It's ugly, it's dull, it's boring, but anyway it's still.....

mathNEWS

Volume 27, Number 5   Friday, November 6, 1981

A Word From the Vice President

First I would like to extend my thanks to those who voted for me. To all of you I hope my term in office will not be a disappointing one.

Now that we have a committee it's time to get down to business and produce results. That is precisely what we have been doing since being elected a week ago on the 25th of Oct. So far in a week we have resurrected the antical and organized the 'Midterm Relief Pub' on Thursday Nov 5th. We have also co-sponsored the debate on the OFS referendum and sponsored the seminar on 'How To Study And Relax For Exams'.

Things on the drawing board are:

(1) A pub to the States (possibly to Buffalo).

(2) A semi-formal at the end of term.

(3) Watpubs for students who are off campus on work terms.

Now that we have the dreams, it is time to make them a reality. To do that we need you to help make these dreams come true. We have sign sheets in the mathSOC office for people who would be willing to draw posters, write articles, organize social events, man the office, or just plain give a helping hand. All we ask for is half an hour per week of your time. We have about 20 people signed up now and we still need more! The least you as a mathie could do is to participate in the events that we organize.

With our president being on work term right now, I will be assuming the duties of the president in his absence. I'll be glad to hear any suggestions pertaining to the running of mathSOC. May we once again be proud of our society and may mathSOC live.

Wei-Ying Lam - Vice President

FED SPEAK

This will be my last opportunity to speak to you about the upcoming referendum. I urge each and every student in the faculty of Mathematics to vote and thus provide the Federation of Students, University of Waterloo, with a representative vote on the question of our membership in the Ontario Federation of Students. This is an important matter and deserves the attention of every student. IT WILL AFFECT YOU!!!!! So on November 10th, 1981 (yes, just next Tuesday), mark your ballot (hopefully to retain our membership, the second choice) and decide the future of the OFS at Waterloo.

It seemed strange to me that Wim Simonis, President of the Federation of Students, felt that the $1.50 per term per student was excessive. Do you realize that the Federation of Students collects over $9.00 per term? When you see the ballot next Tuesday, you will see the number of times the $1.50 is mentioned, but what can $1.50 buy?

By mentioning the $1.50 per term, it seems that the student will get that amount returned if we leave the OFS. But at the forums and council sessions held in the past month, the status of the $1.50 was still up in the air. First it was to be used to represent the students at Waterloo in the areas that the OFS presently represents us. Then, it was to be returned to the students. Finally, Wim stated that it will be up to council to decide what will be done.

But now the $1.50 provides the students at Waterloo with the latest most up to date research in the area of education available in Ontario. It allows Waterloo to have input into the only recog-

CSC Flash!

Nestled in a corner of the Math building, within the CSC Office (MC3037 (pretty sneaky way to tell you our address, eh?)) plans have been made for this term, and even next. All meetings for this term have been set up, and here they are:

Monday, November 9th, 7:30 p.m. -- The CIPS/CSC Panel on Computer Careers; Representatives from industry and academia, together with the CSC's very own Dean Edmonds (student rep. extraordinaire) will discuss what we want from a university education and what we need. In the audience will be members of CIPS (the Canadian Information Processing Society) and, hopefully, a lot of students. Come make your views known on what you expect from a job.

Monday, November 23rd, 8 p.m. -- Professor Richard Lipton, of Princeton University, a distinguished computer scientist, will discuss various aspects of the new Very Large Scale Integration (VLSI) technology and its impact on how we think about computation. This is not to be missed.

Wednesday, November 25th, 8 p.m. -- Professor Bill Buxton, of the University of Toronto, will demonstrate his computer based sound synthesis equipment, in the first CSC concert. Also, not to be missed!

Thursday, December 4th, 8 p.m. -- To close the term, a meeting held on a traditional Thursday night to discuss the VAX-11/780 recently installed by the Math Faculty Computing Facility. A representative of Digital Equipment Corporation will provide the entertainment. Find out about the new darling of academic computing -- VAX, a word synonymous with POWER!

Next term, famous graphicist Frank Crow, from Utah, is promised, along with Rick Holt from UoT (talking about a Unix look-alike system called TUNIS that is programmed in Concurrent Euclid, a new systems language), Prof. Dave Conrath of UW (talking about his office automation project), and, hopefully, some surprise speakers from the US West Coast.

