Math Weekend: Nov.14 -17

A BOOZER'S BEST BET

Do you harbour sadistic tendencies toward your liver? Does the loss of irretrievable brain cells not bother you? Does the subjection of your body to a state of dehydration not phase you? Then, MathSoc's Math Weekend is for you. But, if boozing isn't where you're at, then Math Weekend shouldn't be either(unless an evening of bridge would satisfy you).

In any event, what promises to be a very "wet" weekend gets under way next Wednesday, November 14 and continues through to Saturday evening, November 17. The festivities open at noon Wed. with an afternoon pub in the Campus Centre pub area. This drink-up will be frequented by a cast of Disney cartoon characters, possibly W.C. Fields and some silent movie favourites. Similar afternoon pubs will take place on Thursday and Friday. There will be no admission charge for these afternoon pubs.

On Wednesday evening, as in past years, a bridge tournament will be held beginning at 8 pm sharp. The event will take place in the third floor lounge with free coffee and donuts supplied. There will, of course, be prizes and a championship trophy. Anyone still wishing to enter the tournament can do so by paying a small registration fee and signing up in the Math Soc office(MC3038).

Thursday, Friday and Saturday nights will feature pubs at Food Services. Booked for Thursday's bash is Leigh Ashford, with Mackenzie and James Leroy scheduled for Fri. and Sat. evenings respectively. These pubs will carry an admission charge of 50¢ for mathies(with stamped I.D.'s), $1.00 for federation members and $1.50 for non-members. The doors open at 8:30.

The final event scheduled for this term's festive occasion is a "pub rally". This car rally will be run by the UofW Car Club on Saturday afternoon. The idea behind a "pub rally" is that in place of the four or five check stops as in an ordinary car rally, there will be four or five pub stops. At each of these the navigator is required to drink two beer(provided free) as fast as possible and then continue on. There will be prizes and a cup for the winning team. All finishers will be given a free pass to the Sat. night pub at Food Services. Math Soc social director Carl Chaimovitz advises us that anyone considering entering this event can do so in either the Math Soc office(MC3038) or the Eng Soc office(E4 1338). There is a $2.00 registration fee.

So, if drinking is your game, Math Soc's math weekend is for you. That's Wed. Nov. 14 thru to Sat.Nov. 17.

ISSUE 3.7
FRIDAY, NOVEMBER 9, 1973.

math NEWS

Antical Questionnaire

NEW, IMPROVED, BETTER THAN EVER

The week of Nov 12 has been scheduled as anticalendar week. The new, improved antical questionnaire will be distributed in the one hundred and thirty-seven half-credit classes taught this semester. Mathsoc president, Cindy Harris informed mathNEWS that, "There has been a considerable amount of work done to produce this questionnaire for anticalendar. The questionnaires are (hopefully) more revelant, and will aid this year's anticalendar committee in producing a better anticalendar."

Mathsoc requests as much help as possible to get all classes covered before Nov 23.

Antical is a survey of student opinions of math courses and profs, intended to aid the reader in selecting them next fall.

One question of particular interest this year is the one concerning the number of copies to be printed, especially since there are still two boxes of Antical '73 sitting in Mathsoc office(MC 3080, if you want to pick up a copy).

"In the past- including this year- anticalendar has been printed in large quantities, ie, in the range of 2000 copies. It has been suggested that MathSoc limit the numbers produced, whereby antical would be distributed to strategic places on

(cont'd on next page)

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campus, to then be used as a reference manual.

At present MathSoc budgets $1500 for anticalendar. We also received $1000 from the Board of Education, used for publication, If a limited number of copies of antical are produced (using 200 as an arbitrary number), it would cost in the vicinity of $1000."

chevron cut-up...

MATHSOC

"This actually should have been brought up before." So remarked president Cindy Harris at this Tuesday's mathsoc meeting with, to say the least, a great deal of understatement. Apparently president Harris and another member of the executive decided to take it upon themselves to support a proposal by the engineering society president to reprint, as posters, the back page of the October issue of enginews (which featured an attempted cut-up of the Chevron for its stand on the Oktoberfest issue). This 2-man decision was made without the ratification of council and, it was revealed, the actual decision was "brought up during the boat races" at a campus centre pub a short while ago. With the support of engsoc, artsoc, and, supposedly, mathsoc, the posters were printed. Mathsoc's contribution came to, what was dismissed as "only $4".

