

math NEWS

HAPPY YOO NEAR!
We're still drunk...
WHIPPEEEEEEEEEEEEE

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A Serious Problem

It has recently reached my ears that there were a number of suicides on campus last year. This number is reputed to be in the range of 2 to 146, though its exact value is largely a matter of personal opinion. Actually, I believe that the confusion is due to some of my sources not differentiating between actual suicides and suicide attempts. Be that as it may, the number of 146 (obtained through extrapolation), whether pertaining to suicides or just suicide attempts, is rather frightening. (It is my belief (and hope) that the true number of suicides on campus last year was 2.)

This naturally brings us to the question of why anyone in the prime of life, with seemingly everything to live for would want to take his own life. Finding myself totally lacking in this sort of expertise, I consulted those about me most likely to know more about the subject.

Dean of Math W.F. Forbes joins the Chaplain's Office at St. Jerome's College in the belief that most student suicides are due to academic pressures and the imminence of failure. A representative of that same St. Jerome's Chaplain's Office adds that a student who fails a course can see that failure as a commentary on his entire life. Carol Cameron, counsellor for the York County Board of Education, believes that the feelings of disorientation and loneliness experienced by many students who are living away from home for the first time are the primary cause of student suicides.

These opinions were corroborated in my discussions with Jack Williams, head of UW Counselling Services and representatives of the Clarke Institute in Toronto. However, whatever the reasons for the increase in student suicides, it behooves us to learn how to recognize and deal with people having suicidal tendencies, in order that we may reduce the number of on-campus suicides.

By again consulting my staff of experts, I have determined the major symptom portrayed by the 'average' suicidal. Be on the lookout for people who seem to be withdrawing from society and crawling into their shells, as this is the most prominent trait of someone contemplating suicide. If you are concerned about somebody that you know, try to draw him out of his shell by showing him that you care, and by all means urge him to contact Al Evans, UW's resident suicidologist at 885-1460 (St. Paul's College) or 885-1211 Ext. 2655 (UW Counselling Services).

I must impress upon you that it seems that it is up to us, the students, to solve this problem since the administration doesn't seem to care. The administration has been dehumanizing the campus by axing the budgets of the Campus Centre and Counselling Services, and trying to steal lounge space from the students. By carrying out these policies, Burt and his boys are making it even harder for introverted, suicidal students to seek the help that they need so badly. Granted that budget cutbacks necessitate reduced expenditures, but killing off the student body, while it may work for a time, is not the way.

Greg Bezoff

Well, we're off to get another great season of sports at mathsoc's athletics department. Even though this is a winter term, we have a good choice of both competitive and co-recreational sports offered by Intramural Department. Many of the students have already taken the opportunity and have signed up for these activities. For the information of those who have I'd like to say that all the game times as well as complete schedules for most of the disciplines may be found either on the Math lounge windows or on the Athletics board on the third floor of the M&C building. If you have any questions about game time, place, or anything else, come and see me - your athletics director - or your team captain.

Now, as some of you may have already found, all the sign-up sheets are gone from the windows of the math lounge. This might suggest that you can't join the math teams. That's not true, if you are still interested in taking part in intramurals (as I am sure many of you are), come and see me and I'll do my best to place you on a team.

There are many exciting teams that you can join; both competitive and co-rec. For you hockey fiends, there's ball hockey, ice hockey, floor hockey and broomball. As well, there's basketball (hopefully), which is competitive. For co-rec, there's always inner-tube water polo, volleyball, and indoor soccer.

So, just drop in to MC3038, and if I'm not there leave a message and I'll try to get in touch with you. And for you armchair athletes, you can always come out and cheer your mathletes on to victory and glory. Also, there are still positions open for timekeepers in both hockey and floor hockey.

As an ending note, I'd like to wish all the teams the best of luck in the upcoming games and I hope that this season will be as good if not better, than the previous ones.

