

Why Antical is Different



results from this survey will be available for and used in promotion consideration. Also by examining the tables, the student can determine which lecturer best suits his/her learning ability.

The new questionnaire consists of 25 questions all of which were suggested for inclusion by students. The questionnaire was not watered down by faculty members sitting on the selection committee, but was strengthened by their input on how to make *Antical* more credible. In hard facts, this means that we win by having no comments. Promotion committees and term hiring committees will use *Antical* as an aid in making decisions. This means that we have a better chance of getting rid of poor lecturers or as an alternative force them to acquire better teaching techniques.

You may have noticed that the *Antical* format is different again this year. This edition contains no comments. Last year, *Math Society* came to an agreement with the faculty on format. The faculty's objections to comments were that they were unsigned and sometimes slanderous. They felt it was an unfair pot-shot at a lecturer, by a perhaps small vocal group, as not all students would comment - usually only those with gripes. This could present a mis-leading situation where three or four students could rate a lecturer badly, mean-while the rest of the class could feel that the lecturer was acceptable but not bothered to comment, leaving the im-

pression that the lecturer was indeed poor.

Another objection was the fact with the comments being available, few students would actually read the tables. This would mean that not the hard statistical facts were being read, but merely statistically unreliable comments.

Because of this, *Antical* was not considered credible and was being ignored by the faculty for promotion purposes (which in fact was one of its original intended purposes).

In a spirit of co-operation, *Math Society* and the faculty this summer agreed upon a new questionnaire that will be administered this fall and winter. The

FRIDAY, SEPTEMBER 24, 1976

ISSUE 12.1

your word to the wit.....

math NEWS

The Illustrious Putnam

Practice Sessions for the Putnam

On Saturday, Dec. 4 of this year, the annual William Lowell Putnam Mathematics Competition will be written. This competition is divided into a morning session and an afternoon session each lasting three hours and each consisting of six challenging problems drawn from all branches of mathematics. It is open to all undergraduate mathematics students in Canada and the U.S. and has been written every year since its instigation in 1938.

Waterloo has done quite well in the past, winning it in 1974 and placing sixth in it last year. However, such achievements require a great deal of effort on the part of the students who write it and the professors who help the students prepare. In the past two years, this preparation has consisted of weekly problem sessions starting in September and continuing right up to the actual competition. This year again there will be weekly practice sessions, held by Prof. Forte (MC 5174) with the assistance of Prof. Ng (MC 5076) and Steve Locke (MC 3044). These practice sessions will be held at 7:00 p.m. every Monday night in MC 3009 and usually consist of working on problems from previous contests.

So if you're interested in working on challenging mathematics problems or just mathematics in general, why not come out and help Waterloo carry on its proud

tradition? We particularly need first- and second-yr students as few showed up for the introductory session on Sept. 20. Don't worry if you don't think you're good enough, it's good practice for later Putnams. And who knows, you might surprise yourself. Two years ago, a first-yr student obtained the 4th highest mark at Waterloo out of the 22 that wrote it! If you want any more information about the contest or would like to write it in December, either see Profs. Forte, Ng or Steve Locke in the rooms given above, or show up at the practice session next Monday (Sept. 27) at 7 in MC 3009.

There will also be a "warm-up" contest prepared by Prof. Forte sometime in October to give students a feeling of what the Putnam will actually be like, and to decide which three students will represent Waterloo (the team score of an institution consists of the sum of the scores of three students designated by the professor in charge prior to the competition). Those students especially who have already written either the Senior Math Contest or the Descartes Competition in high school, should find the Putnam Competition to be a profitable experience, although this is by no means a requirement. All that is required is an interest in solving mathematical problems. I hope to see you at the next session on Sept. 27.

Math Faculty Deadlines

MATHSTART will continue to run for the rest of this week from 8:30 am to 4:30 pm in MC 5158. After that "chops" can be authorized by any of the Faculty Advisors, while course additions/changes must be approved by either of:

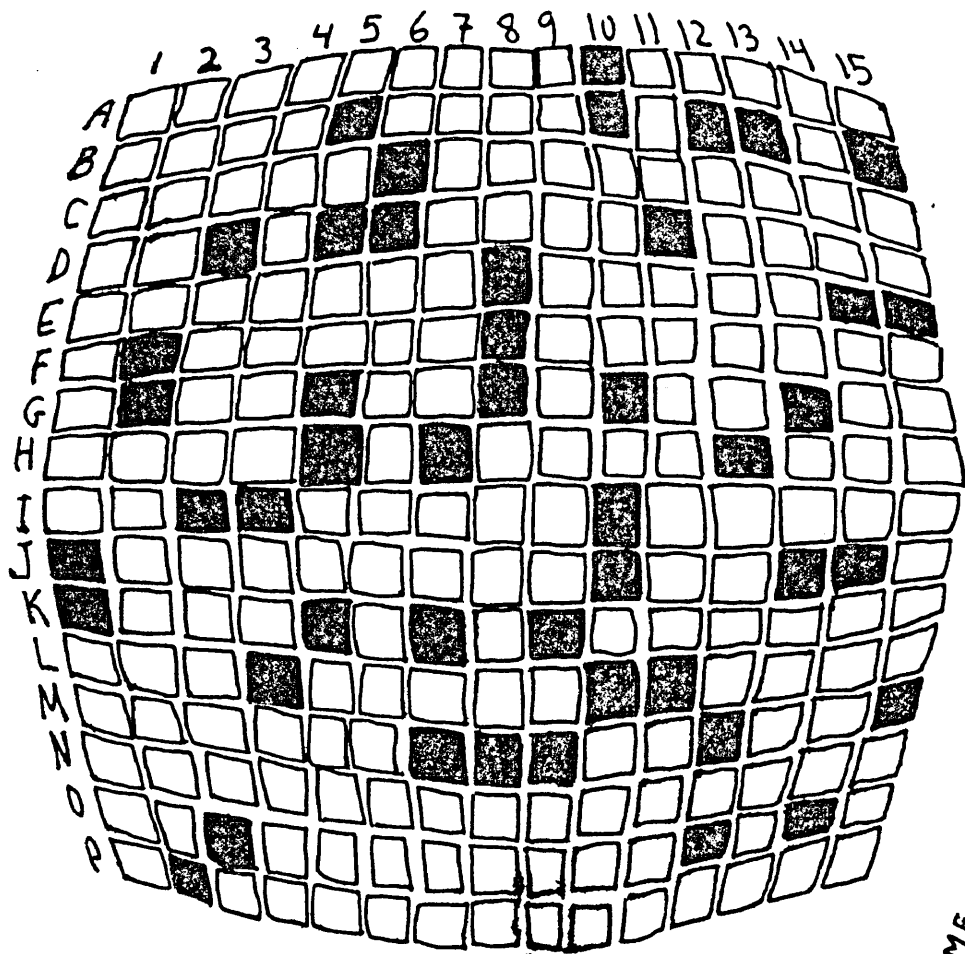
P. Brillinger	MC 5115
K. D. Fryer	MC 5106
P. Ponzio	MC 5108

and then only under special circumstances. Also, after Friday October 22, courses may be dropped only under extenuating circumstances.

This means that all you people who haven't added or changed by Friday September 24 will have to get hustling!



YOUR EDITOR
(crazy piranha)



PHONE

NAME

- 3A. Towed, like a balloon
- E. Small number of Ford's
- JJ. Between rows
- M. Indochinese country
- 5E. Optimum Latitude
- I. Einstein, to a friend?
- L. Table requires intelligence (lat.)
- 6A. Aggregate order
- E. Eccentricities
- 7A. Make happy
- I. Los Angeles
- N. As ritten
- 8A. 4/5 of vowels
- H. Vehicle+function=baggage
- N. Assymetrical Firmament Association
- 9A. African country
- N. Object of the game?
- 10C. Lake (welsh)
- M. Cheese juice
- 11A. Golfer's drink?
- E. Geometrically useful, but not socially useful
- M. Faithfull hound
- 12C. Yell
- I. Killer whale.
- 13C. Common just after Christmas
- H. Commercial
- K. Latin loved
- 14A. Peaceful break
- F. Only fish
- K. Bell sound
- 15E. Ancient form of address
- F. Shadowfax's original owner
- N. Ram's love



- A1. Darwinian islands
- 11. Set for meals
- B1. Good whiskey, in wood
- 6. Margarine
- C1. Burdened
- 7. Blinded archer shoots
- D1. Prefix means away from ...purpose
- 7. ...and hearty
- 8. This muscle lifts arms
- 9. Eliminates odours!
- F3. With a Spanish N
- 9. This inquiry can be deadly
- G3. Data Service?
- 11. That (lat.)
- 14. Exclamation
- H1. Never meets west
- 8. Dear (lat.)
- 13. India Pale
- I1. French article
- 5. The lion with the witch and the wardrobe
- 11. Western circus

- J1. Iron horses corral
- 11. German pronoun
- K1. Clamour
- 10. Successfully flee
- L1. Ethel Was Sick
- 5. "He's dead, Jim!"
- 12. Prayerful conclusion
- M1. Lazy one
- 10. Word Force
- 13. Drunk flak guns?
- N1. Shrilly spotless (4 wds)
- O1. First part of implication
- 4. Became bony
- P3. Patriotic (US) musical question



- 1A. Lady of Lothlorien
- L. Saracen leader
- 2A. Type of Greek love leaves mouth open
- H. Hyena's South African relative





mathLETICS



JJBT Strikes Again!