Supposedly the plan was to be the latest chapter in an attempt to get the Chevron with the intent being to plaster the campus with these "anti-Chevron" posters. But, as one member mentioned, the posters have been sitting in the mathsoc office for days (actually since last Wednesday). Anyway, in an attempt to clear up the mess, the following motion was passed: that council "ratify the decision to approve publication of the posters and to remind the executive that, in future, proper procedures be followed."

In other business, Federation of Students president Andy Telegdi paid his second consecutive visit to mathsoc. This week he informed those present of a provincial government sponsored conference on youth. Telegdi requested volunteers to attend the event but received no response.

Mathsoc vice-president Andy Haycock then gave a summary of the state of the anti-calendar. The revised questionnaires have arrived and are to be distributed to classes next week. A total of 137 classes are to be surveyed. Howard LeBlanc then informed those present that the $1000 from the Federation's Board of Education has been received to help finance the anti-calendar (last year's).

Math's Campus Centre Board rep John Long then reported that a 5% drop in the campus centre budget has been approved; a proposed raise for turnkeys was discussed; a safety officer has been appointed; a plan to spend at most $500 on decorating the c.c. with paintings was proposed. In another report, Cindy Harris announced that she has looked into the possibility of cheaper T-shirts. At only 20¢ less per dozen, the proposal was turned down.

Again this week, the subject of the proposed arena was brought up. It was noted that a recent straw vote taken by the engineering society revealed that that society is opposed to a student-funded arena. A similar vote was then taken by mathsoc. A majority supported an arena but a majority of all present also voted against a totally student-funded venture. Adding a further complication to the arena proposal, a member said that the wife of math prof Kerr-Lawson is heading a Waterloo committee to oppose the take-over of Waterloo parkland for the building.

In other business, John Danyal approached council with a request to look into the possibilty of student representation on the Committee of Standings and Promtion. The matter is to be looked into.

At the request of social director Carl Chaimovitz, another straw vote was solicited. This one concerned the desirability of a math Christmas party (similar to last year's). A large majority favoured such an idea with December 1 as tentative date.

Before adjournment, senate rep Bruce McKay added that there exists the possibilty that classes next term may not begin until Mon. Jan. 7 (presently we are scheduled to return to classes for Thurs. Jan. 3).

positions available...

INFLATION HITS KAISERS & DONUTS

Yes, even C&D have been hit by the rising cost of food. As of last November 1st. the price of Kaiser rolls has gone up 5¢, from 40¢ to 45¢. C & D's special one month sale of donuts at 3/25¢ has also ended with donuts now 10¢ each ie. no discount on bulk quantities.

On the business side of matters, Paul Armstrong, this term's manager, has advised mathNEWS that several paid positions are available for the Winter and Spring terms. The position of manager for both terms is open with the pay for this job $20.00 per week. The position of assistant manager is available for the winter term only and pays $10.00 per week.

Applications, in writing, for these positions must be in the Math Soc office (MC 3038) by 4 p.m. on Nov. 13.

For more information concerning the responsibilities of these positions see either the "blurb" behind the C & D stand or see Paul Armstrong.

P.C.Fischer

PROF of the WEEK

Dr. Fischer, present chairman of Computer Science, was born in St. Louis, Missouri, on December 3, 1935, but was raised in Ann Arbor, Michigan. He obtained his B.S. in Math at the University of Michigan in 1957, and his M.B.A. in Actuarial Science in 1958. His phD., also in Math, he received from Massachusetts Institute of Technology in 1962. During the space of his career he has written some thirty papers.

His wife, Charlotte F. Fischer, a professor in Applied Math, is almost directly responsible for the fact that he is now at U. of W. Consider the following "long story":

He was at Cornell University in Ithica, New York, and she was at the University of British Columbia. They were married in 1967, and were attempting to find one place where they could be together. U.B.C. didn't give her leave, so he went there for a year to see what the place was like. He thoroughly enjoyed his visiting position there and also skiied a lot. (Other favourites are flying small planes and volleyball).

However, it was time to become serious about their future. Dr. Fischer had savoured the delights of Canada and decided to stay. U. of W. had two senior jobs available, so they both came here for a year and decided to stay.