In the office, plans are cooking for new CSC T-shirts and buttons. Do you have suggestions? If so, please drop by, or send us a mail message. And remember, if you contribute $1000 to the CSC, we'll make sure our silicon friends in the Big Red Pit see to it that that 'F' is turned into a rosy 'A' (justjoking folks).

peter rowley

more lounge mail

12 bwlutek   Tue Oct 27 1981   9:13

Dear Editor:

I put 100% support behind Prabhakar Ragde's suggestion to MATHSOC (see last issue of mathNEWS) that the lounges for smokers and non-smokers be switched. Non-smoking lounge users now are a majority -- count for yourself! (e.g. Friday, October 23 at 1 P.M.)

Non-Smokers' Lounge: 46 persons seated; none smoking
Smokers' Lounge: 76 persons seated; 9 smoking

Even if half of those in the smokers' lounge were poised, cigarettes hidden, waiting to light up at the instant I left, the total number of non-smokers would exceed them by a factor of two.

My preference would be to simultaneously switch the C&D stand with the pinball machines, so that all food services would be centred between lounges, rather than in the main portion of one or the other. I think this configuration would also enhance C&D aesthetically, since everyone likes a bright, clean food stand.

Are there any possible objections to switching lounges? If not, how about it?

- bwlutek

13 dwthorpe   Tue Oct 27 1981   9:46

Can't something be done about those infernal pinball machines in the math lounge (ie. shooting them and/or restricting their hours of use)? The electronic "Playboy" is one of the most obnoxious machines ever designed. I like to go into the lounge when I have to come in early and have a coffee to wake myself up...only to have my system jarred out of shape by those awful machines. It is not as if the pinballers have nowhere to go (the CC). The pinball machines in the CC are not in operation 24 hours a day, so why should ours be? The pinball machines may bring in some revenue to mathsoc, but are they worth the aggravation to mathies and other users of the lounge? I wonder how many of my fellow students would like to see the pinball machines removed?

Dave Thorpe, 4A Management Accounting
(former mathNEWS columnist)

important

Class Representative Nominations are open. See the posters on the third floor for the number of seats available, but, if you are in math you are eligible to be on council as all seats are open.

D. A. Emery
C. R. O.

MathSoc Presents a Seminar on How to Study & Relax for Exams

Date: Nov. 11ᵗʰ, 18ᵗʰ

Place: MC 2065

Time: 4:30-5:30

The Math Society is sponsoring a seminar on "How to Study and Relax for exams. The seminars, run by John Vardon and Ron Walsh, are designed to help the student improve his exam writing skills and cope with test anxiety. Last year, 270 people attended the seminars which are now being offered for the third year.

John Varden, a reading and study skills counsellor, will discuss preparations for tests and exams. He will be dealing with the problems of writing different types of exams, including multiple choice, essay, open book and math (of course). Mr. Varden will comment on the disadvantages of all night cramming and will provide alternative study techniques such as spaced learning. Also, the "pre-exam ritual" will be discussed (don't miss this one).

Ron Walsh is from the department of Counselling Services here at UW. He will be stressing how one can put excessive test anxiety to positive use. Explanations and demonstrations of techniques to relieve mind and body tension while writing exams will be given. Further discussion will be on the importance of scheduling your time, exercising, and maintaining normal diet and sleeping habits during the exam period.

During these sessions, students will receive useful handouts describing these studying and relaxing techniques and others. These sessions sponsored by the Math Society are the only seminars offered on the main campus.

Steve Allison
Tracey Upham

Semi Formal

MathSoc is planning a semi-formal on December 9th (the day after the last day of classes). It would be held at the Waterloo Motor Inn and would cost $15 per person or $25 per couple. We would like to know the number of people who are going to attend, so as to plan ahead. It would be helpful if you could answer the question below and drop it off at the mathNEWS box on the third floor.

Would you attend the
Semi-Formal? Yes( ) No( )

For Graduating Students

If you are planning to go through grad interviews now or in January, you should:

(1) be registered with the Grad Placement people (i.e., have returned a green card with all the relevant information);

(2) (i) have picked up a copy of "The Graduate";

(ii) turn in UCPA forms for the jobs you want to apply for by Wednesday, November 11, at 4:00 p.m. (that's this Wednesday, folks!)

