

Volume 30

Number 0

math **NEWS**  
**FRSHE**  
**ISSUE**

**1982**

## MathSoc Orientation Meeting People — Having Fun

I know what you're thinking.

You're telling yourself that you've got it made. You've been accepted at University of Waterloo and you're looking forward to meeting all those new people.

We're here to help you. If you are a bit shy and your opening lines will be "Hi... umm... I'm Jim and... um... well... um...," then we (they call us MathSoc... I'll explain why in a paragraph or two) can save you a lot of embarrassment.

MathSoc (I told you I'd explain) is the University of Waterloo Mathematics Society. Now I can hear you asking what a Math Society does. Do these people just sit around and differentiate everything? Do they spend their spare time (and yes, there is a little of that) proving by induction?

No!

We at MathSoc, and specifically those of us who have spent many hours planning for your arrival, are here to remind you that University is not all work and no play. (On the other hand, we know better than to make it all play and no work... this has been the voice of experience speaking.)

Orientation is just what the name implies. We will help you get used to this place, to the big grey building we all know and love and call the Math and Computer building. We can give you the inside info about which courses are useful, which professors are worth getting, why you have to write a resume (if you're co-op) and even explain why MATH 000 appears on your timetable. We know the places to eat, the places not to eat, and, if you are lucky, the Epsilon-Delta Definition (about two weeks into the term you'll get this joke).

But mostly we are here to help you meet other people. To help you to realize that you are not the only one who doesn't know where the bookstore is, or who thinks WIDJET sucks (wait about two or three weeks for this joke, too).

What we've done is to divide you up into "teams" for Orientation Week (September 8 to 11). Each team will be headed by a Big Brother or Big Sister who is a member of the Orientation Committee and whose name is included in this package along with all these

other goodies. I call each group of frosh a "team" because it's easier to write than "a group of frosh headed by a Big Brother or Big Sister". Being a Mathie, I tend to keep my terms short and concise (except when writing a work report).

Now I know you are just dying to know all our plans for Orientation. Even if you aren't, read on. It will be worth your time.

Wednesday, September 8 starts the whole week off. (Only in Waterloo do weeks start on a Wednesday and last only four days.) To show you how well organized we are let me explain that Wednesday is still under construction. We had a wonderful day planned out for you but forgot that the Faculty did too. So what is definite for Wednesday is the Orientation Talks by the Faculty members, the English Language Proficiency Exam (neither of which are organized by MathSoc) and, at 10 p.m. in the third floor lounge, MathSoc Orientation begins. We present... the Coffeehouse. Come out. Enjoy the music and skits. Meet your fellow frosh and look for your Big Brother or Big Sister. And who knows what surprises we have planned? Well, I do! But I'm not telling.

Thursday at 12 noon we'll see you on the third floor of the Math building as we prepare for the Scavenger Hunt. At noon, the teams will be set free to collect all sorts of wonderfully original collectables. Now I have already issued a challenge to my fellow Big Brothers and Big Sisters that my team will be unbeatable at this event. (I'm Dave Graham, by the way. Right now, I'm hovering between third and fourth year.) So, if you want to prove me wrong (or right, if I'm your Big Brother) show up Thursday at noon. That's the third floor in the MC building.

But wait... Thursday has just begun.

Depending on your choice, a bus will be waiting on Ring Road in front of the Campus Centre Thursday evening to take you out on the town.

At 6:00 p.m. the pub crawl, on which you'll be introduced to the great bars in Kitchener-Waterloo, takes off. Don't forget your ID.

For those of you who want to take it easy (or who can't find any ID... you know what I mean... you left

it in your wallet or your other purse), we're planned a Fun Crawl which takes off from in front of the Campus Centre at 7:30.

But wait... Thursday goes on and on and on and on...

After the crawls, it's over to Village 1 for an "All-Nighter" in the Dining Hall. Music and dancing till the wee hours.

And then, sleep!

Friday afternoon at 2 p.m. (wow, lots of sleep!) we meet on the road by the Math building for the Magical Mystery tour. I can't tell you much about it (why do you think the word 'mystery' is included?) except that you will be whisked away for most of the afternoon and evening to places unknown to do things unknown with people known (after all, you've been here for two or three days now). Don't forget your redeemable coupon. I can't tell you what it's redeemable for... that's another mystery.

Saturday we meet in front of the Campus Centre (by this time you'll be calling it the CC) at 10 a.m. for a trip to the beautiful Elora Gorge. And last, but not least, on Saturday night MathSoc presents a Casino Night and pub at 8 p.m. in a very secret place (you'll be told during the week). Don't miss this last event. It promises to be a biggie!

On Sunday we relax. I'm looking forward to Sunday already. I can start unpacking and find my schedule. I can hardly wait.

On Monday classes begin. That's reality.

But just think how much better lectures will be now that you know a few people, now that you've bought your books, now that your Big Brother or Big Sister has helped you get your courses straightened around.

If only I could remember the Epsilon-Delta definition, everything would be perfect. Oh well; you can't have everything!

See you Wednesday, September 8 on the third floor of the Math building. Until then, enjoy what remains of your summer.

Dave Graham  
for MathSoc Orientation

## You and Your Big Brother OR You and Your Big Sister

When you arrive on campus and wander into that huge grey building called the Math and Computer building, you are going to hear a lot of talk about your Big Brother or Big Sister.

This person is not your older brother who is in third year at Western or your sister who graduated last year from U. of T. No, we're talking about your University of Waterloo Big Brother or Big Sister.

Somewhere in this envelope of goodies is a piece of paper saying something like "Your Big Brother (or Big Sister) is \_\_\_\_\_ (this is where the name goes). He or she will be waiting to meet you on Wednesday, September 8th on the third floor of the Math Building. If you can't find him/her there, his/her address is \_\_\_\_\_ (this is where the address goes) and his/her phone number is \_\_\_\_\_ (Can you guess what goes here)". Find that piece of paper now, memorize the information and destroy the evidence (oops... too much *Mission: Impossible* for me!).

When you get on campus, make an effort to find this person. He can help you find your way around campus, can introduce you to many other Frosh (that's you, by the way!), can tell you about all the events we have planned for this week, and might even treat you to some sort of refreshment.

Your Big Brother or Sister is not intended to be a tutor later in the term but can probably give you a hand now and then (or at least tell you who can help you). We can quite simply be someone who is willing to sit and talk if you need to talk. Not for the first week but for the whole term, if not longer.

How will you find your Big Brother or Sister on Wednesday? Well, the Faculty has arranged lectures for you to tell all sorts of valuable stuff on that day. Meanwhile, the Orientation Committee will be waiting on the third floor of the building all day and one of these people is guaranteed to be your Big Brother or Big Sister.

How will you know which one of these people is the one for whom you are so desperately searching? Well, we've thought of that, too! Somewhere on the third floor, either in MathSoc's office (MC 3038) or in a display window will be a photo board of all the Big Brothers and Big Sisters. All you do is locate the picture you are interested in and start hunting for that person. To make this exciting game a little easier, every Big Brother and Sister will be wearing a shirt with his/her name on it. Find your Big Brother or Sister, introduce yourself,

meet people. And if you can't find the person you're looking for, start asking people. Somebody will be able to help you.

Wednesday night's coffeehouse is another good time to find your Big Brother or Sister, and to sit and talk over a coffee (or a hot chocolate). If you still haven't found your Big Brother or Sister after about an hour or so, MathSoc president Steve Lightstone (also known as CAPS) has promised me that he will be very valuable at the door of the coffeehouse to point out your Big Brother or Sister. CAPS knows everyone.

Your Big Brother/Big Sister will be participating in all the week's events and is very eager to meet you at them.

So be sure to be on the third floor of the Math Building Wednesday to look for and meet your Big Brother or Sister. We'll be looking for you.

Dave Graham  
for MathSoc Orientation

ISSN 0705-0410

mathNEWS is an infrequent phenomenon produced by the University of Waterloo Faculty of Mathematics students. It is funded by the University of Waterloo Mathematics Society and is produced by an all-volunteer staff. Content is the responsibility of mathNEWS staff and editors. Any inquiries may be directed to:

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## The Dean's Message

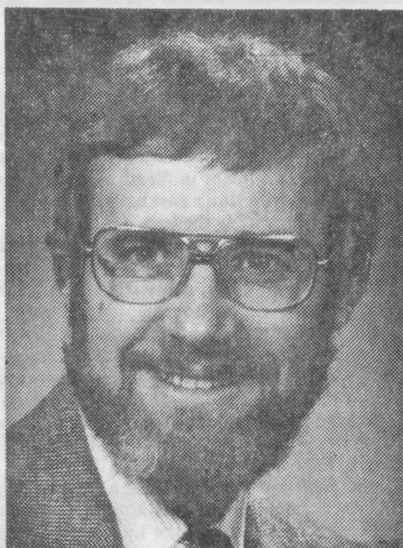
Welcome to the Faculty of Mathematics. For a few days you may feel a bit lost, but it may be some consolation to know that you almost certainly have lots of company! Senior students, faculty and administrators will be glad to help you find your way around, so don't be afraid to ask for guidance. OPERATION MATHSTART, operated in Room 5158 of the Mathematics and Computer Building, is a good place to find information, and to meet professors and fellow students. (The free pop and doughnuts are good too!)