He has taught various courses during his stay Here, among them Maths 472A and B. The 'A' course is on automata (a little computer with not much memory), and is related to algebra and graph theory. 472B is on the theory of computability: what can be computed, given the biggest computer, and all the time you wanted? It is interesting to note that the theory of efficiency for the abstract machines studied usually works out in practice. Dr. Fischer has also taught 132B, and said it is a "different sort of ball game." You must be better organized, for it is tough for first-year students: they cannot fill in any gaps themselves, as third or fourth year students do. It was an enlightening experience for him, but he felt it might have been hard on his "first time" students. Each year is a different kind of teaching, so different types of skills are required.

A chairman's job is rotating, and can be held for a maximum of six years. In the not-so-distant past, Don Cowan had been chairman, and he decided to take a leave. A committee was appointed to see about a new charman. Dr. Fischer was on the committee, but then he resigned and ran for the position himself. His name was ratified by the department, and he was in for a two year term. At the end of this time, he and his wife are eligible for their sabbatical (this is now year number six at Waterloo for them).

He found the job interesting, but far more work than he had expected: it competes with the time needed for class preparation and for research.

In Dr. Fischer's eyes, the students here are bright, friendly, and "unmotivated". Unmotivated here refers to the fact that most persons, when leaving highschool, do not know exactly what career they are going into. Students come here, expecting "something". It is difficult to get the idea through "of what education really is". By third or fourth year, students know where they are heading.

The C.A. and other co-op programmes are "very good", but regular classes are important also. We are now shifting more toward the co-op, and might lose something in regular if we are not careful. He feels Math should be renamed the "Faculty of Mathematical Sciences" ... but this change has not yet been accepted by the university.

A final comment on mathNEWS: "...an independent paper is refreshing to see, even if I can't always agree with the opinions expressed."

the phantom reports....

Well, there isn't much to say this week that hasn't been said before. A new version of APL is running (no, not THE new version A new version). This version doesn't let you play the games in library 12 until "the evening". It does allow you to if your account is five digits and starts with a "1" however.

The 'bun got rid of its "fetch" and "plst" (page list) commands which have been duplicated by "get" and "list20" for the better part of two terms. Of course the HoneyApple hasn't improved worth mentioning, tho it has made one dramatic and enlightened advancement: it seems that Honeyapple's Author got a little (well maybe more than a little) annoyed with a certain user and put in a check to see if that user was the one trying to use the Honeyapple and if so...CP DISCONNECTS.

Mark one up for the programmers.....

DEBUG has, in the mean time, continued on its erratic path of confusion among 132 and 240 and etc... There have been times in the past week when you could hand in your job, go for lunch, and come back in time to stand in line for a half-hour or so.

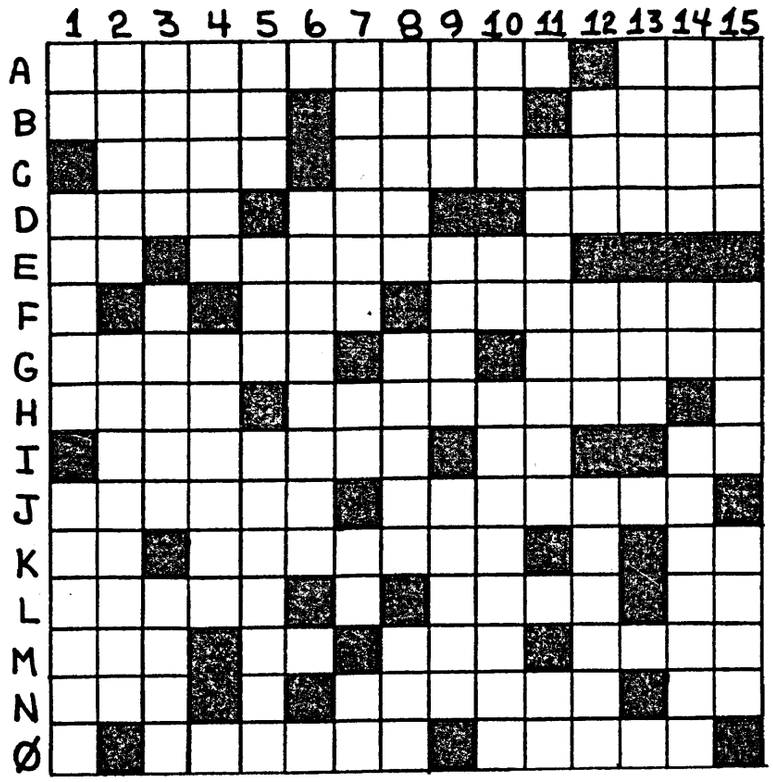
It is rumored also that there is an LG movie (no compiler of anything like that yet of course).