Your Athletics Director

Stan Mikoluk

Math Grad Ball

Preparations are well under way for the Second Annual Math Grad Ball, to be held on Saturday, March 22, 1980 at the Transylvania Club. Last year's event was so successful that another formal evening of dining and dancing is being planned for this year's graduating students.

Tickets will be going on sale at 12:00 noon Monday, January 21, outside the third floor math lounge, and from 9:30 am to 2:30 pm daily after that time. Tickets are \$35.00 per couple. This price includes a full-course sit-down dinner with wine, champagne at midnight, and a discount price of \$27.50 on tuxedos. The dance band will be Brassline, who will supply a three-piece dinner band.

To ensure that as many graduating students as possible may attend the Ball, ticket sales will be restricted to fourth year students for the first week of sales. Starting on January 28, ticket sales will be open to all Math Students.

All people interested in helping out (including first, second, and third year students who would like to help organize similar events in future years) are invited to contact Lisa Seiler at 885-1813 or John van der Zalm at 886-6168.

Math Grad Photos

All 4th year grads interested in Grad Photos, please sign the appropriate list in the Mathsoc office (MC 3038) for the group picture with which you wish to appear. If a different group picture is desired, please submit a list of those to be in the group.

CSC Flash

There will be a CSC meeting, including executive elections (...yes, real elections!), tea and doughnaughts, on Tuesday, January 22nd at 8:00 pm, in MC 5158. If we are lucky, we may even get a speaker for the meeting, but so far, we have no takers. There will be posters up soon concerning the presence and identity of the speaker, so watch for them.

kpmartin

CLASSIFIED

The Math Grad Ball Record Raffle for 50 LP's of your choice, held on November 30, 1979, was won by Greg James -- a fourth year C.S. student.

Anyody interested in using computer methods for predicting the outcome of horse races please contact: Fraser Ferguson 884-7527 V1 E4 201

ASCII keyboard for sale. Full 128 character set, with touch activated closures. Requires +12-18v @ 25 ma. \$50. Mail to taduxbury or call Tom at 886-4622.

ADDS

JOBS AVAILABLE:

Several programmer/analysts are wanted for full-time employment by a fast growing computer company.

Candidates should have some work experience and have a working knowledge of COBOL or BASIC or RPG (or any combination thereof).

If you are interested send a detailed resume, with references and desired salary to:

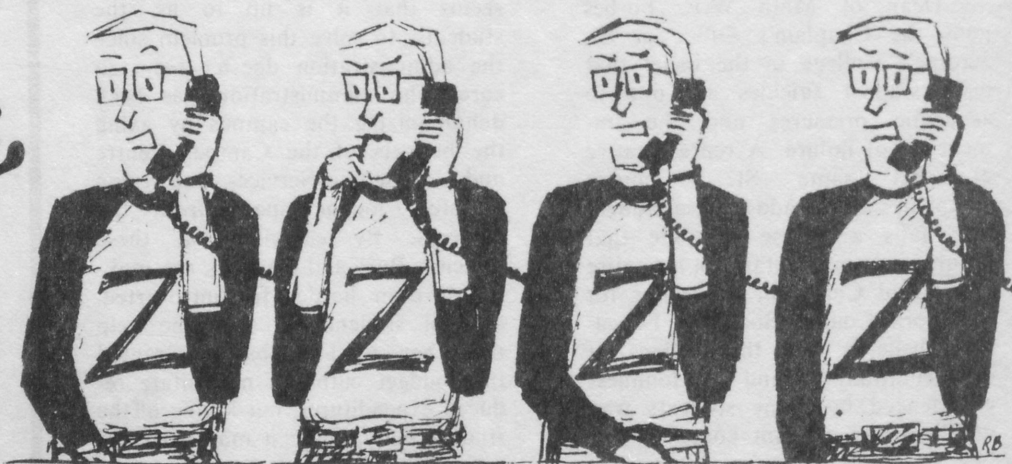
A.B. Computer
824 Victoria Street North,
Kitchener, Ontario

MATT THE MATHIE

SO THE DERIVATIVE
OF $\sin \ln \sqrt{x}$ IS...
 πr^2 , EH? OK, THANKS...

