

From a Frosh's Eye View ...

THE GOOD THE BAD AND THE UGLY

Contrary to what the reader might think, this article is not a review of the Clint Eastwood spectacular. I hope you won't be too disappointed. The title just happens to uniquely describe the format and content of this article. The perspective is that of a frosh looking back upon his first week at U. of W. by dividing his impressions and experiences into the three aforementioned categories.

Operation mathstart was a beneficial body of soul. I am deeply indebted to John and Carl (may their future camping expeditions remain itch-free) for aiding me in my quest for a meal, and for their advice. I should also take the time to congratulate Mathsoc on those tasty doughnuts; even the ones without holes were good.

The orientation pubs and movies provided excellent opportunities for bachelors and bachelorettes to meet and talk over new times. I noticed that even warm beer did nothing to dampen the festive mood, but when you're desperate...

The advance U. of W. material I received at home quickened my orientation to campus life. The first landmark I established for myself was the dining room at South Campus Hall. I felt the food prices were reasonable, but then price is not in direct proportion with reason when you haven't eaten for 24 hours.

Thank God (or the campus planner) for installing a bank, P.O. and record store in one building. The convenience the Campus Centre affords the student can, but will not be, expressed in words. My only question concerns the barber. Do U. of W. students patronize him enough to keep him in shears or does the federation subsidize him?

The really lively moments in a math student's life occur when he takes in a Mathsoc "Wine and Cheese Party." Endless permutations and combinations of activity are possible at these functions. For instance: you can sit on Cindy's lap until she yells "uncle" or "boyfriend"; convince Steve that Mathsoc is deceiving him (hell forbid); have a smoke with Rosemary and chide her about having the books not balance; or mix wines and end up at an engineering party with a questionmark but no clue as to how you arrived. Their last names have been obliterated for three basic reasons: (1) I don't know them all, (2) protection of the innocent, (3) entice the rest of you mathies to attend the function in an attempt to discover their identities.

To list all the "good" around the campus would be too time consuming and I'm basically too lazy to bother adding to my list. If you feel there have been any serious omissions we would be glad to print them in the next issue, or better yet, have

VOLUME 3.1

Monday, Sept. 24, 1973

(...2)

math NEWS

INFLATION HITS DOUGHNUTS

Patrons who have frequented the third floor lounge coffee & doughnut (C&D) stand in past terms will have noticed a price increase in doughnuts this term. According to Paul Armstrong, C&D manager, this increase is necessary due to a rise in the cost price, specifically, 23¢ by the supplier, (Donut Queen). Armstrong explained that since C&D is to function on a break even basis, such a price hike was unavoidable. In a further attempt to check costs, the C&D manager informed mathNEWS that he is investigating the possibility of trucking shipments of doughnuts in from Guelph "as the engineers now do." At any rate the price of coffee remains pegged at a dime and pens are still being sold at 15¢ and 30¢.

A new service introduced this past summer, is the addition of Kaiser rolls at

40¢ each. Word has it these were quite popular in the summer and Armstrong notes that at 40¢ they are a real bargain- 5¢ less than those sold by the grad club".

All positions for working at the C&D stand have been filled but apparently there are some problems scheduling workers for the more "inconvenient" hours such as early morning. Hence the possibility of hiring additional help for these hours.

Despite a few setbacks on opening day, namely 16 dozen doughnuts had to be given away and 22 Kaiser rolls ended up in manager Armstrong's freezer, the C&D management is confident of eventually breaking even over the year.

For anyone unaware, the coffee & doughnut stand is situated in the M&C third floor lounge and is open for business from 8:30 to 4:30 Monday through Friday.

you print them.

The fact that first year students aren't allowed priority when the allotting of rooms for the villages takes place is French* to me. (backwards*) The comments of "tough luck" or "so-what?" made by some second and latter year students annoys me. If you counted the positive arguments for both sides, the "veteran" students would find themselves outnumbered like Custer was with Sitting Bull.

Under the heading of bad we could not hesitate to include Enginews. This paper is remarkable similar in content and length to the VD pamphlets that I received in high school. The only tangible difference is, the pamphlets were more appropriately handed out at the beginning of weekends and holidays. The engineers should not be discouraged, however, for great things can be done in a year's time. Although miracles...

Math teachers who prefer computers to secretaries haven't been looking at the right figures lately...Mr. Dyck. Fortunately I have found no evidence of the disease being communicable. Girls, you can breathe easier.

My personal peeve concerns our eight digit ID numbers and the necessity of their constant use. Maybe the math boys will invent something new like the name and address--I understand this method was popular a few years ago.

The last point under this category concerns the unavailability of Rosé at the Wine and Cheese parties after about 10:30

p.m. How about adding Rosé and subtracting amounts of the inferior brands?