Nothing has been heard from the WATMAP "people" in recent times, from which you may infer what you may. At any rate I'm about done in for tonight.

TO M.SHIELDS: It was indeed tres interesante (enjoying your sleep?)

TO RICK: Wherefore art the WATMAP statement?

TO JOHN: I can't think of anything to say in 10 minutes, but I said I'd say something so....



A01 GREATEST SOCIETY
A13 PRONOUN
B01 PRIMITIVE WEAPON
B07 FRENCH LAUGH
B12 ENCOUNTER
C02 UNCOMMON
C07 MOST BEAUTIFUL WOMAN
D01 REAL _____
D06 _____ BEAR
D11 SET AGAIN
E01 ALUMINUM
E04 LIST OF EVENTS
F05 HOCKEY PLAYER
+ F09 SICK TO STOMACH
G01 COME OUT OF
G08 COMMERCIAL
G11 REPTILE
H01 CHURCH PART
H06 SNOTTY
I02 LONG WINDED SPEECHES
I14 REDACT(ABBR)
J01 TAKE OUT
J08 FRENCH BIRDS
K01 IRIDIUM
K04 RESULT OF HYPNOSIS(2WDS)
K14 INTERJECTION
L01 ELECTRODE
+ L09 _____ REDDING
L14 THIS(FR)
M01 SMALL CHILD
M05 FRENCH NEGATIVE
+ M08 YEAR
M12 _____BAG
N01 SPANISH CHEER
N07 SUPPOSE
N14 LINE(ABBR)
O03 OPEN _____
O10 ADD UP

GRIDWORD

This week's grid is supplied to us by.....

PAT VUURMAN

1a women's lib
2a looked for month
3a sports group
4a very prolific mammals
5a before
7a toronto statue
8a bathroom walls,floor
9a anger
10a canadian export overseas (abbr)
13a collections
14a not there
15a french state
12b _____-west
11c horse dance
1d removed
+ 6d ppp machine for waste paper
5e one of many in a system
9e tie up
10e _____ and behold
3f patron of misdeeds
12f tavern
13f cereal grain
14f great britain
15f sow
2g motherly
4g read again
8g fire crime
7h again(pref)
5i goes to
14i precisely
1j microscopic plant
9j religious paintings
10j place(2wds)
12j dutch beer
7k preposition
15k breadend
3l poems
8m enzyme suffix
7n to be,1st person sing.
11n mother(coll)

This week we were somewhat surprised to get 40 solutions to the gridword. However only 16 were correct. Special note to the person who left one of the spaces blank--- you have to fill them all in. Deadline is Tuesday 13 at 4pm.

Oh yesssss,,,,
the winner is

MARK CLUTHE

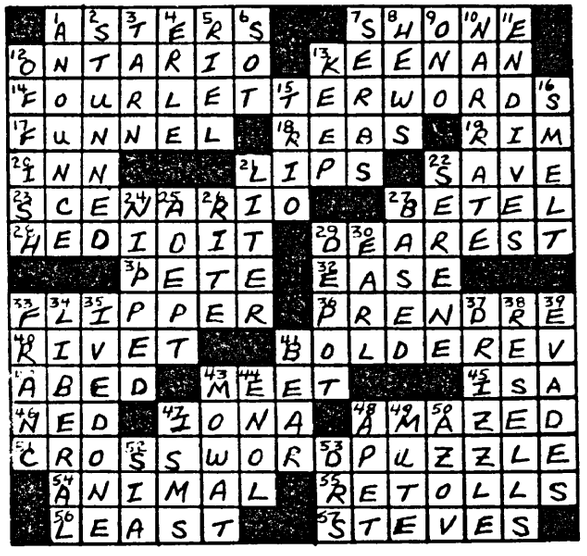
The person who almost made it was.....