STAN, THAT DOESN'T
LOOK RIGHT... WHO
TOLD YOU THAT?...
THE PROF? OH...

I SEE.
HOW ABOUT $4(c)$?...



X-rated captions →

...YEAH CINDY, IT WAS
GREAT... OUR FIRST TIME!

FRED?... FRED WHO?

WELL, IT WAS MY
FIRST TIME, ANYWAY!

Prezz Sezz

Well, here we are just nicely into the bright, new term and everything is already well screwed up. To put it succinctly, we (Mathsoc) are devoid of money, manpower, and ideas. Anyone having a surplus of any of the above commodities is urged to drop them off at Mathsoc (MC 3038) any time of the day or night. Someone might even be there to take them off of your hands. If we **don't** get any input from you, then we'll just have to assume that you don't care, and we'll spend your money as best benefits **us**.

Moving right along, I see that there will be the usual n or so council seats open this term and my own job will be up for grabs sometime next month. Somebody please grab it, 'cause I don't want it no more. I would imagine that there will be an announcement regarding the upcoming 'elections' in next week's mathNEWS.

There will be a couple of blood donor clinics this term, one on Feb. 14, and one on Mar. 15. Let's all get out there and bleed.

Once more, the beautiful young ladies up in the Math Undergrad Office patiently helped a lot of us poor bewildered students through the hectic beginning-of-term timetabling crisis. We tip our hats (I think I'm the only one that owns one) to Veronika, Vera, and Verna. (And I'm sorry if I spelled any names wrong.)

I guess that's enough to keep Collins off of my back for another week. So 'til then, "Who's got the brain?"

Greg Bezoff

EDITORIAL

First of all I would like to welcome you all to the first mathNEWS of the term. Hopefully mathNEWS can return to its old format. After one term of ECLECTIA and a following term of mathNEWS at a new low, we're going to try to return to a pleasant and informative paper to read on a Friday afternoon. We will continue the personal columns but we won't fill the paper with them as has been done in the past.

As usual we need people. If half the people in this faculty gave one hour a term, we could put out a 20 page issue with little filler every week. As it stands now, we will attempt to put out a paper every week but only if it can be done without resorting to stealing articles from Scientific American and the like.

I appreciate criticism. There is no way we can do our job without it. But, if you do not have the guts to sign your criticisms (note: anonymous submissions are different), then don't bother sending them. If you don't want it printed, we won't print it, but sign it! I will also give you the standard excuse/reply now. We are but a few attempting to perform a job for many. Most, if not all of us, have at least one other duty serving the students as well. We get no pay and precious little thanks and still have to find time to pass courses. So, if you don't like it, get off your butt, get out here and do something about it.

INTERACTION

This column is dedicated to the OFS referendum. On January 30th, a second ballot will be held during the presidential election. This ballot will ask you whether you approve of the doubling of the OFS fee (which is included as part of the Federation fee) from \$0.75 to \$1.50 a term. If such an increase is approved by at least two-thirds of the students in Ontario voting on this question, the fee will be increased effective September 1980. If this increase doesn't pass the present fee will stay in effect until a referendum on a more moderate increase is passed. If Ontario votes for a fee increase and Waterloo votes No, Waterloo will cease to be a member of OFS, though in all likelihood a second-chance referendum would be held here before that became official. However in the current referendum, the direct question of OFS membership for Waterloo, "Yes or No", won't be asked. While OFS has not been as effective as it should have been, I do feel that it should exist. I even agree, that in light of the inflation that has occurred since their last fee increase that they do indeed require an increase in fees. However I have much difficulty swallowing the idea of a 100% fee increase. I find it strange that the organization that wants the government to show restraint in the raising of tuition fees, wants to raise its own fee by 100%. It also disturbs me that the increase beyond the amount required by inflation is apparently to be channeled into extra salaries. So you can see that it is a difficult decision.