You need to be registered with Grad Placement in order to get your very own personal copy of "The Graduate".
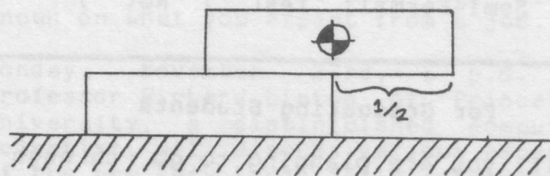
If you don't know what a UCPA form is, you had better find out quick! You've got less than five days to find out what it is and to complete it. (You will find a copy in your "Grad Registration Kit" which you can pick up in the Career Information Centre – if you don't know where the Career Information Centre is, you need help!)

If you wanted to go through grad interviews in January and aren't registered, I would trot off and talk to someone very soon.
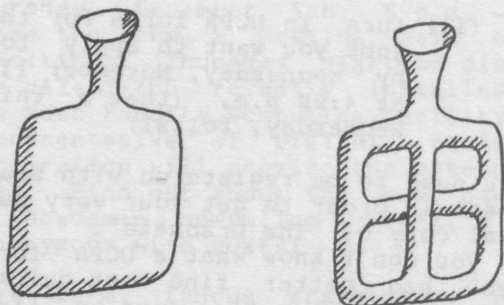
The Grad Placement people are also giving seminars for graduating students on such things as resume writing, interviewing skills, job search tactics and starting your own business. You can phone Frank Ruszner (ext. 2274), Sandra Pallot or Tom Fitzgerald for further information on these seminars.

Mathematical Puzzles

Suppose we have two identical bricks and want to stack them in such a way as to have maximum overhang. Clearly, from the following figure, the top brick cannot overhang by more than one half its length (because, if it were brought out any further then its centre of gravity would not be over the bottom brick and thus it would fall over).

Now suppose we have an unlimited number of bricks. Is there a maximum overhang that can be attained by stacking the bricks (one on top of another) and, if so, what is it? Assume each brick has length one.

How many holes are there in the left hot water bottle? One might be tempted to say one hole, but the opening is actually not a hole but the outer edge of what is topologically equivalent to a sheet of rubber (if the opening were stretched out wide enough then we would have a sheet of rubber). Therefore the left hot water bottle actually has no holes in it.

Using the above meaning of a hole, how many holes does the (rather strange looking) right hot water bottle have? (The two crossing "tubes" do not intersect).

Solutions to both puzzles next issue.

Richard Cleve

A Tip of the Hat to MICROSCOPE

We at mathNEWS extend a warm welcome to Microscope, SciSoc's entry in the faculty newspaper game. Because they have only recently been revived, they are very under-staffed. If you would like to help them in any aspect of their production (writing, typing, layout, etc.), drop by the SciSoc office in ESC 101-A right across from the Biology 1 building. No experience is necessary, and you don't have to be in the Faculty of Science to work on it.

Broomball

Do you have anything exciting to do Friday afternoons at around 3:00 p.m.? (Algebra doesn't count as exciting, but you really shouldn't skip classes.) Want to have lots of fun, and get your circulation going? Come out and play broomball for us.

If you don't know what broomball is: it is played like floor hockey, except with a broom and on ice. It may not sound too exciting, but it is lots of fun. Try it, you'll love it.

We play every Friday afternoon at 3:00 p.m. at McCormick Arena. If you come to MathSoc/CSC at 2:30, we will arrange rides. Wear warm clothes, mittens or gloves (remember, you're on ice), any shoes that might give you traction on ice (no broomball shoes though) and, if possible, kneepads (they really help when you fall). We can use every warm body we can get (especially if you're female), and you don't have to be an expert or even have played before (broomball, that is); just come out.

The Earthen Mug

The Earthen Mug is a place where you can relax after a hard week of midterms, assignments, etc.. Every Friday night, from 8 to midnight, come to CC110 where you can enjoy hot cider, hot chocolate, muffins, and other munchies at a good price. Live entertainment is usually featured (last Friday's guest was a classical guitarist). Chairs are provided for conversation. The Earthen Mug provides a good opportunity to meet new people. Why not drop in this Friday night?