We think you will find our Faculty an exciting and challenging place. Of course, you are ultimately responsible for your success here, but we do our best to provide a pleasant and stimulating environment in which to study and learn. For example, some of you might want to get involved in the Putnam Mathematics Competition, which is written by students from several hundred colleges and universities in North America, and in which we invariably place in the top ten. The Computer Science Club is very active, and has numerous interesting guest speakers, who are experts in various areas of Computer Science.

As a computer scientist, I am well aware of the numerous opportunities for graduates in Computer Science. This makes it a tempting and attractive choice. However, there is also great demand for graduates from our other programs. Regardless of your choice, I urge you to use every opportunity to take courses "outside" your area of emphasis, because successful work in most areas requires a wide assortment of mathematical skills. In particular, those of you who choose Computer Science should know that a broad mathematics foundation is essential. Similarly, students in other programs are well advised to take appropriate Computer Science courses, to learn the applications and implications of computers in those disciplines. Our Faculty provides a splendid place to obtain such a multifaceted education.

Once again, welcome to Waterloo. You are a fine group of incoming students, and we expect great things of you. We are glad you are here and hope you enjoy your studies.

J. Alan George  
Dean



Alan George



Peter Brillinger

## From the Director of Undergraduate Affairs

As Director of Undergraduate Affairs in the Faculty of Mathematics, I would like to extend a warm welcome to all of you as you embark on your freshman year at the University of Waterloo. We are fully aware that your first few weeks on campus can be rather hectic ones as you adjust to a totally new environment. However, we also hope that you will take advantage of opportunities to make things as pleasant as possible for yourself. OPERATION MATHSTART, in particular, is intended to assist you in coping with registration and scheduling problems that often face new students. It is also a chance to meet other students and Faculty members in an informal atmosphere. In addition, your Orientation Package contains all kinds of useful information, and I would hope that you take the time to read through this material with considerable care.

At a large university it is easy to get the impression that nobody really cares about you, and as a result, you can become very much a "loner". I would urge all of you not to fall into this trap. There are numerous people around the Faculty and the campus-at-large who are more than willing to help you get started on the right foot. However, with so many students, it is your responsibility to make new friends, contact Faculty members for assistance, and become involved in campus life.

The amount of work facing you in the next few months is probably greater than most of you have ever encountered before. Nevertheless, if you plan your time carefully, you should be able to give your academic studies their fair share of your hours and still have time left to devote to social and recreational activities. There are innumerable activities on the campus to suit everyone's tastes. The secret is to find a good mixture of enjoying yourself and doing justice to your studies. The actual blend in this mixture will depend largely upon individual interests and academic ability, and these vary considerably from one person to another. Nevertheless, it is vital that you devote some of your time to both scholastic and social activity if you are to have a rewarding time at university. I urge you not to delay. Get involved and start working right at the beginning of the year. Don't wait until "later". "Later" may just be too late!

Peter C. Brillinger  
Director of Undergraduate Affairs

## The Editor's Ramblings . . .

Hi! I'm Jim Jordan, the editor of this issue (and the three we produced during the term) of **mathNEWS**. If you are wondering who the mysterious WJJ is while you were reading the articles contained in here, you now know.

Let me extend a hearty welcome to all of you. Waterloo is a nice place to study, though maybe not during the spring term. It has a lot to offer you both curricularly and extracurricularly. I, in my two terms here, have managed to get involved with a lot of activities and have enjoyed them all immensely.

First, let me tell you about **mathNEWS**. This rag has been produced more or less constantly for the past 9 2/3 years by the students of the math faculty. Part of your Mathematics Society fee goes to the production of **mathNEWS**. Our aim is to entertain as well as inform the students of the math faculty. Any publicity that MathSoc wants is obtained in **mathNEWS**, but we will not hesitate to criticise or publish criticisms of MathSoc. Just about anything that is submitted to us is printed, subject to editing (that's where I come in); however, the editor cannot write everything or do all of the paste-up (that's where you come in).

Have you dreamed about being a famous graphicist or columnist? Here's your chance to start. **mathNEWS** is always looking for people to write humorous columns, serious columns, fiction, non-fiction, reports on events occurring and just about everything else. If you see something you might like to do, let us know and we'll probably let you go to it. Our production night is usually every other Tuesday for distribution on Friday, subject to the amount of material we have. Of course, pizza is usually ordered as the evening wears on (especially if it wears on after 11:00). A few ideas are bounced around and a generally good time is had by all. (Yes, you may write or help out under a pseudonym. But not without the editor's permission.)

There is more than **mathNEWS** in the list of activities open to you. MathSoc

always requires volunteers to keep the office open during the day and help out at other times. FASS, the University's theatre company, and Theatresports Waterloo are available for those who are interested in theatre. The Warriors Band is the OUAA's most loved (by Waterloo) and hated (by the others) pep band — if you're interested, come out! The Warriors Band has instruments for those who don't. Clubs available include the Computer Science Club, better known as the CSC, and Watsfic, the Waterloo Science Fiction Club. The CSC has guest lectures on computing technology and their office is often the site of many a discussion on the virtues of various systems at 2:00 in the morning. Watsfic may also be going strong at that time as a great Dungeons and Dragons campaign gets into full swing.

The official student newspaper, **Imprint** (who typeset this rag), would appreciate your help if you have an interest in journalism. Radio Waterloo, better known as CKMS-FM, always needs disc jockeys and people to operate the station. And, of course, there are the varsity, competitive intramural and recreational sports all sponsored by the Athletic Department. The intramurals are run by a special branch called Campus Recreation, whose goal is just that. Does politics catch your fancy? Then a seat on the Federation of Students may be for you. Or, if you're not that ambitious, there is MathSoc council. Get involved! There's more to life at the University of Waterloo than 25 hours a week of lectures, tutorials and labs!

You may see me around the campus in the Fall term, even though I am on a work term. If you are taking the M1 division of CS140 this term, you will almost definitely see me. (You'll find out why when you arrive.) I hope this issue of **mathNEWS** helps you get along here during your first term. From the freshman editor of **mathNEWS** to all you freshmen-to-be. I hope you enjoy your academic career at UW and wish you all the best now and in the future.

W. Jim Jordan  
Editor

Two--one to get the giraffe and the other to fill the bathtub with brightly ~~xx~~ coloured machine tools.

## Your Fee Statement

This is a brief description of what appears on your University of Waterloo fee statement (the 8 1/2 inch square triplicate statement that the University sends to you with your timetable). It may be interesting to you to see the breakdown of the money.

The most expensive item on the statement is tuition. This year it will cost the math student a basic fee of \$525.00 per term. If you are in co-op, an extra \$104.60 per term is added.

Tuition fees pay for the upkeep of the facilities, professors' salaries and all of the other expenses the University has. The Co-op fee is charged to co-op students to help pay for the people in the Department of Co-Ordination and Placement (they're the ones who find us our work term jobs (hopefully)).

Tuition fees raised almost \$14 million in 1981 during the year, 17.5% of the University's operating income.

The Intercollegiate Athletics fee of \$17.00 is charged to all students. This fee must be paid. I think this fee goes to pay for our teams on the playing fields, ice rinks, basketball courts, etc. It also covers the use of the Physical Activities Complex and pays for your Warriors/Athenas season ticket.

Health Insurance is next on the statement. It accounts for \$13.28 (co-op) or \$7.08 (regular) and was requested by the students at UW sometime before 1978. It includes the cost of prescriptions after the first \$1.00, vision care benefits and the like. Full details are available from Health Services. This fee must be paid, but it may be refunded if the student can show proof of equivalent or better insurance protection. You are covered by this insurance if you are on work term (hence the extra cost for co-op students).

The next item on the statement is the Federation of Students fee of \$11.50/term. The Federation is sort of the undergraduate students' council. It operates such things as the Bombshelter pub, Scoops (the ice cream stand in the Campus Centre), the Legal Resource Office and other things. It also provides concerts to the students and the community. The Federation of Students is, a member of the Ontario Federation of Students and the National Union of Students. This fee is not compulsory and may be refunded within the first three weeks of lectures. Unless you plan to do absolutely nothing you should pay the Fed fee; it's usually worth it (it can pay for itself in one trip to The Record Store in the basement of the Campus Centre).

The Recreation Facility fee of \$5.00 is next on the list. This is for an ice arena and lighting for one playing field on the north campus to be completed sometime in 1985. This fee is compulsory. All students must pay it, even though some of us won't be around to use it. (In case you're interested, the students voted for the fee for the facility last winter.)

The following fees are all refundable at the student's request during the first three weeks of the term: *CKMS (Radio Waterloo)*. This is the on-campus radio station. The fee helps pay for the station's operating expenses.

*Society Fee*. Math students pay a fee of \$2.50/term to the Mathematics Society (MathSoc) for its running of events for Math students (let's hope they do something with your fee in the fall, unlike what they did with ours this summer — WJJ).