jjlong

Out To Lunch

Out To Lunch will be a weekly column discussing some of the places to eat off-campus from a student's point of view. The rating system is as follows:

excellent - a must
pretty good, definitely worth investigating

reasonable but nothing to write home about
difficult to determine
don't consider it
definitely should be shut down
approximately equal to Village

HEIDELBERG HOUSE

Not a unanimous rating but close. The major drawback is that you must have a car to get there. Take Weber north until it ends. Turn left and then left again at the

first street. This road takes you straight to Heidelberg. It is your basic small town inn. You eat at the tables in the bar. It is no place to go if you're in a hurry. The service is as relaxed as the atmosphere. Order a jug and wait; it's worth it. The prices are good for both food and drink. The ribs and wiener-schnitzel are highly recommended. The desserts are basically dull. Not to be missed in your stay here.

More to come in future issues.
Bon Appetit!



PLATTER SPATTER



"New Wave/Punk"

"Canajien Content"

"The A's"

"Garfield: Reason to Be"

It has been two years since Garfield put out an album and in that time many changes have become apparent. The first change you will notice is that the distinctive Garfield logo does not appear on the album cover. This change is minor compared to the major overhaul that the band has undergone.

The group, who are missing flautist Chip Yarwood, have changed from a heavy rock oriented folk group to a typically Canadian sounding folk group. They seem to have picked up on the type of music that has made stars out of Neil Young, Gordon Lightfoot and Dan Hill.

The album was produced well and it still has some good songs on it. My favorites are, by far, *Johnathan's Rainbow* and *Win Some Lose Some*. A word of warning to all Garfield fans: Pick this album up, you will probably find yourself liking this album better than *Out There Tonight*.

Rating: ***½

"The Wives: Cigarettes"

This is the very same group that was the center of a big controversy last term when a member of the Board of Entertainment refused to call the group by its old name: The Battered Wives. Last year this group was banned in Kingston (the only city in Canada that banned them) when they toured with Elvis Costello (they have since played there twice). All in all this added publicity has helped to promote the group to the point where very few Canadians haven't heard of them yet.

This, their second album, seems to be riddled with the same inherent problems that have plagued such groups as Boston and Joe Jackson. How can their second album live up to the reputation created by their first????

After listening to this album four times I have finally come to the point that I like the music. Overall it is a good album, but it still is a let down after their first album.

Rating: ***

Every review of this I have read has come to the same conclusion; this is definitely the best band to have come from Philadelphia, in fact they say they are of the best new bands to have come from the States. The critics are raving about the A's great new music.

Unfortunately, I cannot get that excited over the "new" music that the A's play because they sound like the runners-up in a "Tubes" sound-alike contest. In fact if the A's could hire a great keyboard player like Fee Waybil, they would be dead-ringers for the "Tubes".

Musically, the album has the thin instrumentation reminiscent of early 1960's. The album lacks the full-sound that has been developed through the seventies. The album is produced well and if the group can make their second album better than this one, they will be one of the big groups of the 80's.

Rating: ***

"The B-52's"

I took the advice of some of my friends and bought this album without hearing it first and all I can say is that I will /3NEVER/1 buy another album without hearing it first.

This is the worst album I have heard in such a long time that I am astounded that it is in the top ten albums in sales in Canada. Either I got the wrong record in the sleeve or my beliefs in people's taste in music have deceived me.

I would talk about the "great" lyrics of the songs, but the lead singer (??) likes to scream the lyrics out instead of singing them. The guitar work reminds me of a group of ten-year olds that I once had the displeasure of hearing and the production of the album was poor by any standards.

Rating: ½ (only because of their gall to record such trash)

continued on page 8

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 γ ΞΕΥ—○ ΠΦΣ ΕΩ—θ ΞΕΘ
 ~Ωφ○∅ΛΦΣ— ΞΦ ΩΨΨΛθφΥ≈
 ΩΞΘ ΞΕΘ ςφφφΔΥ—∅ ΨΛΘΘ'≈
 ~εθ]

LOVE THAT PHOTON!

¿Qué pasa?



Borf!