The PHOTON

I have now had the honour of doing the typesetting for mathNEWS using a contraption called a "Photon" for the last three issues. Now that we no longer have the use of it, I can describe the experiences I have had with it.

The Photon is a photographic typesetter connected to the Bun (the Bun's real name is Honeywell 66/60 but it's called everything but that). It lurks in a chamber on the third floor of the MC building waiting for some person to stumble in and turn it on. Then the fun begins.

If one is unlucky, one must first boot the system. This is done by putting a steel-toed boot on one's right foot and kicking the machine and is done to ensure that the Photon will do what one wants it to. Then one must turn on the developing unit so the output is in a human-readable form. Then one must log on to the Bun and discover that the file to be typeset has not yet been previewed on a graphics terminal and cannot be typeset until it has been previewed.

After previewing the article, logging on to the Honeywell, turning on the developer and booting the Photon for TROFF, one must issue the command to typeset the article. When this is done, the terminal will flash instructions for the typesetting process. If at any time during the typesetting one sees white paper coming out of a slot at the top of the machine, it means one has not placed the gizmo for the photographic paper on top of the slot, and one must re-typeset the article. If one tries to develop this paper it will come out black. (This has not happened to me yet.) The purpose of the gizmo is to store the exposed photographic paper until it is developed.

When the file has been typeset, the terminal will display a "run id" of the strangest form and instructions for getting one's file out of the Photon. There is no built-in cutter any more; one must use the X-Acto knife lying on top of the machine. Once the paper has been cut, one must remove the gizmo containing the paper, carry it over to the developer, slide the end of the paper in just far enough to catch the rollers and not one's hand, and close the cover. Then one wanders over to the other side of the developer and tugs gently on the paper as it comes out.

The developer is a playful thing-- it likes to play with the paper and wrinkle or rip it, or sometimes not give it back to you. This gentle tug will let the developer know that your article is not for playing with, and, just like a puppy or a 3-year-old child, will sometimes not let the tug stop it from playing.

Once your article is free from the jaws of the developer, it must be examined. Sometimes the Photon decides one needs some culture and prints your article in Greek. Sometimes one discovers that the Photon was feeling especially joyful and did a careless job of printing the article (like printing over the most important line of the article). If that hasn't happened on this run, then it is most likely that a typographical error has sneaked in sometime between the previewing that one did not do too carefully and the typesetting of the article. In any of these cases, one must repeat the typesetting process from the issuing of the typesetting command.

If one does get a perfect run on the first time, one is considered very lucky and gets an honorary membership in the Photon Masters' Club. So far there are no members.
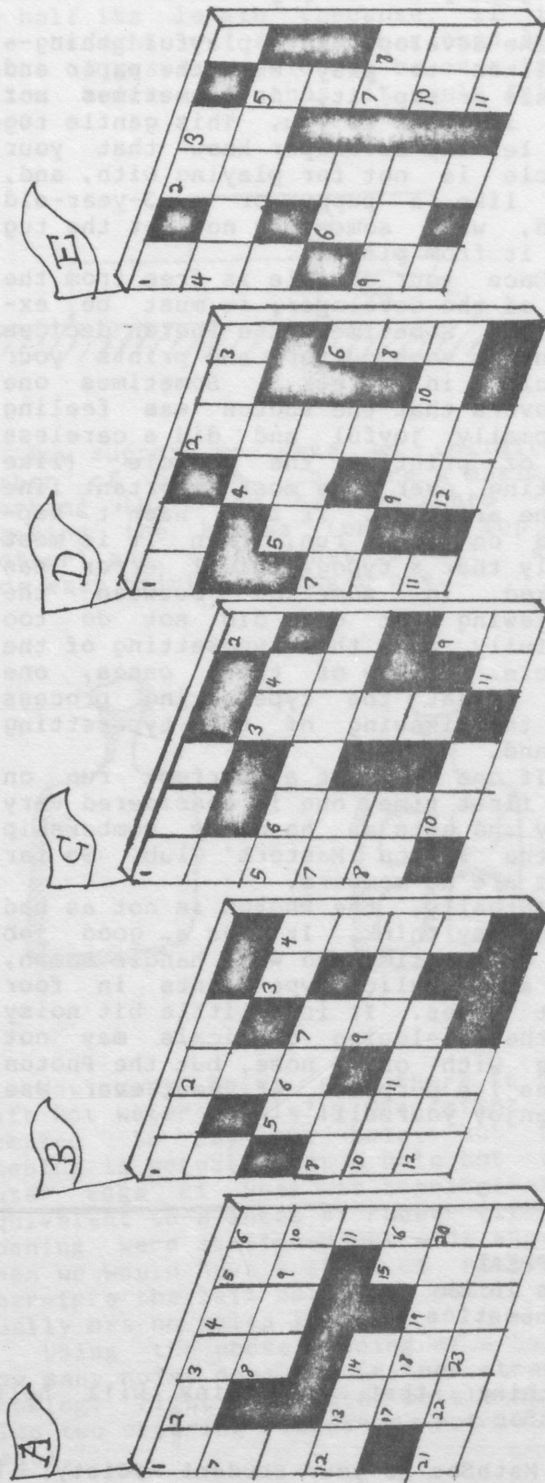
Actually, the Photon is not as bad as one may think. It does a good job 90% of the time and will handle Roman, bold and italic type fonts in four point sizes. It is a little bit noisy and the developing chemicals may not agree with one's nose, but the Photon serves its purpose. If you ever use it, enjoy yourself!

