

Woodstock was fed up. Sick and tired of being depicted in Charles Schulz cartoons as either
(a) flying upside down (b) being blown away by random gusts of wind or (c) being whomped on the head by Snoopy's tennis serves, Woodstock decided to get away from it all. Naturally, he headed to Waterloo - he had heard rumours of the beautiful campus, and decided to investigate.
And indeed he was truly content - the grounds here are lovely - until one day he made a fatal mistake: he went too close to one of those guys wearing green uniforms. He was captured, and served up as....


People Watching
or
Where Are The Best Spots On Campus To See People?

Since you're going to be new on


Fie Lawn! There's yous of law
and but the one that I'm referring to the one between Biology 2, Math \& Com-
high traffic area. Attracts Villagers, Bible
Belt-ers, people from Sunnydale, Robinwood, and points north, along sun and a good place to play frisbee when Pubs \& Dances: chance to meet new people.
fun at a low cost and, if you don' lots
$\square$
Line Ups: scenery

Class:

## MathSoc <br> and What It Does

If you talk to anyone not directly cerned with the operation of MathSoc, quite possible to get a wrong impresof what MathSoc is really like

## M

gone on in the past. I sympathize to
ertain extent with these people: I was
rosh in $\quad 80$, and I have seen enough
However, MathSoc has had a facel-
This is the result of the work of peo-
who have taken it upon themselves to
the organization running again. These
$\qquad$
dering the problems faced by the So-
Perhaps the most difficult problems of all were
However,
difficult, it
least startin
letting the
The $m$
still, is 11
answer is
number o
Perhaps the
is because
it, or beca
out or act
events.
The ra
The C\&D
is one of
$\qquad$
$\qquad$
MathSoc also provides other types of
ices. These range from fundingrganizations such as the CSC and
nathNEWS, to providing the office-type
$\qquad$
$\qquad$
$\qquad$
$\qquad$
MathSoc
It can be helpful, enjoyable, or both, butin cither case, students are an essontial in-
DICHOTOMY
People are divided ..... into two classes:

Those who divide people inte two classes and those who do not.

## Orientation Week

Hello Frosh:
The following is your Orientation Week Schedule for events happening in and around -the Math Building (the big grey concrete one..). Other societies will no doubt have events as well, but they will fall far short of MathSoc's events. We hope you win enjoy the events we have put together for you.

MATH SOCIETY ORIENTATION WEEK EVENTS Wednesday. Sept 9, 1981

21:00 - 'Meet the Profs' Wine and Cheese/Buffet
the location has not yet been finalized
Thursday, Sept 10, 1981
12:00 - Scavenger Hunt Starts - Math 3rd floor Lounge
14:00 - Tug-of-War Challenge - Math/Biology Field 14:00 - Tug-of-War Challenge - Math/Biology Field 19:00 - Movie Night - MC2065 or 2066 Friday. Sept 11.1981

12:00 - The Incredible Meet the Log Photo and Parade Math/Biology Field (weather permitting)
20:00 - Frosh Pub - MC5136
Saturday, Sept 12, 1981
12:00 - Scavenger Hunt Judging - Math 3rd floor Lounge
16:00 - Frosh Barbeque - Columbia Lake Field or Island

We here in MathSoc hope you will (a) attend, (b) participate, (c) enjoy Most of the events are self-explanatory, and a whole lot of fun, but there are that should be made For examble if the Scavencer Hunt requires that you 'obtain that should be made. For example: if the Scavenger Hunt requires that you deotain a will be a Frosh.Barbeque, please don't throw your fellow frosh into the fire-pi

There is one thing feel I should warn you about. What I'm talking about is, well, those 'people' (they say they're human...) that inhabit the engineering buildings the dreaded ENGINEERS!! They will deny anything that we say about don't despair, it's all true! Engineers are (generally) loud, armed (but not d tend to drink large amounts of alcoholic beverages, and never, NEVER bunches ofless than 5 (that's so they can support each otleer when they retur drinking binge). There is one other thing which should be mentioned, this is the engineering mascot, the Ridgid Tool. This object is a 120 pound, $5-\mathrm{foo}$ painted wrench which goes on parade through the math lavilding chained to at least two engineers. Well, now that I have told you about highlights of life in and around the University, please come out and h

The Mathematics Society office is located in MC 3038. If you have any questions come in and someone will be able to help you with whatever is troubling you.......we hope.

## Interlude

## You don't love me anymore!"

## Huh?"

"You heard me! You hardly even notice me anymore - why, five years ago you'd have jumped when you saw me coming in! And now? Now, all you ever do is come hoine from work, mumble a few perfunctory words of greeting, and then disappear into your study for the rest of the night - sometimes I think that you're not human.

## "What!?!"

"You're just a MACHINE, that's what you are! A cold, heartless, unfeeling, uncarifg piece of rusted metal that's been programmed to give comforting responses but is incapable of the slightest depth of feeling towards other human beings!'
'You know that's not true, dear - you're just imagining things.'
"Imagining things...!!" Angrily, she exits from the room. We hear the sound of a door slamming, followed by the sound of angry footsteps.retreating down the hall. He sits in his study, remaining silent for a moment. with the only sound in the room being the distinctive hum of flowing current; then, with a sigh, he flips a switch near his shoe, and red lights start blinking on and off in the vicinity of his eyes as he lowers his retractable pods to the floor and glides over to his desk to continue with his work

And for those of you who throw nickels around like manhole covers, mathNEWS proudly presents.....

