The California Tech

Health Center Staff Encourages Students

Continued on Page 11

That's Entertainment

by Mike Nelson

The Caltech Y is presenting "An Evening with Harlan Ellison" at 8 pm, Monday, February 12, 1979. The program will be in Baxter Lecture Hall. Harlan Ellison has gained a reputation for being one of today's top authors in the world of fantasy writing. He's also one of the most outspoken. The New Yorker called him "the chief prophet of the New Wave in science fiction" and after reading a few of his works you can see why. Stories like "A Boy and His Dog," "I Have No Mouth and I Must Scream," and "Reaper, Harlequin, said the Ticktockman" are both brilliant and unforgettable. Ellison's writing has made him one of science fiction's most award-winning authors. Legend has it that the stack of Ellison's awards is taller than he is. But Ellison is more than a writer. Indeed, many claim that he's made his most significant contributions to science fiction when he edited the now-famous anthologies Dangerous Visions and Again, Dangerous Visions. In these collections Ellison brought together some of the best works of authors who, like Ellison himself, have gone beyond the limits of what is usually labeled science fiction. Dangerous Visions helped push the New Wave of science fiction into prominence. It also symbolizes Ellison's efforts to smash the stereotypes forced upon science fiction writers (bug-eyed monsters, Buck Rogers, and the like).

Ellison's endeavors also spread abroad to the world of television. Even if you haven't read any of his books, you probably have watched a few of the television programs which he's written. Ellison has written scripts for

Star Trek, Outer Limits, and even The Flying Nun. Today he will tell you that he has given up writing for "the evil medium" even though the money was good.

On Monday night you'll not only see Harlan Ellison the writer, editor, and script-writer, you'll also witness Ellison the performer. He's more than just a speaker; he can be a story-teller, a preacher, or a clown. His manner on stage has been described as acidic, insightful, loud, funny, and obnoxious all at once. Ellison loves to aggravate audiences and firmly believes that MIT undergraduates make up the best audience in the country. Ellison has long been fond of MIT students, having attended Dabney Hall himself. Ellison is known for his loud, funny, and obnoxious style when he performs, and he promises to have a good time at the event.

In the end the opposing cagers closed the gap to within 6 points but Whittier's awesome fastbreak fanned out and finally subdued them.

Erica K. Parsons

The following is a brief list of summer jobs available throughout the USA. Many programs have their deadline dates—BE SURE TO START SUMMER JOB ENTERING EARLY!

If you are interested in summer employment, stop by Placement Office in room 8, library hall.

American Electric Power Service Corp.

Cold Spring Harbor Laboratory (Deadline: March 15, 1979).

Environ mental Internships

Federal Jobs.

Lawrence Berkeley Laboratory, Energy and Environmental Division (March 1, 1979).

National Radio Astronomy Observatory (March 15, 1979).

Procter & Gamble.


Yale University (February 12, 1979).

['You'd better hurry on butt one, guys and gals!']
Debut

Well, the Tech has changed hands yet again, this time coming to two lowly freshmen whose past publishing experience has been limited to graffiti in the Millikan bathrooms. Whatever disadvantages this inexperience may bode, it brings with it the advantage that we’re open-minded—perhaps more so than those of you who have been around here long enough to know what’s going on!

Suggestions for possible format or emphasis changes are welcome; for those who don’t feel like walking all the way to Winnott, I’m in Dabney 32 and John’s in Dabney 39.

However, if we don’t get any input, we’ll assume you don’t care and follow through with our own insane designs. The results could be disastrous. So don’t say we didn’t warn you.

—David C. Young

CIT ZPG?

It’s that time of year again when all arithmetic becomes statistics and the struggle to match students and housing is echoed by the struggle between planning and chance. There are other tensions involved, of course, for the faculty are no more of one mind than are the students, with differing philosophies of admission and differing views on student needs.