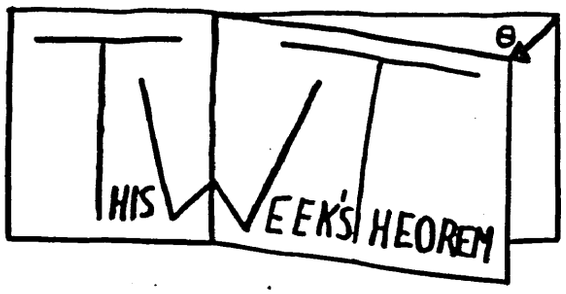
ROB HINRICHS

RULES:

1)A correct solution in the mathnoos file by the deadline.
2)See last week.

NOTE
Clues for words that vary from standard dictionary form are indicated with a +





If we take a general transformation of coordinals in 2-space

$x = f(u,v)$ where $\frac{\partial(x,y)}{\partial(u,v)} \neq 0$
$y = g(u,v)$

and f, g are continuously differentiable. then

$$\frac{\partial^2 x}{\partial v \partial u} \equiv 0$$

Proof:

$$\frac{\partial^2 x}{\partial v \partial u} = \frac{\partial}{\partial v}\left(\frac{\partial x}{\partial u}\right)$$

$$= \frac{\partial}{\partial x}\left(\frac{\partial x}{\partial u}\right)\frac{\partial x}{\partial v} + \frac{\partial}{\partial y}\left(\frac{\partial x}{\partial u}\right)\frac{\partial y}{\partial v}$$

(by chain rule)

$$= \frac{\partial}{\partial u}\left(\frac{\partial x}{\partial x}\right)\frac{\partial x}{\partial v} + \frac{\partial}{\partial u}\left(\frac{\partial x}{\partial y}\right)\frac{\partial y}{\partial v}$$

(change order)

$$= \frac{\partial}{\partial u}(1)\frac{\partial x}{\partial u} + \frac{\partial}{\partial u}(0)\frac{\partial y}{\partial u}$$

$$\equiv 0$$

Eg. $x = r\cos\theta$
$y = r\sin\theta$

$$\frac{\partial^2 x}{\partial \theta \partial r} = -\sin\theta = 0 \text{ by above}$$

YOU ASKED FOR IT

Last week's fiasco seems to have frightened off eager correspondents (-ence?). After an incredible 19 letters two weeks ago, we're down to three! But, down to business:

wlu: We're sorry, but "GENESIS" reached its last chapter and verse a while ago. Perhaps someone will work on a "New Testament"... The theorem is still here, if you look hard enough (occasionally, none of our resident genii can come up with anything, but we usually manage).

rpgurd: Thanx for "HEARD OR SEEN". In case you didn't know, SHAFT (Society to Help Abolish Fortrash Teaching) is alive and well -- just read the phantom's column sometime. And WHADDAYAMEAN, a fortran compile-and-go takes 40% of a 2314 disk pack?? (That seems like a "Naive Attempt" at humor on your part)... P.S. to "HEARD OR SEEN":

Seen in the stall:
" God is dead
-Fred

Fred is dead
-God "

If you want to send us a message, but find yourself hampered by lack of information, instructions were given a few issues ago. Or, sign on to the honeywell, and reply "expl mail" to "SYSTEM? " for instructions.

Bye
CP DISCONNECTS

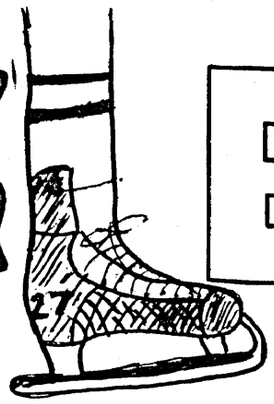
soundoff: MATHSOC GOES WUNDERBAR

The latest group aligning themselves against the Chevron became Mathsoc during Tuesday's regular meeting. A poster bearing Mathsoc's, Engisoc's and Artsoc's approval may soon see daylight. The design will be familiar. (Some students may even be fooled to the point where the poster will be mistaken for the back page of an old Enginews spectacular.)

