "Do you know how to save a drowning Pure Mathie?"

"Uhhh, no.," said the boy

"You're hired!"

What do you get when you cross a gorilla and a Pure Mathie
A gorilla that thinks it's the shit

What does a Pure Mathie do when he runs out of sick days?
(hypothetically, since none are employed)
Calls in dead

What happened to the Pure Math water polo team?
All their horses drowned

profQUOTES

"What if this whole software engineering thing doesn't work out and you have to work at McDonald's?"

Vasiga, SE 240

"Being engineers, you may say, 'I've seen 2 cases of case 2, ergo, all cases are case 2.'"

Vasiga, SE 240

Student: "Does it have to do with DMA?"

Prof: "What do you think?"

Student: "Yes."

Prof: "No."

Zima, CS354

Prof: "Who knows why it is called FAT32?"

Student: "32 bit."

Prof: "32 bits of what?"

Student: "File allocation?"

Prof: "File allocation?! Where's my gun?"

Zima, CS354

"Try to get excited about it. I mean, it's fun when your OS works."

Zima, CS354

[After typing 'shi' on the screen]

"No, I'm not writing 'shit'."

Zima, CS354

Bunnies: Sinus or Suicide

It seems our report that pirate bunnies in Saskatchewan was...

We would like to apologize to *csNEWS*, its previous title *mathNEWS*, and the BBC. It seems the report about WMD, Weapons of Moose Destruction, was exaggerated and was taken mostly from a bad joke book. Unfortunately, our *reliable* sources within the Pink Bunny have committed suicide. We are unsure if the bunnies committed suicide because of massive sinus headaches or if our reporter... someone endangered the bunny's safety.

The Bunny Master

Secondhand Stogies

Now Available in Two Flavours: Math and CS

Software Engineers Get Nothing for Once

That's right, you Softies. You get nothing. Who the hell do you think I am? Scotiabank? I may be in tried-and-true BMath Honours CS, but I'm not bitter.

Those few (former) *mathNEWS* readers who actually know me are aware that I am a slacker. I like to write articles, but only if they take little or no effort to produce. Therefore, although this column will now be appearing in both *mathNEWS* and *csNEWS*, each issue will essentially contain one half of the original article in each newspaper. Hence, if you want to read the entire article, you will need to acquire both papers.

The verdict:

- CS is getting even.
- Math is odd.

Aaron Klotz

Enjoy the new format!

csNEWSQuiz #1

The beginning of an era

Welcome to the first *csNEWS*Quiz of, um, ever. Let me tell you, this split is going to benefit you in ways I can't even think of! I did work with *mathNEWS* up to the split, but if you're looking for the answers to the last quiz, you're going to have to hop over to *mathNEWS*. Oh, don't worry. Before much longer, the separation of *mathNEWS* and *csNEWS* will be complete.

Since I have no solutions to give you, I suppose I could just launch straight into the categories, or I could babble for a while longer. Free from that ball-and-chain Craig, I can do what I like in this quiz. I'm free, free! You know what? Let's cut to the chase. Given that this is *csNEWS*, I've tried for a CS spin.

Binary Arithmetic

The correct answer is just the resulting nibble.

1. 1010 + 0101 - 1011
2. 0010 XOR 0110 NAND 1101
3. 1101 - 1001 + 1000
4. 1111 NOR 0100 + 0011

Cowboy Bebop

1. Name the five main characters who travel aboard the *Bebop*.
2. Before being overhauled for bounty hunting, what was the *Bebop* used for?
3. How old is Faye Valentine if you count years since she was born? How old would she be if she were alive today?
4. What is the name of Ed's computer?
5. Who wrote the soundtrack for the TV series?

Name that Programming Language

1. The successor to B.
2. Some say it's really called Lots of Irritating and Superfluous Parentheses.
3. The easy moniker does justice to this All-purpose Symbolic Instruction Code.
4. As much fun as it sounds, I don't think you'll find this language in an oyster.

Pot Pourri

Because I haven't taken up a full column yet

1. What is the diameter of a standard CD?
2. This is the only inanimate object represented by a sign of the zodiac.
3. What's the fastest spindle speed on SCSI hard drives you can buy?

Well, good luck. The answers are located somewhere in *csNEWS*. Don't bother submitting to the BLACK BOX or by email by 6.30 on August 4; I will merely use this as an excuse to laugh at you. For those of you reading since the beginning of the term, it's been a fine ride. Maybe I'll have this job again someday...

*csNEWS*QuizMaster Eric
Nice swan song, eh?

Free T-shirts

Student Life 101

Remember the day when you attended your Student Life 101? Now's your turn to show someone else "the ropes"!

Student Life 101 is just around the corner and we're looking for enthusiastic individuals who would like to be a part of this exciting day.

