

Coming Soon?

MURDER!

"Six people were killed late last night when a fire of mysterious origin swept through the fifth and sixth floors of the Mathematics and Computer Building of the University of Waterloo."

This short excerpt may appear in one of the large national papers if the current wave of fires gets out of hand. In a recent interview with the Dean of Math, Prof. Forbes, mathNEWS was told that the Dean suspects that these fires have been deliberately set by someone with a grudge of some sort against the Computer Science department.

During the past four weeks the Math building has been subjected to a number of fires. All the fires occurred on the fifth floor, near, in, or concerning the Computer Science department. The first and second occurred within a few hours of each other, the former just outside of MC 5103 in which paper destined for recycling was burned, and the latter outside MC 5100 where a number of assignments were destroyed.

The first two fires were of nuisance value only; it wasn't until the third fire occurred in the Graduate mail room, MC 5104, that large monetary damage was done. In this fire a large amount of unused computer terminal paper was destroyed, as well as a number of pieces of mail. The most major of all fires occurred during the morning of January 24, 1976, when a fire broke out in a fifth-floor room housing a Comterm printer valued at \$39,000. Damages to the printer and room were conservatively placed at \$15,000.

It was these and other items that prompted mathNEWS to seek out and interview a number of faculty members. Prof. Forbes said he was glad that mathNEWS had decided to devote some of its time to these events. The Dean felt that whoever was setting these fires knew their way about the building and appeared to have a grudge against the Computer Science department or just against computers, pointing out that all of the destruction was directed against material and property related to one of the preceding topics. As a result of these problems, a number of meetings were held, between Prof. Forbes, Prof. P. Ponzio, and Ken Hunt. Among the ideas suggested was that the Math building have restricted access, that at 4:30 or 5:00 every night and all during the weekends the building be locked up with no admittance allowed. The Dean mentioned \$20,000 as a "ballpark" cost to implement a system of partial restrictive access, involving special locks on normally unused areas, modifications to the elevators and stairwells to forbid access to certain floors, and possibly the introduction of a security system found in many industries, that of having a sign-in and sign-out procedure at a central site to regulate access.

The Dean agreed that this would bring hardship to a number of persons: he hoped that it would not come to this. He mentioned that publicity might help to curtail these incidents, saying that if the students, staff, and faculty were to pay more attention to unusual or suspicious incidents in the building and not hesitate to report them

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FRIDAY, JANUARY 30, 1976
ISSUE A.3

math NEWS

Mathsoc wants your opinion of the proposed new B.Math. requirements.

You have perhaps heard about the proposed new Math Faculty undergraduate degree requirements. A copy of them was printed in a previous issue of mathNEWS. The main features of the report are:

- + Replacing the 10-term time limit to get a degree with a course-attempts and maximum-failures limit.

- + Raising the required math averages to 70% for an Honours degree (from 65%) and to 60% for a General or Pass degree (from 55%); and eliminating required overall averages.

- + Not counting failed courses (nor passed courses which were retaken and a better mark was obtained) in the math average.

- + Requiring 3 math courses (instead of 6) for a Pass degree.

- + Allowing a student to take 1, 2, 3, or 4 courses in an academic term.

- * Changing the drop period from 3 weeks for half courses (21 academic weeks for full courses) to 4 weeks, and the add period to 2 weeks.

- * Not allowing a person to take more than 6 courses a term unless their average in the most recent full term was at least 75%.

Your Math Society has expressed approval of most of the proposed requirements. But it has objected to the last two, starred ("*") above.

Mathsoc believes a student should be allowed to suffer a lower academic average if he/she wishes to take a broader range of courses (say 3) in an academic term, and that a four-week drop period is unacceptable to students and too drastic an action, for these reasons:

- + Students, especially those in first year, have difficulty getting adjusted and interested or "into" their work early in the term.

...continued on page 5

continued from page 1...

to either him or security, then whoever is responsible for these fires might be caught or, at least, prevented from repeating their past acts. With the recent return of a permanent security guard on duty in the Math building, it was hoped that this would also prevent further fires.

Prof. Lawson also stated that these fires may cause the Computer Science department to cut down on the availability of computer equipment and that this drastic move would affect a large number of students and faculty.

In an interview with Ken Hunt, further incidents of vandalism were mentioned, such as filling the locks of a number of offices with glue, and destruction of equipment in the mini-computer lab. Mr. Hunt mentioned that no problems had occurred in the HKLS and Data Processing departments, both of which have a different key system. It was Mr. Hunt's personal feeling that the real problem was not who was doing this but the reason why. He stated that if a person has a grievance with the Faculty then they should come and try to talk, that there was nothing really to gain by resorting to these acts of malicious damage and when caught, it could ruin the person's life. He stated that he was available, as were most of the faculty members, including the Dean.

Both student and faculty reactions to these fires range from apathy (a common, if regrettable reaction) to near-violent threats to the body of the responsible party. When asked how restrictive entry to the Math building might affect them, most students stated that many assignments could not be done during "normal" working hours. One professor stated that his working habits would be greatly affected as he considered himself a night worker.