## THE MISER'S PAGE

but, some not worth visiting


Getting Cheap

Letters Pajamas' John Bay)
If" (Shaw festival Leisure," "Oscar ed," and concerts by Gagnon, Jim Galloway, Beth Anne Bob Greene, and dance productions utica, Les Ballets Jazz, Dancemakers The Pavlova Celebration. Also "Bal Bop Goes to War." Much more e prices than the Centre in the nd closer to home. There's also national Film Series you might
(4) We don't know what a make-out artist is (well, maybe we do, but ing), but a make-up artist is just one of the people who works $b$ year for FASS. We need people to work on make-up, costumes,
props, carpentry, publicity and advertising, and lots of other stuff people to organize FASS parties (we'll come back to those later).
(5) Where's the best place on campus to go for a good time? By nov have guessed that good times are to be had for all at our FASS PARTIES! In the fall, there may be such things as a coffee house, a ha winter. FASS will have lots of real whole or in part by the proceeds from the show itself.
We can't
it'll cost.
The point is that FASS is not just an organization that's dedicated to puttin
$\qquad$

## The Warriors Band One of the Bands Canada

hat it Is University of represents one Funded in 1966 our 15th an-impersona-
$\qquad$ Oh, for

## Galumphing Gourmets

article introduces the Galumph-
mets. We are a group of Facul-
nistrators, Staff and Students
ourselves eating out in the K-W
uently. The articles are put
yy jowinterton, and edited by a
roup according to who has
ed in the visits to the restaurant
view. Naturally, all real
will recognize the title as
ge, the Beamish Breat mathemat- who went
se back. For those of you who
to recognize the reference, we
to Through the Looking Glass
Dodgson, a mathematician of
K.
column has had its ups and
the last two torms, and has now,
he format outlined below. Our
urpose is to visit various water-
clandestinely and then review
h truth and beauty. Persons
galumphing with the gourmets
gent themselves with ample sup-
t which is Cacsar's at' MC30l3
700 on Mondays, fuesdays,
and/or Sundays. We do not
to be going anywhere, but you

## Rating System

ing of one to ten bunnies will be d on three or more visits to the Partakers in these visits the rating and attempt to arconsensus. In cases of dispute, n of the majority will prevail. of the column will act as a er if needed.
that will be covered in a rating presentation, delectation, and service. The price for mentioned in the article but part in the rating
10 ratings, there will be a seccolumn headed "Visited There is an implied phrase litle which you should since we do not plan to empoint. This phrase is "

This phrase is "... and
ature of this column will be the Rated" section. This is an ated precis of articles in previous with ratings and date of same.
Mathematics Society Coffee and Donuts
Stand Third Floor Lounge, Mathematics

## illage 11

General Appearance: General information ained by reading the ou when

The Room: Your first impression upon get all of my stuff in consider that 2 beds clothes cupboards, each room, it does zuad is 'modular' (I they
op of your de
iso comes equipped
pho
ek bourds (and not
o lamps. (one for

Amenities: Each floor has two lounges,
one of which contains the TV set and the
fridge for the floor. In addition, there is a
washer (coin-operated) and a dryer (free!).
Each quad has a carpeted lounge (a nice,
large room and therefore a large dance
floor for parties), an uncarpeted lounge
(most often used for squash or floor hock-
ey), a pool room (the pool tables are not
always in great shape), a study lounge and
a bicycle storage area. The main building
in the center of V2 contains the Great
Hall (used mostly for the writing of

## Previously Rated

The Laurel Room South Campus Hall
An inexpensive buffet on campus run by Food Services. An example of institutional operation at its best. Fixed price of $\$ 4.20$ per person for the buffet. $\$ 11.00$ a couple with drinks. Lunch Monday to Friday, dinner Wednesday to Friday. Dinner reservations advised.
5 bunnies
Marbles Restaurant 8 William Street East, Waterloo.
A good place to eat in beautiful downtown Waterloo. Behind the Donut Castle (next to Ali Baba's), this cook-toorder hamburger and salad emporium is well worth a visit. Recommended are the various hamburgers (can be had rare); featured salads, especially the whole earth ocado with crab louis and Wide choice of beverages from beer and wine 10 selected teas. An outstanding large milk. Meal for two Bunnies June 12, 1981 better), a tuck shop and the infamous Dining Hall
The Food: In the dead of night, when the moon is full, enormous unmarked brown trucks sidle up to the loading entrance of the Village II Kitchen. A group of sinister-looking men in green coveralls bring in truckload after truckload of dusty full of jars labelled in languages; these jars are emptied groups of wizened old in dirty white uniforms, who stir
the gruesome mess, cackling all
ly folks... The food in V2 tutional bulk cooking. are served, with a Unlike many erloo residences almuch as you want. The fresh and cold and the quite good (every Fri-

## Point-Counterpoint:

## THE DEPARTMENT OF CO-ORDINATION AND PLACEMENT

Point

acle workers behind
dent? Who finds all
r in the Want Ads
cks up on you and
en chewing bubble
the Department of lacement, convenientNeedles Hall (despite it's really quite a nice ilding, and used to be ices, a name which I pander too much to the
on, as viewed from the student, is more computer forms (not
00 ) make it out to be. ployee ('co-ordinator') area of the country,
Ontario, and keeps an spects opening up in
nitial co-ordinator interbe expected to submit ur fávourite resume know how to write one learn quick. When the udents to make your u must confront the Want nt listing of jobs available cre are a lot, if you don'ttenuating circumstances).ill spend two of your sixterms with that com-
duce 'work reports' on four you graduate.
maintain the minimum ourse work necessary to oop program, you will terms (that means two employment in the salary to $\$ 400$ a week, which lealthy average of about our four and two-thirds So if you have any your money is coming fortunate you, the this university. UW respected as people and experience in you will discover.

## Counterpoint

- you are given a lot of
crsity. One of the biggest s the department of co-
placement - the people
A large percentage of
oop programme. Be unds nice but it may not be o reiterate the major advan--op - it will increase your getting an industry-related job graduate. Thus, if you have olans in business or indusnay suit you greatly. Personal like being told, "You are the of the world" by fatherly Unless you are willing to odination's image of you, threc-piece suit and go out for d", i.e. you are not considered work term and must conTo me this was unacceptable. I extremely difficult to transfer from an academic environment tioning is the norm to a busionment where compliance is the ot have aspirations of entering world per se - if I do it will of a self-owned retail business nelated to my studies. Thus, imply a way to pay my way hool. This mercenary attitude upon greatly by co-ordinators ees alike.
you think this way, you have
- drop out of co-op or act as to work for your employer raduate.