*Waterloo P.I.R.G.* The Waterloo Public Interest Research Group is a student-funded environmental and social research group. It is run by students and deals with all sorts of neat issues such as the effects of computers on society and nuclear energy.

*Imprint*. *Imprint* is the official student newspaper. It is published every Friday and contains articles about many things, especially on topics directly related to students. This service is well worth the \$2.25 per term.

When the figures are added you get a total of \$686.63 for co-op students and \$575.83 if you are in a regular program. But always remember it's a small price to pay for your education. . . . . D. L. Wilkie

## A Guide to Co-op

Many of you will be enrolled in the Co-op Program at UW. Besides the usual academic stuff, co-op students have the privilege of work experience (often state-of-the-art work at that) to put their academic knowledge to practical use. Waterloo has the second largest co-op enrolment in North America; years of experience on Waterloo's part have made Waterloo's Co-op program among the best.

You will be in Stream 4 (your first work term starts in January '83) or Stream 8 (your first work term starts May '83). In some cases, many students are asked to switch from Stream 8 to Stream 4 if there is an abundance of students in Stream 8. The stream that you begin with is not really that crucial since you will have to spend two Spring terms here in either case. You may not relish the thought of having to spend your second academic term here in the summer, but some of us have to put up with it. (Besides, if it weren't for us, who'd do the frosh issue?! — WJJ).

If you don't know how to write a resume, then you had better learn soon. You must compose a resume and submit 20 copies (early in the term before your first work term) to the Department of Co-Ordination and Placement. The prospective employers will use your resumes to assess you as a potential employee.

In the meantime, Co-Ordination and Placement also has an Orientation program for new co-op students. This program is a series of weekly presentations designed to assist new co-op students with the operation of the Co-op Program (it is listed as Math 000 on your computer-produced timetable). Sessions on resumes, interviews (discussed later) and learning objectives are included in the co-op orientation.

Sometime in the middle of the term before your first work term, you will be subjected to the interview process.

Jobs are not just handed to you on a silver platter; you must "sell" yourself to the prospective employers. You will first choose up to fifteen employers from the "Want Ads", a newspaper containing descriptions of available co-op jobs, which you must obtain from Co-Ordination. You then have only a weekend with which to choose jobs from a myriad of listings. Then, you will write your choices down on a special form. The fun part comes next — the interviews themselves. Almost every day during interviews, you will have to cope with great hordes of people so that you can read the interview schedules. If you are scheduled for an interview, then you must attend, provided that you have no pressing business (like midterms). Even if you have to change your interview time, you must still try to make arrangements with other students being interviewed by the employer. Missing an interview is stressed as a cardinal sin in the eyes of Co-Ordination and Placement, for it screws up their wonderfully efficient placement process (not to mention that it screws things up for other students as well). When you attend an interview with a potential employer, it is a rather formal occasion (i.e. suits and ties for the gentlemen, and dresses for the ladies).

After your interviews, you have the privilege of ranking your employers depending on how much you like a particular employer. The employers, in turn, get to rank you, too. When all the rankings are filled out, they are processed by some mysterious computer program and subsequently, most students are matched with an employer. If the student is not matched with an employer as a result of this, then there are the "second round" interviews. Co-Ordination and Placement will attempt to match up the unmatched students and employers. After all this, approximately 99% of the Math co-op students should have an employer.

Finally, there is the work term itself. There is an immense variety of jobs that co-op Mathies may have, particularly in Computer Science. Your work experience may be in traditional Chartered Accountancy, or in state-of-the-art Computer Science. During your work term, you will have to write a work term report. This report is explained more fully in the handbook, *Guidelines for Writing a Work Term Report*, which all co-op students should have.

You, the co-op student, will join with hundreds of eager students on an educational experience unmatched by almost any other university in the country. Good luck at UW, and on your work terms!

David Leibold

## Confuse<sup>-1</sup> A Frosh Dictionary

This dictionary is to introduce you to some of the terms you may or may not encounter during your first term at UW. Anything that is not explained well enough here will be when you arrive or when you experience it yourself.

**the Bun** — aka Honeywell, Honeybun... it's real name is Honeywell 66/60 (actually, after the upgrade it's at 66/80) but it's called everything else but. It's one of the Math Faculty Computing Facility's computers (which helps produce what you have holding in your hand).

**IBM** — Itty Bitty Machines, I've Been Moved!, Indestructible Bowel Movements, It's Better Manually, . . .

**WIDJET** — a curse; short for Waterloo's Inefficient Defective Job-Eating Terminals.

**mathNEWS** — something to work on if you are insane, want no social life, have nothing better to do, or any combination of the three.

**CSC** — not a trig function, but the Computer Science Club, which is usually open during the wee hours of the morning as a meeting place for the hacks and anyone else who happens to be around. Membership is only \$1.00 and the rewards are great (more on the CSC elsewhere).

**WATSFIC** — University of Waterloo Science Fiction Club. Usually the site of many a discussion on past glorious D&D campaigns.

**MathSoc** — the Mathematics Society.

**MathS.O.C.** — the Mathematics Subversive Operations Committee, whose main goal is to steal the (1/n)gineer's mascot, the Ridgid Tool.

**The Natural Log** — not the integral of 1/x dx or a logarithm to base e, but the present MathSoc mathscot.

**The Pink Tie** — former MathSoc mathscot, chosen when the Faculty was first formed in honour of the first Dean of Mathematics, who (allegedly) wore unusual combinations of clothing.

**Zoo** — one of Waterloo's two undergrad residences (Village One and Village Zoo).

**Village 1** — like Village 2 except single rooms and a higher shower stall/person ratio.

**Village 3** — Sunnydale

**Cockroach Towers** — also known as Waterloo Towers, located at University and Phillip Street, and known for its profusion of bugs, insects, roaches, spiders, ants, silverfish, and other assorted creepy-crawlies. Not for the squeamish.

**Village Food** — something which serves to illustrate the difference between well-cooked and cooked well.

**Watpubs** — mobile Bombshelters.

**Waterloo West** — the University of Victoria.

**Tutorial** — an extra hour (or more) a week per course where you can get help from a prof or tutors which no one goes to anyway (but it helps if you do).

**hack** — someone who deprives him/herself of all physical needs for the pleasure of sitting at a computer terminal.

**Co-op student** — a gypsy with books.

**FASS** — an on-campus theatre group composed of Faculty, Administration, Staff and Students (hence FASS). The most fun thing a group of people can do (except maybe for Theatresports).

**Theatresports** — an improvisational challenge game between two teams on a stage. Neither team knows what they are going to do until they do it! (Occasionally, not even then . . . — dwt)

**The Warriors Band** — one of the bands in Canada; a musical group bigger than the Beatles (numerically speaking).

**Imprint** — the official student newspaper (something to take into boring Friday lectures).

**Chevron** — the former official student newspaper, and one of the last surviving forums for Marxist dialectics

**Guelph** — the sound a dog makes as it tosses its cookies.

**Turnkey Desk** — a place in the Campus Centre where one can obtain change, magazines or games (just leave your student ID at the desk) and information — the turnkeys are the most helpful people at this university

**Kitchener Transit** — that ninety-minute wait for the bus during the first, second third, . . . , second-last and last snowstorms of the year.

## Media Message

The following article should give you, the prospective Waterloo Mathie, an indication of the kinds of radio and television signals that pollute the local atmosphere, plus a list of newspapers.

Let's start off with AM radio. There's CKOC 1150 (Hamilton) if you're into Top 40 stuff (there's also CHYM 570, here in Kitchener-Waterloo, but nobody wants to talk about it). CHUM 1050 and CFTR 680 from Toronto, and CJBK 1290 and CKSL 1410 in London are easily received, too. CKKW 1090 in Kitchener is good for Blue Jays broadcasts in the summer, and Maple Leafs (Make-Believes?) and Kitchener Rangers (yes the Memorial Cup champions) games in the winter.

For FM radio, there's CKMS-FM, also known as Radio Waterloo. It's studios are situated halfway between the Math building and North Bay. Its bizarre programming includes weird rock music and Leaping Lesbians, but its redeeming features are BBC News, The Good News Program, *Hitch-Hiker's Guide to the Galaxy*, and anything by WPIRG (Waterloo Public Interest Research Group). If you want to become a DJ, though, you can join CKMS and spin the records. Elsewhere on the FM dial, you may find CFCA (105.3) for classical and ultra-mellow stuff, and country folks might like to try CKGL (96.7). CKGL has been known to be computer-operated (such stations could insist that a sunny day is occurring in the midst of a blizzard). Besides that CKGL performed the dastardly deed of cancelling the *John Gilbert Night Talk* show, a graveyard-hour interview and phone-in program. (John Gilbert is on CKEY 590 in Toronto, though). From London (Ontario, that is) one can receive CFPL-FM (96) and CJBX-FM (BX-93, another station for country fans). News addicts might like to try CKO (97.5 London, 99.1 Toronto). Rock? The only rock you might get around this part of the country comes from CFNY in Brampton, Q107 or CHUM-FM (104.1), both in Toronto. If you have a fantastic antenna system, then you might want to try CIXX (6-X) 106.9 in London. 6-X is a radio station operated by Fanshawe College, and it often features rock music.