Some theories have been presented to explain these fires. As one secretary commented on both the fires and the person responsible, "Just sick". The most popular theory is that the person responsible either is sick or has a grudge against the Computer Science department. One suggested reason for this possible grudge is the limited availability of councillors in the Computer Science department: two of the professors in the department are on sabbatical, and another is swamped by extra work.

unclassifiable ADS

mathNEWS will print your ads free of charge. Just jot them down on a piece of paper and put it in our mailbox on the third floor across from the C&D lounge, or take it to Mathsoc and have them put it in our mail slot, or put it in the mail addressed to mathNEWS, MC 3038, or send them in the mail subsystem on TSS to userid mathNEWS.

Three-bedroom furnished apartment TO SUBLET
May-August. Write:
Owen Leibman,
505 Parkside Dr. Apt. #306,
Waterloo
or phone 885-3132.

GIRLS!!! CHANCE OF A LIFETIME!!! A trip to Florida* or a chance to play co-ed volleyball with the famed JJBT. You may never see another offer like this again, as this is the only term we will be co-ed. For further information please call 885-3132 and ask for Catfish.

JJBT NEEDS YOU !!!!!

*We supply the hiking boots.

JJ Long FED REPORT

I have tried, during my career in student affairs, to talk about the issues which affect the students. When I found it necessary to publicly attack something, it would be the policies advocated by certain persons, and not their personalities.

During my visits in the Presidential campaign to the all-candidates forums in E.S., the Math Lounge, and the Campus Centre, I saw once again that not all people feel as I do concerning this. There was a small group of people (noted mainly for their rhetoric and big mouths) who were supporting one of the candidates. This minority felt it to be in their interest (though according to most people there, not in the students' interest) to viciously attack one of the other candidates. Their meanness and rudeness to that candidate gave a bad impression to students with regards to the operation of student politics on this campus. They did much damage to their own candidate and a disservice to the democratic process, at a time when students should be uniting and facing the threatening issues before us, such actions can only divide the students and be counterproductive.

If I decide to seek re-election as Federation Rep, this column will be discontinued for two weeks and I hope to see you on the campaign. However I may decide to call it quits and let someone else take over the responsibility. I will decide soon. I do envision more JJ Long Fed Reports in the future as a semi-regular report on Federation affairs, whether or not I remain on council.

The University of Waterloo Science Fiction Club

WATSFIC is a new club that has emerged from the deep dark pits of Uniwat. The purpose of this club is to act as a central clearing house for intra-member book loans, provide information concerning the various science fiction events going on, produce a fanzine, and finally to provide "quality" science fiction movies.

In accordance with this last objective, WATSFIC is proud to announce that on February 9th, 1976 we will be showing the movie "City Beneath the Sea", a semi-classic science fiction film starring Robert Wagner. This film will be shown in the evening in MC 2065 or 2066: watch for posters appearing everywhere on campus.

All are welcome, and we hope that we get a good turnout as we are planning to bring in such greats as "Silent Running", "THX 1138", "Star Trek Bloopers", and "Destination Moon", a classic in both science fiction and cinema.

Among the other services that we are offering is a booking service in connection with the World Science Fiction Conference. The club will be offering rides on a bus going to Kansas. Anyone interested is requested to contact Mike Wallis through the Honeywell mail system (mail WATSFIC) or through Integrated Studies Lounge (in the PSY building).

Note to all science fiction fans: WATSFIC meets every Thursday in the Math Lounge, all are welcome.

TO SUBLET: 2-bedroom apartment, Spring Term (May-August) 1976. 5 minutes from either university. Only \$235/month. Call 385-2522 after 6:00 Monday-Thursday. Jim <illegible>.

The subject who is truly loyal to the chief magistrate
will neither advise nor submit to arbitrary

BURLOAF

Canada has gone metric as far as temperature measurement goes. However, I think that as long as we are going to use the scientists' system, we should go all the way and switch to the Kelvin scale rather than the Celsius one. Kelvin degrees are the same size as Celsius degrees, but rather than taking the rather arbitrary temperature at which water freezes as 0 degrees, Kelvin uses absolute zero as 0 degrees. Absolute zero is a good choice, for it is the coldest anything can possibly get. The molecules that make up matter are constantly vibrating and the colder they get, the smaller these vibrations are. Absolute 0 is the temperature at which the vibrations cease.

Using Kelvin as the temperature scale not only makes scientists happy, it makes happy those people who believe that negative numbers do not exist, for nothing can ever get colder than 0 degrees K. Water freezes at 273.15 degrees K, and boils at 373.15 degrees K. Room temperature is about 293 degrees K.

The room where the Nova computer (among other things) lives has a new sign on the door saying "toyland". As you may remember, there is a model railway setup which is connected to the computer so that students can program the computer to run the train. Recently a slot car set was installed with the intention that students program the computer and the computer run the model race cars. However, it seems that the students often run the race cars themselves and the computer sits there idle, which just goes to show that perhaps some things are still done better by hand.