## Math Students Do Well On Putnam

erloo team of Michael AlHughes and Guy Hulbert in Canada and eleventh
h America in the 41 st an-
Mathematical Competition
2043 students from 335 cipated, 12 UW students $20 \%$. UW coaches were

> Forte, Ken Davidson
> Brino

Grads score high in C.A. exams
Three of the top five Ontario students this year's final examinations for the hartered accountancy profession were graduates of the University of Waterloo. All three are holders of bachelor of
> 3. Math.) degrees; all three
> hematics (B. Math.) degrees; all three
cialized in the co-operative chartered option while undergraduates.
> irk was scored by UW
> Walden. Kenora, who will
> CAO gold medal. [Other Lynne Millar of Montreal Burlington. -ed]

## Microelectronics applications centre established

Waterloo is establishing
microelectronics applications centre, under the direction of Dr. Don Cowan, computer science, to serve members of the university who need assistance in the elopment of microelectronic and rocomputer applications for research teaching
Dramatic reductions in the cost and of electronic circuits over the past demicrocomputers are developed at low cost... and their
growing dramaticaty. ilable to Canadian veloping specialfare and hardware systems for
ude: consulting, applied research and
lopment, testing, system prototype
uction. fabrication, cir-
computer
well known for
ped and made
business and indus-
ment in microcom-nal processing, cir-ication, computer
d the design and
first Rhodes scholar
Michael Albert
arded a Rhodes scholarship toer to win this prestigious award.(ves, but he was ' $^{\prime \prime \prime}$ " at the time! -ed) andis graduating this spring, at 18 . Hecompleted four years of work in three,taking two degrees (in pure and appliedmathematics) as he did so. He is regard- students ever to study at Waterloo. The value of the scholarship has been set at 25¢.*

## abs choose Waterloo

has been selected to particigraduate program in computer employees of Bell Laboratories The company has evolved a support for employees who ndertake masters' programs in as computer science, electrical behavioral science, operations d mechanical engineering. The overs tuition, related educationd continues employees' salaries ar of study.
els the quality of the computer Iduate program at Waterloo university's inclusion in their is a real mark of recognition,"
Dean Alan George of UW's
Mathematics. "ll puts us in
company indeed."
of the American universities
nclude Harvard, MIT, Prin-
lumbia, Georgia Tech, Ohio
higan, Cal Tech, Stanford and

Number 10 .


## (Note: This article originally appeared in the Toronto Globe and Mail, February 28, 1981.)

## Who is that intellectual? And why is he laughing?

Two philosophical behaviorists meet in the street. One says to the other. "You are fine, how am I?"

What makes academics laugh? People not involved in scholarly pursuits themselves laugh at the idea of intellectuals giving vent to anything as immod. as a bellylaugh their order generally being considered more dyspeptic than j But laugh they do, though it's not always apparent why.

For instance, to laugh at the behaviourist joke above (submitted by Profess Derek Allen of the University of Toronto's philosophy department) the reader mus understand that philosophical behaviorists equate descriptions of mental states 1 organism with the observed behaviour of that organism. One question conc ing experimental procedure asks whether a person can accurately observe his behaviour. The philosophers in the story say no, and feel committed (humourousl ther data from each other before reaching a conclusion regarding their states.
Inside animosities are normally the richest source of inside jokes, and nowher steamier concentration of strong wills than in the insular world of the eslie Fiedler, a professor of English at the Amherst Campus of the State of New York, remembers that in his student days it was common for arts ience students to quip, "Ask any engineer to sum two and two, and h slide rule, and answer after 20 minutes, 3.99999999... (the literal ans slide rule)."
and applied scientists are natural enemies in the academic jungle, between the theoretician and the laboratory researcher yield more sub results. The following joke, submitted by Robert Logan of the University Toronto's physics department, makes fun of the aptitude of scientists for reach wrong conclusions:
A scientist is conducting an experiment with a frog. He sets the frog on a long table and says "jump.

The frog jumps 20 metres. The scientist notes this in his book.
The scientist removes one of the frog's legs, and repeats the process. "Jump he say
frog jumps 15 metres.
After removing a second and third leg, the scientist notes that on the command the frog jumps 10 and five metres respectively. Finally, he removes the final leg. the frog down, and says "jump."

## The frog doesn't move.

"Jump." says the scientist, a little louder.

## No reaction

The scientist notes in his book, "Frog with no legs is deaf."
No explanation is necessary, except, perhaps, to anti-vivisectionists.
Milton Babbitt, a celebrated American composer and member of the faculty of Princeton University since 1938, offers this mock maxim of musical analysis:

If it happens once, it's unintelligible. If it happens twice, it's structural.
Professor Babbitt suggests, quite persuasively, that this joke is aimed at incompetent musicologists "who think that to a point a minor third here and a minor third there constitutes analysis." But it also implies that the first part of the maxim implies that structural analysts have no means of dealing with spontaneity, something many people feel is a property of all great music, or the best of the Mills Brothers at least.

This maxim becomes a particularly intelligible demonstration of how jokes can charged both between and within fields of learning. Most interdepartmental ould be told with plausible malice between feuding proponents of the same All the joke-telling professor has to do is to convince himself that he is the sort of practice he jokingly attributes to his inferior colleagues. re clearly told at the expense of a whole department and all its Illen Gleason, of U of T's linguistics and English departments, hich levels two departments at a single blow: efinition of a sociologist?