Perhaps a few people will be surprised I found something ugly on campus; then again, some may be surprised I didn't find more ugliness. I felt obligated to mention "Brutus" under this category. For you fortunates that missed the concert at Waterloo Park Bandshell, it would be a gross understatement to say "you don't know what you missed." Undoubtedly, the band tried to "give more from down here," because they tripped the circuit breakers three times. The band repeatedly told the audience to "get their rocks off the ground." (The girls were hopelessly confused as to their course of action.) It was a hopeless attempt to get the crowd gyrating. A small number of people did get their rocks off the ground and went home. The lead singer did a paint-by-number job on his cranium and attired himself with sundry articles of girls' clothing. A feeble attempt at Alice Cooper? The remaining members were not as "enthusiastic" as their buddy, and deserve little, if no, describing. The bands at the Federation Pubs and Villages have been good to tolerable--should we chalk this one up to budget cuts?

If you didn't enjoy this article's content, maybe the next issue of mathNEWS will carry a review of Play Misty for Me.

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COMPUSCI CLUB

Tuesday's computer science club meeting started this term's activities of the club. Rick Beach gave a list of 15 projects for implementation on the Honeywell 6050 system. Two films were shown at the meeting: "Man and the Computer in Perspective" and "Information Machine". These were provided by IBM.

A financial report of the club's great resources was given by retiring president Ian MacIntosh. After the report an interesting talk was given by Wayne Langley of IBM on the history of computers.

Elections for new executive were held and Jim Parry was elected president, Ray Walden was elected as vice-president, and Slavko Stemberger and Mario Festival were acclaimed as secretary and treasurer (actual positions to be decided later).

COMING C.S.C. EVENTS:

Oct 11- Trip to IBM Data Centre and Customer Engineer Training Centre in Toronto.

Week of Nov 5- Old Computer Nite (films)

If you are interested in the Computer Science Club, the next meeting is Tuesday, Sept 25, or contact Jim Parry MC 3013A ext.2337

< antiantiCALENDAR >

Coming Monday, September 24th---the ANTICALNDAR (maybe).

Why is the Anticalendar late (as usual)?

Because, as MathSoc President Cindy Harris admitted, "there was a screw-up".

Back in April it was finally decided, after much argument, that a total of \$2500 (\$1000 from the federation), would be spent in producing 2000 copies. Sometime during our long hot summer, the matter became very confused, resulting in people believing that the entire budget was to be spent on 200 copies.

When the executive returned in the fall they held up the printing until they could clarify the situation. They discovered that there was about \$2000 left of the budget. They decided they would have as many copies as possible printed.

The \$2000 is sufficient to produce 1500 copies, of which 200 will be placed at "strategic" locations on campus, while the other 1300 will be up for grabs.

Is the anti-calendar really useful?

In its present form--NO! I formed that opinion after trying to pick out the worst Math profs for an article. There is no real way to effectively compare profs.

Fortunately, someone is taking action on the matter, and there will be a meeting in early October to design a new questionnaire to measure our profs.

So gather your ideas and drop around to this meeting (to be announced).

18/9/73

MATHSOC MEETING

After deciding against holding its first meeting for the fall term in stereo (room 2065), the eight voting Mathsoc members plus twice that many "visitors" trudged up to 3011 to begin a lively session.

First item of business was ratification of new executive. Rosemary Van der Akker was accepted as treasurer and Susan Berg as secretary. These positions became vacant after this year's scheduled treasurer transferred to Arts and the proposed secretary joined the army. Wally Romanski was named Pubs & Pubs Director.

A series of reports, on lockers (all 438 have been allotted), keys (a list of the keyholders to the Mathsoc office is to be submitted to security) and coffee & doughnuts (a special C&D tap has been installed in the men's washroom at a cost of \$100, a source of cheaper doughnuts is being investigated).

The business began with a lively discussion on the anti-calendar (1500 copies should be available Mon. Sept. 24). By-elections are planned (see details elsewhere in this issue). A list of all committees requiring student representation was given.

Due to the fact that a Mathsoc budget for the year has not as yet been determined, it was decided that mathNEWS be allowed enough money to publish the first issue. Following a motion to set up a committee to possibly revise the constitution the meeting was adjourned.



FAC stats

"There is a slight increase in co-op, and regular is about the same as last year," so said Gary Buckley, Reports Officer in the Registrar's Office, as he summarized this year's undergrad math enrolment.

The overall campus picture shows that 10,585 students preregistered with 9435 being officially registered by September 12 th. If the 1692 co-op students are included the present undergrad enrolment is 12,277.

The breakdown for the Math Faculty reveals that as of September 12 (figures in brackets indicate number of students who pre-registered) 2176 (2313) had registered for the fall term. Included in the total are regular 1300(1410); co-op 876(903) and St Jerome's 74(75). An additional 414 co-op mathies currently on work terms bring the undergrad math total to 2590(2727).