The Viking Mars probe, currently winging its way across the solar system, lost one of its three soil sampling ovens while travelling through a place in space about 35 million miles from the earth and 135 million miles from the sun, a place which is the home of what scientists call the Galactic Ghoul.

Scientists admit something uncanny is going on and are becoming slightly worried. Many spacecraft have suffered damage while travelling through this section of space. Three ships have been totally decapitated, while four more barely managed to scrape through. In 1969, a battery aboard Mariner 7 exploded. The flying pieces of debris and the vibrations effectively put the Mars probe out of commission. The ghoul shows no prejudices, attacking American and Russian spacecraft with equal ferocity.

Space scientists here won't breathe easy until early next month when the Viking probe leaves the Ghoul's home.

Everything at this university that does something inevitably seems to be a "services". For instance, there's Food Services, Graphic Services, and Central Services (formerly Central Stores). What really impressed me, though, is a sign posted by the elevator in the Arts Library. Instead of saying something to the effect of "The elevator does not stop at this floor", it says something like "Elevator services are not available on this floor".

I'm surprised someone on the Math faculty hasn't put through a motion to change the faculty's name from "Mathematics" to "Mathematical Services".

Today, January 31, 1976, is new year's day according to the Chinese calendar. This year is a sort of leap year in that it will have thirteen months. The average Chinese month is not quite as long as your average western month, and as a result, every few years an extra month is added to the year.

The month being added is an extra eighth month, following the regular eighth month (which roughly corresponds to August). Whether this means that the holiday celebrated on that the fifteenth day of the eighth month is celebrated twice or not, I don't know.

This week we present as our INTEGER_OF_THE_WEEK the number 30.

This number has the interesting feature that it is the largest integer that satisfies the following property: All the integers greater than 1 and smaller than the number which are co-prime with the number are prime integers. I.e., the following integers are co-prime with 30 (the greatest common divisor of these integers and 30 is 1): 7, 11, 13, 17, 19, 23, 29. All these numbers are prime.

The smallest number with 30 factors is 720 which is 6 factorial. $6 = 4 + 2$, and summing the first 4 positive integers raised to the power of 2 yields 30.

$30 = 2 \times 3 \times 5$, and summing the first 5 3-angular (triangular) numbers multiplied by 2 yields 30.

According to the ancient Greeks, 2 symbolized the female, 3 symbolized the male and 5 symbolized marriage, or the happy(?) union of 2 and 3. Multiplying 2, 3, and 5 gives 30. If you take perfect marriage and replace the perfect by the perfect number 6 (appropriate because 6 is the only number that is both additively and multiplicatively perfect), and replace the marriage by the marriage number five, you get 6 times 5 which equals 30.

Issue A.3 is being issued on the 30th day of the month and of the year. And A (I.e. ten) times 3 is our INTEGER_OF_THE_WEEK, 30.

There are about 30 centimeters in a foot, and about 30 days in a month. Interestingly, these two real numbers are closer to each other than either is to 30.

The traditional way of terminating a newspaper or magazine article is done with a 30, like so: -30-

HELP!

A few weeks ago, one of our staff decided to write an article describing all the various computers on campus. This brought discovery of the fact that virtually no-one knows how many there are!

Thus we appeal to our readership at large: if you know of a computer (other than the three in the Red Room and the Honeywell) on campus, let us know! mathNEWS can be reached all the usual ways (i.e. TSS mail, math lounge mailbox, Mathsoc, postesCANADApost, in person, etc...), or you can send your notes to dwgilllett on TSS or Its8 on Vll.

Computing Centre Courses for Winter 1976

Since there is no mathNEWS next week, we had to compress two weeks' worth of these non-fee, non-credit courses onto one page... to enroll, send your name, departmental address, and the courses you want to attend to Dianne Hart, MC 2008; information (like what we cut out of the descriptions) is available from Clive Knowles, MC 2002, extension 3524.

APL/CMS Special Features

APL/CMS offers many language facilities not available in previous versions of APL.

PREREQUISITE: No knowledge of CMS is necessary; however, some knowledge of APL is required.

DATE: February 3

TIME: 3:30 to 4:30 p.m.

INSTRUCTOR: Dave Burkett

Introduction to CMS

CMS (Conversational Monitor System) is an interactive terminal system operating on the 370/158.

This course consists of two sessions in which the command language structure and the creation and manipulation of files are explained and demonstrated.

DATES & TIMES: Section II: February 2, 4
10:30 to 11:30 a.m.

INSTRUCTORS: Shirley Helen (Section II)

Introduction to SPEAKEASY

SPEAKEASY, which runs under CMS, is an interactive, easy-to-learn language that was developed at the Argonne National Laboratory. It is intended to provide novice and experienced computer users with the means of quickly formulating a problem for computer processing and for obtaining answers in a minimum of time.

Each session will be an introduction to the basics of using SPEAKEASY, including how to use the HELP files and the tutorials.