But even social scientists with indisputable math credentials get in trouble, lack ision is the charge levelled at the statisticians when other scientists say, "If they
So one can be baited for having too little math or too much; there remains the matter of having any math at all. No figure in the university takes his or her lumps like the mathematician; three of the humanities professors I contacted immediately favorite joke while humming and head-scratching over a joke from their own
Here ae two math jokes submitted by Anatol Rapoport, the current director of Institute for Advanced Studies in Vienna:
Three people are stranded on a desert island: a physicist, an engineer, and a
hematician. They have three cans of beer. The physicist finds th
spends the can over it, waits for the can to explode, and drink
rock, and then a harder rock, forms a chisel, aims it at just th
the can, and drinks.
The mathematician assumes his can is open and drinks.
Each scientist opens his can in a way suited to his field of stud
its the laws of nature, the engineer is direct and mechanical. Th
fun at the often-criticized mathematician's habit of making otherwise
ranted assumptions for the sake of elegance.
r. Rapoport's second joke points to the mathematician's pract nceptual leaps with jargon:
mathematics professor is busy demonstrating a very complex proof to his riously chalking the blackboard with equations.
u can see, it is obvious that step $G$ follows from step $F$." The professor ri ing again.
rofessor." calls out a student, "is it obvious?"
professor looks at his work for a moment, and suddenly shuffes oard and starts writing new equations with equal vigor. hour later, he turns to his class, and says. "Yes, it is obvious. Ed Barbeau of U of T's mathematics department, however inclined reader something of a consolation in this joke: ician, a philospher, and a physicist go to Scotland. While taking countryside, they see a black sheep grazing.
sting," says the physicist, "in Scotland, sheep are black.
Oh. no," replies the statistician, "all you can be sure of is that in Scotland is one black sheep."
Wrong again." says the philosopher, "all you can say for certain is that in tland, there is at least one black sheep with one black side.
In this case, the statistician is the only one to draw a common sense conclusion from the problem; the physicist leaps to a generality, while the philosopher is absurdly over-precise.

Another theory of humor argues that laughter arises when a surpressed anxiety fi ds release. The anxiety being relieved can take on any form; any kind of thorn in
side is good fodder for jokes. If the anxiety is construed to be cerebral. many
ademic jokes - the ones showing what Professor Fiedler calls "self-hatred, er a self-reflective irony" - are convincingly explained as releases misgivings over the rigors of a certain way of thinking, or of thinking in general by

Dan Goldstick, a philosophy, professor at U of T , leans toward such an tion of humor at the university. "Thinkers use jokes as a method of getting evil ways; iokes expose reservations but also sublimate them. It almost ast think that to stand back and laugh at their follies and foibles entitles them to be forgiven for admitting them."

Professor Goldstick's joke, which he attributes to an anecdote sometimes told about an ancient Indian idealist philosopher named Sankara, eludes definitive analysis, but certainly seems to involve a release from the daily rigors of dialec materialism:

Once, in an old Indian principality, there lived a court philosopheri, who declared that all the world was an illusion. Action was useless, said he, for we live in a dream.

The local Maharaja, a man of a more practical frame of mind. man slumbering under a tree in the royal estate. Swiftly the prince elephant, and sent it charging at the philosopher. At the sound footsteps the philosopher awoke and scampered away like a rabbit the Maharaja took him to task.

## 'If the world is an illusion, why did you run?"

'Did I run?"' replied the philospher.
This story could easily be described as indictment of subjec weren't for the fact that there are no longer any subjective idealist er, their oddly comfortable position - they need not be persuaded evidence - has obvious infantile appeal. The return to such' su might be what triggers laughter into the listener.

## Matters of Course

## What to take \& what to avoid at UW

never read more in that undergrad ht. But when you of the eclecticity of they're taking El E you'll realize that her faculties' courses and yes, it can realu have to take some degree; make them that you should take allel your degree. Fine, terested in. Univerreally balanced never experiod to take a course ing to look forward to it; your overall
nd to improve by it
ote about electives: are given about electives for math only list to follow. In
any course offered in
ong as it has no pre-
rough a calendar; there
which may interest you.
attached to arts courses
way of educating your-
ething an all math degree will This is a large university with

- don't chain yourself to
ulding
ithout further moralizing, let's
curses we think represent UW's
pectrum of interests.
PHYS 121/122: If you take this course wind up crammed into an table seat in the main Physics Hall (Phys 145). This room has so you are forced to write on - as a result, your notes for this will be illegible. Still, you can't much from an introductory course the basics of anything are often uninteresting. The course textbook infumous Halliday and Resnick's Parts I and II, which (except for
practice problems at the end of each only useful for building up per body strength or as a paperYou could do worse than this one all, you might be able to use some tuff someday.
PHIL 140: This one is a well-known "Introduction To Symbolic guaranteed insomnia cure, since the class usually meets at one will help keep your aver-
ople that I know I didn't. For one ill their graphs ould you believe that the orizontal line is infinity, em? The textbook consists uch more than common cloaked in jargon; it should
might like this course, but to each his
ENGL 343: American Literature. I rathhis one, though doing two 2000during my 2 A term was out as much fun as having bamboo tuck under the fingernails. This tudies the Puritans, Benjamin Thoreau, Emerson, Hawthorne Allan Poe, among others.

SCI 205: This one is another famous bird class, the student learns elity sound; topics discussed:
forde resonance, harmonics, how stereo unction, etc. This one can teresting, especially if you (although you might not that much of your valuthe labs, since you don't much in them). The class too - would you believe film of the Tacoma collapsing, with Pink Run' as soundtrack? But class invariably meets at

## ENGL 208Q: Any course that studies

Orwell, Kurt Vonnegut, Aldous
Ray. Bradbury, Evelyn Waugh, Conrad and Jonathan Swift cannot bad! Seriously - this one's called Apocalyptic Vision In Literature",
and it's like most other arts courses - realod when there's a lot of discussion the students, but quite boring of spends the whole hour nding his theories. A nice change from the assembly-line first-year ourses, though.
CHEM 123L \& 124L (Labs): One of the urses where you can have three eek of fun singeing your hair bunsen burner while earning an exof a credit $(1 / 4$ for each of 123 L and The experiments are based on the I as the first year chemistry lecture This course should be considered if you are going to take chemistry any-

ENV S 111: Introduction to the Study of the Future. This is one of the all time great first year bird courses. It is only offered in the fall and usually fills up quickly. The course introduces some good futurist authors and there are often class discussions on such things as societies of the future,
roduction to Essay Writood course to take if you plan on taking any other Short read-
enlightens one on everything from the creation of the universe to how the heck anyone can see the animals in the well known constellations. Depending on who lectures the course, you will also find out about how to navigate in space (have you ever wondered just what in heaven a parsec is?). This is a good course to take during your summer term here as you will get the oppertunity to look at the stars from the Physics Observatory (no it's not an Ultra-Ban billboard!).
SCI 202 - Energy Yet another enlightening bird course, this course introduces you to the problems of the energy crisis and also the solutions. It teaches about various sources of energy that include tidal, windmill and even flywheels! (wow!). When I took the course the prof set up a tour of the Bruce nuclear power plant. I you. are pro or anti nuclear, take th course and you may change your mind.
SCI 270 - Nuclear Science This corse is taught by a well known authority in the field and will introduce you to the realm of the atom! (ta-da!) The material covered is not very exciting but informative (did you know that you can't become radioactive just by being near something that now you can live near Pickering!) About all that is required is a knowledge of grade 12 mathematics