C A L E N D A R



tues. sept. 25

- 9:30/ E.M.S. LI-
- 1:30 BRARY TOURS
M&C
- 2:00 CO-OP MATH
JOB LISTINGS
POSTED.
- 7:00 CONCERT CHOIR
REHEARSAL, A.
L. 113
- 8:00 DIARY OF A
MADMAN, HU-
MANITIES
THEATRE

wed. sept. 26

- 9:30/ E.M.S. LI-
- 1:30 BRARY TOURS
M&C
- 2:00 CO-OP MATH
JOB LISTINGS
POSTED.
- 8:00 TRANSCEND-
TAL MEDITA-
TION LEC.
M&C 2065

thurs. sept. 27

- 9:30/ E.M.S. LI-
- 1:30 BRARY TOURS
M&C
- 8:00 FED FLICKS
FISTFUL OF
DYNAMITE/
GAILY, A.L.
- 8:30 FED PUB
F.S.
- 8:30 C.A. STU-
DENTS PUB
FAC~ CLUB

fri. sept. 28

- 9:30/ E.M.S. LI-
- 1:30 BRARY TOURS
M&C
- 8:00 FED FLICKS
FISTFUL OF
DYNAMITE/
GAILY, A.L.
- 8:00 TONY VAN
BRIDGE,
THEATRE OF
ARTS
- 8:00 K.S.A. ROL-
LER SKATING
PUB, GLEN-
BRIAR C.C.

sat. sept. 22

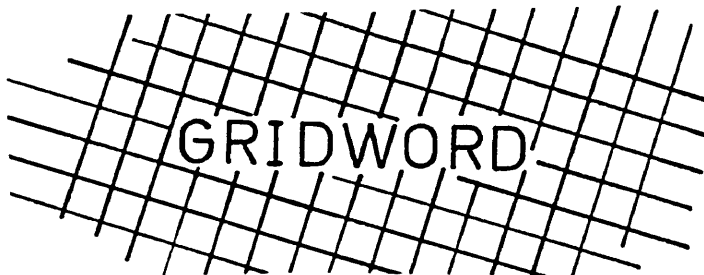
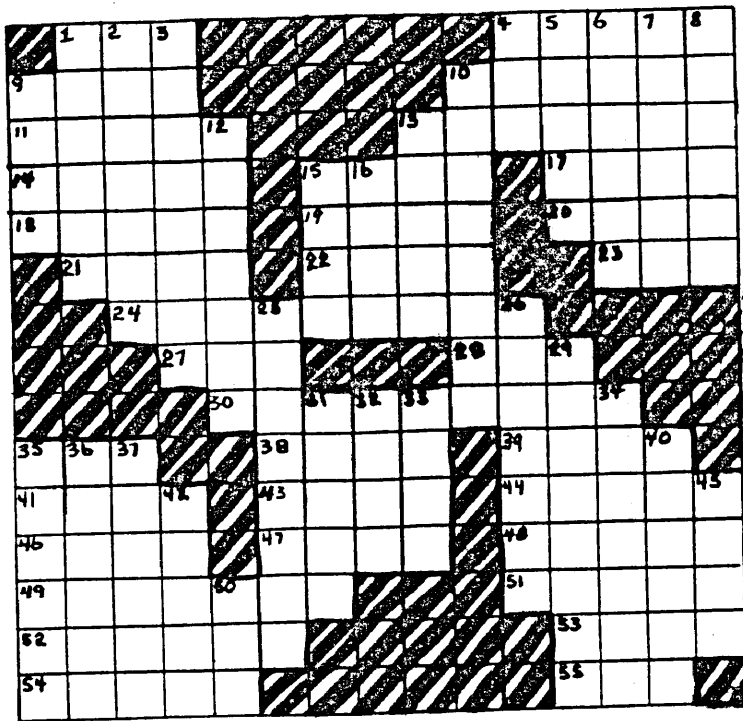
- 2pm FOOTBALL-
WESTERN AT
WATERLOO
- 8:30 FED PUB-
SNAKEYE F.S.
- 8:00 FED FLICKS
LADY SINGS
THE BLUES/
DOWNHILL
RACER A.L.
- 8:30 GUESS WHO &
GREASEBALL
BOOGIE BAND
P.A.C.

sun. sept. 23

- 8:00 FED FLICKS
LADY SINGS
THE BLUES/
DOWNHILL
RACER, A.L.
- 8:00 DIARY OF A
MADMAN, HU-
MANITIES
THEATRE

mon. sept. 24

- 9:30/ E.M.S. LI-
- 1:30 BRARY TOURS
M&C
- 2:00 CO-OP MATH
JOB LISTINGS
POSTED,
- 8:00 DIARY OF A
MADMAN, HU-
MANITIES
THEATRE



DOWN

- 1) Belonging to a Texas shrine
- 2) Lured
- 3) Specific
- 4) Lever
- 5) Musical symbols
- 6) Bars from legally
- 7) Arenas
- 8) Good-bye(2 wds)
- 9) National symbol
- 10) Simulation
- 12) Called(2 wds)
- 13) Arson, for one
- 15) French father
- 16) Latin wife
- 25) Old wall paintings
- 26) Inns
- 29) Strayed
- 31) _____ the Younger: 2nd Century conqueror
- 32) Assess worth of
- 33) Burl _____
- 34) Member of Pro Bowlers Tour
- 35) Old TV show
- 36) Soothing drug
- 37) Unusual paleness
- 40) What to do with an envelope
- 42) Crazy birds
- 45) Toboggan
- 50) Born