Besides the financial reasons for an increased student body, there is also the argument, made by some faculty members, that it would be a loss to accept arbitrarily only 400 students, if there were, say, 500 qualified applicants. The restrictions on the student body, however, are not entirely arbitrary, one of the prime limiting factors being that of chem lab space. Although 205 is about the maximum number of students that can be comfortably distributed in chem labs, the Chemistry department listed 215 as acceptable, and at present this is the number that the Admissions Committee is aiming at for next year’s freshman class.

The 215 figure is nevertheless somewhat uncertain. In the first place, since the Admissions Committee accepts approximately twice as many students as finally come here, there is the inevitable statistical uncertainty. Additionally, it is not completely agreed among the faculty that 215 is the optimum number. Although smaller than the last few “admissions targets,” 215 freshmen is seen as too large a burden on the housing system, especially with the possibility that some off-campus housing may be replaced to make room for other worthy institutions. (Coffeehouse anyone?) It is already policy that the student body should not be enlarged, but the memories of past crowding still bother many people, and the Blacker/Dabney basement, originally intended to be temporary housing, shows all signs of having become permanent.

All this is not to say that there exists no grounds for optimism. I am told that new off-campus housing can and will be made available if it appears that some students next year will be unable to find spaces with the present system. I hope so. Caltech is almost unique in its attempt to offer student housing to all upperclassmen who want it, and not just to all freshmen—this is a practice worth preserving.

—J. Avery

Thuncan by P.M.

Hey, Pete, we're going to the massage parlor you interested?

No, I can't afford it, my sex stamp allotment got cancelled!

What?!? How can they do that to you?

They learned that I hadn't declared some sex I found on the side.

Driven to Destruction

To the Editors,

While walking down the Olive Walk last weekend I couldn't help noticing the desecration that had occurred at the west end. Some vandal had driven his car over the rain-soaked grass and transformed it into something slightly worse than a mud puddle.

I don't know who it was, but if he had thought a little bit before he put his foot to the floor he might have realized that those big flower pots at the end are there for a reason. I'm not saying whether or not those pots should be there; but since they are there, why not pay attention to them?

Is it really that much harder to park in the quad or on San Pasqual and walk to where you're going? There was a time (ask a Senior) when there was no grass on the Olive Walk and it definitely looks better with it. If I ever catch whoever did it doing it again I'll break his face.

An Ingate Senior

The California Tech

Friday, February 9, 1979

Page Two

The papers Chase
It never ceases to amaze me that the faculty and students of Caltech aren’t more vocal in their efforts to modify public policy on such matters as energy production, research and development, etc. I dislike labelling the point too much (not all of us for fear of a backlash reaction of stubborness on the part of the belaborer), so I will give the merest outline of my philosophy here.

I could propose that the lightened individual has a moral responsibility to participate in higher government; I could argue that in view of the prominent social, financial and intellectual position of the Caltech man/woman there exists a duty to share these advantages and steer the ship of government away from the reefs of technological crises. In this world, though, there are few absolutes, and the word must be better off exchanged for should; thus, I’ll only point out the practical advantage of giving concerned and able advice to politicians. If the world order collapses in the next fifty years, no miracle of god is going to shelter Pasadena from the onslaught. On the other hand, a smooth-functioning society freed of the worries of food and energy shortages, etc, will allow the people of Caltech to continue their work in blissful uninterrupted serenity.

This is a rather windy introduction to the real problem at hand today; that is, the development of a rational transportation policy for the United States. For such an advanced nation there have been dimly seen few attempts to improve our car, bus and train systems. That these systems need improvement is beyond dispute. From the Model A to the Volkswagen, the story of our society has been the story of the automobile. It has opened up the American Dream, created thousands of new opportunities—but it has also brought along both technological and cultural problems which can no longer be ignored. Our millions of cars burn huge quantities of fossil fuels, more than we can afford to waste; even if new sources of oil are found (or if coal can be feasibly converted), there will be needed for drugs, plastics, etc. From 2000 on, the man who burns oil is the man who stabs his grandchildren in the back. Even if there were adequate amounts of fuel we would still be faced with the problem of pollution. Internal combustion engines operating under highway conditions emit carcinogens, particulate matter and toxic gases. Our society is battling to clean its air and water; I feel that it will never win this battle as long as the automobile runs freely.