DATES & TIMES: Section II: February 5
3:30 to 5:00 p.m.

INSTRUCTORS: Malcolm Robinson (Section II)

Introduction to SCRIPT

The SCRIPT text formatter offers considerably more features than does ATS. In addition to the kinds of documents for which ATS can be used, SCRIPT is useful for large documents such as manuals and theses.

PREREQUISITE: Familiarity with some terminal system or attendance at one of the following courses:

Introduction to CMS
Introduction to OS/WYLBUR
Introduction to CMS/WYLBUR

DATES & TIMES: Section I: February 2, 4
2:30 to 3:30 p.m.

INSTRUCTORS: Bruce Uttley (Section I)

Advanced SPSS

The course will consist of four one-hour sessions.

PREREQUISITE: Introduction to SPSS and previous experience in the use of SPSS.

DATES: February 10, 12, 17, 19

TIME: 12:30 to 1:30 p.m.

INSTRUCTOR: Malcolm Robinson

Introduction to SIMPLOTTER

This course introduces the FORTRAN, PL/1, or COBOL programmer to SIMPLOTTER, a plotting package which can be used for the graphic presentation of data with a minimum of programming effort.

PREREQUISITE: A working knowledge of FORTRAN, PL/1, or COBOL will be assumed; examples in the course will be given in FORTRAN.

DATES: February 9, 11

TIME: 3:30 to 4:30 p.m.

INSTRUCTOR: Roger Watt

Introduction to CMS/WYLBUR

This course introduces and discusses the CMS/WYLBUR text editor system and the basics of the CMS environment in which it exists.

The first part of this course is meant for those with little or no computing experience. The latter part of the course will discuss CMS/WYLBUR EXEC files, CMS EXEC files and the use of CMS/WYLBUR as a programming tool.

DATES: February 9, 11, 16, 18

TIME: 1:30 to 2:30 p.m.

INSTRUCTOR: Randy Melen

Introduction to FORTRAN

FORTRAN is a programming language frequently used in scientific applications. This course will introduce the concepts of FORTRAN programming to the novice programmer.

DATES: February 10, 11, 12, 17, 18, 19

TIME: 10:30 to 11:30 a.m.

INSTRUCTOR: Carol Vogt

FORTRAN Debugging under CMS

Using an interactive system like CMS for running programs gives you new techniques for debugging that are not available in BATCH mode.

DATE: February 10

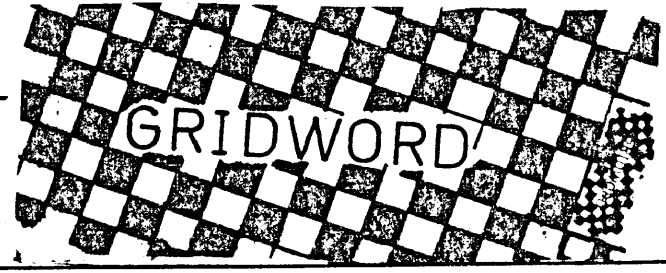
TIME: 2:30 to 3:30 p.m.

INSTRUCTOR: Dave Burkett



NO mathNEWS NEXT WEEK

Our next production meeting will be on Tuesday, February 10, in MC 3011, beginning at 7 p.m. ...why don't *you* come out and volunteer?



- | | |
|-------------------------------------|-------------------------------------|
| A1 ugly old woman | A1 surprised cry |
| 5 cliff | 2 In poor health |
| 10 heaving sigh | 3 Waterloo assembler |
| 14 yoman's association | 6 road (abbrev) |
| B1 points | 7 skill |
| 6 covered in cloth | 8 Scottish Celt |
| 13 unit of a train | 10 grouping |
| C2 racey passes | 11 overdose (abbrev) |
| 7 milk spigot ? | 14 American |
| 12 jerk | 15 container of Covenant (biblical) |
| D3 top of the head | tiff |
| 8 opposite of RS (math) | B4 no salt (Fr) ? |
| 11 swine flesh | 9 wagon |
| E1 BA<_<PhD | 13 hot water |
| 4 length of time | C5 olden time |
| 9 Commerce Bank plan | 12 Australian ostrich |
| F1 intercourse (gorean) | D1 explosion |
| 5 listeners | 6 treaty |
| 14 us | 11 behind (naut.) |
| G2 treads | E2 doctors |
| 9 permit | 7 memory aid |
| 13 trouble | 10 suppose |
| H1 light gas ? | 15 love |
| 12 corn crib | F3 from bad to worse |
| I1 art (Latin) | G4 an article |
| 5 Dante's city ofhell | 13 loose balls |
| 9 planks | H1 2.25 inches |
| J1 truncated hotel | 12 cold saying |
| 4 feelings | 15 three before A3 down |
| 13 harden | 7 stink |
| K3 smoothing tool | 9 nit (slang) |
| 9 game fish | 11 oblique |
| 14 a Greek letter | J4 she (Fr.) |
| L2 sea weed | 15 barrel |
| 7 Acadian province | K3 bother |
| 10 waxen cloth | 12 Greek Cupid |
| M1 goddess of fine arts | L2 a native of Kurdistan |
| 6 pain | 8 how far a bullet flies |
| 11 home for 9 months | 13 give off |
| M1 canal scavenger (Raiders of Gor) | M1 a quiet word |
| 5 off the boat | 6 long-eared horse |
| 12 water container | 9 before |
| 1 medic | 14 Canadian constitution |
| 4 fool | N5 simile word |
| 8 canvas shelter | 10 printer's measures |
| 13 to draw off | 15 kitchen patrol |

continued from page 1...