## ed course!

## Unsolved Dilemmas of Modern Society



GRE MANGLED E, ILIEGIBLE OSTREENOSIGNO

Professor Goldstick, who emphasizes that he is not to be associated with subjecidealism, uses the joke as a way of pinning down that school of thought. Profesen also sees joke-telling as serving "a serious pedagogical purpose. not allowed to undercut the serious issue involved." from the mathematics department appears to fit the relief theory parody, actually, this one comes from the journal Crux Mathematicorum:
$\qquad$
To put out the fire, given a hydrant, a disconnected hose, and a house on

## ution: Connect hose and squirt house.

To put out the fire, given a hydrant. a disconnected hose, and a house not on
Sire Solution: Set fire to house, thereby reducing to previous problem.
In this case, the elegance of on-paper reduction results in real-life complication.
joke thus can be analysed as a release of suspicions concerning the applicabilit
ure mathematics to the real world.
The final relief-theory joke is submited by Professor Cornelius Silher of Uf
Fnglish department:
4 literature professor is asked whether he has read a book.
Read it? I haven't even taught it!"
Read it? I haven't even taught it!'
Professor Silber's joke is unique; it is the only in-group literature departmer
could find after a relatively exhaustive survey. Silber accounts for this
noting that "most of my colleagues make do without a large body of jargon, which
Idamental to much professional university, humour. I think there just isn't
strain of esoterica in the literary studies."
Iexander Leggat, a U of T English department professor and vice-principal o College, thinks that literature professors "tend to tell jokes more as hu-
than as thinkers. We tell jokes about character because we are aware of element in our work. Our greatest fear is that our characters will affect of literature." Professor Gleason, on the other hand, proposes that ature departments are uncommon "because they are going through being called into question. Enrolments are dropping.
Further analysis of this interesting state of affairs belongs elsewhere.
It has been shown that some jokes of the university are best analysed expressions of malice, some as releases of inhibition, and some as a combination of both. Still others appear merely to present listeners with an unusual juxtoposition of words or thoughts (a necessary part of all humour in any event), delightful for
own sake. own sake

As might be expected, the mathematics department, which has proven itself infinitely rich in jokes, has something to offer in this category as well:

It rained 40 days and 40 nights. At the end of the flood Noah said to the animals. "Go forth and multiply." And off. in pairs, they went.

Except the two snakes. "What's wrong with you?" asked Noah.
'Noah, we cannot go forth and multiply, for we are adders.
I see," replied the thoughtful patriarch.
So Noah went off to the forest with his three strong sons. felled some might
trees, and built a table of logs. Noah summoned the snakes.
'Behold where I have built a log table; now ye adders can multiply
(loppints); however, the judicious ould avoid the pastas, the 'swiss ustally referred to as 'hockey and the pineapple sauce, and anything covered with gravy the gravy congeals. Also, not as good on weekends (I Generally, I have

Idvantages to V2 Living: You will lot of your fellow ay, since there are 47 your floor. You will, lot of friends in a hurry never get bored. The floor en quite good. Also, a lot things can happen in residence fridge was stolen and placed by the bus stop near the Faculty Club).

[^0]The brass section sounds like a mixture of trumpets, trombones, tubas

If you join you will certainly have as much fun as I had, and it will make getting through school a lot more enjoyable.
Give a shot This vear's leader is Peter Oliver, one of the best bass drummers to come out of North Toronto Collegiate in many vears. He will be happy to give you all the details. Or open your eyes and look for the posters which will theoretically cover the campus. He lives at Renison, where : I think his phone number is going to be 884-8159.

The Band owns and occasionally

cause what else is there to do when you have given up on your hometvork?

Hundreds of millions of year
good frosh, I worked really hard through my

Band
regretted took. which wasn't regretted ted the money it cost, which was nothing. Often wondered why the basketball team, after finishing in the top 3 in the country for four straight years before I joined including one national championship, suddenly started to get worse as the hand got better. But those things happen. I began tof wonder why all of a sudden propaganda started to appear that stated indisputable axioms like loses parts of a reasonable stock of instruments, so not owning a francophone yourself is no excuse for not joining this 4infamous institution.
may hear about the quality of the band, unless you happen to be talking to a band member. Most people who criticize The Warriors Band have never heard The New Warriors Band. Come and discover what all the noise is about. Remember. The Warriors Band is bigger than the Beatles (numerically speaking)

It's not as bad as it sounds.

- 30 -

Rest assured you have not heard the last of this.

## Nothingness vs. Onethingness

Please don't worry, this isn't anything like your first Math assignment what you, the frosh, think about mathematical abstract article addresses itself to a warped branch of information the
in the last 30 years, which examines methods of commu the amount of 'predictability' it contains.
ou heard the first few bars of Beethoven's Fifth S vould say (without hesitation) that what is being played is in fact Beeth further notes tells you no more about what i n other words, after these first few notes, the music conveys no "informatich something like "A Fifth of Beethoven" by Walter Murph pple Band, or even "Roll Over Beethoven" by E.L.O. or Chuck Be

There is still some information yet to come.
By these definitions, random noise has the most information, and Gregorian chant B-52's music has the least.
So what am I getting at, hm? Imagine, if you will, two languages.
nguages with letters and words, but logical sorts of languages. One
at every statement you can make in it is valid, and the other is such that every statenent you can make in it is invalid. Which one is the more meaningful? A What do you think about this?

In the same way that the second language has no answers, the first one has no
stions! So let's imagine something where not everything is so predictable. We
ne where everything is uncertain. Or where everything let's consider a case where there is a division. Some number of
id, while all the rest are invalid. English is an example. For every valid string of finite number of strings representing gobbledygook. If you tried to of valid statements as a fraction of the total number, you'd get nonetheless.
People often talk about "making something out of nothing." Why must we be so everything be either something or nothing? Is there any happy
r comprehends this is more than welcome to speak with gods understand their language. English is such a language.