In addition there are such problems as traffic congestion, highway accidents, and such dangerously subtle phenomena as this: with instant mobility there occurs middle-class flight from the cities to the suburbs, but without convenient mass transit back to the cities (for very few highly urbanized areas have room for many cars) suburbanites fail to take advantage of the cities as natural artistic and cultural centers, thus accelerating their isolation and decay.

My proposals cover both national and local planning. These presentations would take too and twenty years to continued on page 4

**Science and Society**

**YOUR EDUCATION DOESN'T STOP HERE**

Your education doesn't stop with a baccalaureate degree. It begins there. Once you enter the world of work, you will gain valuable experience and really discover what it's all about to use what you learned in college.

Take the Air Force for example. As a commissioned officer you will be hands-on executive responsible on your very first job. You'll manage people and complex systems. You'll be expected to perform well, and you'll be paid well, too. It's worth working for.

You can get there through the Air Force ROTC program. In fact, we have a scholarship plan that will pay you $100 a month tax free and pay for all tuition, books and lab fees. And that will free you to concentrate on your studies so you can get well prepared for where you're headed.

Check it out. Find out how you can get into a 'graduate' program like the Air Force. It's a great way to serve your country, and possibly your formal education extended at Air Force expense as well.

Cal Tech students can complete AFROTC at USC (714-2670), UCLA (825-1742), or Loyola (626-2270).

**AIR FORCE ROTC**

Gateway to a great way of life.

**Caltech's Continental**

For the month of February, free root beer float with dinner for ALL Caltech students.

(Remember: get a 20% discount by buying Caltech cards.)
Swimmers Split Two

Last Saturday, Caltech's swim teams travelled to the Claremont Colleges to meet the combined teams from Scripps, Claremont, and Harvey Mudd. The mighty women's team of six outweighed their nine opponents completely, beating them 66 to 37! Unfortunately the men did not fare as well. They were beaten, 29 to 72.

The success of the women was mostly due to the fact that SCIIM had no strong freestyle or freestyle events. Chris Bockenstette and Pam Crane led the team, each taking two firsts and a second in their individual events.

Bockenstette placed first in the 200 Free and the 100 Back, and second in the 100 Free, while Crane got firsts in the 50 and 200 Free, and a second in the 500 Free. Lynn Hildemann dove unopposed in the 1- and 3-meter events for two firsts, and took a second in the 100 Back. Ronnie Blanick easily won the 500 and 1000 Free, while the strong Kirschohn got second places in the 100 IM and the 100 Breast. Sue Fuhs got second in the 1000 Free and third in the 100 Breast.

The men's team was overwhelmed by a much larger, stronger team. Individuals able to score for Caltech were: Anderson, with a first in the 50 Free and a second in the 100 Free; Bill Power, with second places in the 200 IM, 200 Back, and 200 Breast; John Reimer, with two firsts in the 500 and 1000 Free, and Bill Polson with a third in the 200 Fly.

Tomorrow, at 10 am, Caltech takes on Occidental at home. Come test your powers of coordination with a stopwatch, soak up some sun, or just cheer us on!
If you're a junior or senior majoring in sciences like math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as $650 a month right through your senior year.

Then after 16 weeks of Officer Candidate School, you'll get an additional year of advanced technical education. This would cost thousands in a civilian school, but in the Navy, we pay you.

If you feel left out, you could join any of the Augusta National Golf Club ($12,000 plus $1,000 a year), the West Side Tennis Club ($800 plus $465 a year), or the John Birch Society ($45 a year).

Like a pair of books by Peter Panell, entitled The Best and How To, this is a handy book, to read if you go to many cocktail parties. It's also marvelous for dropping lines at your next bull session like "Did you know that it'll only run about $330,000 for a 47-man expedition to Everest?"