AN URGENT APPEAL
to all students in the
Faculty of Mathematics

The Mathematics Society's new Vice-President, Wei Ying Lam, wants you (yes, you!) to lend an hour's time a week to MathSoc. You can do office work (like handle inquiries, sell T-shirts, make photocopies), design posters, write promotional articles (like this one), organize pubs (there may be one on Grand Island, NY), or do anything that you think will help MathSoc.
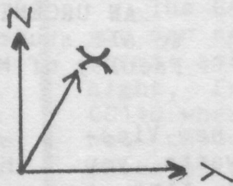
MathSoc is your student society; if you don't put anything in, you get nothing out. So drop in to MC3038 and sign your name on the helpers' list. There is always something to be done!

CUBE-O-GRID

A David Leibold Production
in association with
the English Language

The 3-D Crossword!

x-direction

a1.   calculators B.E. (Before Electricity)
a8.   possess
a12. UW computer dept
a15. street
a17. alternate
a21. to carry, transmit
b1.   to rouse, jab
b3.   classified ??
b5.   tense of 'to have'
b7.   ghost sound without the B
b9.   animal
b10. 99 and 44/100% ????
b12. prefix
c1.   golf term
c2.   article
c3.   camera: SX-??
c5.   ?????? of the North
c7.   zinc
c8.   overtime
c10. beer brand
c11. once a Lady, now a Princess
d1.   Lieutenant
d2.   small perfect number
d4.   negative
d5.   math???
d7.   Walter Ostanek sings this
      3 times before 'o'
d9.   in this location
d12. Eastern time
e2.   tin
e4.   expel
e6.   cadmium
e7.   Toronto
e9.   before
e10. overtime
e11. blood factor

y-direction clues

a1.   desert-like
a3.   exclamation
a4.   chartered acct.
a5.   ultraviolet
a6.   soldier, guard
a13. bird sound
a14. station
a15. to view
a19. high voltage
b1.   irrational constant
b2.   eggs
b4.   singular; of Hazzard
b5.   unit of time
b7.   colouring agent

b8.   police force
b11. prefix (do it again)
c1.   10 is to Derek as 47 is to ?????
c3.   glide
c4.   characters used in tictactoe
c6.   PHANTOM-PH-M (subtract the letters)
c9.   metric
d2.   ?????? to me; electrically!!
d4.   number
d5.   silicon
d6.   ??? out a living
d7.   heart monitor
d9.   helium
e1.   affirmative
e2.   return to ??????
e3.   no connection
e5.   what you need if you begin to fail
e6.   chromium
e8.   auxiliary
e9.   extended play

z-direction clues

a1.   put on
a3.   album oriented rck
a4.   civil defense
a7.   ??? de Janeiro
a8.   high velocity
a9.   computer system
a10. ?? McMahon
a11. nuclear
a12. nap
a13. circles, ellipses, hyperbolae;
a15. South Africa
a16. a desk at the CC
a17. ??? of bounds
a18. 'Odd Couple' actor's initials
a19. ???? comes the judge
a20. to restore
a21. ?? disconnects
a22. small phone exchange
      between Barrie and Orillia
a23. jamais
b5.   owns, possesses
b6.   unnamed
b7.   M.D. (slang)
b9.   see b9. under x-direction clues
b10. basic command on PET, TRS-80, etc.
c2.   cutting instrument
c3.   Sci???
d2.   "Au"-finger; "Ag"-smith;