ACROSS

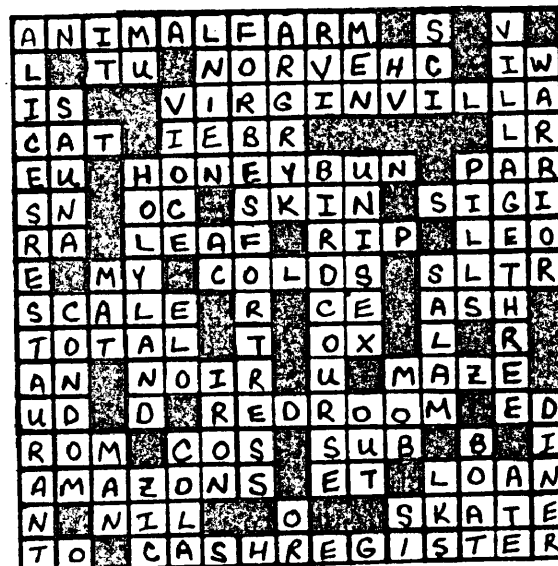
- 1) Eroded
- 4) Iron
- 9) Bend
- 10) Abracadabra
- 11) Lights
- 13) Thin glassware
- 14) Abundant
- 15) Unspolled
- 17) What "faire" and "tun" are in English
- 18) Climbed aboard(2 wds)
- 19) Stage direction
- 20) Rotate
- 21) Religious group
- 22) European capital
- 23) Droop
- 24) Asimilar
- 27) Rocky peak
- 28) "Sing me no _____ songs"
- 30) Brief rests
- 35) Lawman
- 38) A certain European
- 39) Gabor and namesakes
- 41) Multicoloured gem
- 43) Quote
- 44) Angers
- 46) Venus de _____
- 47) Units
- 48) Of the Navy
- 49) Hogwash!
- 51) Fence steps
- 52) Amends
- 53) Girl's name
- 54) Short
- 55) Morse signal

GRIDWORD COMMENT

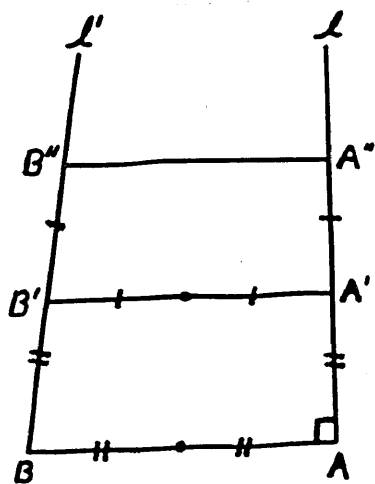
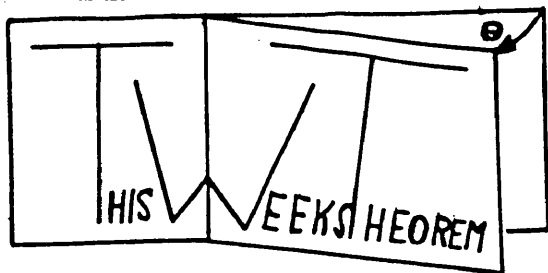
The winners of the last Gridword (special Frosh Issue) are Bruce Atchison, Dave Higgins, and Ian Milroy. Drop around MathSoc and pick up your free T-shirts (1 each). This week's gridword is courtesy of Norm Macdonald.

RULES: Person who submits an acceptable gridword gets a free T-shirt.

All solutions must be in MathSoc office by 5PM Tuesday 25th. The winner will be picked at random from all correct answers. The prize, naturally, is a free T-shirt.



*****LATEST SOLUTION*****



Theorem: Two lines, one of which is perpendicular to a third line, never meet.
Proof: Let the perpendicular line be l , the other l' , and the point where they meet the third line be A and B respectively. Construct the points A' and B' on l and l' such that $AA' = BB' = 1/2AB$. AA' and BB' do not intersect, as if they did we would have a triangle with two sides $\leq 1/2AB$, and one side $= AB$, a clear impossibility. Now construct A'' and B'' on l and l' with $A'A'' = B'B'' = 1/2A'B'$. We can apply our previous argument to $A'A''$ and $B'B''$. We can repeat the constructions as long as we wish. Therefore, the two lines never meet.

IMPURE MATH

Once upon a time (1/T) pretty little Polly Nomial was strolling across a field of vectors when she came to the edge of a singularly large matrix.

Now Polly was convergent and her mother had made it an absolute condition that she must never enter such an array without her brackets on. Polly, however, who had changed her variables that morning and was feeling particularly badly behaved, ignored this condition on the grounds that it was insufficient and made her way in amongst the complex elements.

Rows and columns enveloped her on all sides. Tangents approached her surface. She became tensor and tensor. Quite suddenly, three branches of a hyperbola touched her

at a single point. She oscillated violently, lost all sense of directrix and went completely divergent. As she reached a turning point she tripped over a square root which was protruding from the erf and plunged headlong down a steep gradient. When she was differentiated once more she found herself, apparently alone, in a noneuclidan space.