## Certainties

ainty. When your WIDJET going to toddle off its zeue When the bus is going to come. When, when, when is mathNEWS going out??
You will certainly suffer from uncertainties in your time here at UW. Not the least of which will be those which arise from living on your own for the first time.

You can be certain that no student in public office, even the village don, will act according to his promises (let alone his
can be certain that the Honeywell will be down at least once a

> WIDJETers needn't care).
can be certain that
Tener/Waterloo merchants will not irticle you really want, even if ble on every street corner in bus that might get you to never arrive
or mat never arive
You can be certain that any local resaurant named "The Barbary Coast" is so named because the owner-cum-bouncer used to be a barber.
can be certain that Waterloo's
vinds will blow in your face direction that is), except when crature exceeds $25^{\circ} \mathrm{C}$. Then the
II feel like a big soggy sponge. he name, Waterloo has very little water! Except for Columbia ch is an astounding four to six th.
enough discouraging stuff? No? Consider then that the closest liquor store is hidden up in Sunnydale at Parkdale Plaza, not at Westmount Place (the lents wouldn't allow one there, tudents would swarm all over -losest Brewer's Retail is alaway, on Weber at Lin-
ou're now getting used to you're' cynical enough to own. Enjo

INGREDIENTS: Ross Brown, Toni Tothill, Dave Till, James Puttick, Mike Gore, Andrew Welch, Alan Munn, Ashok Pate1, paper, ink, FASS members, bad jokes, Brad Templeton and/or Censared, Warriors Band (may include Steve Hayman, Kevin Tureski, James Puttick, Pete Oliver, John Oldfield), Jim Gardner and his wonder bun Mark D'Gabriel, J.R.R. Mathie, Jim Sellens, Peter Rowley, Calum T. Dalek, John Winterton et alia, Jane Roberts, Dennis Mullin, rubber cement, X-acto knives, Letraset, dead waxer, Scotch tape, Clearprint FADE-OUT pad (15c a page!), $\mathrm{Ph}_{\mathrm{o}} \mathrm{oTo}_{\mathrm{n}}$, HP 2648 A Graphics Terminals, newspapers (UW Guilelines, UW Notes, Globe \& Mail (includes Arthur Kaptainis), KitchenerWaterloo Record, some McGill student newspaper Ind an old decrepit, disgusting, execrable,

## Residential Properties

## KITCHENER, ONTARIO



EXFCUTIVE RESIDENCE
Located in Kitchener's most prestigious and exclusive residential area. It is beautifully landscaped and very well maintained and contains 4 bedrooms, library, large living and dining room. A spiral staircase rises to the and floor from a large foyer.

Interested purchasers please contaot
W. K. RANDELL
(519) 885-1211, ext. 3718 Monday-Friday 9 a.m. -4 p.m.

## Suitable for high-salaried co-ops. Previous tenant: outgoing UW prez Burton C. Matthews...

## Monologue

CENSORED
the mathNEWS policy of cal time for opposing views. column is printed. for it will

Before<br>opinions<br>are yours.

;
Gqod whatever, (it depends on what reading this) and welcome to first Monologue of the term. column of philosophical rtation designed to fill space in No holds are barred, and e printed specifically for sparking controversy. il replies are encouraged, toes and other garden

the fellow whose name DOESN ${ }^{\text {appear }}$ at the
of this column and on must or my ID ds, a fourth year student in the CS professional microcomputer thor and avid member of ch column is headed by an II. enough the theme of 11. enough useless inforis week's edition. olumn, and indeed this entire thNEWS, is aimed right at the (I don't know what I am writing this
we use is down for the installation of B) You are now entering what the most influential stage of At University, not only ducated, (fat chance!) but fience a social setting very hat most of you are used very different from what nce in the great beyond. you will be forming important opinions of ew knowledge and way of ront you will change your ou must therefore ensure
the ne
ue to
orld our opinions, not just ones that be convenient for your ndings. Make sure you are not be$d^{\prime}$, for that is the road to becoming nother member of the masses.

I bring this to your attention because II. shortly be bombarded by all kinds of people claiming to have your interests at heart. These are people who have, as I once did, fallen victim to the disease of Politics. In order to assert their own importance, they make up $s$ for other people to believe in, and et about proving to these people nuch they believe in these causes. $t$ U(w), we are loaded with this You will find them in the FederaStudents, in hSOC, and on the f newspaper such as the Imprint Chevron. ch as the Imprint
ney will tell you 11 the important student causes you believe in. They will tell you how poor you are how the Ontario Stereo Assistance Program doesn't cover it and how The Evil One Dr. Bette Stephenson (Minster of Colleges and Universities) is trying to suck away your lifeblood and that of your. school. You can listen to these people. But please remember they are politicians at heart and take what they Sa) with a shaker of salt.
$u$ are going to make up your mind that students are the oppressed minor of today, then do so only because vou actually see it. Do it because you see it as an actual problem, not befun game to carry placards Remember that over $85 \%$ of idout body on this campus cares so these politicians that they
vote for them at elec-
those people up there spending your money were approved $5 \%$ of the student body. So hen you hear: "I have tudents behind me when I being counted in with Is that your only role? oning something and only 'thousands'?
ortant thing to remember is that your opinions are your by thought in addition to learning. You can't go far wrong with

## MFCF Blurb for mathNEWS

# The University Transition 

First year people often don't realize how many computers there actually are on campus. They see the machinery that isplay in the Red Room, they suffer through the many agonies of Widjet. and they wonder if that's all the university has to offer

Well, there's good news. There are dozens and dozens of computer systems on campus, in Engineering, in Science, in Arts and Kinesiology: micros, minis, and a few full-sized systems. A good many of these systems are owned and operated by the Math Faculty through the Math Faculty Computing Facility -- MFCF for short.

The best known MFCF computer is the Honeywell 66/60 (often referred to as "the Bun" for reasons that are much too obscure to go into). The Bun lives on the third floor in MC 3016. It's behind closed doors, so you can't really see it in operation the way you can see into the Red Room. However, there are lots and lots of terminals in the neighbourhood of the machine room, so even if you can't see the computer itself you can watch people working with it.