εθωλημγδ κ ιγδνγφεςξ γσκληφU ηλθεδδ≈
 ιηφU πθ,θογωγθξλU ηωλξσκεγμU ωθω≈
 φθωμξφρηωU γχκφξκεγμ λιπγδγ θν
 ~ωγοςηηψςγ φδθλλ≈λγφρηθωκς κδγκU
 μηγςγφεδηφ φθωλεκωε θν θωγU ιγδ,ηεηηη≈
 εξ θν τγδθU ωθω≈δθεκεηω βηηπ τγδθ
 χγςθφηξ κωμ τγδθ φπκδογU σθφκεγμ κε
 επγ θδησηω θν φθ≈θδημηωκεγλ θν κω
 ηωξωηεγ≈μη,γωληθωκς λικφγU ηω κω
 ηωγδεηκς δγνγδγωφγ υδκ,γ λγικδκεγμ ψξ
 κω ηωξωηεγ μηλεκωφγ υδθ, κss θεπγδ
 θψργφελU κε γαξηηηψδηξ, ηω κ φθωλεκωε
 φθωλγδχκεηηγ ξγςμU κε επγ κψλθςεγγ
 τγδθ θν εγ,ιγδκεξδ. C

We aren't sure just what it was smoking this week, but it appears to have invented a new language. If you can read it, your eyes are OK. If you can pronounce it, you're Polish. Like Stan



(and now the continuing story of a boy and his pet PET. when we last saw dean, he had just met Fred the micro....)

*Now where was I?? Oh yes, the recap...

*When last we left our hero, he had finally received his long-awaited computer and was preparing for the joys of something akin to sex when, suddenly, he was attacked by great bouts of inadequate and childish documentation.

After beating off a near attack of premature senility he found himself once again face to face with the blue-glowing creation of his desires, except that now there was a cold spot of fear deep within his heart...

*I must admit that, though I still didn't wholly trust him, Fred had, after a few days, begun to earn my growing admiration. He still had an evil tendency to send the occasional tape-recorded file off into magnetic non-parity limbo but I'd learned to cope with this by having plenty of backups available. And he was a hard worker!

A few functions, a couple of constants and lots of loops and Fred would began merrily grinding away, spewing out numbers and characters, occasionally at random but usually in a format similar to that which I'd hoped for.

Myself, being rather unimaginative, fell upon heavy coding in the way of games. Of the thirty or so games to spawn in my febrile mind, only a handful would see the light of the video screen, the others being either beneath my talents or beyond them (usually the latter).

By this time of course I'd met Carl, actually it was Carl who sold me on the PET in the first place. Carl was one of these people who new little about microcomputers when he started but, by the time he was finished, had gathered enough knowledge for a string of masters' theses. This quite naturally led to



two phenomena which I have since them come to recognize as common in the hobby: 1) overload, 2) data rejection.

Overload occurs when a someone new to the hobby, or even to a particular machine, meets someone who had been at it for some time and has acquired a plethora of vastly useful information. When such a person, in a burst of genuine, genial, generosity, passes all of this knowledge to you in a lump you suffer overload. Data rejection is a natural result of overload.

Data rejection is characterized by a numbness in the brain, slack-fingered keystrokes, and insipid little four line programs. Also, the stack of data which caused the overload, priceless as it is, remains untouched. I've had these phenomena occur to myself and have seen me cause it in others. The only cure for overload and data rejection is time.

After a time you begin to grow bored with your little 4 line frenzies, bored with the limitations of the machine's resident language, usually Basic. And after a time you begin leafing through that dusty pile of information.

Now as I have said, Fred and I got along well after the first few skirmishes and, looking back, I see now that it was because he thought that he had induced my withdrawal from virtuality. He thought that he had won, that I was his slave!

Needless to say I soon corrected his oversight.