The approval came with a majority vote: not a unanimous gesture by the members. Why Mathsoc continued to beat a guy when he's...well...remains a puzzle. Oktoberfest was on...uh...um... ah... well around the beginning of October and surely the issue should be allowed to die peacibly.

Why Mathsoc approved a poster supporting an Enginews bias weaves an even curlier tale. I'm not agreeing with some or any of the content in the Chevron but at least they let issues run their own course in which case they ultimately are solved or die.

math ETICS



Swimming

ALL COMERS CO-ED SWIM MEET

Entry date: Fri. Nov. 16 Tournament will be held on Sat. Nov. 17 at 1:30 p.m. in the pool (natch).
The events are as follows:

	Men's	
24	yd Underwater	time 1:30
50	yd Backstroke	2:10
50	yd Breaststroke	2:20
100	yd Individual Medley	2:30
50	yd Butterfly	3:00
100	yd Medley Relay	3:35
	Women's	
100	yd Freestyle relay	1:50
50	yd Backstroke	2:15
50	yd Breaststroke	2:25
100	yd Individual medley	2:40
50	yd Butterfly	3:05
100	yd Medley relay	3:25
	Co-ed	
200	Flutterboard relay	1:40
100	yd inner-tube relay	2:00
100	yd Waterpolo relay	2:50
100	yd long sleeve sweatshirt	3:15

(team must supply own sweatshirts).

Everyone who has paid his/her athletic fees is eligible to enter this competition. All those interested (please don't all run at once) may sign up at the bulletin board opposite the third floor lounge.

MATHIE DOLPHINS --- innertubewaterpolo

Last week Oct. 31, only two dolphins managed to make their way to the pool in time for the game. Nevertheless, we managed to play a pick-up game with the team that showed up and another team who just didn't want to quit. The week before that, Oct. 24, I unfortunately had a midterm during game time and was unable to make it and therefore, it follows that I do not have anything to report about the game which was played at that time if indeed there was a team there.

Broomball

OUTSWEPT

Math lost it's game on Nov. 2 to the Eastkimoes by the score of 3-0. Next action for the team is next Tuesday, November 13 at 11pm in Waterloo Arena. The game is an intra-faculty affair against the Mathies

Basketball

Co-op Math Basketball

Co-opers have been dropped from the A league to the B league as they just couldn't seem to handle the competion in the top league. The move seemed to help the team as they thumped VII South in their first game in the new league by the score 42-26. Co-op also won their second game on Nov. 5 over Blue Darts to even their season record at 2-2. Unfortunately, at press time we had not received a report on this game but we hear it was close.

Watch the bulletin board opposite the third floor math lounge for announcements of the next game.

Reg Math Basketball

Regular Math rebounded from a disasterous game last week and put together a good team effort this week and defeated the Science team 35-31 for their first win of the season.

Math held a half-time lead of 14-9 and at one time in the second half they had a seven point lead. Late in the game, however, they fell behind 31-29, but thanks to several fouls, a steal and a stalwart defense, the game was put away. Science was continually bothered by a three-man press that was employed by the mathies.

Dominic Jansen led the scorers with 14, Mike Gabriel had nine, Joe Labakovec had 6, Gregg Andrews,4, and Norm Macdonald,2.

Next game is Monday November 12 at 9:30 against St. Jerome's "C".

Football

BOW to ST. J.'s

Reg math entered the playoffs with a 3-3 record and hogh hopes. Theses hopes, however, were destroyed by a tough St. Jerome's team, 28-0. This loss ends the season for the mathies and hopes for next year are not especially high unless the team has an unbelievable failure rate or a tremendous crop of rookies.

CONGRATS ON YOUR 652 TRIPLE, JOHN...SPORTSED

Studs Showdown

The eagerly anticipated competitive hockey show-down is set for this Sunday night at Moses Springer arena at 10:00pm as undefeated Regular Math will host the equally undefeated Environmental Studies club.

This years game is expected to draw a capapcity crowd as the two powers have shown during the first three scheduled games that they will both be serious contenders for this term's title. Reg Math, of course, is seeking an incredible fifth consecutive hockey championship.

Reg Math tuned up for this week's tussle with a 7-1 verdict over a supposedly strong Lower Engineering crew. The only thing that Lower Eng demonstrated in this contest was the ability to incur the wrath of several of the mild-mannered Math players, by carrying their sticks as lances rather than using them to propel pucks.