—J. Copeland

---

**EARN OVER $650 A MONTH RIGHT THROUGH YOUR SENIOR YEAR.**

If you're a junior or senior majoring in sciences like math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as $650 a month right through your senior year.

Then after 16 weeks of Officer Candidate School, you'll get an additional year of advanced technical education. This would cost thousands in a civilian school, but in the Navy, we pay you.

If you feel left out, you could join any of the Augusta National Golf Club ($12,000 plus $1,000 a year), the West Side Tennis Club ($800 plus $465 a year), or the John Birch Society ($45 a year).

Like a pair of books by Peter Panell, entitled The Best and How To, this is a handy book, to read if you go to many cocktail parties. It's also marvelous for dropping lines at your next bull session like "Did you know that it'll only run about $330,000 for a 47-man expedition to Everest?"

—J. Copeland

---

**NAVY OFFICERS GET RESPONSIBILITY FAST.**
Grad Students
Sound Off

The Graduate Student Council distributed a six-question multiple-choice questionnaire to all grad students at Caltech. There were 270 respondents, which is about 32% of the graduate student population at Caltech. The questions and percentages given each response are as follows:

1. Please indicate which level (GSC) dues you find acceptable:
   - $0.00: 23%
   - $2.00: 27%
   - $4.00: 29%
   - $6.00: 31%
   - $8.00: 7%
   - $10.00: 4%
   - No Res.: 7%

2. Please rank the following areas of GSC activity in order of importance:
   - Intramural athletics: 1235
   - Parties: 4253
   - Support for organizations: 7966
   - Representing students: 1228

   Note: The numbers here are absolute number of responses instead of percentages. If the results are histogrammed, a different ranking appears, namely:
   1. Representing students
   2. Intramural athletics
   3. Support for organizations
   4. Parties

3. Should smoking be prohibited in all public meeting places on campus?
   - Yes: 77%
   - No: 19%
   - N.R.: 4%

4. Should a formal system be instituted for evaluating the quality of teaching in graduate courses at Caltech?
   - Yes: 69%
   - No: 26%
   - N.R.: 5%

5. How satisfied are you with Caltech’s library system?
   - Very Satisfied: 11%
   - Satisfied: 44%
   - Indifferent: 17%
   - Unsatisfied: 21%
   - Very Unsatisfied: 4%
   - No Response: 2%

6. Do you think the California Tech should be made into a campus-wide newspaper received by all graduate students (and paid for out of GSC dues)?
   - Yes: 45%
   - No: 50%
   - N.R.: 5%
   - (Yeah, why pay for them when you can rip them off?)

Computer Science, Engineer, Math & Physics MAJORS

LOGICON'S name is synonymous with technical excellence. We are a recognized leader in engineering and computer science fields of software reliability, fault tolerance, guidance & controls, simulation, and application systems.

In addition to technical excellence, LOGICON has a small-company environment that is ideal for developing your potential. We can offer you:
- CHALLENGE... LOGICON's advanced applications require creative and original solutions to challenging technical problems.
- VARIETY... LOGICON has built a solid base of diverse, medium-sized contracts which prevents stagnation and develops new technical skills.
- RECOGNITION... LOGICON lacks the multi-tiered, rigid management structures of larger corporations so accomplishments are noticed, appreciated and rewarded.
- GROWTH... LOGICON has a steady growth pattern that provides stability while adding opportunities for our staff to expand their professional horizons.

Logicon will be on your campus
Thursday, February 15
at the career placement office
NEWS

Cycling
NOTICE: All unclaimed rules remaining in the Bicycle shop will be open after noon and the convenience of anyone being to claim stored items. Petitions will be available for those wishing to prevent access to the shop. The owner of the Bicycle shop located in the Garbage Court in the old undergraduate houses.

Making a friends

A close we like you...
The Caltech Y is looking for you, young Techers who wish to be part of next year's Caltech Student Executive Committee. We need twelve people who will work on publicize, and put on Y programs. The job is guaranteed to all that spare time of yours to good use (ha ha). If you are interested, come in and sign up in the Y Office. You will ask Walt Meader, Director of the Y, for some additional information. Graduate students are especially welcome.