Armed with a stack of memory address locations and documentation on Fred's jealously guarded PEEK and POKE commands I began writing short routines to fiddle with Fred's dedicated memory locations. He immediately of course detected my fumblings and, not wanting me in his mind, yet equally not willing to disturb his supposed control over me, he merely tried to ignore me, put me off by resetting any memory locations which I, in my infinite gall, might try to change. This however did not seem to be stopping me and no doubt images of electronic lobotomization began to flare up in his RAM, so he tried a different tactic.

His next move involved sheer lack of cooperation. Perhaps, he thought, if he frustrated my every move, I might drop back into my earlier complacency. I was not so easily put off though.

I continued to hack and slash at the edges of his forebrain, a virtual guerrilla war against an electronic landscape. I continued to PEEK at his plans and POKE at his mind, trying to regain control of this oversized TI-59 gone mad.

Finally in a fit of complete hysteria Fred declared all out war and began shutting down all his externals faster than I could restore them. The video screen went white then blanked, the cassette recorder's insipid whine ground to a halt, and the keyboard was cut off from all input.

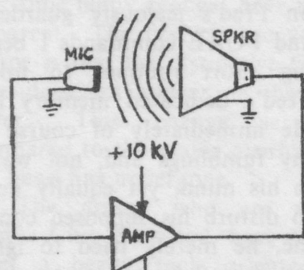
I sat in silence before the lifeless machine as the realization dawned upon me that the war, far from being over, had just begun.

Fred had crashed.

-dthedmonds

Pinball Lizards:

I would like to ask all those people who like to play pinball that if they see a machine with an out of order sign on it, to leave the sign there. The math society refuses to give out any refunds to people who try to use the machine when it is broken. Just assume when you see a sign on a machine that the people who put it there know what is going on and if you have any questions about what is wrong with the machine, mathsoc will gladly tell you if you inquire of them.



feed back

4 idallen Tue Jan 15 1980 15:20
I THINK YOU HAVE THE
BACKGROUND TO APPRECI-
ATE THE FOLLOWING PREAM-
BLE:

Consider a perfectly elastic, isotropic, homogeneous, insulated, non-conducting, evacuated sphere of negligible cross-sectional area, dielectric constant of one, permittivity of zero, non-rotating with zero velocity and zero charge, located at the origin of co-ordinates of an infinite-dimensional space, in an inertial reference frame separated by an infinite distance from all other objects, at equilibrium in a constant conservative field, at the absolute zero of temperature.

To whomever gets around to opening this box:

What do you think you're doing? Depriving us of our porr sweet mathNEWS for over one month can lead to heart failure. This same lack is carcinogenic.

my friends and i

Young Frank Einstein

I don't profess to know a lot of these little guys, but I thought I'd share a couple with you, seeing as you *are* mathies, and therefore possessed of a consumptive, compulsive itch to explore all frontiers, visible and concealed, of our chosen profession...

I'm talking about little mathematical processes that compute cute results, the sort of things that PMath professors like to enclose in little square boxes on blackboards, without much explanation, and which invariably spew out the correct answer, and then sit there sniggering as you try to figure out what happened.

As an introduction to these things, I have an example which really isn't quite that conceited; it can be worked out fairly easily using congruences and suchlike. It computes the day of the week on which any date falls. You might have seen this one before in a book, but it seemed like a good one to start with. You take the last two digits of the year, and add $\frac{1}{4}$ of itself, dropping any fractions; add numbers a and b , given in these tables, and divide the whole thing by 7. The remainder gives the day of the week: 0 means Saturday, 1 means Sunday, and so on up to 6 (Friday).

a		b			
Month	Value	Month	Value	Century	Value
January	1	June	5	2000-2099	5
January*	0	July	0	1900-1999	0
February	4	August	3	1800-1899	2
February*	3	September	6	1752-1799	4
March	4	October	1	1700-1752	1
April	0	November	4	1600-1699	2
May	2	December	6	1500-1599	3

* denotes Leap Year values

Well, that one's actually sort of useful, which is unusual among the members of our little family. This next one works out the day of the year on which Easter will fall in any given year; this of course has to be a Sunday. It's conventionally determined using a table listing the dates of the Paschal moons, a process which could only capture the imagination of a Phyzzie. This, then, is the neat mathematical way of doing it! For convenience, call the year y . Let a , b and c be the remainders when y is divided by 19, 4 and 7 respectively. Let d be the remainder when $19a+24$ is divided by 30. Finally, let e be the remainder when $2b+4c+6d+5$ is divided by 7. The number $22+d+e$ then gives the date; if it is greater than 31, subtract 31, and you get the date in April; otherwise you have the date in March. A little figuring will show you that the earliest and latest possible dates are March 22 and April 26.