She was being watched however. That smooth operator, Curly Pi, was lurking inner product. As his eyes devoured her curvilinear coordinates, a singular expression crossed his face. Was she still convergent, he wondered. He decided to integrate improperly at once.

Hearing a vulgar fraction behind her, Polly turned round and saw Curly Pi approaching with his power series extrapolated. She could see at once, by his degenerate conic and his dissipative terms that he was bent on no good.

'Eureka', she gasped.

'Ho, ho', he said. What a symmetric little polynomial you are. I can see you're bubbling over with secs.

'O Sir', she protested, 'Keep away from me. I haven't got my brackets on'.

'Calm yourself my dear', said our suave operator, 'Your Fears are purely imaginary'.

'I, I', she thought, 'perhaps he's homogeneous then'.

'What order are you', the brute demanded.

'Seventeen', replied Polly.

Curly leered. 'I suppose you've never been operated on yet', he asked.

'Of course not', Polly cried indignantly, 'I'm absolutely convergent'.

'Come, come', said Curly, 'Let's off to a decimal place I know and I'll take you to the limit'.

'Never', gasped Polly.

'Exchlf', he swore, using the vilest oath he knew. His patience was gone. Cushing her over the coefficient with a log until she was powerless. Curly removed her discontinuities. He stared at her significant places and began smoothing her points of inflexion. Poor Polly. All was up. She felt his hand tending to her asymptotic limit. Her convergence would soon be gone forever.

There was no mercy, for Curly was a heavyside operator. He integrated by parts. He integrated by partial fractions. The complex beast even went all the way around and did a contour integration. What an indignity. To be multiply connected on her first integration. Curly went on operating until he was absolutely and completely orthogonal.

When Polly got home that evening, her mother noticed that she had been truncated in several places. But it was too late to differentiate now. As the months went by, Polly increased monotonically. Finally she generated a small but pathological function which left surds all over the place until she was driven to distraction.

The moral of our sad story is this. If you want to keep your expression convergent, never allow them a single degree of freedom.

math ETICS

Extra-curricular activities are as much a part of university life as academic pursuits and the Math Society plays a key role in the operation of these activities. One such role is as the sponsor of Math teams in the intramural athletic program.

The athletic program at the University of Waterloo is generally divided into the intercollegiate program and the intramural program. More information about the former can be obtained from the athletic department in the Physical Activities Complex. It is the purpose of this column to give some insight into the operation of the intramural programme so that students, especially first year mathies, will be able to participate to a greater degree than in past years.

FORMAT: The intramural schedule is divided into four main categories that are designed to appeal to different interest groups. The four levels are:

1) **Competitive:** This level of activity can be for both highly-skilled and the lower skilled athlete. Math teams in such sports as flag football, basketball, hockey, soccer, lacrosse and broomball are usually entered. However, it is hoped that teams will be entered in both A and B divisions for the major team sports so that any Math student, no matter what his ability, may participate. Also these activities are offered to the girls as well with the broomball and soccer teams entered as Co-ed. Individual activities such as badminton, snooker, tennis, golf, table tennis, swimming, bowling, track and field and wrestling are offered at the competitive level usually on a double elimination tournament basis. But again the key point is that the emphasis is on participation for all and the participation except on occasion (golf fee) is free of charge.

2) **Recreational:** Possibly the most popular level of activity in the intramural program. The recreational branch encompasses a wide range of events ranging from free time basketball shooting to the ever popular inner-tube water polo. Some of the recreational events are: free time squash, tennis and swimming with signing up necessary for the first two, broomball, three-man basketball, hockey and volleyball (both co-ed and men's). The free time concept is still the major part of the program while the team sports run on a low competitive schedule with no officials. The gymnasium is open every day of the week except Saturday night and Sunday

morning but the best time for individual usage is weekday mornings.

3) **Instructional:** The purpose of this level of activity, offered in 19 different sports, could be either to increase one's skill in an event or to learn a new skill. Qualified instructors supervise the program in golf, karate, judo, wrestling, fencing, swimming and many more at no charge to the student.

4) **Clubs:** Clubs in whitewater, skuba diving, skiing, badminton, fencing, rigger, archery, curling, bowling, sailing and weightlifting are open to all students with nominal registration fees in some of the more expensive groups.

Math Unit Structure: The unit structure for intramural participation is based on residence first and faculty second. A student living on campus should play for his village or church college unit but may obtain a release from his or her intramural representative on the Uniwat Intramural Athletic Council. A student living off campus owes his first allegiance to Math teams but can obtain a release to play for another unit. If a student's unit does not field a team in a given sport then he becomes a free agent and can play for whomever he wishes. The same applies if a team does not have room for him. It is the policy of the Math organization that any player will be given the opportunity to participate.

Math is represented by two units Regular and Co-op. While a student should play for the unit in which he is registered, cases where only one team is needed will permit regular students to play for Co-op and vice versa.