*The time has come, the walrus said, to talk of many things,
Of tug o' war, JJBT, of cabbages, and kings,
If Laurel Creek is boiling hot, and whether pigs have wings.*

We thought that, since this is this term's first article for us in this mathematical journal, we would start off with a quote from the eminent mathematician, Charles Dodgson. Now, down to business.

JJBT was out in force(?) for the Federation tug o' war. In our first pull, against the Feds, despite the disadvantages of being outweighed by a huge margin and being placed on a downward slope, we lasted for almost ten seconds. At that point, Mike "Nadia" Rose did a beautiful back flip into Laurel Creek, for which he was given a perfect mark by all the judges.

After that, the engineers defeated the Feds, but they refused absolutely to accept our challenge (They knew with whom they were dealing!). Therefore, we went up against the Feds in a rematch.

The rematch was a classic struggle all the way, but, in the end, Owen "Catfish" Leibman led JJBT...into the creek. (After all, a captain should go down with his ship; and, what is a more natural place for a Catfish than in a creek.) The big excitement came, however, when Rob Takimoto, a promising JJBT rookie, did a spectacular forward dive into the creek. For this, he was given a record score of 11 out of 10, depriving Mike of what seemed a certain victory.

The final standings were thus:

1. Rob Takimoto, JJBT
2. Mike Rose, JJBT
3. Shane Roberts, Federation



Mathletics

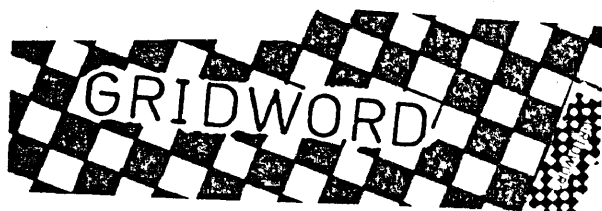
Mathletics got off to a good start this term for guys with flag football, soccer and softball all having good turnouts in the sign-up lists.

However, the girls didn't do so well. In fact as of this writing, not one girl has signed up for a competitive event. Come on girls, let's get with it.

No scores have reached me yet but I've been told by Joe the Drunk that the softball team was 2 and 2 in the St. Jeromes tourney.

All for now.

Thanks to Gerry (Goo) Oue, Doug (Boon) Bond, Peter (Petec) Chynoweth, and Selma Sahin, who competed for us, even if they didn't get wet. No thanks of any kind to Graham (Press) Ashby, who almost got run over by an empty bicycle tire, and left.



GRIDCOMMENT

For the benefit of those frosh who are not familiar with the *Gridword* rules and would like to qualify for a gridword prize, the following is the procedure you should follow.

You must first complete the *Gridword* correctly (incorrect solutions will not be considered and hence, should not be submitted). Submit your (hopefully) correct solution anytime before the start of the mathNEWS production meeting the following Tuesday (meetings usually start at 6:00 p.m. so try to get it in before then). This can be done by dropping it off in the MathSoc office, the mathNEWS mailbox outside the 3rd floor lounge, or by mailing it to

mathNEWS
c/o MathSoc, MC 3038.
University of Waterloo

JJLong Fed Reports

At the last Students' Council meeting Shane Roberts proposed the setting up of four council standing committees. I can endorse the idea in principle as I have proposed the institution of standing committees myself six months ago. However, I feel that his proposal was ill-prepared for the council meeting. He proposed four

committees: Financial & Treasury, Bylaws & Policies, Social & Living Needs, and Educational Opportunities. The last two committees are related, but it seems that Social & Living Needs could have been divided into separate committees, as I feel they are not as related as Roberts feels.

From the correct submissions, a winner is selected at random at the production meeting whose name will be published in that issue. Once you learn that you have won the *Gridword*, you can go to the MathSoc office to receive your prize, a free math T-shirt.

T-shirts are also awarded to anyone who creates a *Gridword* which is published by mathNEWS. To qualify as an official mathNEWS *Gridword*, it should be at least 15 squares on each side with no more than 20% of the squares blank. Clues should also be (moderately) reasonable although this is not an absolute requirement. However, there is no need that the *Gridword* be rectangular planar. In the past, we have had cylindrical, toroidal and even spiral toroidal *Gridwords* although we have yet to receive a polar *Gridword*. If you can think up some new geometry for a *Gridword*, try it out on us. We're open to suggestions.