Dean Mucci opened the scoring for Reg Math and tallied his second of the game and sixth of the season on a penalty shot later in the contest. Pat Fallon and Ken Chupa each notched their fourth of the term and Don McLean(his second), Fred Vivash(his first) and Tom Wilson (his third) rounded out the scoring. John Burnside was called up form Conquistadors for this game to replace the aleing(sic) Bob Denny in goal for Reg Math and faced 5 shots.

The win extended Reg Math's undefeated streak to a record twenty-seven games but they will have to play sound defensive hockey against the Environmental Studies explosive attack.

FEEDBACK

(Note: Letters appearing in this column represent the opinions of our readers. mathNEWS welcomes your criticisms, comments, suggestions, etc. All letters should be signed, but, if requested, a pen name will be used. Submit your feedback to MC 3038 and have someone there deposit it in the mathNEWS file. Or, drop your letters in the campus mail (a free service) addressed to: mathNEWS, MC 3038.)

deBUGGed

mathNEWS:

It seems to me that someone, somewhere, has their priorities mixed up. I am referring to the operation of the debug terminal in the Math and Computer building with which I am sure we are all familiar. We are all, I am equally sure, familiar with the hours of said debug terminal.

On Saturday of last week (Nov. 3) I had occasion to run a programme. Wishing to avoid the 4 o'clock rush for keypunches, I arrived on the scene at approximately 2 p.m. On my way to the keypunch rooms, I noticed some activity (ie keypunching) in the 132 tutorial room. Thinking to myself that anyone who would hold a tutorial on a Saturday afternoon was indeed cruel, I proceeded to punch up my cards.

It occurred to me that perhaps, just out of interest, I would take a look and see if the terminal was open. Feeling very foolish, as I knew quite well that the terminal hours were 4 - 12 on the weekends, I nonetheless peeked in. Lo, there were people INSIDE the terminal room, in line to have their cards read.

Thinking that this WAS good fortune, I enquired of the operator as to what time the terminal had opened that day. I was told that the hours were 4 - 12 (poor guy) and so I enquired again, and this time I was informed that (a)this was computer science day, (b) the terminal had been operating since 10 to 9 and (c) THAT IF IT WASN'T BUSY, UNIVERSITY STUDENTS WOULD BE ALLOWED TO RUN THEIR PROGRAMMES , BUT OTHERWISE THEY WOULD BE ASKED TO LEAVE THE LINE.

At first I thought, how generous of them to let us use the terminal when it wasn't too busy, then I got to thinking, and decided that after all we <u>are</u> fee-paying students and they are not and shouldn't it really be the other way around?

Shouldn't the high school students be allowed to use the debug and keypunches <u>if and only if</u> university students are not in need of such facilities? Janice Halligan

admonition

mathNEWS:

I'm not quite sure what to call this --a lecture? A sermon? A warning? A plain old report? Well, just listen and listen tight kiddies because what I have to say affects you all.

I am concerned with the state of disrepair of the terminals in both third floor terminal rooms. I am the APL consultant for the high school kids who come here on Computer Science Days and I am also one of the Honeywell consultants, so you might say that my concern is more than just a passing fancy. If you see a terminal that is not working properly, don't just mutter under your breath about busy equipment and hope somebody else finishes his work soon. Report the malfunctioning terminal. The procedure is this: leave room 3018(Honeywell) or 3022(APL), whichever you happen to be in. Turn right and go down the corridor towards the lounge. Go down the stairway in the centre of the wall, next to the display case. Go right down to the first floor--you know, down the ramp. The big red double door in front of you leads into the machine room. Don't be shy, walk right in, or knock if the door is closed. Normally there are two or three really hot chicks sitting in there reading "Playgirl". While you're telling them all your problems, mention the terminals that aren't working. It's OK, they won't accuse you of breaking them. They will need some information, though. They'll want to know the room number, and the terminal number, plus the nature of the problem. Be nice to them. They are my friends. Two weeks ago I asked them to fix about a dozen termianls. They passed the information on to the repair

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crew. The very next morning I saw an amazing sight--all the terminals were actually working!!!