Television: CKCO Channel 13 (CTV), Global (Channel 6), CHCH Hamilton (Channel 11), CBLT Toronto (CBC Channel 5), CFPL London (Channel 10, CBC to some extent), TVOntario (Channel 28, educational, and paid for by the Ontario government, and indirectly, by you.) Neat things are available on cable, too, such as House of Commons, CITY-TV Toronto, and more. The American television channels from Buffalo are also available on cable. Pay-TV will be here by spring; if you have a converter, you can subscribe to this as well.

Newspapers! Yes, there's a lot of newspapers available on campus. The **Kitchener-Waterloo Record** is the local paper, which costs 30 cents a day (Saturdays too!). The **Toronto Star** is available in a box in front of South Campus Hall for 25 cents Monday through Friday, (75 cents Saturday, 30 cents Sunday). The **Toronto Sun** is also available for those who like the Sunshine Girl/Boy. The **Globe and Mail** also pervades the campus scene. You can view these papers (and other papers from around the world) at the Arts or EMS Library on campus (albeit on a 1-5 day delay basis for some papers). The Turnkey Desk in the Campus Centre has the **K-W Record** and the **Globe and Mail** for your reading pleasure; just give the Turnkey your student I.D. and borrow a paper. Last, but not least, there are the newspapers on campus. The **Imprint** is the official student newspaper at UW and is regarded as one of the best in the country. **Imprint** is free, and it is distributed all over the campus each Friday (every other Friday in the summer). There's also the **Gazette**, published by the University itself to let the students know what's happening from the administration standpoint. The **Chevron** is a paper which upholds Marxist-Leninist beliefs; students read this for its laugh value. Finally, there's the paper which you are holding in your hands: **mathNEWS!** **mathNEWS!** is printed every once in a while (it all depends on whether we have enough material to put something out), but you can (almost) always pick up your copy on a Friday. Come on out to our first meeting. If you like to write, we need all the help we can get. Watch for our notices around the third floor of the Math and Computer building.

David Leibold

## A Few Words About Classes

"What shall I bring to class?", the young frosh may ask. "Where is my class? What textbooks am I to buy?" These, and many other questions shall be dealt with in the sentences following.

First, you should have a computer-printed course schedule, either mailed to you (if you pre-register), or picked up at Registration (in those great big line-ups every September). Check the times and rooms of each class and mark this information in a blank schedule form (such as the schedule which appears at the end of this mathNEWS). During your Orientation Week, try to visit all the buildings where you will be having your classes and try to find your way around the university. When classes actually do begin, you should have no problem finding the right room.

All you need to bring to class in most cases is a small clipboard full of paper. You will be taking notes, and possibly collecting some handouts such as course descriptions and assignments. Write down the stuff the prof writes on the board, noting important material. Eventually, you will be accustomed to writing theorem, proof, theorem, proof, theorem, proof. . . Your biggest enemies are the brevity of your attention span and your capabilities in deciphering your notes, but you should have no problem in adapting to the lecture format. The only problem you might have is trying not to fall asleep during calculus or algebra.

For textbooks, you should check the University Bookstore which will have a list of the textbooks needed for each course. You should check for a list of textbooks for the First-Year Math courses and major electives in your Registration package, too. If you are still confused, the professor will also indicate the textbooks for the course on the first day of the class. When buying textbooks, have a credit card, a lot of traveller's cheques or lots of money on hand because brand new textbooks can cost \$100 — \$150. You may wish to examine the Used Books Store on campus for cheaper, used textbooks. Individual students may also have used texts for sale, hence it is a good idea to check bulletin boards.

Then, there's the tutorial sessions, where you may ask experienced students or the professor himself for some help with the nagging questions. You are well advised to attend, if only to collect the assignment you handed in the week before. For Calculus and Algebra tutorials in first year, you should bring your text, notes, and assignment to work on. For Computer Science tutorials, you should have your text or other reference handy. In other tutorials, ask the prof if you're confused. Tutorials are your chance to clear up any problems that you may have in your classes.

There's not much to attending the classes, taking the notes and finding the right books. The only hard parts are the tests and assignments. Good luck.

David Leibold

## Money Talks

Now that you are living more or less on your own, you will need to manage your financial resources well. After many a trip to the Bombshelter, the CC Games Room or Fed Flicks, you may soon run out of money.

"How much should I bring to campus?" asks the young frosh. Well, you should try to establish a chequing account with a local bank (usually the Bank of Commerce in the Campus Centre building on campus, or the Canada Trust or Royal Bank at Westmount Place (Westmount & Erb). Other banks are available in uptown Waterloo (that's what the city of Waterloo calls it, even though we are north of the business section) or downtown Kitchener.) Registration and residence payments may be handled by cheque. Make sure that you have at least \$2,000 to back up both the registration and residence fees (a single room at the Village costs more than \$1300 a term, and tuition fees are easily \$700-\$800 per term.)

Spending habits while on the University may vary. It is a good idea to have at least \$500 on hand, either in your university bank account, or through an "inter-branch" arrangement (the banks are computer connected so that you can withdraw money from out-

of-town accounts). Ask your bank about arrangements for withdrawing or transferring money from out-of-town accounts. (I had difficulty moving money from Waterloo to my work term job in Northwestern Ontario and back again. . . it is a good idea to check it out and possibly change banks (though it's entirely up to you). — WJJ) (Note that some money transfers may take up to two weeks.)

Incidentally, you should never have more than \$25 in your wallet at any given time. You never know if your wallet is going to be stolen, and cheques should be used for large payments anyway. (I don't think a big blitz at the Bombshelter will set you back that much, and if a bank is open the next day, you can always retrieve some money.)

Traveller's cheques are a nice method of carrying cash. Although the actual cost of the cheques includes a small (usually 1%) service/insurance charge, traveller's cheques are easily replaced if they are lost or stolen. When you first get your traveller's cheques, you place your signature on each cheque. To cash the cheques in, you write your signature again on the cheque. The first signature "protects" the cheque

against theft. The second signature must be signed in the presence of a teller or cashier, hence signature forgery is very difficult, especially for many a wayward pickpocket. Ask your bank for more details.

You should also consider having a credit card on hand (such as Visa). The University Bookstore and the Open Door Gift Shop (both in South Campus Hall) both take Visa, MasterCard and traveller's cheques. A credit card is very useful for co-op students; you can apply for a card at your local bank. Once you get your card, however, don't go on a buying spree. There's a high interest rate charged on unpaid bills (24% per annum) and a hold may be placed on your bank account for the limit of the card.

Financial aid is available for students as well. Besides the obvious entry awards and fellowships, bursaries and emergency loan funds are available. Consult the 1982-83 UW Undergraduate Calendar for more information. One more word of warning. . . if you have government assistance through OSAP or a Canada Student Loan, don't forget to let the banks know you are attending classes or you may default on them.

David Leibold

## On-campus Accommodation (or, University of Waterloo's Wild Kingdom)

### Village 1 and Village 2

The lottery for on-campus accommodation takes place in the summer. Approximately half of the spaces available are reserved for frosh in the fall term. When the no-shows are tallied in September, another draw is held for the empty spaces and you must be present at that draw if you are not yet in residence. (That's how I got in — WJJ. (and that's how I stayed out (my, nested parenthesis look nice (and very mathematical) — djcl)))

It is a good idea to consult the off-campus housing office as soon as you decide to go to the U of Waterloo in order to arrange for accommodation if you are not in Village. This office is located on the roof of Village 1, where lists of available off-campus housing can be found. They are quite helpful in locating accommodation for you — you do the looking but they will make known what is available. For those of you who are in residence, let me ramble on further.

### Village 1

The fortunate ones of you will be in Village 1 with either a single room (all to yourself) or an interconnecting (one room opens onto another occupied room — this is not as bad as it sounds). The food is something everyone complains about but it isn't as bad as it sounds either (have you eaten at University of Manitoba or the University of Toronto?). The room is cleaned and the bedding changed by a house mother (not a maid!) every week. Each room comes equipped with a desk, two chairs, a thing they call a bed, two closets, a few drawers, a mirror, and a telephone (all you pay for is the long-distance calls you make). Three walls are brick; the fourth is cork (however, any pins that you need must be purchased). It is a reasonably good set-up.

### Village 2

Regardless of all the horror stories your friends and/or teachers may have told you about Village 2, very few of them are true (but then again I was on the best floor of V2 during my 1A term — WJJ). Weekends generally begin Thursday nights (with all the assignments due Friday morning). The rooms are all double rooms (unless you are a don) and have the same facilities as the ones in V1, except there is less cork on the walls and in North, East and West quads there is a partition in the room dividing it into two parts. Roommates can be specified if you are both in residence (no, the floors in V2 are not co-ed). Spending one term in Village 2 is a great way to meet people and is a good experience.