I shall propose amendments to the committee structure but if these amendments don't pass I'll vote for the Roberts proposal. However, I feel that in the long run no less than a complete overhaul of Federation bylaws and policies are needed.

While I have disagreed with President Roberts a number of times, I feel that he is essentially a good person. He works long late hours at his job. He will talk to the ordinary student and treats people fairly. He may tend to be too bureaucratic and consumed with details at times, but is at least preferable to the president of a year ago.

Now I have a few words about Anti-Cal. I don't like to see a professor unfairly treated, but I believe elimination of comments is not a solution. I am sorry if I insulted any of the people who worked on Anti-Cal, but I personally feel that this year's edition was not up to par. It was

M A T H E M A T I C S
C A R E E R T A L K S G R I D

(September 27, 1976)

<u>Time</u>	<p>10:30</p> <p>Computer Science B. Burgetz Gillman, Hayward & Partners</p> <p>Teaching (High School) P. Atkinson</p> <p>Provincial Government J. Hoicka Ministry of Treasury, Economics & Intergovern- mental Affairs</p> <p>Marketing R. Sadler IBM Canada Ltd.</p>
<p>11:30</p> <p>Statistics P. Morse Statistical Research Services</p> <p>Accounting (CA) R. Evans The H. Krug Furniture Co. T. Reidel Clarkson Gordon & Co.</p> <p>Teaching (University) B. Forbes University of Waterloo</p> <p>Banking D. Anderson Toronto-Dominion Bank</p>	
<p>Lunch</p> <p>1:30</p> <p>Insurance D. Horman Dominion Life Assurance Co.</p> <p>Accounting (RIA) G. Northcott Steel Company of Canada Rob Mattiva Society of Industrial Accountants of Ontario</p> <p>Applied Mathematics A. Beaumont University of Waterloo</p> <p>Computer Science B. Burgetz Gillman, Hayward & Partners</p>	
<p>2:30</p> <p>Federal Government M. Armstrong Public Service Commission</p> <p>Optimization M. Best University of Waterloo</p> <p>Finance R. Priddle Grand & Toy Ltd.</p>	

very hard for me to follow as there was little explanation or indexing and I found the printing unclear and the layout confusing. This is only my personal opinion, but I do know other students and profs were not very impressed as well. The Anti-Cal must be reformed or else we must consider doing away with the exercise altogether.

This is a New Column

For my first column, I should probably fill you in on who/what writes this column, what he/she has done previously, and what the column will be about. I say probably because I am not at all sure whether you, the unenlightened readers of **mathNEWS**, should know who or what it is that tries (largely unsuccessfully) to enlighten you.

To begin, I have a strong dislike for referring to myself as I so we will call ourselves we from now on. The reason for this is our experience in the field of underground high school newspapers. We were not immensely popular with the administration, and we found ourselves forced to feign Schizophrenia in order to avert suspicion. In any case, we were discovered all too soon, and we were forced to go much deeper underground (at least 20,000 leagues). So there we sat with Jules Verne, desperately trying to be both prolific and provocative. Both attempts were largely successful, as the papers we wrote were usually finished and released by 8:30A.M., and confiscated by 11:30. (We use the word **confiscated** in bold face because the paper was usually removed by the offended party, not by anyone in an official capacity.) (Generally the official capacities couldn't understand the insults that pertained to them.)

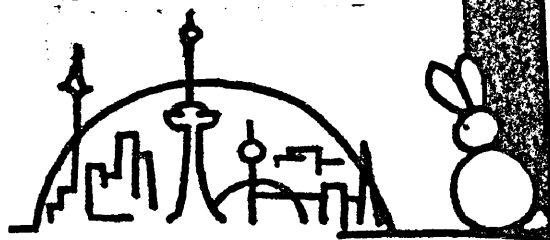
Having established that we are of the Schizoid nature, we would like to describe the events and items about which we will be writing. One rule of thumb is this;

If you do anything stupid, expect to see your name and a full description of your lack of mental ability in print.

In the event that all 14,000 of you behave in a reasonably intelligent fashion for a full week or more, this column will contain appropriate comments on wine, women, song (not necessarily in that order) as well as sports, politics, communicable disease, and other enjoyable topics. (If you find none of the above enjoyable, please consult your psychiatrist. They have places for people like you.)

In some cases, the column will start out rather slowly and pick up near the end. Most times, however, it will start out real slow and fizzle out altogether (apologies to Neil Young) and we, the writer, will fill the left-over space with blanks, or pictures of the Prime Minister. Whatever it contains, however, it will always be suitable for dart-board applications.