Mathletics 1972-1973: Math entries have more than held their own in competitive Intramurals over the past few years. The Regular Math hockey team has won four consecutive term championships and in doing so has lost but one game in 39 contests. Last winter Reg. Math won 19 out of 20 games and tied the other and captured the first annual University of Waterloo Invitational Tournament involving 6 Southern Ontario universities.

In basketball, Co-op Math is a perennial powerhouse and have reached the finals twice in the past 2 years. The fall of '72 saw Math capture its first lacrosse championship and Co-op Math were dethroned as soccer champs. Individuals representing Math have shone in golf, badminton, table tennis and basketball one on one.

But remember, the important aspect is participation. While you may have to try-out for some teams (hockey), there will be a team for everyone who wishes to play. Individual tournaments encourage all to play with a consolation round for first-round losers. So remember, it's your

program and it can be as good as you want to make it.

Interested persons should sign-up on the forms provided on the athletics bulletin board, M&C third floor across from the lounge.

Here is a listing of upcoming events:

SPORT	ENTRY DATE	LEAGUE STARTS
FLAG FOOTBALL	TUESDAY SEPT. 25	MONDAY OCT. 1
LACROSSE	TUESDAY SEPT. 25	TUESDAY OCT. 2
SOCCER	MONDAY SEPT. 24	TUESDAY OCT. 1
CO-ED VOLLEYBALL	TUESDAY OCT. 2	MONDAY OCT. 8
ICE HOCKEY	FINAL WEEK OF SEPTEMBER	
FLOOR HOCKEY	THURSDAY OCT. 4	APPROXIMATELY 1 or 2 WEEKS AFTER ENTRY DATE
CO-ED SQUASHBALL	TUESDAY OCT. 9	
CO-ED INNER-TUBE WATER POLO	WEDNESDAY OCT. 3	
BALL HOCKEY	WEDNESDAY OCT. 3	

sound-off :

HASSLES

There has been a rumor circulating that student power is dead. I can happily report that it is still alive and breathing, or at least gasping. The students, who occupy the lowest rung of the university hierarchy, can still influence the system if they act with unity.

INTERCOURSE IMPOSSIBLE !!

Through a "slight" administrative error, French 105 had one class of approximately fifty students. The normal limit for an oral class is 24 (the number of seats in the lab), and even a group of this size makes student - prof intercourse impossible. Before the beginning of lectures the prof appealed to the department head to split the class in two, and this was agreed upon. When it was time to act, there was no money, so the prof was told to ask half her class to leave. Since there were only a handful of volunteers, and the teacher was unwilling to "volunteer" anyone, we were at an impasse. Showing a remarkable lack of apathy, the class, as a group, went to see the Dean of Arts. His schedule was full for the next three days.

FRONTAL ASSAULT

Realizing that a frontal assault would not work, we attacked from the flanks. French 105 is a "service" course, which means that the Faculty of Arts offers it as

a service to non-Arts students. These courses are funded, as a group, by the non-Arts faculties. The students of French 105 went to their deans in groups. Later that day the Deans of Math and of Science spoke to the Dean of Arts. Next thing we knew there was "suddenly" enough money to pay another prof.

It is disappointing to learn that the system was willing to ignore a class of fifty students. It is more annoying to find out that it takes a show of force to untangle red tape—reason does not seem to work. Let's hope that changes.

ALSO: I thought the purpose of pre-registration was to determine how many sections were needed for each subject. Why do we get language classes of fifty, and why must people sit in the aisles for other classes?

MATHSØC ELECTIONS

There will be a Mathematics council by-election on Wednesday, October 10 for the following positions:

Three (3) first year reps

One (1) 2A rep

One (1) second year regular rep

Two (2) third year regular reps

Nomination forms are now available in the Mathsoc office, M&C 3038. Nominations close Wednesday, October 3 at 5:00PM.

GET INVOLVED

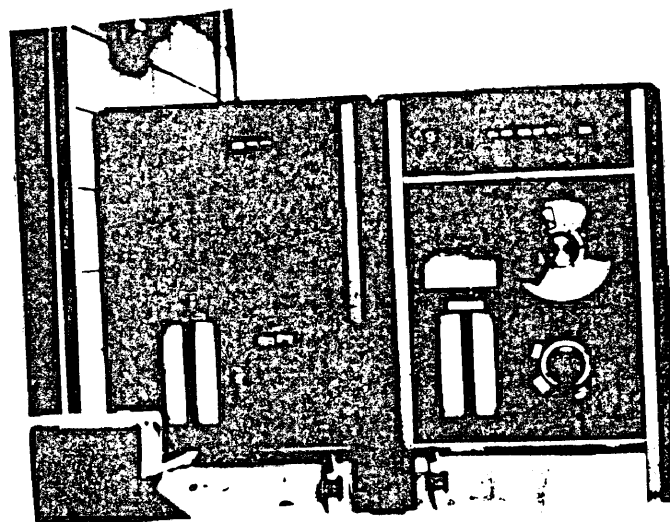
Students are needed to serve on several committees on campus, and especially within this Faculty. The following positions are open:

1. Undergraduate Curriculum Committee. This is the body which is the main co-ordinator of courses and course content for this Faculty. All recommendations from Departmental curriculum committees must pass through this body before going on to higher levels. One voting position open.
2. Student's Advisory Council for Co-ordination. These positions provide input from Math co-op students to the Co-ordination Department. This Committee is Campus-wide. There are two voting positions open, to be filled by co-op students only.
3. Applied Analysis and Computer Science Curriculum Committee. This body is generally responsible for course creation, deletion, and modifications within the AA&CS Department, as well as for making recommendations to the Faculty Curriculum Committee as to core courses, calendar entries, degree requirements, and the like. One voting position is available.
4. Faculty Council. This body is the general administrative body of the Math Faculty. It handles those Faculty affairs which are not directly linked to course content, but Faculty Curriculum Committee recommendations must pass through here eventually. There are four positions available here.

These positions are important; they are in many cases the primary outlet for student wishes, and must be staffed with people who are sincerely willing to put some work into making our student voice effective and meaningful. Many students clamour for more student representation; let's prove that we deserve it.

HORSE SENSE

There was once a brilliant horse whose owner was able to teach it almost all of higher mathematics. This genius horse could do Algebra, Calculus, Topological Transformations, Reimann Geometry, Probability and Statistics, Information Theory, etc, etc, etc. But the same horse, surprisingly, was completely unable to understand (Descartes) Cartesian Co-Ordinates. All of which goes to prove that one should not put Descartes before the horse.



the phantom reports....

Well, as you have no doubt guessed (having read this far), mathNEWS is back for another term. Unlike mathNEWS, a lot of computer courses aren't (not the content anyway).

Anyone who remembers Math 132 (now A and B), will be pleased to know that Fortran is no longer the major first-year language. Unfortunately COBOL is. (Is it any wonder tutorials go 'til 8 - 10 at night?) Oh well, you can't win them all.

132B should be fun too. After playing around with SPECTRE MAP and GMAP, a new thing, alias WATMAP, which should go well with 132A since it is written in COBOL (what else would you simulate an assembly language in?) has been put together. It should be an exceptionally complete assembly language with an operating system and I/O channels and interrupts and a lot of other faked up things (even fake hardware). The real problem will probably be getting the people who have to teach it, to learn it.

Math 240B (which, as we all know, comes before 240A) has also been given a face-lifting. You now learn ALGOLW (no, not ALGOL, ALGOL W which is most emphatically not the same thing) and SNOBOL (no comment) and L6 (supposedly a list processor). If you've never heard of this last one you are not alone. As a matter of fact, not even the computer has heard of it yet. It seems there are now negotiations going with Bell Labs (where does software come from these days) to get it for later this term. If anyone gets through all that they'll learn PL/1 as a filler.

Anyone who remembers that we were going to get an update on APL over the summer will not be surprised to know that we'll probably have it up by November.

The 'Bun, by the way, has a new subsystem which appears right after FORTRAN in alphabetical order (poetic justice). I'd tell you what it's called, but this isn't Enginews.

Prof of the Week

(Note: Last term, the Summer mathNEWS staff initiated a "meet-the-prof" column. Feedback to the idea was generally favourable. Hence this term, mathNEWS plans to continue this column.)

"Our Prof" of the week is a considerate man who is always willing to help. He wants to know his students on a first-name basis, and was very co-operative when approached about this interview. He gave some time to build "atmosphere", through talking, and wrote most of the following column himself at short notice. I am only paraphrasing.

Professor Arnie Dyck was born in the town of Niagara-On-The-Lake, May 27, 1945. It was a large family; he was the first of six boys.

Raised on a fruit farm, he attended schools in the Niagara area until he came to the U of W campus in the fall of 1963. He considered himself to be a naive freshman.

There was no math faculty in "those days", so arts seemed to be a logical choice. Apparently even profs have good times, and Prof. Dyck failed his second year. HOWEVER, he pulled up his socks and doubled his average the second time around.

This caught the eye of various persons, and he enjoyed teaching. Thus it was lucky he failed. Undergraduate summers were spent tutoring in calculus and computer science labs. The experience not only convinced him that he wanted to teach for a living, but also allowed him to act as a lab leader in Math 132 during his Master's years.

He received both a B.Math and an M.Math here at U of W. After graduation he was faced with the option of working for a living in the computer industry, go on to a Ph.D, or teach. There just happened to be a teaching/administrative post in the Computer Science dept., so Prof. Dyck has fulfilled his ambition (or part of it anyway).

Coming up through the ranks as he did, the prof. feels that he has a better perspective with which to approach students: he struggled through the same classes and can understand the worries about possible failures.

In his first year of teaching (4 years ago), he was not entrusted with Math students, and taught Math 132 to Arts and Science students instead. One of his students, Louisa Jane Eastwood, took the course as an extra, but "fortunately"

decided to drop it. That was how she and the Prof. met. They are now happily married: she is a Psych graduate teaching nursery school.