The Bun is used for many purposes. Students in many upper year Math courses are automatically given Honeywell accounts to help them with their work. This applies to more than just Computer Science courses; people in and Stats, for example, often use in when they have to do a lot of cated calculations. The $66 / 60$ also cilities that allow you to format and edi text quickly and easily. Because of
this, many co-op students write their work reports on the Bun or use it to write theses and essays. (Speaking of writing ting, this article is being written on 60; mathNEWS itself is prepared mputer and typeset on the PhoEconosetter, a typesetter that is ked up to the Bun.)
There are many other uses for the eywell system. Many people use the neywell MAIL system as a convenient ins of communication with groups of nds. In addition to the programs they e for assignments, students often write nal programs for any number of And of course, the system has a ction of computer games that be played in low use hours.
MFCF owns several other computing besides the Honeywell. For NIX system just Bun, in MC 3014. stem and therefore chine; for several PDP-11 recently MFCF DEC VAX machine which place the PDP-11 in the near fu-
There are several courses which veral courses which
NIX system. Those UNIX always comment of the control language hich you can get work

If you happen to visit the UNIX room to see the machinery, make sure you have a look at the Hewlett-Packard Graphics terminals that are in the same room. These terminals are more than just typewriters with TV screens attached; they can be used to draw quite complicated pictures. If you're lucky, you might be able to look over the shoulder of a Graphics student as he or she is generating interesting designs. In addition to these terminals, there are one or two colour Graphics terminals hiding in a backroom on the fourth floor. Examples of colour computer art are often displayed in the trophy case on the fifth floor of the math building

Besides running the many computers owned by the faculty, MFCF personnel also write a good deal of software that is sold outside the university. In this way, MFCF has built quite a reputation in the field, doing contract work for Honeywell and other companies. To maintain this reputation, MFCF is constantly in search of people who are interested in programming full-time or part-time. Just because you're a first year student, don't think that you aren't good enough. First and second year students are looked on favourably because they can take a term or two to learn the ropes and still have plenty of time to contribute (hiring fourth year students is often pointless -- by the time they get the feel of the job, they're ready to graduate)

If you're interested in programming for MFCF, contact Peter Fraser in MC 5048. If you aren't a programmer, there are other positions that might interest you. Every term several co-op students are hired to be operators for the $66 / 60$. If you're a grad student, you may be asked to act as a consultant to stud nts who work on the Honeywell. Fin lly, here are usually one or two special MFCF projects every term that need people to help with experimental programs or short-term contract work.

During the cold winter months to come, it is quite possible that you will find yourself working on Widjet at two clock in the morning, stuck in queue poand wondering if this is all there Be assured that it isn't. There life after Widjet, and a good portion of the friendly people of MFCF

## It is possible to fill up excess space in mathNEWS

 in many ways. One methodis the use of meaningless sentences which are of sufficient length to cover up all those naty white spaces which mar the appearance of what otherwise would be a quality publication. You may well ask: "How does one think of suitable sentences?" The point is: no thinking is necessary. The typist merely puts down on paper anything that his tiny little brain can dredge up, all the while glancing at the barren space on his page to see whether he can end this farce or not. Glory be! I think I've reached the bottom!


Everything here is great, except for the food! There are these people here called But yesterday, I was in the 3rd floor lounge of the Math \& Computer building
here's this place called the C+D... no, it's not a new hallucinogen, and has nothing to ill sorts of great food there:
For breakfast, there are all sorts of doughnuts, muffins and bagels. They ha
coffee, tea, soup, hot chocolate and all the different kinds of juices you could think instance, yesterday I had
ed tea... all sorts of stuff! prices are the best around!

Tight on money? Herewith a guide on how to shop for a part-time job in K-W

,


## continued from page 14

Meetings are weekly and are usually somewhere in the Math building. ship fees are currently 50 cents a Our office is M\&C3036 (and is netimes open). There is a club library books (about 1000), magazines (AnaOmni. Dragon), games (a dozen or and assorted fanzines. All of these available to members who wish to borrow them.

We produce, on an irregular basis, a newsletter, WATSNEW, in which articles on diverse topics, such as reviews (movies, games, books, conventions et al), announcements (upcoming conventions \& tournaments), science news, results of sf\&f awards, poetry, D\&D hints, stories (which sometimes take years to finish...
talk about cliff-hanger endings), contests, surveys and anything else the editor can get his hands on.

As our constitution says, the aim of the club is to "promote science fiction and any other activities the membership deems interest." The other activities of inare entirely a function of the people decide to join the club. So why you come to the organizational meeting for the new term (second week of September) and see what it's all about. And if you're really interested you can become one of the executive (elections are held at the second meeting for President, Secretary, Treasurer and Secretary of War).

It's too late, you have crossed the equality threshold and have landed behind enemy lines. No, it's not that bad, except that you must now absorb this thing we (erroneously) call a MASTHEAD. Something like an ERASERHEAD, only more vile and public. This is wherre (french spelling) the demented editor, or whoever be awake at the time the pages are completed, rails on about the exams he will fail, how much his head hurts, and being generally obnoxious about how little real creativity he possesses. Or how little knowledge of speling (I swear that 'twern't intentional - ask Mr. Till::!) and grammar he has Oh boy, now I have a whole $8-1 / 2$
,
except that we didn't nail that article down too well, and so that line had to isSN 0705-08s! what a mess. To use Liquid Paper on such a disaster would be a denial of my desire for entropy. Wait, wait, the moster (monster) has awoken! Dave's fingers are waving through the air, he wants to touch the keyboard - he needs it! Oh dear, oh dear, oh NO0000! K HG URKSDKF UE JHFW RKKJKHDF jKJFHEF JER
I've been mortally wounded by an auto-repeaty hyphen key $: 6!$. I am destined to live out my days in that land of Silliness which has

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## Confuse-A-Frosh ${ }^{-1}$ Dictionary