+ Courses have a habit of "accelerating" in the fourth or fifth week, so four weeks is not long enough to give students a good chance to judge the effects of the course upon them.
 + A student rarely has a midterm (or sufficient assignments) to judge his progress in the first four weeks.

Your Math Society wants to know how you feel. Will you please answer the questionnaire at the end of the article and return it to mathNEWS via their third floor mailbox or to MC 3038.

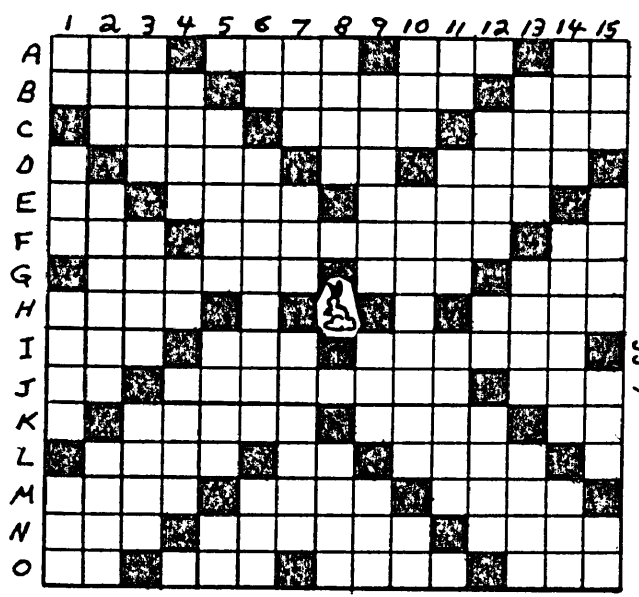
Mathsoc may also start distributing a petition against the four-week drop period and six-course restriction.

If you are planning to attend the Faculty Council meeting on Tuesday, February 17 (at 3:30 p.m. in MC 5158), where the proposals will be put to a vote, then please sign the list in the C&D lounge or in Mathsoc (MC 3038).

This is an important issue. We plan to hold a forum at 12:30 p.m. on Monday, February 9, in the smoking side of the third-floor Math lounge. Representatives from Mathsoc, the Faculty, and the Federation will be invited to speak. We hope that you will try to learn more about this issue and attend the forum and the Faculty Council meeting. Some Faculty members have indicated that if the students show again that they are not interested in the issue, all aspects of the new requirements will be pushed through.

Here is the questionnaire...

- * FOUR-WEEK DROP PERIOD: AGAINST IN FAVOR
- * SIX-COURSE RESTRICTION: AGAINST IN FAVOR
- * OTHER REMARKS:



Name? _____
 Number? _____
 How What? _____

This week we received three new problems, but unfortunately due to a limitation in the size of this column strictly enforced by our editor (msb) we can only print one of them this time. So if you sent a problem in and don't see it in this issue, be patient. It may appear in future issues of MATHHEMS. Our problem this week is due to the ever-present (pseudo-artsie) A. Many Fold, while last week's problem was solved by Greg Fee. Once again, fjaninteric almost (but not quite) showed up. Anyhow, on with this week's problem.

Q26. Submitted by A.M. Fold.
Show that $p = (n + \theta)^k$ where $n = \prod_{i=1}^k (n + k)$,
 $n = (n+6)(n+1)$ and $0 < \theta < 1$ for any positive
integer n .

Some uneasy

Problems

Q25. We want to evaluate the integral

$$I = \int_0^{\pi/2} (1-x^2)^{1/2} \cos(ax) \cosh(a\sqrt{1-x^2}) dx.$$

Since the value of I depends on a , I is a function of a , namely $I(a)$. If we make the substitution $x = \sin\theta$, we get

$$I(a) = \int_0^{\pi/2} \cos(a \sin\theta) \cosh(a \cos\theta) d\theta$$

By Leibnitz's Rule

$$\begin{aligned} \frac{dI(a)}{da} &= \int_0^{\pi/2} \frac{\partial}{\partial a} [\cos(a \sin\theta) \cosh(a \cos\theta)] d\theta \\ &= \int_0^{\pi/2} [-\sin(a \sin\theta) \sin\theta \cosh(a \cos\theta) \\ &\quad + \cos(a \sin\theta) \sinh(a \cos\theta) \cos\theta] d\theta \\ &= \frac{1}{a} \sin(a \sin\theta) \sinh(a \cos\theta) \Big|_0^{\pi/2} = 0 \end{aligned}$$

$\therefore \frac{dI(a)}{da} = 0$, so $I(a) = c$, where c is some real constant.