### Church Colleges

Besides the Village, there are the various church college residences on campus. These are St. Jerome's/Notre Dame, Renison, Conrad Grebel and St. Paul's. Typically, each church college holds 200-300 students at most, therefore it is possible to acquaint yourself with everyone living at your residence.

The church college residences are open to any UW student, but preference is usually given to students enrolled in programs administered by the church colleges. It is a good idea to register early if you wish to live in any of the church colleges. Residence application is made directly to the residence(s) of your choice.

### What to Bring to University

You, the pre-frosh, will probably be faced with a new style of living if you choose to live in residence. First of all, here is a good idea of what you should bring to the residence: your clothes, towels, toothpaste, toothbrush(es), combs, appropriate outdoor clothing (yes, winter isn't that far away), soap, umbrella (or something which will prevent you from getting drenched in rain as you dodge from class to class — weather doesn't care whether you have to race from the Math Building to South Campus Hall). For classes, you should have notepaper, binders (to store the notes; you should have at least two large binders), clipboard, pens, pencils, erasers, rulers (fancy compass/ruler sets, although not that necessary, might be useful). Heavy on the pens, though; those notes consume a lot of ink. Optional stuff to bring: stereo, ghetto blaster or some kind of radio (if you have a loud stereo, you might want to enter it in a "stereo war"). If you like television, you can bring your own TV, but there should be TV lounges in all the residences. Games such as chess, Othello, etc. may be brought too. Your set of books (fiction, nonfiction . . . whatever interests you) can be useful to you. Rubik's Cube is OK, but it's nowhere near as popular as it was last September. You can think of lots of other things you might want to bring to residence.

### Residence Life

When you get into residence, you will have a set of keys to get into your room, the lounges, etc. Guard these keys with your life; their loss can mean great anguish (and a loss of \$25.00). If you have a roommate, discuss the living arrangements, personal habits, etc. between yourselves since you will be spending four months of your life cohabiting with him/her. In addition to this, become familiar with the dining hall procedures (use of meal tickets, which foods to take/avoid). Investigate your surroundings and acquaint yourself with the others on your floor (or elsewhere in the residence). Get involved with the Orientation activities at your residence, too, and participate in the Math and Federation Orientation stuff, too. Start your university years off on the right foot and get involved. Just don't let involvement affect your studies too much. If you find you are failing even one of your courses, re-evaluate your extracurriculars.

W. Jim Jordan  
David Leibold

## Calendar Update

The following courses were omitted from the UW Undergraduate Calendar.

Bio 352 2C, 6L -0.5

### Introduction to Autopsies

An introductory course to finding the cause of death of what appears on your plate at meals.

Coreqs: Chem 247, Geol 171

BS 101 1C, 3L 0.5

### Introductory Essay Writing 1

This course will introduce the student to methods of writing essays in their various forms.

Crosslisted with Engl 109.

Chem 247 2C, 6L 1313.00

### Chemical Composition of Village Food

This course is an in-depth study of the components of Village food. Not for the squeamish.

Coreqs: Bio 352, Geol 171

CS 353 2C 0.5

### Recursive Techniques in Teaching 1

This course will study the teaching methods used in CS 353.

CS 354 2C 0.5+0.5+ . . .

### Recursive Techniques in Teaching 2

A continuation of CS 354.

Geol 171 2C, 2L 1/e

### Petrification

A study of the petrification process, with special detail given to the method of accelerating the process which was recently discovered by Food Services.

Coreqs: BIO 352, Chem 247

MTHL 313 20L \$0.02

### Applied Political Science

Students will learn the basic techniques of organizing powerful political organizations and groups. Methods of circumventing previous constitutions, rules, etc., possibly with outside influence, will be studied. Students must register for the course in homogeneous groups of at least 75, all being in the same year.

RS 232 3C 0.5

### Cyberphile Theology

A survey course of the religious philosophies of cyberphiles including the advancement of artificial intelligence.

## The Fed Ombudsman

Have you ever wished there was someone available on campus who could help you with problems you may encounter while going to the University of Waterloo?

There is someone who can help you. The university Ombudsman is Dean Nadon who is employed by the Federation of Students. Dean is familiar with the policies and procedures of this university, and will provide you with advice and information regarding both academic and non-academic problems.

Academic problems could consist of fees and tuition, admission, financial aid, academic status or housing conflicts, racial and sexual harassment, personal concerns and the various services available on campus.

In some situations you may feel you need a advocate for your case. While Dean can act in the capacity, he will probably provide you with a list of options open to you, and let you choose the one which makes you feel the most comfortable.

Clients' letters and interviews are confidential and cases will be dealt with as efficiently and expeditious as possible.

Basically, the Ombudsman's office is here to help the university community with problems that might be encountered on or off campus.

If you have any problems or questions, call Dean 885-0370 or 885-1211, ext. 2402. Or drop in to the Federation office, Campus Centre Room 235 and make an appointment with his secretary, Charlene.

## Matters of Course

This little description of courses is meant to give you, the frosh, a student's-eye view of what looks so good in the Undergrad Calendar that most of you take from your high school (that's how I got my 82-83 calendar — by dropping into my old high school while I was on work term — WJJ). These are very opinionated and just provide a brief description of what isn't mentioned in the calendar. Do not let this influence your choice of courses (much) during your academic career at UW. (But don't say we didn't warn you!) Remember, 12 of your 48 half-courses (if you are in Honours Math) must be electives.

Here are the courses that you must take in first year, the core courses, if you will:

### Math 130 A/B

First Year Calculus follows from Grade 13 material. In the first term, you will learn how to differentiate, but you will learn how to do harder expressions. You will also learn some neat theorems, some of them involving derivatives. Even though Grade 13 material is reviewed, don't be fooled; the material is sometimes intense.

In the second term, you review integration, and you will learn more neat theorems, many of which facilitate easy integration of complex expressions. Material on numbers series and sequences is covered as well.

### Math 134 A/B

Algebra in the first term is vastly different from what you have learned in high school. You will learn how to solve Diophantine equations, and you will be subjected to a barrage of strange theorems.

Second term Algebra is more like the stuff you learned in Grade 13 Algebra, since most of the course deals with vectors and matrices. Some of the material can get quite deep, so be sure that you are not too complacent with the material.

### CS 140

This course is offered in MO (programming in FORTRAN) and MI (Pascal) divisions. This is a course in computer problem solving, where you will get to create all kinds of neat programs on the hideously inefficient system known as WIDJET, or on the hideously bug-laden SuperPETS. The material is relatively easy; the midterms are vicious killers (i.e. you write a three hour exam in 90 minutes (some people would have used three hours; I had two minutes to spare and got full marks — WJJ)). The course deals with very practical, interesting material such as simulators, zero-finding in a function, area finding and much more. (SECOND OPINION: I didn't think the material was interesting at all, and neither did my instructor — he used to recite from slides in a sing-song voice ("And this slide is diagram 4.5 . . .") — however, I took the FORTRAN version, and I already knew FORTRAN — to each his own . . . — dwt)

These courses are electives that students may take during their career at UW.

### CHEM 123/124

These two courses are the Introductory and Organic Chemistry open to Math students at UW. A lab which is optional for Math students is available to supplement the class work. The first term of the course is not that hard; a lot of this material just expands on theories you have learned in Grade 13 Chemistry. The Organic Chemistry course (124), requires a lot of memory work, however, hence a keen mind for Chemistry might be useful in this course. (The labs can help, too, even if you consider the three hours per week which you would lose as a result.)

### ENGL 109/110

These courses are designated Essay Writing, and are administered by the Faculty of Arts. These courses may or may not be considered as "bird" depending on your writing ability, but the information from these courses may be helpful for writing work term reports, other essays, et cetera. Incidentally, a half-credit in one of these courses is sufficient for the English requirement on the B. Math. degree. The only work required is the writing of an essay during a tutorial class, some reading, some revisions and some studying for the midterm and final.

### ENGL 150/151

A pair of courses which deal with the English language as an instrument of thought and communication — how people use words to persuade you, amuse you and confuse you. The course textbook we used was quite interesting, having in it, among other things, a transcript of Richard Nixon's "Checkers" speech and an essay in which Mark Twain expressed his frustration with the German language and the genders it associates with nouns. (Also, the instructor showed our class the first and last reels of Leni Riefenstahl's *Triumph Of The Will*, a propaganda film made in Germany during the rule of the Nazis.) A little-known and most enjoyable elective; several written exercises are assigned, but none of them are overly long.

### ENGL 208B

This course, called "Science Fiction", is one of the many courses that the English Department offers in an attempt to get students from other faculties (this means you) interested in English. One science-fiction novel is assigned for reading each week; during class hours, the novel in question is discussed. (Some of the novels that were on the reading list when I took this were: *To Your Scattered Bodies Go* by Philip Jose Farmer, *Childhood's End* by Arthur C. Clarke, *The Moon Is A Harsh Mistress* by Robert Heinlein — in short, your basic science fiction starter set.) A good course to take if your math workload is heavy — it's not the easiest course on campus, but it's probably one of the most enjoyable.

