

Come On
People,

The CALIFORNIA Tech

It's Spring!

Volume LXXIX Number 32

Pasadena, California

Friday, May 12, 1978

Bunburner Takes 11th at Ontario Motor Speedway

By Spencer Klein

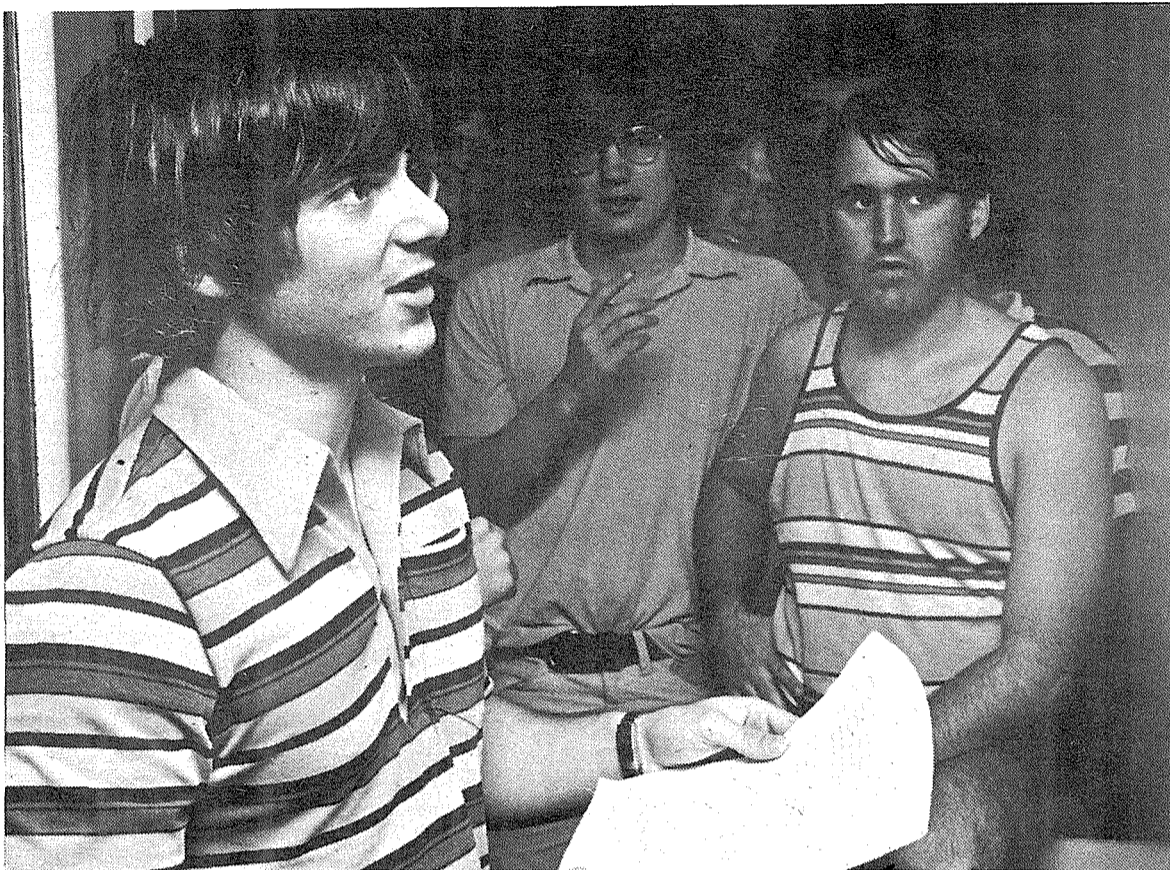
Last weekend a bicycle from Northrop University went 54.5 miles per hour to set a new human powered speed record. The two man cycle, *White Lightning* was only one of the many strange vehicles entered in the two day International Human Powered Speed Championships, held at Ontario Motor Speedway.

Two vehicles from Caltech were entered. One was a 3 year old model, the *Bunburner* which took eleventh place. It was ridden by Alec Brooks, a grad student. Last year it took fourth, and this year a similar design, only ridden by good bicycle racer (the same one who flew the *Gossamer Condor* took fourth.)

The other Tech entry was scheduled to be a new design. It was designed by Dave Sivertsen and Alec Brooks. Unfortunately, it was not finished in time. Instead Pat Huber rode his relatively standard ten-speed (with only a small windshield added for streamlining). He did reasonably well, taking 31st out of about 45 vehicles competing. Pat would have done better, but his first run was not timed, and so he had to make another with very little rest. According to one official, "They didn't know that he was coming." Also, he said that he thought that he was through the timing zone when he wasn't, and so he slowed down. It appeared that these two things cut 5-7 miles per hour off of his 27 mph run. It is conceivable that he could have made the finals if not for these two things.