A Your Eyes Only
This means anything to you, except Security at 1702.
6 Jan. 1979

Love -
Thought you might be able to share this at times when your big ego is too bully.
Playback your toccata and fugue at times when your big ego is too bully.

Your Eyes Only
This means anything to you, except Security at 1702.
6 Jan. 1979

Love -
Thought you might be able to share this at times when your big ego is too bully.
Playback your toccata and fugue at times when your big ego is too bully.

Unreadable Initials

Ashley Roachclip Returns!
Barton C. Gilbert will appear on campus tonight, February 9, to speak on his initiative to legalize the possession, sale, and use of marijuana. Petitions will be available for those wishing to aid him in the ballot drive. The meeting will be at 8 pm in the Y lounge, second floor of Winnett, and is sponsored by the Caltech Libertarian Alliance.

Be Tutored!
The list of Biology tutorials (Bi 23) to be offered next term is now available outside the Biology Office, 156 Church, and outside Rm. 12, Beckman Labs. The tutorials are staffed by Biology faculty, postdocs and grad students. They provide an opportunity for learning through personal contact in a small group situation and cover a broad range of subjects. Bi 23 may be taken for up to 6 units, grading is pass/fail. For details, see Ron Konopka, Rm. 12, Beckman Labs.

Last Chance
If you have not taken BEM 110 from Professor Robert Gray, the coming third term of 1978-1979 is the last time you can take this course from him. Because of age and health (too much age and not enough health) he is scheduled to be promoted to Professor Emeritus. The course has helped many Caltech students prepare for the shock of working for money instead of grades.

It is not clear as to whether or not the course will be continued after Gray's retirement. His other courses, BEM 132 and BEM 106, were not offered this year. A few years ago when Professor Hutton was chairman of H&SS, the Division recommended that BEM courses not be given credit towards the H&SS requirement. The faculty rejected this recommendation.

The Division wins the war, however. If the courses are not offered, no one can take them for any type of credit.

- Robert Gray

ENGINEERING & COMPUTER SCIENCE MAJORS

GET YOUR CAREER OFF THE GROUND WITH BOEING.

If you're about to graduate with an engineering or computer science degree, we'd like to talk to you about your future.

Will it be in commercial jetliners? We're building two new planes — the 767 and 757. While the orders for 727s, 737s and 747s keep coming from all over the world, perhaps you'd like to get into the aerospace field, where we have more projects going than you can shake a calculator at.

Or maybe you'll help us provide computer services to over 2,000 clients, including government, private industry, commercial airplanes and aerospace.

Whatever path you take at Boeing, you'll enjoy living in Seattle — one of America's most beautiful cities.

BOEING WILL BE ON CAMPUS

Boeing will be here within the next two weeks. So sign up for your interview today in the Placement Office. Then we can tell you in person about all the opportunities you'll have to grow with Boeing.

If this time is inconvenient for you, just write us: The Boeing Company, P.O. Box 3707-VLO, Seattle, WA 98124.

An equal opportunity employer.

BOEING GETTING PEOPLE TOGETHER
OUT OF CONTROL

by Tim Brazy

This story has its roots way back in first term. We were listening to the radio one day when a commercial came on announcing the Dating Game. We were looking for a "sexy girls and guys" for their show. A few raised eyebrows. "Why not?" I said. We picked up the phone and dialed. "Hello, Dating Game? My name is Alan Kamei..." Click. Alan had just hung up and said, "Why not?" I said. "Why am I doing this?" cried Mark. "OK, what the hell." I called and the appointment was all set for sometime during finals week. Perfect, except I didn't have a ride. How would I get to Hollywood? Answer: Dale Ota.

Finally, he agreed, and we both had an interview for finals week. But out initial enthusiasm wore off quickly. "Why am I doing this?" cried Dale. "I don't know," came the reply.