The event will take place **TOMORROW** on **Saturday, July 26th, 2003**, and we are expecting approximately 10,000 visitors that day. The volunteer day runs from 7:00 a.m. to 5:30 p.m. with a reception to follow. A meeting for all volunteers will be held at 7:00 a.m. so that we can prepare for the 8:00 a.m. arrival of the first-year students. Please note that the greatest numbers of volunteers are needed between 7:30 a.m. and 2:30 p.m. There are many areas where you can contribute your time and effort to the success of this day.

To sign-up as a volunteer for Student Life 101, visit <http://www.adm.uwaterloo.ca/infos101/volunteers/signup.php>. For more information on the event, please visit <http://www.studentlife101.uwaterloo.ca/>. How about inviting your UW friends to join us in the fun as well? Spread the word. All are welcome!

We look forward to working with you. Have a great summer! Please email bhwong@scimail.uwaterloo.ca if you have any questions or difficulties registering on the volunteer website.

Craig D'Amelio, Yolanda Dorrington, Louis Mastorakos
Math Orientation Directors 2003

BBQ 101

Student Life 101

So all the student societies are getting together and having a BBQ for 1,500 of our closest pre frosh friends, and we need some help. We need people to cook, handle money, and generally help out. The BBQ will be happening **TOMORROW**, from around 10:00am to 2:00pm.

Volunteering for this won't stop you from helping out with Student Life 101 at other times. But you need to sign up for both things. Sign up on the door of MathSoc or by emailing amjocconn@student.math.uwaterloo.ca.

Albert O'Connor

CSCF is Colour Blind

Yes, it's colour for those of you who can't spell.

It seems that CSCF is colour blind. Whoever thought that orangy-salmon would be a good colour for an X login screen seems to have less fashion sense than all those bloody pink-tied mathies.

What freaks!

Seeing how this is a colour complaint, who thought that light purple would be a good background colour for the gtk1 xdmcp connection display?

Yup, those disgusting looking neoware clients on the 2nd floor of MC are running some embedded version of GNU/Linux with the ugliest interface they could find, a MS Windows clone.

That Guy

New Fall 2003 Math Programs

The following is a list of the new 2003 Math Programs that will be beginning this coming fall term, for your information.

Math—Accounting/Pure Math/C&O/CS/Applied Math/ActSci/Stat Heptuple Major

This is intended for students who do not like to graduate. Courses are comprehensive. Degree requirements really suck. This program was created as it is the only stable way to ensure co-op opportunities.

Hip Hoptimization

This program is a spin-off of the bad part of C&O. New courses such as "The Bad Boy Family of Convex Functions" and "Eminem Flows" are mandatory for graduation. "Lil' Bow Wow Optimization" can be taken for credit, but students may prefer the advanced "Snoop Dog Optimization" version. This program follows an affirmative action admissions process.

Bell Curve Mania (formerly known as pure math)

Students will be exposed to proofs style questions and an exceedingly insane bell curve that will shock their minds. Class sizes are comfortable enough so that the prof knows you by name. It's not CS, so take it, ok!

Money Money More Money and Mindlessness

[This is the new name for the Math Business Double Degree] No other programs have been added. Tell all your friends to apply.

The Ebony Mathematician

Squiz Exchange

Free Trade for all!

In an effort to create unity between *mathNEWS* and the new *csNEWS* publication, the Math Free Trade Agreement (MFTA) was created after minutes of deliberation last Tuesday night. Developed with the intent to give *csNEWS* and *mathNEWS* equal rights to information, *csNEWS* quickly seized upon a technicality that allowed it to publish this week's *mathNEWS* quiz answers in this issue.

"What kind of fools do they take us for?", says *csNEWS* Editor Louis, "of course we're going to take advantage of it - now everyone will know the answers!"

mathNEWS Editor Krease promptly retaliated by publishing this week's *csNEWS* quiz answers in this week's issue of *mathNEWS*.

mathNEWSquiz Answers

Theorem names: 1. Pierre de Fermat 2. Karl Weierstrass 3. Stefan Banach 4. Sofia Kovalevskaya 5. Joseph-Louis Lagrange
Server names: 1. Pythagoras 2. Pierre Laurent 3. Kurt Goedel 4. Maria Agnesi 5. William Tutte
Mathematical Objects: 1. Evariste Galois 2. Bernhard Riemann 3. Henri Lebesgue 4. Joseph Fourier 5. Richard Hamming
Mathematical Lyrics: 1. *That's Mathematics* by Tom Lehrer 2. *There's a Delta for Every Epsilon* by Tom Lehrer 3. *U + Me = Us (Calculus)* by 2Ge+her

SquizMaster Craig