      The ?? Man of Oz.

d4.   Nebraska
d8.   boxing term
d9.   masculine pronoun
d10. recruiting officer

The 2-D Clues

a diablo productions release

The Life and Times of Grizzly Siastes

It was one dark and rainy night when E. Siastes fled the campus to avoid the posse. You see, Siastes was wanted for vicious slander by the Sheriff and MathSOC. So, Siastes left for the woods - Elora Gorge, that is! From that day onward, he would be known as Grizzly Siastes.

Now, y'all are wondering how he got the name "Grizzly". Well, one day he was trappin' coons near Bamberg an' he caught hisself a sight of a young grizzly. Them grizzlies is mean an' ornery, so Siastes took no chances. The grizzly bear was injured, an' there was Grizzly Siastes. Siastes wasn't a man who could bear to see an ol' grizzly bear suffer like that, so he went an' fixed its leg. He adopted the grizzly and named him Ebenezer. He called him Ralph for short. An' that's how the legend of Grizzly Siastes came about.

Now ol' Grizzly an' Ralph was hikin' along the Bruce Trail lookin' for some dried berries for snacks when along came a real live injun. The injun looked mighty fierce, so Grizzly tried to make a peace offering with him.

"Well, good day to you, dear fellow! How are you this day?"

The injun didn't move. His face looked as stern as ever; his tomahawk, bow and arrow were aimin' right at Grizzly.

"Now look here, you subspecies," said Siastes, "You must be quite a moron to not accept my humble and superfluous offer of friendship. Why don't you put down that bow and arrow like a submissive little banshee, and..."

The injun raced towards ol' Grizzly and Ralph. Looks like Grizzly's offended the injuns this time.

"Come along, Ralph! We must make a hasty exit!"

Grizzly and Ralph raced outa there like a possum on Ex-Lax. But the injun, he kept a-racin' for the pair of them. But soon, ol' Grizzly began to tire, an' the injun was certain to catch up. But the injun stumbled and fell and broke his foot, just to give this tale a new twist. Grizzly looked back, and went towards the injun.

"Why, if I am not mistaken, which is always, that old native is finished. It appears that his tarsal bones are fractured."

"Help me! I'm caught in this gopher hole," said the injun in his native Norwegian.

"Why, it's your own fault you simpering halfbreed," said Siastes. "You should have thought of that before you started chasing us, you violent imbecile. Why, after all that disgusting pursuit, should I..."

"Hey, man, my foot's stuck in here, an' it's beginning to hurt. Why don't you take that oversize wolf cub you got there and pull me out?"

"Okay, if it will appease you. Come on, Ralph! Let's pull this fella out."

So they done just that. An' the injun was looked after by Grizzly and Ralph until that ol' injun could walk proper again. An' soon as you'd know it, the ol' injun offered to be blood brothers with Grizzly.

"You mean, our wrists have to be bound so that our blood mixes between us?" said Grizzly.

"Yes," said the injun.

"Uggh! This is disgusting. This unsanitary..."

"What'sa matter? You KKK or somethin'?"

"Well, no..."

"Then let's do it."

So Grizzly Siastes reluctantly accepted the injun's blood brothership. An' they all lived happily in the wilderness after that; Grizzly, Ralph and an ol' injun named Skvort. An' to this day, wild trappers comin' from the Elora Gorge tell tales of a wild man, his bear and his injun friend.

djcleibold

Killer Kwestions

a, b, c, d are positive, real numbers.

Show that

$$a + b + 2c + 3d \geq 7\sqrt[7]{cd^2}$$

[Submit solutions to mathNEWS. Prize: fame.]

Galumphing Gourmets

Kwongchow Tavern, 126 Elizabeth Street, Toronto.

This week, the Gourmets have been galumphing further afield than normal. The exigencies of boat haulout have placed us in downtown Toronto for this review period.