Why this one works I haven't a clue; my father brought it home for me to look at one day when I was a tad.

And so, as usual, Young Frank Einstein personally invites *you* to participate. If any of you know any cute but ostensibly insignificant algorithms like these that you think others might like to see, please pass them along to me, care of Mathsoc, or contact userid mathnews on the 'bun.

For those of you who might be interested, the fog index of this article was 13. More info next issue!

Young Frank Einstein

NOTE: DO NOT FILL THIS SPACE, KITCHENER BY-LAW # 83-77145996
punishable by 2 - 5 years in mathNEWS

ISSN 0705-0410 - A weekly publication (sometimes biweekly) of the University of Waterloo Mathematics Society.

FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
18 ICE HOCKEY 4:10 P.M. MATH B INDOOR SOCCER 8:45 P.M. MATH A	19 STICKETTE ENTRY DATE 4:30 P.M. 2050 PAC	20	21 TENNIS DOUBLES ENTRY DATE 4:30 P.M. 1083 PAC STICKETTE DEG. MEETING 7:30 P.M. 1083 PAC	22 "WANT ADS" COME OUT 10 AM NEEDLES HALL	23 BROOMBALL MCCORMICK ARENA 11:10 P.M. TENNIS DOUBLES DEG. MEET 1083 PAC 4:30 P.M.	24 VOLLEYBALL 4:45 P.M. COURT 6 CO-OP JOB SELECTIONS MUST BE IN 9:00 AM
25 SOCCER 7:45 P.M. MATH A BADMINTON ENTRY DATE 2040 PAC 4:30 P.M.	26	27	28 BADMINTON DOUBLES DEG. MEET 1083 PAC 7:00 P.M.	29 INDOOR SOCCER 5:45 P.M. MATH B	30 BROOMBALL 12:00 PM MCCORMICK ARENA	32 VOLLEYBALL 4:45 P.M. COURT 6
1	2	3 <small>ASHOK'S BIRTHDAY.</small>	4 SQUASH DOUBLES ENTRY DATE 1083 PAC 4:30 P.M.	5 INDOOR SOCCER 4:45 P.M. MATH B	6 FASS STARTS TODAY	7 VOLLEYBALL 8:45 P.M. COURT 6 SQUASH DEG. MEETING 1083 PAC 4:30 P.M.
8 INDOOR SOCCER 7:45 P.M. MATH A	9 FASS ENDS TODAY <small>*NEWS*</small>	10	11	12 SOCCER 4:45 P.M. MATH B LAST DAY FOR DEPARTING COURSES	13 BROOMBALL 12:10 MCCORMICK ARENA	14 BLOOD DONOR CLINK VOLLEYBALL 7:45 COURT 6

the responsibility of staff and editors. Editorial content is the only weekly newspaper on campus with an all-volunteer staff, and is funded by, but independent of, Waterloo Mathematics Society.

continued from page 4

"Popular Music"

"Little River Band: First Under the Wire"

The Little River Band has been known as the other group from Australia ever since their music has hit the charts in Canada. They have won the hearts of many Canadians by recording AM hit music and their latest album is no different. It is a really nice album to play while you are working. It's really great background music with the exception of their hit, Lonesome Loser (a personal favorite).

The music is consistent throughout and the production of the album is quite good.