Science Fiction



On Thursday Sept. 16 the WATSFICers, otherwise known as Uniwat's science-fiction freaks, had their first meeting of the term.

Much was accomplished, including hooking a new executive. (That is fishing them in) The new and illustrious leaders are headed by two members of stronger sex, TIC (Prez) and Razamatazz (Treas). Our secretary, Danny ????? faded into the background before a last name could be determined.

Also discussed was the upcoming OKTOBERKON, K-W's first science-fiction convention, which is being presented courtesy of WATSFIC. It takes place at Forest Heights Collegiate, Fischer Rd on Saturday, Oct. 9, commencing at 9:30 a.m. We will be showing *good* sci-fi movies all day, including 2001,

Short flashes on events from the already-famous Summer of '76: Schmidt's of Philadelphia has come out with a four-part series of Bicentennial Beer Cans, and I'm sure you'll all be interested in collecting all of them. Of course, the cans are filled with the most hideous yellow foaming liquid known to man.

The summer was especially poor for new music. AM and FM both participated in the Paul M^cCartney, Elton John, and Peter Frampton Overkill and most bands either did nothing or contributed little in the way of interesting material. However, two excellent albums surfaced through the wreckage. One is by Jeff Beck and is called *Wired*. You will really enjoy it if you are, because he was when it was recorded. The other is a supreme solo effort by Jon Anderson of Yes, which is called *Olias of Sunhillow* and features some of the best vocal work on disk. (Note to CSC: Not that kind of disk!)

Two other items of note: We all know what dinks are, and why we try to avoid them. But the dictionary definition of *dink* is odd: *dressed in one's newest or finest clothes*.

Dink can be the first Word-Of-The-Week. Secondly, this week's *Most-Beautiful-Girl-On-Campus Award* goes to the blonde in Village I who wears wire-rimmed glasses who wears beautiful sweaters, beautifully, and who walks with a distinct shake. Keep up the good work! We're watching.

We, the writer, wish to thank you for reading our column; we hope you enjoyed it, and we'll be hearing from you (or you from us) next week. (It all depends on who Mad Dog is by then.)

Forbidden Planet, Soylent Green and more. There will also be an Art Show and panels on various subjects. Included in the guest list are several famous names in the sci-fi field. More information and maps may be obtained from MC 3038. (All this for \$2.00?)

Copies of our fanzine 'Starsongs' may be obtained from the Mathsoc office or at our next meeting, which is Tues. Sept. 28 time and place to be announced. Contributions (Art, money, convention reports, money, articles, more money....) to the upcoming issue will also be gratefully accepted.

It is rumoured that we worship a life-size statue of William Shatner NOT TRUE!!!!!! Trekkies (Star Trek freaks to you illiterates) are a minority, so far, in our midst. Most of us are normal, sane, and intelligent human (?) beings.

Any new members, ideas etc. are welcome. Viddy you next Tues.

What Happened Last Week

You may have noticed something strange about last week's issue (or as I heard one fellow remark, from the other end of the hall: **THIS ISN'T mathNEWS!**). In fact, that "issue" was the smallest (ie. 4 pages) that it has EVER been. It is also the first time (since our 3rd issue) that we have had (most of) the issue neither photoreduced nor phototypeset. How could we do it, you ask? Well, actually, it was easy... First off, *hugh* decided to go to T.O. for 4 months instead of being **mathNEWS** editor, then too, you might take into account the fact that we didn't have any news (that we knew of at the time, at least), nor did anyone know how to work the phototypesetter software. So that about covers it (except for the usual lack of people of course...). As (I hope) you can see, we're definitely getting back on the track now (and will continue on... with your support... help... etc...).

However, despite the lousy quality of that issue (some would say because of it, but really...) the Chevron saw fit to reprint our third page cartoon. And those of you who noticed the altered credits will be relieved to know that our fair lady cartoonist, Ann Onymous is indeed in reality lovely Manny Bryckman, part-time Fed treasurer and full-time half-jineer, who tagged along to the first **mathNEWS** meeting with MathSoc's lead Reindeer (and #2 elf). It might be noted that this practice is *not* original with the Chevy, but was in fact started a year ago by N-jinews... Perhaps this is destined to become a yearly event...

And speaking of anniversaries and such: don't miss our next issue! it will be our gala centennar-issue. Yes disregarding an Antical and a T-shirt this next one will be our 100th issue, so come out and see the "joyous celebrations" and, incidentally, maybe help us keep going for another 100 issues... see you **THERE!**