Kwongchow is one of the better Chinese restaurants to be found in Toronto's Chinatown area behind the new City Hall. Specializing in Cantonese food, the extensive menu provides choices from Chow Mein and Chop Suey to Eight Precious Pearl Duck.

In particular, we have found that the Kwongchow Stuffed Pork, the Steamed Shrimp with Ginger, Fried Bean Sprouts (with ginger and Chinese pickle), and the Woon Yee Guy Peen (chicken with snow peas, Chinese Mushroom and topped with silvery vermicelli) provides a complete repast for four when accompanied by the usual appetizers and a dessert. Naturally, steamed rice is ordered with all of this, along with either Oolong or Jasmine tea.

Lacking spring rolls, Kwongchow has excellent egg rolls. These make a good starter and should be followed by one of the many soups. We particularly like the Winter Melon Delight, and the Won Ton with BBQ pork.

For dessert we recommend either the Lichee fruit or Mandarin oranges. An almond cookie rounds out the meal.

Surveying a restaurant of this type is nearly impossible, but we tried. Kwongchow accepts major credit cards and is licenced. Dinner for four runs about $50 a la carte. "Dinner for four" is on the menu at $27. This meal includes cheaper chow mein and chop suey, which we did not order.
6 Bunnies October 26, 1981.

Previously Rated

Shantz Country Pork Family Restaurant, 210 King St. N., Waterloo.

One of the better bargains in the immediate area. Pork specialties at family prices. The boneless pork chop is good with the saurkraut. Good fries, but the mashed are overprocessed. Ham steak, sausages, pork burger are also good. Dessert portions tend to be small. Pastries are not recommended. Open for breakfast. $4.00 - $5.00 per person. Unlicenced, cash and carry.
5 Bunnies July 28, 1981.

The Knotty Pine, King St. N., Waterloo. (opposite Conestoga College).

An incomplete (as yet) clone of the Preston operation, a rather expensive place, but good. Licenced, major credit cards. Dinner for two between $10 and $30.
7 Bunnies September 24, 1981.

The Cedars of Lebanon, 112 King Street W, Kitchener.

This is a specialty restaurant offering middle eastern cuisine in an appropriate atmosphere. Chicken, Lamb and Beef skewers are very good, as is the Mezza.

Mezza is a collection of appetizer dishes that go together to make a rather full meal. Mezza served in the upstairs room contains just the selection of appetizers listed. In the downstairs Mediterranean Lounge, a single skewer of your choice is included at a higher price.

Some steak and fish dishes are also offered for the timid.

The Mediterranean room is open on Thursday, Friday and Saturday only, and belly dancers are provided from about 2000. Reservations for this room are required.

Dinner for two upstairs will easily be $25. Downstairs, with entertainment, the Mezza for two is $29.95. Bar is extra, of course. Licenced, major credit cards.
7 Bunnies October 8, 1981.

Visited Once

The Texas Steakhouse, Waterloo Square.
                                    jcwinterton et al

FEEDBACK

Just a remark about the second "problem" mentioned in your recent column... I think, knowing the operators of the Cedars, that it is their intention to reproduce the atmosphere of an "evening" at a restaurant in the middle east, where it is not uncommon for customers to spend several hours at a table, a practice that is quite unlike the "fast-food" mentality of many North Americans. Perhaps a comment about this is warranted.

P.S. Places you might consider for future visits...

Hunan Restaurant (second floor, North side of King St. in Kit. somewhere between the Odeon and the Capitol) It is a rather large place, quite nice.

China Kitchen, now renovated and under new management. Still very small, but amazingly upgraded in quality.

An Invitation to a Coffee House

Tired of having your ear-drums blasted at the CC Pub? Looking for some light entertainment in a tranquil atmosphere? We have just the thing for you.

On Friday the thirteenth, FASS is sponsoring a Coffee House beginning at 8 p.m. in MC 5136, the faculty lounge. There will be a cash bar in addition to great volumes of coffee, tea, and other goodies. All kinds of entertainment will be provided: singing, instrumental music, perhaps a skit or two, and a full-scale presentation of Theatre Sports courtesy of Theatresports Waterloo. All this for only $1.50 at the door!

So come on out and bring your friends (get there early because the lounge doesn't seat all that many people). We hope to see you there!