Presently Prof. Dyck is a lecturer and "Undergraduate Officer" in the dept. of Applied Analysis and Computer Science. He teaches all the Co-op Math 132 students, numbering approximately 420 in all. He has no other classes, but also assists his department chairman with a number of administrative matters. Committees include:

- (1) Faculty Admissions Committee
- (2) Faculty Standings And Promotions Committee
- (3) Faculty Timetable Committee
- (4) Department Curriculum Committee

Many of these duties he has asked for, primarily so he knows more of the answers when students ask the "red-tape" type of questions.

Being a "home-grown" product of the university, he feels that he has been brainwashed about it. He has seen it grow from a large high school atmosphere of 2500 students to the point where there are that many students in Math alone. "It's been amusing to watch the U of W landscape change from a stark building or two in a pasture to the relatively beautiful campus it is today. Most students don't see it at its summer relaxed best. There's been a continuous diet of instant grass and instant trees over the years (and) though I appreciate the beauty, I sometimes do question it's necessity."

He is convinced of the benefits of the Co-operative programmes, and feels that if he had to go through university again, he would do it.

Prof. Dyck enjoys his job immensely- for many reasons. The variety involved allows him to express the various facets of his personality. He enjoys working with people, finding teaching and explaining things a real challenge, particularly in the large first year classes. Though acting as an undergraduate officer is time-consuming at times, it gives him a chance to get to know students on a more personal level, plus it allows them to know him on a more human level as well. That is one of his prime goals-to put more humanity into the system.

He believes he has a mania for organizing things, and has a fascination for computers because he enjoys figuring out how things work.

Prof. Dyck then added a few comments about MATHSOC and mathNEWS which I was very glad to hear. He told me that he wouldn't get any breakfast without the doughnut stand sponsored by Mathsoc, and that he would rather read mathNEWS than the Chevron.*

Let us hope all our profs are so approving.

*He also thinks that having a "Prof of the Week" column is a very good idea, because it makes the professors appear to be human beings. He feels this makes the profs more appreciable.

FEEDBACK

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.

Nope!

mathNEWS,
I am an engineer who worked on the mathNEWS during the summer of '73 and am very interested in watching its development. Would you please send me a copy of the mathNEWS when it is published. Thank you,
David Spence, "The Plummer"

C.Y.G.W.T.S.F?

Tours of the EMS Library (4th floor Math & Computer Building) will be conducted Monday to Friday September 24-28 at 9:30 am and 1:30 pm and October 1-5 at 10:30 and 2:30. The tours will leave the reception desk, and will be approximately 20 minutes long. There will be demonstrations of how to use resource material, how to find course-related materials, where to find mathematical tables and solutions to problems, where to find the washrooms, and other information which, according to an unimpeachable source close to the reference desk, will be valuable to the student, both before, and after graduation.

The library has facilities for studying, Xeroxing, and socializing (quietly). It's open 24 hrs a day during the week.

mathNEWS will print your classified ads FREE OF CHARGE. Just jot them down on a slip of paper, take it to room 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, M&C 3038. mathNEWS, M&C 3038.

- FOR SALE: 1 Psych text "Psychology" by Silverman. \$5.00 Phone 884-6859. Ask for Dennis. OR, drop around to MC 3011 Tuesday nites.
- FOR SALE: 1969 Norton Commando 750 c.c. motorcycle. Only 8000 miles, plus windshield carrier and crashbars. Asking \$750 or best offer Phone 1-623-1605 (Galt)
- LOST: Brown leather purse on 5th floor Math & Comp. Building. Please contact Diana Hazelden Ph. 579-0625. Thank you.
- TV GUIDE: Recommended: Tuesdays at 10:30 on Channel 19 "Here We All Are"
- ATTENTION! The third floor lounge is your lounge. You are the only ones who can keep it clean. Please clean up the tables before you leave. Thank you.
FOR SALE: Electric Guitar. Good condition. Ask for Dixie 884-3134
- PERSONAL: Thanks to Dennis? and his friends who helped me home after I drank too much at the wine and cheese party. Sorry I couldn't get your names and thank you properly, but I was in no condition to do so.

drop ~~AN~~ add

This is just a reminder that the deadline for adding courses is Friday, September 28, and Monday, November 5 is the day for dropping courses.

mathNEWS - a newsweekly 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: 1000. Finding ourselves in a rather unusual situation ie swamped with help (would you believe 2 dozen people? typists who can actually type? no tooth and nail struggles for terminals? ...) the following were responsible for this our first issue of volume 3: Dennis Mullin, Peter Raynham, Dave Wawrykow, Paul Lear, Andy Seibel, Claudio Zulian, David Brown, Jan Verster, Peter Lee, Pandall McDougall, Barb Maine, Ingrid Spletstoeser, the Phantom, Jason Miller, Peter Stevens, Mark Shields, Mark Saaltink, Paul Armstrong, David Canzi, Hans Rempel and John Peebles.