So we began trolling the Dating Game, to get some idea of the questions asked. Reluctance gave way to enthusiasm and excitement when we watched out first show. Miss April, who had been poured into her shirt for the occasion, was the first contestant. We were ready. But still we were getting cold feet. Actually, we were chickening out. I talked to my parents on the phone. Dad's go for it! Mom: Oh no!!! Not only that, but Wern, Kurt, and the rest of the out buddies would have given us a lot of shit if we had not gone.

We continued to troll the show. One night I had gotten back from the library at 10:57, just in time to watch the show. "Come on Dale, let's go watch," I said. "No. I have too much work to do." "Come on." "OK." We sat down just as the show started. They introduced the three bachelors and the girl walked on stage. All of a sudden Dale went wild. "I know that girl, I know that girl!!" he cried. "What?" we all said. We all assumed Dale was just going out of control, something we all took for granted. But Dale kept insisting that he actually knew this beautiful girl.

That's Diane Kimball, that's Diane Kimball." Then we heard "...and here she is now, Diane Kimball!!" What the hell was going on? Well, it turned out that Dale knew this girl from his high school. Ah, an omen! We were ready once again. After changing out appointment to the eighth of January, the day finally came.

What the hell, the worst thing that could happen was that we could get terribly rejected, right? Anyway, after a bottle of wine and some beer, we left the house at 4:00. We laughed all the way to Hollywood, making jokes and imagining what it would be like if one of us got on the show. We weren't even nervous (not until we found the building, that is). Fortunately, we were 45 minutes early, so we immediately went into the bar to "relax." Pretty well relaxed, we went to the Dating Game offices. After standing out in the hall for five minutes, trying to get up the courage that we had left in the bar downstairs, we finally made it.

"Hi there, you must be Dale and Tim," said the man behind the desk. "Just take these forms in the other room, fill them out, get your picture taken, and wait in room A." We sat down in the corner and Dale started to go quietly out of control. He filled one form out incorrectly, and laughed all the while he filled in his description of his "ideal mate." Everyone else in the room was trying to concentrate on the forms, being very serious about the whole affair. We finally finished the forms, and were instructed to go into a room to wait with some other guys.

An hour passed, and then Dale and I had our chance. All I can say is that Dale came through in the clutch, just like a thoroughbred horse winning by a nose. He was so cool and collected, in air of confidence was definitely noticeable. I was truly amazed.

Q: Bachelor No. 1, if you were your houseplant, how would I have to treat you to make you feel good?
A: Uh, well, uh, you'd have to rub my leaves, and, uh, water me every day, and talk to me every day, and, uh, dance with me every day.

Dale was laughing now, and everyone was entranced. The girl asked the second question.

Q: Bachelor No. 1, what do you think of marriage?
A: Well, marriage isn't for me right now. It's not something you should rush into like a first date.
The interview was over, and Dale and I laughed all the way home. They would call within a month if we had made it. We thought it was over. But was it?

A week had gone by when the phone call came in. Dale had made the Dating Game! Not only that, but he had been chosen to ask the questions! Unbelievable, for a man who is totally out of control. An example:

They say a picture is worth a thousand words. Look at the picture.

Question: Is this man in control?

The Dating Game has its hands full to say the least.

Oddly enough, another Techer was on the dating game recently. His name is Joel Balbien, a second-year graduate student in Social Science. Tune in to the Dating Game next Thursday night and watch him win.

The interview was over, and Dale and I laughed all the way home. They would call within a month if we had made it. We thought it was over. But was it?

A week had gone by when the phone call came in. Dale had made the Dating Game! Not only that, but he had been chosen to ask the questions! Unbelievable, for a man who is totally out of control. An example:

They say a picture is worth a thousand words. Look at the picture.

Question: Is this man in control?

The Dating Game has its hands full to say the least.

Oddly enough, another Techer was on the dating game recently. His name is Joel Balbien, a second-year graduate student in Social Science. Tune in to the Dating Game next Thursday night and watch him win.