Most of the stuff you read in this issue is designed to help the young, helple year students figure out what the hell is going on around here. Theref guide to this here university. (**snick**)
Artsie: A person who spends his time discussing the true meaning of life. (He time, because he has one-tenth the work that we do!)
Hack: (l) May be found around terminal rooms at about 4 am . However, not confused with CS370 students!
(2) It is hard to define 'hack' exactly, but look for these tell-tale signs:
(i) a tendency to speak ASCII
(ii) (or EBCDIC)
(iii) withdrawal symptoms when the computer is down
(iv) knowledge of 2048 programang languages

Village II: (also known as 'the zoo') Need we say more?
Village I: Same as above, except with single rooms
Village Food: In two words - it's consistent!
Co-op Students: People who sit in classes for four months and take up space in that they can go out on work terms and make MONEY!
Engineers: Unfortunate, loud-mouthed beings who cannot read without moving lips (and the page).
MathSoc: Always loud, mostly helpful place where people can go when confused.
CSC: Nice place to go when you want to sit down and talk about computers, sailing, Hunter S. Thompson, flying.
Bombshelter: A place to go after exams (it's the campus pub in case you didn't kno Watpubs: Places you can go on your work terms if you're homesick for th Bombshelter
'BUN: (a.k.a. honeybun, honeywell, COMPUTER!!!!) One of the better, olde least reliable systems on campus. (This rag is produced on said machine!!) If not going well for you, you can always sign on at 3 am and play ADVENTUR Very instructive...you will learn new and exciting words such aṣ GCOS and DATA and concepts such as CRASH!
WIDJET: Everybody uses it and Nobody likes it!!!
IBM: (a.k.a. Itty Bitty Machines, Incredibly Bureaucratic Machinery, I Been Mc etc.) Company that manufactures freezers that think they are computers. Soon the way of the horseless carriage, the $5 \delta$ cigar, and the 95 c dollar.

## UNIX: God

Pub Crawls: And you really do!
Games Room: A way to support the Feds.
Arts Library: (a.k.a. The Great Sugar Cube In The Sky) Mostly used by artsie contains material of interest to others (i.e. Playboy on microfilm) - enormousl white object visible at a distance of several miles and looking like a monument to capricious war god. (This building is slowky sinking, so watch
Engineering Lecture Hall: Disgusting-looking subterranean structure into which (n-1)-
Math and Computer Building: Where you'll be spending the rest of your natural-born building with bizarre room numbering of either 45 or $95^{\circ}$ (Fahrenheit).

Physical Activities Complex (and it has one!): This is where indiv 10,000 of you sit in the same room, all writ


Kitchener Transit bus routes that pass through or travel near the university:

7 - Mainline
8 - North \& South Loop
9 - Lakeshore \& Lincoln
Bus schedules are available in the Campus Centre near the turnkey desk for more information call...
Kitchener Transit
Transit Info 885-7373

## USEFUL PHONE NUMBERS

Emergency Numbers For K-W Area:

> Regional Police

Hospitals
Ambulances
Poison Control
dial 911

UW Switchboard
Health Services
Security
Campus Centre
885-1239 or ext. 3211
884-8770 or ext. 3867
ext. 2324
Federation of Students
Career Information Centre
Arts
Student Awards Office
SHIP
Legal assistance

## BUSES TO TORONTO

Federation of Students Express
Note: the schedule given is from last winter, when the buses last ran More up-to-date information may be obtained by visiting the Federation of Students' office in the Campus Centre.
Departures are from the North Loading Zone, Math and Computer Building, every Friday at $1: 30$ and $4: 30 \mathrm{pm}$. Point of arrival: Islington Subway Station. Also, an express bus to Waterloo leaves from the Brewer's Retail parking lot at Bloor and Islington Sundays at 9 pm . Tickets on sale Thursdays only in the Federation of Students office beginning at 9 am; supplies are limited. Note: the drivers cannot sell tickets!!
Grey Coach Buses To Toronto
Departures from the Administration Building Monday through Friday at 3:45 pm and $\$ 05 \mathrm{pm}$, with additional Friday service at 12:01 pm, 3:05 pm and 5:05 pm.
Departures from the south university entrance Monday through Friday at $3: 48 \mathrm{pm}$ and 5:08 pm, with additional Friday service at $12: 04 \mathrm{pm}, 3: 08 \mathrm{pm}$ and $5: 08 \mathrm{pm}$.
Buses also leave regularly for Toronto from the Kitchener Grey Coach bus terminal.

Although this will never be a collector's item, why not rip this page off you math NEWS and stick it in Your binder! (see over)

|  | monday | tuesday | WEDNESDAY | thursday | FRIDAY |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 8: 30 \\ \text { to } \\ 9: 20 \\ \text { (ugh!) } \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 9: 30 \\ \text { to } \\ 10: 20 \end{gathered}$ |  | - |  | - |  |
| $\begin{gathered} 10: 30 \\ \text { to } \\ 11: 20 \end{gathered}$ |  | r |  |  |  |
| $\begin{gathered} 11: 30 \\ \text { to } \\ 12: 20 \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 12: 30 \\ t 0 \\ 1: 20 \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 1: 30 \\ \text { to } \\ 2: 20 \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 2: 30 \\ \text { to } \\ 3: 20 \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 3: 30 \\ \text { to } \\ 4: 20 \end{gathered}$ |  |  |  | * |  |
| $\begin{gathered} 4: 30 \\ \text { to } \\ 5: 20 \end{gathered}$ |  |  |  |  |  |
| $\begin{gathered} 7: 00 \\ \text { to } \\ 10: 00 \end{gathered}$ |  |  |  |  |  |


[^0]:    Disadvantages: You may find it difficult to sleep on Thursdays, Fridays and/or
    Saturdays, since there is often a party or to sleep on Thursdays, Fridays and/or
    Saurdays, since there is often a party or tereo war going on. Also, there are always a few idiots on any floor that delight in doing things such as breaking ceiling tiles or beer bottles, or pouring water under doors (it is not a good idea to put things on the floor near your door). If you are not a gregarious sort of person, you may find that V2 bothers you ometimes, since almost everything there done in groups
    hope this gives you a little more of an Hlage Two is like. I personally (as opposed to 1 impersonally?) don't regret having lived there (though I will enjoy living there.