There were several very unusual looking bikes entered. There was one two-man bike where the riders rode prone, double deckered on boards. Another, the *Snail*, had three wheels and looked like it's namesake. Another tricycle type had three foot aluminum wheels. Several entries consisted of ten-speeds covered with a plastic fairing. Two paraplegics entered with hand powered cycles.

Besides the 200 meter sprints, there was also a one hour road race. The winner was a bullet shaped cycle which covered 29.4 miles. It would also have won the third even, the 35 kilometer road race, except it tipped over on the third curve. All in all, it was an exciting weekend. The wind caused some problems for the bikes, and three or four of them tipped over. It was bad enough to cut down the speed of many of the first-day runs (*White Lightning* did 50.9 mph the first day, and 54.5 mph the second). Unfortunately the promised hot air balloon never materialized, and the skateboard ramp appeared but with not performers. However, the crowd of 150 to 200 generally enjoyed themselves. The amiable, helpful atmosphere, something almost all other sports lack, was a welcome change, and was especially nice in view of the large (\$10,000), first place prize.



"After you got in you did *What?*" Louis Testa asks a question that many Seniors faced Wednesday.

Photo: Joe DiGiorgio

Ditch Day!!!

By Spencer Klein

Ditch day this Wednesday was marked by a large number of stacks, about 50. A rough count showed about 5 of them to be brute force.

In Page House, Gregg Bone had a stack that remained unbroken. It appeared to be a computer stack, which could be opened by entering appropriate data. In reality, all that had to be done to open it was to leave it alone for a half hour. It objected to noise, power line glitches, entries on the keyboard, and window vibrations.

Nelson Lee and Don Chin had the most notable stack in Ricketts House. It was a true brute force stack. To enter, Scurves climbed up on his balcony, removed the desk, pushed two panes out of his windows, slit the screens, sawed two bolts and a

two by four in half through a small crack between two closet doors, knocked a pipe out of the way, and shoved the closet doors down. Plans to restack the room were shelved when people saw the generous bribe. It included fresh strawberries, ham, balogna, several kinds of cheese, Chinese butterfly pastries, and a large assortment of the usual kinds of munchies and drinks.

Al Drehmen's stack in Lloyd was never broken, despite its simplicity. It consisted of two pipes and two wires sticking out from his door. Several clues suggested that liquid nitrogen be poured through the pipes. Underclassmen spent all day doing this and sending various types of currents through the wires. However, all that was needed to get in was to send 110 volts through the

pipes, which blew a fuse and started a motor to open the door. Underclassmen had abandoned sending electricity through the pipes when they found that it had no resistance (because of the fuse).

Ruddock House had a doppler radar for it's most memorable stack. To open it, all you had to do was to throw something at the door at fifteen meters per second. Unfortunately, the sensitivity was set too low, and it was not opened.

see Day page 4

Bergman at Cinematech

This week Cinematech returns after a two week respite for midterms. Beginning the final three programs of the series will be a night of Bergman. The first feature will be *The Naked Night* also called *Sawdust and Tinsel* followed by the second film in his religious trilogy, *The Winter Light*.

The first film, as the alternate title suggests, is about a circus. The circus holds a special place in the cinema. In a circus little is what it actually seems and the hiding of the truth can always be portrayed through the mask of a clown. Bergman makes outstanding use of the camera to give us a world that excludes the normal. Throughout the film the actors become grotesque figures and the stage is transformed into some sinister cavern.

Critics have cited this film a pivotal point in Bergman's career.

His film expression became more subtle. Also he is still saying similar views, compared to his other films, in *The Naked Night*. he developed another style of expression. Although his spontaneous inspiration seems to be lost in this film; it still has the quality of growing with the viewer long after the film is over.

Bergman uses two stories concerned with the circus to relate the relationship of one of the couples. He begins with a flashback to a clown and his wife. Throughout the film, the viewer is given another affair and left to its own judgement to recognize the parallels and counterpoints.