C.I.A.
AN EQUAL OPPORTUNITY EMPLOYER
(Women and Minorities are encouraged to apply)

NOW IS THE TIME
TO CONSIDER JUNE
EMPLOYMENT
OPPORTUNITIES

CAREER OPPORTUNITIES
WITH THE
CENTRAL INTELLIGENCE AGENCY

The Central Intelligence Agency has professional opportunities for persons trained in the disciplines listed below. If you are a senior or graduate student now completing your studies we will be pleased to review your credentials.

- Aeronautical Engineering
- Electrical Engineering
- Electronic Engineering
- Nuclear Engineering
- Aerospace Engineering
- Optical Engineering
- International Relations
- Information Science
- Computer Science
- Mathematics
- Economics
- Physics

All initial assignments are in the Washington, D.C. area. Some require foreign travel. U.S. citizenship required.

Get an application form from the PLACEMENT CENTER, Room 10, Dabney Hall. MAIL IT NOW!! Qualified applications will be contacted to arrange an off-campus interview.

MAIL YOUR RESUME OR APPLICATION FORM TO:

CENTRAL INTELLIGENCE AGENCY
L.L. CURRAN
P.O. BOX 669
LAWNDALE, CA 90260

Plus an assortment of posters, gifts, and supplies.
At the Valentine's Day Sale
FEB. 14 • 15

At the entrance to the Caltech Bookstore
Ski Touring: A Different Kind of Ski Experience

There are two kinds of skiing—alpine and nordic.

How do they differ? In a nutshell, alpine skiing concerns downhill skiing while nordic deals with skiing on level ground. Nordic is often referred to as cross-country skiing or ski touring.

Nordic skiing is considered “the quiet sport” because of its more relaxed, back-to-nature approach to skiing. You’re not whizzing down a slope or trail; instead, ski tourers glide along the ground through old logging trails or specially cut XC trails through the woods, or over golf courses and hillsides.

Basically, nordic skiing is simply straight forward walking and sliding on skis. The nordic ski is more narrow than alpine models and the binding allows the heel of the boot to rise in a natural walking movement; alpine bindings secure the boot to the ski.

In addition to the more inexpensive nature of nordic skiing, one of its primary attractions is its compatibility with Mother Nature and undisturbed ecology. No lifts. No motors. Small, narrow trails. Away from the crowds, cross-country skiers are usually by themselves as they glide over the countryside.

A skitourer easily breaks into a glide with each step, using ski poles to sustain the momentum. With only a minimum of concentration, the average non-skier can quickly catch the rhythm of ski touring.

An experienced ski tourer can cover terrain about twice as fast as hiking the same ground.

Nordic skiers often pack a light meal before starting their trek and then stop along the trail for an impromptu picnic, much like spring skiing at alpine areas.

Two reasons for the recent growth of nordic skiing are the expense and the conditions. Trail fees are often as low as a dollar or two and XC skiing needs a bare minimum of snow cover—just enough to cover the ground. Because the traffic is not as heavy nor as tough as on alpine terrain, nordic trails can get by with an inch or two of snow.

Many alpine areas and lodges have instituted ski touring centers with instruction and equipment (to buy or rent) to help provide a gentle alternative to downhill skiing. But the winning combination is the same—skis and snow.

Quintet

Imagine a world frozen into a nearly solid sphere and frozen into a time when and where only the death of humankind is left to occur. The sight of dogs devouring the dead outside your door is not a cause of alarm. A glimpse of a goose in migration is an awesome wonder. You have nowhere to go. You will be overpowered by man’s last passion for victory and revenge. You have no friends. You must play the game; you must win at Quintet.

The players of this intriguing diversion—created by Robert Altman—come from a multinational cast including Paul Newman as Essex, Bibi Andersson as Ambrosia, Fernando Rey as Grigor, and Vittorio Gassman as St. Christopher. Their world is a reality as a result of Director/Producer Altman’s imagination and his crew’s inspired set design.