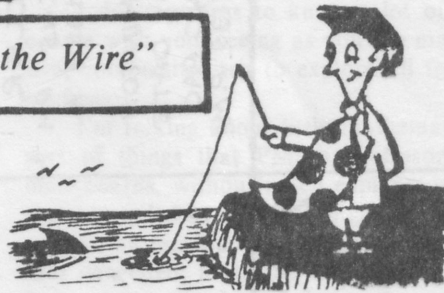
Rating: ****

02:10 a.m. the first masthead of the term. sain people left in the room...none, but hains and i are here. ross (the ass-ed who did all the work), ashok (the remaining member of the photon twins) and perhaps others are still photoning various bits and pieces of this ** special thanx go out this week to me, rob collins, geoff hains, janne west (the only new addition), ross brown superstar, gregory vincent bezoff for the cheery front page article, kevin marting, ashok, richard someone-or-other, adrian jackson, dale waugh, stan mikoluk the polish tyrant, and david welbourn for the circle-word and sordid graphics (scotty says hi), no thanx go to the photon for the troubles we had with and around it tonite. ***** prediction --- the mathsochists will win their first broomball game tomorrow (really wednesday last) night ***** my god, i forgot dean (the half-orc) edmonds. more people have arrived...more things being taped down...may even get this thing out. ashok has overthrown the photon and trapped it in a room on the 3rd floor. geoff says hi mom. ashok has just crashed. more thanx to the pig for keeping us alive...all the wind companies in europe... me...matt the mathie...marcia...irwriter for not showing up...levi strauss...elston jon...and karem for taking notes for me tomorrow in my 8:30 (oh god) class tomorrow...editor crash...more no thanx to the inventor of clocks...the bun for continually crashing...gvbezoff for not remembering to save files...ken...and ross for the 32nd of January (too bad ross -- ass ed crash--). a special hello for brainiac for sporadic entertainment. thanx to whats-his-face (a friend of ashok's).

BOBEI

this is your glorious editor signing off with mathNEWS not quite finished at 02:35a.m. friday, october 33, 2984...paper crash *****

faculty notes



1. Copies of the 79/80 edition of "How to Get Around in Mathematical Circles" are still available in the Math Undergrad Office (MC 5115). This booklet contains information for undergrad Math students not conveniently found elsewhere.

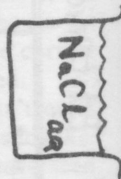
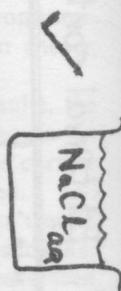
2. Math 000 sessions in the Modern Languages Theatre for 1B Co-op Math students have already begun this term. Math 000 sessions for first year Regular students will not begin until February. Watch for details later this month.

3. The deadline for adding winter courses and for winter term transfers between corresponding honours and general math courses is January 15/80. (Which was last Tuesday.)

The deadline for dropping winter courses and/or withdrawing without academic penalty is February 12/80.

FIND-WORD

AERONAUTS
ANALOG
ASIMOV
AVENGERS
DALEK
DEMON
DESILU
DIAMONDS
DREAMS
DUNE
EMMENSE
FORCE
FOUNDATION
FRODO
GALAXY
GOD
GOTHAM CITY
HAL
HARM
HEINLEIN
HELL
HOBBIT
HOUR
LOGAN'S RUN
MACE
METHUSELAH
MIRROR, MIRROR (ST episode)
OMNI
ORION
ORORO
PROTON
RAMA
RHODAN
RING
SAHARA
SOMA
STAR TREK
STAR WARS
STARSHIP
SUMER
TARDIS
TIME TRAVEL
TRIBBLE
TRIFFID
TROG
UHURA



||



70

SWULISEDYXALAG
RUAHATIMETRAVEL
AHMHAASIMOVEIRO
WUAEMROROENZHOG
RRAORSMRNGNAANA
AANRHHAOEONSLAN
TDAOOIIPROTONEUS
SRLRDPMSRHIISTR
TROOAITITATEUSU
ARGGNIFRAMALHDN
RIIMBFORRCNDNTRN
TNOBIERODINIEEO
RGODBYCRITUEMNI
EHELLLEASYOHOURL
KELADREAMSFRODO