Hence $I(a) = I(0) = \int_0^{\pi/2} \cos(0) \cosh(0) d\theta = \int_0^{\pi/2} 1 d\theta = \frac{\pi}{2}$.

And this is true for all values of a .

Solution submitted by Greg Fee (and the proposer) although we think Greg Fee's is much more elegant.

both defensively. In goal, COASTER was a standout, stopping four clear breakaways, and dealing with numerous other close-in shots. Needless to say, the Hacks were amazed at the new-found talent of their transplanted cod-fish. Perhaps Mathsoc Broomball has seen the dawn of a new era!?

The other defensive star of the evening was one of the very few girls to turn up for the game (that is meant as a veiled criticism, ladies). LIZ turned in a sparkling performance, diving across the ice in repeated attempts to keep the ball in the opposition end-zone. Too bad she is not 4 inches taller, she might have managed to do it even more than she did!

And now its time for the season's prognosis. If the Math Hacks are able to convince more than two girls at a time to come out to a game, they may well be able to pull off an upset and win more games than they lose!! Surprise, surprise! Math has a good defense with DRYDEN running his donkey off laterally along the blue-line, and people like LIZ sacrificing life and limb in order to control the play. Unusually, Math seems to have developed a scoring threat this season, what with KRYCH scoring goals and SCRODGE, DRYDEN, and others waiting around for **** rebounds! The next game in the crusade is today, Friday at 2 o'clock at MOSES SPRINGER. DRYDEN has promised that more girls will show up and PRUDENCE, our all-team no-star, has dropped hints that he will actually deign to make an appearance! Will wonders never cease!?? All our loyal fan(s) please don't forget the GIGANTIC BROOMBALL TOURNEY at ST. CLEMENT'S ARENA on February 6 (that's just down the road from the world-renowned St. Clement's luxury hotel and drunk-tank). We do need all the support (and beer) that you can provide! Till next time, Au Revoir from MYTHLETICS, located in beautiful down-town room 3032. We goin' bye-bye!

JJBT wins organizational meeting

Owen "Catfish" Leibman led his JJBT (Joe's Japanese Baseball Team) to an undisputed victory at the Co-ed Volleyball Invitational organizational meeting.

Catfish attributed this win to the fact that no other team knew it was a competitive meet. Said Catfish, "It was tough going keeping it secret during the whole meet, but our superior ability at keeping 'quiet' saw us through."

JJBT steamrollers opposition

Virtual Machine C was no match for the JJBT juggernaut in the first co-ed volleyball game of the term, held at 9.17 kilothirds Eastern Metric Time on January 27, Year 1 AJ (after JJBT).

The JJBT showed up with a horde of 17 players, to the other team's pitiful showing of 6. In the interest of fair play, three of our top stars were temporarily demoted to the other team.

Virtual Machine C "went down" to defeat in both games, as the JJBT won 15-10 and 15-17. Almost all 57 points were accounted for by JJBT members (regulars and demotees).

The crowd (consisting mainly of non-playing JJBT members) was disappointed when Catfish failed to produce any "Cil Tower Specials". However, he did entertain the capacity crowd with his daring sorties into other courts in pursuit of the ball.

The team would like to thank Debbie, Sylvia, and Fay for making the JJBT eligible as a truly co-ed volleyball team.

myth LETICS

Scrooge writes about Broomball

Well, friends, SCRODGE has finally returned to the onerous task of writing Mythletics. No longer able to stand DRYDEN's convoluted sentence structure, he has been compelled to report back in order that he may write clear, sensible sentences. Aficionados of the Queen's English rejoice!

Mathsoc Broomball is all there is to dwell upon this week folks, so if you were expecting anything else, kindly prepare yourself. If, however, as I suspect, you are a fan of the ONE TRUE SPORT, this news should fill your fibrillating hearts with unbounded joy.

In their first game of the new season, Math Hacks renewed the hope of their fan(s) by defeating Team Cannabis by the convincing score of 1-0. KRYCH scored the only allowed goal of the game on a thrilling breakaway. Receiving a pass from a temporarily forgotten person (I'm sure he will remind me later), KRYCH sped in from the blue line, shifted, and beat the opposition goalie with a good backhand shot. SCRODGE was elated as he had grown tired of being the only hero on the team. KRYCH had scored earlier in the game, but the unfriendly persons of TEAM CANNABIS had refused to allow the goal to stand on the mere technicality that Math had one too many people on the ice. Schlockey Night in Canada selected two other stars in the game, both for the Math Hacks, and



mathNEWS welcomes your criticisms, comments, suggestions, etc. All letters should be signed, but if requested, a pen name will be used. Put your Feedback articles in our mailbox on the third floor outside the lounge, or mail it to us on TSS to userid mathNEWS, or take it to MC 3038 and have it put in our mail slot, or put it in the mail addressed to mathNEWS, MC 3038.