### ENGL 343

American Literature — this course covers the period from the arrival of the Puritans to the end of the nineteenth century and includes such writers as Hawthorne, Poe, Thoreau, Ben Franklin and Edith Wharton. This course is designed with English majors in mind (as opposed to the 108-208 series, which are of general interest) and requires a little more work (I had to write two 2,000 word papers and do a fair amount of reading), but I really enjoyed it.

### MTHEL 100

This course is taught by Mr. R. G. R. "Barney" Lawrence, QC, and is an introduction to contract law. The course itself is as interesting as you make it, and you do learn a lot about what you are actually doing when you sign a contract. What you don't know can hurt you in a legal situation. There are one or two assignments, a midterm and a final exam to the course, and lectures are usually held from 7 to 9 p.m. once a week.

### PHIL 140

This course is regarded as one of the traditional bird courses for Math students, especially Computer Science students. "What is it?" you ask. Well, it's Aristotle, it's Plato, it's Superman . . . NO, it's Formal Logic. The reasons for calling such an article Philosophy are too complex and beyond the scope of this article, but you are well-advised to take this course. Lectures are often held in the evening; it will not only bring your overall average up, but it will also cure your insomnia.

### PHYS 121/122/162/163

The Introductory Physics course 121/122 (or 162/163 for real die-hards) are two more elective half-credits available to Math students. The Physics text weighs a ton, but at least it's good for both terms of the course. Incidentally, this lecture is normally held in PHY 145, a lecture hall which contains seating which forces you to write on your lap. If you enjoy deciphering your notes and sustaining a generous chiropractic bill, take Physics. Like Chemistry, there is a lab in Physics which is optional for Math students.

### SCI 238

This course is called Descriptive Astronomy. It is a basic introduction to the mechanics of the solar system, the workings of stars and an improvement of your average mark. Don't let the "2" in the course number throw you off; this course can be done with just Grade 11 Physics and Grade 13 Mathematics. If your professor happens to be Dr. Kim Papp, you will be in for a very good time during lectures. One comment remains to be made: the textbook is worth \$34.00 (at least it was this summer). If you can find a used one for sale, buy it.

## The Alcohol Song

Lyrics by TTWIAHA (you'll find out who he is soon enough)

When I was young  
It seemed that life was so wonderful,  
A miracle,  
Oh, it was beautiful, magical.  
And every morning at three  
I would wake up so easily,  
Oh, breezily,  
Moving quite steadily.

Then they sent me to school  
To teach me how to drink alcohol,  
Oh, have a ball,  
Oh, stand up tall, drink it all.  
Soon my eyes didn't work  
Started seeing so blurrily,  
Oh, terribly,  
I was thoroughly smashed you see.

### Chorus:

There are times  
When all the world spins round  
I fall down to the ground  
I can't see worth a damn.  
Won't you please, please give me a kind word  
I know it sounds absurd,  
But please tell me where I am.

So now, watch what you drink,  
Or you'll have trouble getting out of bed  
Eyes of red,  
Oh, my head, feet like lead!  
You'll have to sign up with AA,  
Or you become like an engineer,  
Oh, gulp the beer,  
Oh, brain cells will disappear . . .

Oh, take, take it, yeah!

*Apologies to Supertramp would be completely inadequate.*

## For Video Game Addicts (Or Prospective Addicts) Only!

The world is divided into two large and distinct groups of people — those who disdain video games, and those who cannot be trusted with quarters. To put it bluntly, video games are hazardous and addictive; if you let down your guard for an instant, when you next regain consciousness you will find yourself standing in front of a screen, frantically blasting as many aliens as possible. You have been warned.

However, for those of you who are already addicts, the Campus Centre offers a Games Room, featuring such video games as *Avenger* (*Defender* with a different face), *Space Invaders*, *Pac-Man* and *Berzerk*, and pinball machines (including *Firepower*, *Time Line*, *Volcano*, and two classic Gottlieb single-player digitals (*Jacks Open* and *Volley*)). (Note: these were the games available at the time of writing, July 1982, and the machines available are subject to change without notice.)

Hours of operation are usually from around noon 'till around midnight, seven days a week. Have fun, and see you there!

## Coffee House

By the time you reach the end of Wednesday, September 8 in your first week at university, you will have had the joy of your first group of lectures and your first exam here at Waterloo. With those two things out of the way, it's time to enjoy yourselves. As soon as your exam lets out, hop upstairs to the third floor lounge where your MathSoc Orientation Committee is holding a coffee house. There's free coffee, donuts and hot chocolate for all frosh. Your Big Brother or Big Sister will be there looking forward to meeting you. We'll see you there! Don't forget your Pink Tie!

## A Modest Proposal

Now that you've been accepted (and somebody is anticipating your crinkly green dough), I wish to suggest a change in admission requirements.

Basically speaking, the requirements should not have anything to do with silly things like marks, scholarships and money. The key to admission should be survival and willingness to work. I hereby propose the following admissions guidelines to both the University and the reader. All the applicant would have to do is answer affirmative to all of the questions below and would then be admitted. This would eliminate "non-workers" (people who magically get high marks) and greatly reduce the number of drop-outs, which would save the University some paperwork (and thus paper, and from that follows money!). Here, then, are my proposed admission guidelines for the Faculty of Mathematics, the faculty of which you should be interested in.

1. Are you capable of reading and understanding math textbooks?
2. Do weariness and depression not bother you?
3. Are you willing to accept line-ups and large crowds?
4. Do you have enough patience to out-wait SuperPETS running Waterloo microPascal Version 1.0?
5. Do you procrastinate regularly?
6. Can your body adapt to six hours (or less) of sleep a night?
7. Can you survive an all-nighter?
8. Can you live on doughnuts and black coffee?
9. Do you know the Greek alphabet and/or the APL character set?
10. Can you survive Orientation Week?
11. Are you into 60's-type music or "new" music?
12. Are you willing to write for mathNEWS?

As you can see, the successful applicant will have no trouble adapting to University life in this faculty if (s)he is admitted on these grounds. Similar tests could be written for other departments and faculties, and even the Villages and Church colleges.

Glenn McFarlane

## Welcome to F. A. S. S.

Greetings frosh and old-timers alike. This fall term, you are invited to become involved with a group of people known as the F.A.S.S. Theatre Company. F.A.S.S. stands for Faculty, Administration, Staff and Students, with students being the majority. We exist for the sole purpose of partying, and creating and performing a wonderful musical farce comedy in the first week of every February. Long before the show comes around, though, the writing committee meets throughout the fall term and creates a script. Then in January we have auditions and parties and rehearsals and more parties until finally we have a SHOW, which runs for four nights in the Humanities Theatre to often sell-out crowds. Money made from the shows is used to pay for the next year's parties and show, with surplus funds being used to buy various much-needed supplies and equipment for the theatres on campus.

Interested in acting, singing, dancing, technical work, costumes, make-up, writing, telling jokes, and generally having a good time? Then drop by the FASS booth in the Campus Centre the first week of classes and chat with our representatives. They can give you further details of what we do, and they will invite you to the Annual Meeting and Party later in September, where you will be formally introduced to our own particular form of craziness and humour. Posters and notices in various campus papers will tell you when and where it will be held. Also this fall, FASS will be sponsoring a coffeehouse, so keep your eyes open for news of this, too. Hope to see you in September!

## Scavenger Hunt

Scavenger Hunt! Retrieve parts of the campus to win. Yes, you too can become a sly, cunning thief by participating. This event is sure to be the greatest event of Orientation Week! Come out for a super time.

## Theatresports Waterloo

What is Theatresports? To put it simply, Theatresports is an improvisational game between two teams. The teams challenge each other to types of scenes and the audience fills in the rest of the information required by the actors. When the scene ends a panel of judges rewards the team with points scored on entertainment value.

Theatresports began in 1976 in Calgary. Keith Johnstone founded the Loose Moose Theatre Company there, and the Loose Moose is the home of Theatresports. The game is played in Vancouver, Calgary, Chicago, and Copenhagen, to name a few places. It came to Waterloo last September through the efforts of Linda Carson and Preston Gurd, and spread to Toronto shortly afterward. In fact, many people from Waterloo are organizing Theatresports Toronto.

The proximity of Toronto to Waterloo makes for a natural rivalry between the two Theatresports groups. Waterloo currently leads the series between the groups 4 games to 2. The important thing is, however, not to win but to have fun.

So much for the background. To play Theatresports is an experience in itself. You have a vague idea of what type of scene you are playing. You never know what the audience is going to fill the blanks with. (Example: you must do a scene called "In a, with a, while". The audience tells you what you are in, what object(s) are around and what you are doing.) With that information, you and your teammates must improvise a scene incorporating it all somehow.

It sounds like a harrowing experience, doesn't it? Well, it isn't all that bad. You should have a sharp mind; after all, you're coming to Waterloo to study, aren't you? If you are interested in playing Theatresports at all, come to the second season kickoff on Friday, September 17 (location and time have yet to be announced — Watch for posters) and the Novice Workshop to be held on Saturday, September 18 somewhere in the Campus Centre. At the workshop the basis of improvisation as applied to Theatresports are taught and a short game is played. Come on out and join the fastest growing form of theatre around.