To create the illusion of a frozen world the filming was done around Montreal, Canada and at Frobisher Bay during the winter. No other feature film has been done under these extreme conditions. All the sets, even those for the interior scenes, were outdoors where the temperature was always below freezing. About the sets, production designer Leon Erickson said: “All we could control was fifty percent of it. We’d build a supporting structure, and then snow and ice would cover it creating a completely different effect.”

The cold proved to be a challenge for the crew. A six-story grid-work building was built along the St. Lawrence River’s Isle St. Helene. Sets were welded onto the structure to prevent the gales off the St. Lawrence Seaway from blowing them away. Ten times the usual amount of electrical equipment were required to service the filming gear. Warming elements had to be mounted on all cameras and lenses to keep them from freezing. Some cables became frozen and could not be removed until the spring thaw. On some days, snow drifts forced the company to snowplow its way to the location; on others, they had to snowplow out.

Despite the use of tons of salt and sand, walking was always hazardous on the slick ice. The continued on page 11.
Health Center Psychologists Lack Patients

Continued From Page 1

...or Make Your Move in Aerospace!

Rockwell also offers an exciting career game plan within our dynamic Aerospace Operations. Long the leading contractor in the nation's space program, we continue a strong participation in ongoing space efforts, and are advancing technology in propulsion, aircraft, and energy systems—all part of the Aerospace Team's contributions.

If you're degree in AE, EE, ME, CHE or Computer Science, or a related area such as Structural or Electronic System Design or Mechanical Controls, you're sure to find a strategic career position in Aerospace with Rockwell.

Contact your placement office today for an immediate interview.

Ellison

Continued From Page 1

world, simply because they shout as loudly at him as does at the audience. For instance, on a tape entitled "Harlan Ellison Alive, and Very Annoying at MIT" the first voice you hear is that of a member of the audience yelling "Focus!" Typically, Ellison then erupts in an assault on the audience. For some reason audiences love it. Monday night at 8:00 Ellison will discover what a Caltech audience is like. Be there.

QUINTET

from page 10

actors' talents were tested by their having to look nonchalant while negotiating on the ice. The river scenes were particularly difficult. Sitting there, the temperature was forty below zero. One crewmember slipped into the water and was rushed away for emergency medical treatment.

The actors wore multiple layers of thermal underwear and outer clothing made of thick, heavy materials. To manufacture the two hundred costumes needed, a clothing factory was set up in a deserted building near the sets. The garments were worn in combination so as to capture insulating air layers and were very successful in keeping the actors warm.

The dogs which ominously appear in Quintet are of a breed called Kottweilers. They are descendants of Roman war dogs which were sent ahead of the troops to weaken the enemy. This particular pack was obtained in Southern California and driven to Canada to acclimate them to the cold.

Unlike many Robert Altman movies (M*A*S*H, A Wedding) which are collages of related scenes, this film has a plot which is being left for the viewer to experience himself. It can be said that the action is non-stop, but that the events move in a cold, calculating way which allow the viewer time to reflect upon their meaning and time to acclimate to this situation removed in time and space.

Quintet is a Twentieth Century-Fox release which opens today, February 9. - Eve Bennett
An invitation from IBM to discuss your career.

**Tuesday & Wednesday, February 27 & 28, at the Caltech Placement Office.**

If you are thinking about a career in engineering, computer science or sales/marketing, IBM is certainly one company you should consider.

IBM provides a uniquely creative environment in which talented people are encouraged to accept the challenge and responsibility offered by one of the prime growth industries: information technology.

We can offer you a remarkable variety of career opportunities in many areas. Come and talk with us. We'll be interviewing at Caltech all day, February 27 & 28. Your Placement Office will be happy to set up your appointment.

In the meantime, if you would like to know more about us and the many opportunities we offer, our career brochures are available at the Placement Office.

_Harley Thronson_  
Corporate College Relations Manager  
IBM Corporation  
3424 Wilshire Boulevard  
Los Angeles, CA 90010

<image>