...However, we didn't print Adrian Pepper's letter this week. Why not? Because it was a copy of a page-long "gripe" he submitted on TSS, and *as such*, it has been posted on the gripeboard across from MC 3016.

The letter criticizes the allocation of resources on TSS.

Suggests modification to B.Math. requirements

Dear mathNEWS:

I have a suggestion for the new B.Math. requirements. As you noted in your last issue, the changes were intended to help students who have had a bad term. In particular, you spoke of first-year students who were either not prepared for the University environment or were enrolled in Honours and had found that they could not handle it. It is for this latter group that I make my suggestion.

At present we have the almost farcical condition that a student who fails the first term of math 129 or 130 must continue in the Honours programme in the next term (at the risk of falling again or just barely scraping through) if he wants a chance to get credit for his first term, whereas a student who passes the first term may drop down to General for the second and have the chance to improve his average.

I suggest that some numerical factor of the increased difficulty of the Honours programme over the General be determined, perhaps even separately for each course. Let us say the figure is 10%. Then a student who gets a first-term mark of 45% may choose to drop down to General and have his mark upgraded by the factor (giving him a passing mark of 50%). He has gained the experience of seeing an Honours class in operation and finding out that he doesn't belong there. Even a student who passed, but with only 53% (for example), might do well under this system. He could go into General with a mark of 58%.

As you can see from the example, this would help only borderline cases. Hopefully the actual factor is higher than 10%. In any case, I hope this suggestion stimulates some thought and elicits some response.

J. A. Coles

Approves chalk-throwing

Dear mathNEWS:

I was in the 329B class where the chalk throwing occurred. The only thing I can criticize is the prof's aim. It may be a boring class, but it is unfortunate that some of the class disrupt the few of us that are awake and trying to learn something. I must compliment the prof on finding a successful way of quieting the class.

D. R. Mowbray

MATH - ARTS - ESS Week - U of W Winter Week -

MONDAY

February 2-7, 1976

12 noon Tug-of-War in Arts Quad
7 p.m. Duplicate Bridge Tourney MC 3rd floor lounge

TUESDAY

12 noon Spelling Bee in Humanities Foyer
meet in the Mathsoc office
at 11:45 to go over
8 p.m. Wine and Cheese MC 5136
\$0.50 Math Arts ESS, \$0.75 others

WEDNESDAY

12:30 p.m. Slide Rule Contest MC 3rd floor lounge
2:30 p.m. "Dykes, Soccer Balls, Euler"

An exploration of solid models,
a journey into the world of geometry
by Dr. L. J. Dickey

MC 2065

6 p.m. Red Garter Pub at the C. C. Pub
with "Me and Mr. T."
Math Arts ESS free, \$0.74 others

THURSDAY

12 noon Toboggan Races at Conrad Grebel
3:30 p.m. "Micro-Processors"

A seminar by Dr. John Tartar
from the University of Alberta.

MC 2065

7 p.m. Games Night:
Hockey, Bridge, Darts, Euchre, Cribbage, etc.
MC 5136 (cash BAR)

FRIDAY

11:30 a.m. All Day BROOMBALL Tourney
at St. Clements Arena, \$5.00 Entry Fee
MAJOR PRIZES

7:00 and 10:00 p.m. FASS

If you don't know what it is,
come to Mathsoc and find out.

SATURDAY

CONVERGENCE 1976 SEMI-FORMAL

with "Full House"

at the Concordia Club

\$10.00 Math Arts ESS, \$12.00 others

PRIZES FOR ALL EVENTS

Register at Society Offices

TOURING

Monday through Thursday at 1:30 p.m. in MC 3016, a look at the Math Faculty Computing Facility.

Tuesday and Thursday at 12:30 p.m. in MC 3063, "Trains, Slot-Cars, and Photons"... a tour of the Mini-Computer Lab.

Escape from Beneath

the Planet of the



GRIDCOMMENTS :

Either the gridwords are getting easier or people are getting smarter. We had 37 entries this week, not including several from mathNEWSers. Not less than 5 of these were wrong. This week's winner by some manifestation of divine intervention is declared to be

---> Steve Martinello <---

It seems that many persons and other beings which submit gridwords are not familiar with the literary efforts of John Norman who has written the "Counter-Earth" series, of not less than 9 novels, about a world called "Gor". Both last week's grid and this one refer to Gorean terms. If you really get stuck, the bookstore has several volumes of the series...

Comments this week were something else again: Dave Taylor is still having trouble with his congruencies; Dan Oakman appears to have "oral-anal-phallic-genital" fixations; Robin A. Lou-Hing shouldn't give up yet, just learn a fourth language; we need fewer inferior tribbles and more bunnies, so all rabbitophiles should contact dsbond; technicolor McInroy and his pathetic rainbow have awarded the letter-of-the-week award to all thirty of the E's, and honorable mention to our friends J, K, Q, U, X, and Z. Once again for your pleasure and/or edification we present our usual motley derangement of the gridword clues. This time you get two weeks to work on the gridword, so we expect super results. Any complaints should be addressed to MC 6302, particularly when it becomes MC 3082.