This leads me to the purpose of this article. When I returned the morning after, there were five broken APL terminals. There is no reason for this to have happened. Under normal use these machines are virtually indestructable. When people try to rip off type balls, or make other "improvements" on the equipment, something goes wrong. The only thing that should go into the centre is the paper. Under no circumstances should you try to open a terminal yourself.

Anyone caught tampering with the terminals will regret it. And if you see a vandal, report him. Call security immediately. Computing is your very expensive PRIVILEGE and it is time for more of you to start acting accordingly.

Bill Kredentser

errata

mathNEWS:

By omitting a couple of words, the intent of my letter last week was altered slightly by your typist. The student told me the story. He had asked his teacher about the one-sided surface while still a high school student. I had intended to express the hope that graduates from here who end up teaching high school will be more capable than was his teacher at discussing such a topic intelligently with a bright student. Later the word "should" was omitted before "know". I did not intend to necessarily express satisfaction at the present situation. What I would like to assure is that students who specialize in mathematics (that does not include every programme in this faculty) have at least a minimal acquaintance with the major developments of 20th century mathematics. The example was intended to point out in a polite way that the textbooks in graph theory usually do not give a complete proof of Euler's formula - and one being dishonest (or incompetent) if they don't at least point out there is a non-trivial topological input.

P. Hoffman

CLASSIFIED

(Note: mathNEWS will print your classified ads FREE OF CHARGE. Just jot them down on a slip of paper, take it to room MC 3038 and have someone there deposit it in the mathNEWS file. Or, drop your ad in the campus mail (a free service) addressed to: mathNEWS, MC 3038.)

-NOTICE: A free T-shirt will be awarded to the person submitting an original gridword which mathNEWS uses for publication. To submit your gridword either 1)drop around to MC 3011 Tuesday nights, OR 2) drop it in the CAMPUS MAIL (no stamp needed) addressed to Dennis Mullin 216-S4, OR 3) put it in the mathNEWS file in the mathsoc office.

-WANTED: A place to stay in January, preferably in a townhouse near the university. Please call anytime after 7 p.m. Call Pat at 884-4989.

-DO YOU HAVE ANY TYPING TO BE DONE? Typing done in my home. Phone: 743-0230. (please let phone ring).

-WANTED: Colour or B/W enlarger that is capable of taking up to 2 1/4 negatives. Would prefer a good quality colour enlarger. Phone 884-6215 after 5 p.m. and ask for Gary.

-WANTED: Good Microeconomics text(s), especially "Ferguson" or "Henderson and Quandt". Call Jeff, 884-6484.

-WANTED: Townhouse to sublet from May thru August, 3 bedrooms and preferable close to campus. Phone Tom, 884-6577.

-APT. IN TORONTO AVAILABLE FOR WINTER TERM JAN - APR. 74 2 bedrooms plus converted dining room; semi-furnished; $182/month; close to bus (subway) and shopping. CALL 1-416-967-5952 after 6 p.m., OR 1-416-924-4661 ext.586 Allan Shaver (9-5).

MUSIC: Maestro electric piano for sale, only one year old, excellent condition. Must sell, price: $350 or best offer. Phone 1-416-967-5952 after 6pm.

mathNEWS - a news weekly published at the university of waterloo, is financed through mathematics society fees and is available free of charge to math undergrads. The views and opinions expressed herein are those of the mathNEWS staff and are made independently of both the university administration and the math society. mathNEWS welcomes your contributions, suggestions, criticisms, advertisements (published free of charge), feedback, etc. Contact us via room 3038. We put the whole thing together on Tuesday nights in MC 3011; feel free to drop in. Circulation this issue: 1200.

4:30, not as good as last week, but better than most. We find ourselves alone this week in the confines of the Honeywell room (no assignments?) ... Due to an apparent shortage again last week, we have decided to print an extra 200 copies of mathNEWS this week... Special thanks this issue to: Pat Fallon, Cindy Harris, Paul Noble, John Manistre, and Janice Halligan. This week we were: Dennis Mullin, Pete Raynham, the phantom, Paul Lear, Andy Seibel, Dave Brown, Randall McDougall, Ingrid Splettstoesser, Mark Saaltink, a belated Mark Shields, Norm Macdonald, Pat McGrath and John Peebles.

Next mathNEWS night: Tues. Nov. 13, 7 pm , MC 3011. See you there.