## The Warriors Band

Of the many traditions that have arisen in Waterloo's history, few are as visible and none as audible as the University of Waterloo Warriors Band. This year the band is celebrating its sixteenth anniversary with much Pomp and Circumstance (and The Stripper, Can-Can, and more school songs than any other University (in the city)).

Since 1966 this unique blend of some of the best and worst musicians around has enthralled crowds at athletic events here at Waterloo and across the country. It's enthusiasm and spirit are unmatched by any other University band.

All you budding instrumentalists out there are welcome to join us for our Third Annual Complete Destruction of the Western Mustang Band, to take place in mid-September in beautiful London, Ontario. And of course we'd be pleased to have you as a member for the rest of the season and playoffs.

Join and find out why Dick Beddoes calls us "that band from Waterloo", or why we call ourselves "One of the Bands in Canada". Simply show up for an (unofficial) Practice or contact this year's Chief Centurion, Cathy Brown (and her Band of Renown) at 884-4134.

I certainly had a lot of fun in this group and I'm sure you might also possibly. The Band has lots of instruments for those of you who don't happen to own your own francophone, shoehorn or whatever. So as you can see there are absolutely no excuses for not joining. Give it a shot. The worst that could happen is that we would drop you into a vat of burning gasoline.

Steve Haymar  
Former Ex Chief Centurion (IX)



## Lust and Delirium in the CSC

"Moscow next!" shouted the dodecahedron.

"And then Istanbul!" screamed the tetrahedron as it ricocheted off the small gong. "Soon the Moon!"

"What colour pin do we use for clones? I thought we would buy some next year. You know we need a different colour for clones!" This came from a bundle of clothing on a revolting dirty turquoise excuse for a collection of foam-filled dust masquerading as a couch.

"The chartreuse pins with the burgundy dots are for clones. That was decided at the last executive meeting," piped in H., the only human being in the room.

"I think we should nuke everything indiscriminantly. No one deserves to be happy. At least not today. In any case, what can one do with people who write programs with assignment statements? Nuke everyone!" Obviously distraught, the speaker stood up and started flinging his fist about. He punched a largish hole in the door, but seemed not to notice.

"Oh, sit down! How can you act depressed? It's like finding a whorehouse in the Sistine Chapel! It must be from hanging around that capitalist pig. Oh, look, you really can't be serious. Silly bunny: be happy! What do you have to be sad about anyway?" The human being was just about to launch into yet another full scale monologue which everyone would find tremendously amusing but not at all instructive. Except . . .

"H., shut up or I'll hit you." A wirehead appeared at the office door. "Why is it that only you and I are not depressed? Even Mr. Reasonable" (who is noticing his injured fist) "is depressed. Could it be Women?"

The bundle shouts, "No! Men and CS 370! Arrrrggghhh!"

The human adds, "Look, you're all being silly hares. A bunch of hacks mooning about females. Totally pitiful! What if I fix you up?"

In real time: "Me too?"

"I don't handle men." (The human.)

A head pokes in the door. "Pardon me, but I thought you handled everything." The head disappears.

"So, what are the latest statistics on Her? i.e., how many males are hopelessly in love with her this minute?" the wirehead (who is immune with his own passion) asks the group in general, "Anyone know who she likes?"

No sooner do these words leave his lips than no less than four and one half male CS types fall on the ground, pull at their hair and start screaming (quite competently, I might add), "Such legs! Such a T-shirt! Such a skirt! Oh, Woe! Anyway, she's a 9.3!"

The wirehead electrocutes himself temporarily, "*A Seven!! A Seven!! A Ten is . . .*"

"We know who you think a ten is, thank you." (H. to the rescue). "Get up off the floor. You'll give the club a bad reputation. Our fans will abandon us. We'll have no money left to misappropriate!"

At just about this point, the room and the people in it start to waver in the heat of the winter air conditioning. Each one shrinks to 3 feet tall (except H.; he shrinks to 5 feet tall) and moves more closely together to allow the other 50 people waiting in line outside the door to pack themselves into the small chamber. The geometric solids metamorphosize into Real Human Beings. Several people sit on the bundle of clothing ("Ahh. Warmth!") And H. sits on several people.

"So. How much did it cost? Where did you get it? Who sold it to you? Is it registered with the Registry? Is it valid? Do you care? Will I listen if you say you don't?" says a sandy haired fellow with nice legs whom no one ever expects to be anything but a frosh. "I won't talk to you unless you cost more than 50 pounds sterling on the international wombat trading market."

A length of human intestine and muscle interlaced with some spokes and sprinkled with ball bearings chose this moment to fall from a hole in the ceiling.

"Just checking the archives, folks. There is a complete CRAY 2 in there with a front end and a peripheral system."

His statement is met by blank stares. "What's her name?" says the current mild mannered president. "You know I have this incredible talent at being laid back yet wondrously persuasive. Perhaps we could have her give a strip talk next Thursday."

"It's a computer! Not a girl!" the bicycle cum meat grinder reiterates. "You program them!"

"It would be nice to program her." The president falls under a desk. "Ahhh."

"That would be telling." A hollow echo filled the room. Heads turned: it was Humphrey Bogart on the couch disguised as a comic book.

This incredibly provocative statement brought forth the following comments from the multitude (except from a TTWIAHA speaking with God over the FX line to Heaven):

"Are you sure? Can it be logically demonstrated that you shouldn't disambiguate me with a shotgun? Or a nuclear potato?"

"I wonder what the best way to satisfy a nuclear potato is?"

"Can someone warm me up? Pleeeeeese?"

"Is sex functional?"

"That would be telling."

"What's sex?"

"That would be telling."

"Did you see the shirt she was wearing?"

"Yes dear?"

"STOP SMOKING IN THE DAMN OFFICE!"

You all don't know what you're talking about!"

"Can we well define the shirt she was wearing?"

"Does anyone want to punch my Garfield dall across the room?"

"Pooh Bear!"

(quietly) "I hope you all realize that I am taping this. heh, heh."

"What did it cost?"

"What did the ink-stained person just say?"

"What did it cost?"

"No, before that!"

"Hmmm. I don't remember. Oh, well."

"I want to disambiguate my lack of warmth. Someone come and sit on me."

"Where are you?"

The ink-stained person plugs himself into the wall and presses "rewind" . . .

GAP . . .

"Hey! It's Monday night. Where do we go for dinner?" (H.)

Everyone: "Too broke tonight. Can't go."

H.: "What do you mean, you can't go? Of course you can go. There. That's settled. Where are we going? You—call the bearded wonder at CCNG. We'll go to PX. The floor show is unbeatable."

"I hate Chinese food," yells the last of the really obvious looking hippies.

"Anyway, I am allergic to tablecloths!"

"But you don't go for the food. You go for Irene. And the guava juice," says H.

"Guava juice?! Right!" says Mr. Reasonable. "Who needs women when you have guava juice?"

"I'm just here to keep warm while I wait for my output and look somber." The office has a speaking coatrack. "I have to go be bored and disillusioned tonight."

"NUKE THE LIGHTS!" screams everyone in the room.

"No!" comes a reply from an office in the back hall.

"Gleep."

"I like speed," comments a leather-clad newcomer. "Without it I'd be just another C&O grad."

"Dinner, guys!"

"That would be telling."

"Say, who's the treasurer?" asks the president. "I thought we kept him in the cashbox but he wasn't there when I looked."

"Hey! In the lobby! Look! It's Her!" a warning comes from the watchman at the gate.

All the folks in the room (except two) look at each other dumb-founded. Then they gallop wildly to the lounge. They gallop through the door, they gallop through the walls, they gallop through everything. The Math Building falls down in a heap of rubble.

The bundle of clothing sighs, "At least I'm warm now."

The leather fassist adds, "But what about dinner?"

That would be telling.

For your pleasure . . .

## Babel Rap

by John Lazarus

and

## Sexual Perversity in Chicago

by David Mamer

Two one-act plays  
for your entertainment

For mature audiences only  
Coarse language and such may offend some

Theatre of the Arts  
September 8th to 11th  
Watch for notices

Sponsored by the Creative Arts Board  
of the Federation of Students



It is usually the dubious privilege of the editor to fill ~~the~~ this space with self-indulgent, ego-inflating, incoherent stuff while thanking those who helped with the production of the issue. The masthead is also the home of many ~~type~~ ~~typographical~~ typographical errors (and hence x's). Who knows? Perhaps one of these years you'll get a chance to write one, too. Anyway, here goes. Production Staff: David Leibold, Glenn McFarlane, yours truly. John Bast, ~~of~~ Imprint's production manager, did the typesetting for us, while another Imprinter, Sylvia Hannigan, did the proof-reading. (There is nothing wrong with being an Imprinter--I'm one, too!) M Graphic Services did the ~~print~~ printing. Contributors: TracEy Allen, Dave Graham, Steve Hayman, William Hughes\*, David Leibold, Glenn McFarlane, Gillian Teichert, David Till\*, Tracy Tims, David Wilkie. ~~My~~ My thanks go to you all. Contributions were also received from the Federation of Students on behalf of the Ombudsman, and from the Math Undergraduate Office of Peter Brillinger. Thanks to Dr. Ian McGee for the support. So much for that. Now what do I fill the space with? CAPS' ~~message~~ "Message from the President" wasn't rewritten in time for ~~my~~ ~~me~~ me to get it typeset--that's the way this past month has gone. I just finished 5 exams in 5 days...what a way to end first year...and now its a rush job on mathNEWS. Don't worry about not getting his message; it'll be printed in a couple of other publications--I try to keep most of our stuff unique. Besides, you're going to meet him in a while. (That's another part of Orientation Week--meeting people who are doing these things for you as well as those who'll be in your classes for probably the next four years.) Ahh...three weeks before I start my work term--~~perhaps~~ perhaps my mind will go to ~~another dimension~~ some place where it can recover while my body regenerates itself. That's it! I hope to see you all in the fall (but not at once!). Best of luck to you all. WJJ.