It is 9:55 ... I just ha' the experience of clearing out of 3011 in a matter of minutes (how dare they schedule CLASSES in math-NEWS's room?), reaching the haven of 3038 and finding the masters GONE... after about five minutes I ascertained that they were in my case which was in 3038...

MISCELLANEA: The paper of jobs available will be out on today, or so... Gary Dryden asks me to emphasize the additions to the Math-Arts-ESS Week list, viz. the seminars and tours... see page 7... "Letters to the Trob" may appear in

mathNEWS at some future date; there was no room this time; "Game of the Week" may also return someday, if its authors ever finish their math 340B assignment... STANDARD STUFF: This is the only weekly all-volunteer paper on campus. It's financed by Mathsoc but independent of it. Graphic Services does the printing, 1200 copies this week. We usually skip one issue each fall/winter term, and next week is it... THIS ISSUE'S CREDITS: Scrooge, Owen Charles Leibman, Ron S Steiner, and the above-signed Pat Fallon supplied Letices (plural of Letix); Pete Raynham, J.J.Long, and Exil Q Trob (if I read Scott's handwriting properly) (undecoded this week) supplied their usual outputs; I omitted Micheal Rose under Letices above; then there was G G Dryden the Photon lover (wait till they introduce the Graviton); Randall McDougall with artwork which we hope was not drawn from experience; Randy Morrison was a Problem again (definitely singular); Boff and Dave Newell proved helpful... R A G White contributed dire prophecies; and so we come down to the co-editor Mark Brader... who finds he has still a couple of lines worth of page to fill... Mathsoc now has an outside phone in MC 3038... the number is 886-0510, that's right, eight eight SIX... the 3038+lounge sound system has grown... That's enough...)OFF

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	E	S	C	U	T	C	H	E	O	N	R	E	A	R	
2	L	E	E	R	O	N	R	C	I	R	R	A			
3	E	C	L	I	P	S	E	D	R	E	G	R	E	T	
4	C	T	E		T	R	E	E	G	O	A	S			
5	T	I	R	E	S		E	D	I	T	O	R	S		
6	R	O	Y	A	L		C	G	S	O	U	N	D		
7	I	N	T	A	U	T	H	B	A	U	B	A	R		
8	C	E	M	E	N	T		S	T	O	P	S	T		
9	I	D	E	N	T	I	F	I	E	R	S		G	I	N
10	T	T	E	L	O	P	E	D		S	L	O	E		
11	Y	I	E	L	D		R		N	E	P	T	U	N	E
12		R	A	T	E		R	I	P	E		D			
13	D	E	I	T		Y	U	R	N	S		S	I		
14	N	O	N	E		S	N	O	W		A	R	G	O	N
15	A	N	G	R		Y	E	S	T	A	T	E	S		G

created by H.P. Russo
drawn by D.W. Gillett

R. B. ELLIOTT

Please report to co-ordination and placement,
1094, as soon as possible!

MATHLETICS

Competitive Hockey

Defending "A" league champs, Math "A", have picked up where they left off last term, with two shut-out victories in competitive hockey action.

By verdict 7-0 and 6-0 whitewashes of the NAGS and Team Lakeshore respectively, the locals now eagerly await upcoming clashes with Environmental Studies and Science, as well as an exhibition joust with the University of Toronto's Scarborough College team. The Math - Scarborough clash will be part of an exciting hockey double-header on Tuesday, February 10, at the Waterloo Arena with the Math - Scarborough game at 6:15 p.m. preceding the renewal of the Varsity Blues - Waterloo Warrior rivalry slated for 8:15 p.m. Admission is with your Athletic pass. In an earlier meeting at the York Tournament, Scarborough came from behind with a third-period barrage to hand Math their only defeat so far in the 1975-6 season, a 5-1 thrashing. But Math mentor Chris Higgins is confident of revenge, noting that the return of the "Mystery" line of Scott Westmore, Mark Wetmore, Mark Edward and Neil McLean as well as Rob Budd from co-op work-terms has added much needed firepower, in the form of eight goals in two games so far.

Scoring in Games so far

Math "A" 7, NAGS 0

Wetmore	2	Shutout:	McKenzie
Edwards	3		
Fallon	1		
Budd	1		

Math "A" 6, Team Lakeshore 0

Wetmore	1
Fallon	1
Patterson	1
Gagnon	1
Budd	1
Matsui	1

Math "B" 7, Arts 0

Upcoming Schedule

Fri. Jan 30:	Math "B" vs Eng. II
	4:00 pm Moses Springer
Tues. Feb 3:	Math "B" vs Wings
	9:00 pm Queensmount
Wed. Feb 4:	Math "A" vs ESS
	12:00 mid. Moses Springer
Tues. Feb 10:	Math "A" vs Scarborough College
	6:15 pm Waterloo Arena
	Preliminary to Blues - Warrior Game.
	Pat Fallon

The mathNEWS T-shirts are actually here!