Good afternoon and welcome to another piece of self-indulgent crud, namely this here masthead. It's four-thirty in the morning - a ghastly, ghostly time when only masochists, hacks and turnkeys are awake. As you probably have been able to figure out by now, our paper is not nice and neatly typeset any more: we can't use the photon, so we must use the next best thing - namely, some nice large sheets that the good people at Graphic Services gave us (what would we do without you?). As usual, everybody decided to submit articles to this rag on Tuesday night , thus forcing in me to proofread until I reached my insanity threshold (which is obviously not too high, or else I wouldn't stay up late producing this paper). This week's staffers: the legendary Ashok Patel, who wanted me to x write some dribble for him - so here goes: THIS IS DEDICATED TO ASHOK"!! ..... #$%RTf†fnvm3475 $&¢&...... I hope you enjoyed that. Next up is Wei-Ying Lam, the newly elected MathSoc Vice President, who kept reappearing with more things for me to type in and or proofread.... oh well - everybody wanted some information in this paper, now they got some! Enjoy! Dave Wilkie, for his fedspeak, but no thanks for pushing the wrong button on the Diablo and shortening my lifespan by several years; D.A. Emery, who is the pnly person left in this room (other than the editor - obviously!); Peter Rowley, who ended a long drought of CSC flashes despite the fact that he was obviously sick of doing them; Dave Thorpe and Ben Lutek, voices from the past (they were mathNEWS writers long before my presence sullied these fair shores); Steve Allison and Tracey Upham, for their piece on exam anxiety (I'm not feeling anxious at all about this term's exams; that's probably because I'm on work term and don't have to write them); Richard Cleve, always a dedicated layoutist, for his math puzzle; Shy Seniori (she used to be Shy Froshi, but she's been around this university longer than I), for the broomball and grad placement xi stuff, and for the neat lettering; Jim Jordan, who did lots of stuff during the week, probably because he knew he wasn't showing up tonight (he did Observations) - he xxxmxxxxx spends about as much time on this rag as I do, so I won't complain. David Leibold, a man with a x strange sense of humour (FASS has gotten to him, I see), did GRID-O-CLUES and GRID-O-CUBE and the tale of the wild frontier (coming soon to your local theatre, with Charles Nelson Reilly playing the part of 'E.Siastes' - you know it's gotta be late in the morning for me to be writing such garbage - usually the screening mechanism in my brain prevents such stuff from appearing, but this time of the day it's short-circuited); John Winterton, for his cryptogram (what a concept! hire western onion to send x scrambled messages! - sorry) and his galumphing gourmets; FASS (whoever it was) for the coffee house publicity - I tried to write one of those for them, but it turned out all rotten and dead and stinking (sorry); and ljdickey for the gg feedback. Also thanks to jap for the nice dinner (Happy Birthday!) and to guy for telling me about the New Order concert. (Now all I gotta do is rearrange my working hours so that I can see them on a Sunday night in Toronto - oh well,....). What else can I say here? If you don't like the appearance of this issue, well sorry, but there's nothing we can do about it.... when this comes out, I'll know what mistakes not to make next time. My name is David Till (yes, he still admits it!) and I am still the editor for this rag (thus proving, once again, that I utterly lack sense) - and it's five in the morning now, and I've got to go to graphic services at about eight to put this sucker in, and then I've got to go to work... Argh! Ain't I done yet? Oh yeah, I'm nearly done, I can tell - I have to lift the page up to read it all now. This is so useless and pointless; if you are reading it, please dock ten points off your IQ, drink a glass of warm milk, and then go to sleep for at least ten hours. What else can I say? I Graham Parker's on the stereo..... good night! -dwt.

nized student representative body in Ontario. It provides a support system on which Waterloo may rely in times of need. So look at the value of your $1.50.

In a time when EPF (Established Program Financing) is being eliminated do we the students of Waterloo not need to stand with the other students in Ontario to ensure that post-secondary education remains adequate to meet the needs of tomorrow's leaders? We could be facing a 300% increase in tuition in the near future. What would happen to the quality of the education at Waterloo?

The Ontario Federation of Students is attempting to voice our concerns to Queen's Park. We at Waterloo can see the benefit of a unified student voice for Ontario's 250,000 students. Our strength lies in numbers. But the less institutions that the OFS represents the less valuable is its voice. Its voice is split into a multitude of parts, which is less than the sum of the parts.

dlwilkie