\*former mathNEWS editor

## Orientation Week Calendar

Monday September 6	** LABOUR DAY HOLIDAY **
Tuesday September 7	
Wednesday September 8	<ul style="list-style-type: none"> <li>* Faculty Orientation Talks</li> <li>* ELPE (watch for details)</li> <li>* Coffee House, 10 p.m. Math bldg. third floor lounge</li> <li>* Coffee available all day at MathSoc Drop-In Centre, 3rd floor lounge</li> </ul>
Thursday September 9	<ul style="list-style-type: none"> <li>* Scavenger Hunt! 12 noon, third floor of Math building.</li> <li>* K-W Pub Crawl - meet bus at 6 p.m. behind Math building.</li> <li>* Fun Crawl - leave at 7:30 from behind MC building.</li> <li>* "All nighter" - Dining Hall at Village 1</li> </ul>
Friday September 10	<ul style="list-style-type: none"> <li>* Magical Mystery Tour - meet on road behind MC at 2:00 p.m.</li> </ul>
Saturday September 11	<ul style="list-style-type: none"> <li>* Elora Gorge trip - bus leaves at 10 a.m. from behind MC</li> <li>* Casino Night 8 p.m. in the Psychology Lounge (PAS 3005)</li> </ul>
Sunday September 12	
Monday September 13	** Classes Begin (Aww...) **

DETACH THIS AND RETAIN - NOT ONLY FOR THE CALENDAR  
BUT FOR THE TIMETABLE ON THE OTHER SIDE...

# math NEWS

## Timetable

Name

Term

	Monday	Tuesday	Wednesday	Thursday	Friday
8 <sup>30</sup> (ugh)					
9 <sup>30</sup>					
10 <sup>30</sup>					
11 <sup>30</sup>					
12 <sup>30</sup>					
1 <sup>30</sup>					
2 <sup>30</sup>					
3 <sup>30</sup>					
4 <sup>30</sup>					
7 <sup>00</sup>					



don't miss...

THE

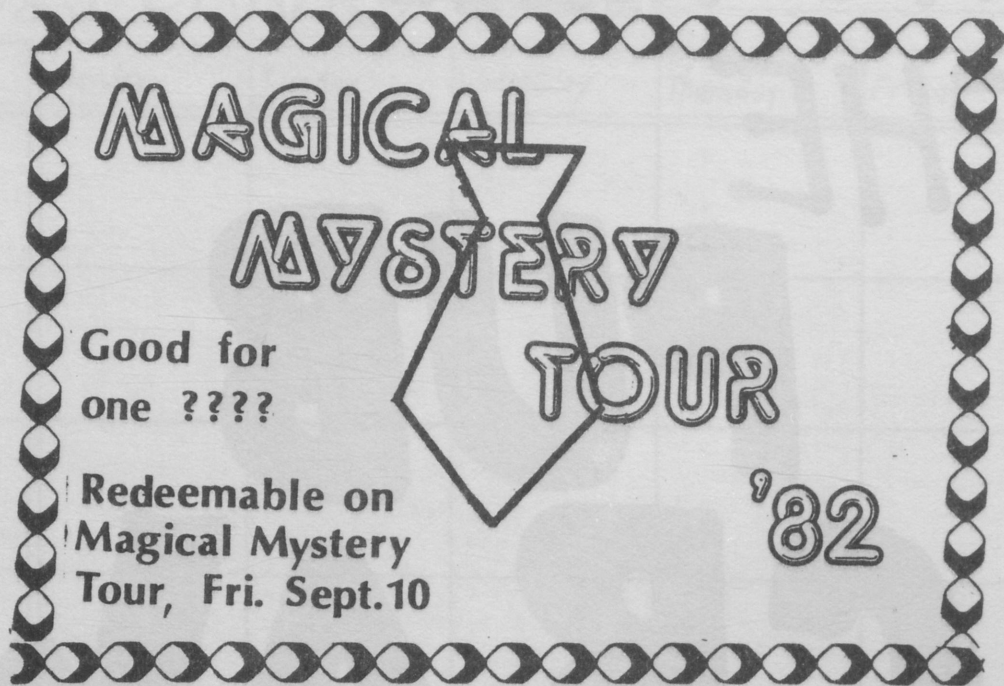
# PUB CRAWL

the primo event of Orientation

COME OUT TO THE MATHSOC BUSES  
& HAVE THE TIME OF YOUR LIFE!

**25 BUSES OF PARTYING STUDENTS!**

Buses load at 6<sup>00</sup> pm  
on Thursday, Sept. 8  
behind Math building



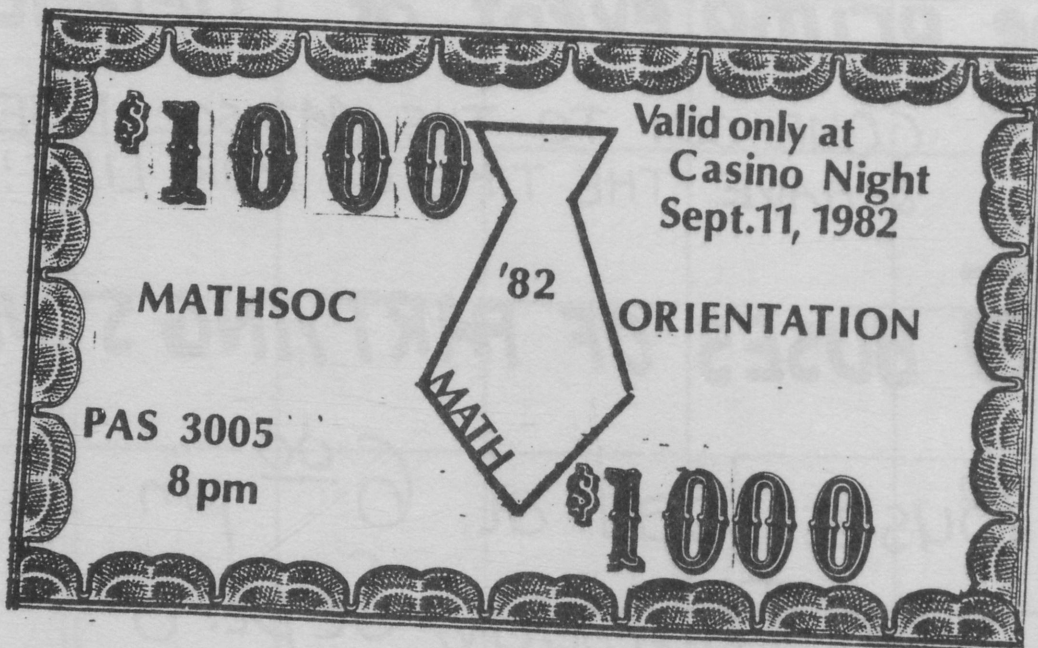
MAGICAL  
MYSTERY  
TOUR  
'82

Good for  
one ????

Redeemable on  
Magical Mystery  
Tour, Fri. Sept.10

A coupon with a decorative border of repeating diamond shapes. The text is arranged around a central inverted triangle. The words 'MAGICAL', 'MYSTERY', and 'TOUR' are stacked vertically, with 'MAGICAL' at the top, 'MYSTERY' in the middle, and 'TOUR' at the bottom. To the right of the triangle is the year ''82'. To the left of the triangle, the text 'Good for one ????' is written. Below the triangle, the text 'Redeemable on Magical Mystery Tour, Fri. Sept.10' is written.

Save coupons for Mystery Tour & Casino Night



\$1000

MATHSOC

PAS 3005  
8pm

'82

MATH

Valid only at  
Casino Night  
Sept.11, 1982

ORIENTATION

\$1000

A coupon with a decorative border of repeating scalloped shapes. The text is arranged around a central inverted triangle. The words '\$1000' are at the top left and bottom right. The words 'MATHSOC' and 'ORIENTATION' are on either side of the triangle. The year ''82' is on the right side of the triangle, and 'MATH' is written vertically along its left side. Below the triangle, the text 'PAS 3005 8pm' is written. To the right of the triangle, the text 'Valid only at Casino Night Sept.11, 1982' is written.