The second film of the evening is Bergman's second in the religious trilogy. The film arises from Bergman's desire to define man's relation to God provided He exists. The story revolves see Bergman page 8

Maarten Schmidt Elected Associate of NAS

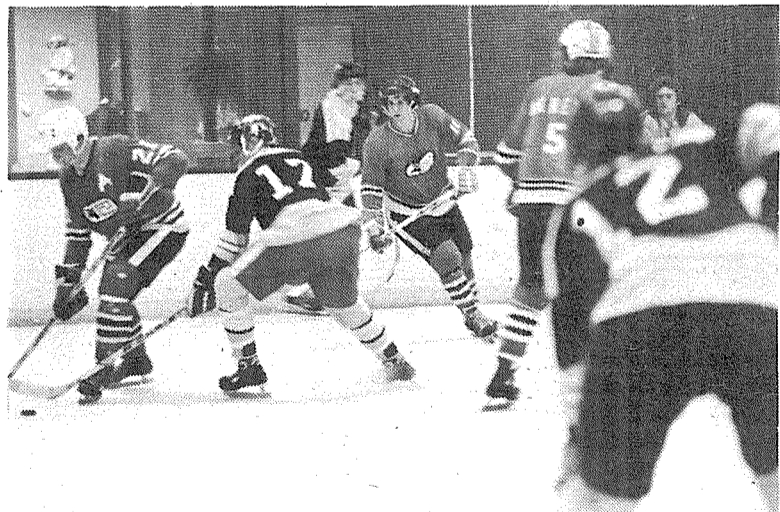
Dr. Maarten Schmidt, chairman of the Division of Physics, Math and Astronomy, internationally known for his work on quasars, is one of 15 distinguished scientists from nine countries who have been elected this year as foreign associates of the National Academy of Sciences.

Although full membership in the Academy is accorded only to American citizens, foreign scientists who have done outstanding research in the United States are honored by election as foreign associates. This year's elections bring the total number of Academy foreign associates to 179.

A citizen of the Netherlands, 48 year old Schmidt first came to the United States in 1956 for a two-year study at the Hale Observatories in California. In 1959, he was appointed to the Caltech faculty and to the Hale Observatories staff. Last year, he was named to succeed Dr. Horace W. Babcock as director of Hale Observatories. When Dr. Babcock retires this June.

Dr. Schmidt made astronomical history when, in 1963 he discovered that the mysterious spectrum of light from quasars indicated that they were, in fact, the most distant and brightest objects in the universe.

Dr. Schmidt earned his doctoral degree from the University of Leiden, in the Netherlands. He currently resides in Pasadena with his wife and three daughters, 15, 17 and 19.



Techer Mike Friedman (17) takes control of the puck. Photo: A. Bricks

Tech Icemen Approach the End of a Good Season

By Grant T. Yokum

As the trade winds bring warm air, as the snow begins to thaw, as the summer smog begins to build and as the Stanley Cup Play-offs proceed unnoticed by the L. A. Times, the Caltech hockey season nears its end. The Beavers have had remarkable success considering that this was a rebuilding year with many mid-season trades and personnel changes. Never before has the team fielded so many

rookies since its conception, and the new blood has spurred the pucksters to their best season in three years.

Caltech, having finished third in the regular season with a 12-8 record, drew first place Pierce J.C. in the opening round of the S.C.C.H.A. play-offs. The three game series ended when Pierce defeated the Caltech ice men in the third game. Pierce went on to see Hockey page 2

The Last Detail

All The News That Fit

Up, Up, and Away
Next Wednesday evening at 8:00 there will be a slide show in the Y-lounge on backpacking. Also to be discussed is the Y backpacking trip for next fall. The ace-backpackers showing the slides will be Alec Brooks, Paul Magliocco, and Ernie Lewis. It should be an enjoyable evening. Hope to see you there.

I'd know that DNA anywhere!
Next Wednesday, there will be a Y-Noon Update. The speaker will be Peter Dervan, Assistant Professor of Chemistry here at Tech. The talk will be on "Molecular Recognition of DNA by Small Molecules," and will be in Winnett Club Room 1. See you there.

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Tute Your Bio, Froggy!
The list of Biology Tutorials (Bi 23) to be offered fall term is now available in the biology office, 156 Church. 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.

The Air We Breathe
A summary of atmospheric tracer studies with smog related research by Dr. Fred Shair will be given at 8:00 pm on Wednesday, May 17 in Winnett Lounge.

Docking Difficulties?
Anyone interested in being part of the pier counseling groups for next year, should sign up in the Master's Office. That's Karmela! Anyone with questions should direct them to a present pier counselor—there's bound to be someone in your house who is one. Or else talk it over with one of the psychologists over at the Health Center.

Israeli Celebration
The Caltech Hillel invites you to celebrate Israeli Independence Day on May 21 at 6:30 pm in Winnett Lounge. Live entertainment, refreshments. Admission \$2 for students.


Further Extension
The Health Center, for your convenience and delectation, has acquired another phone extension, to wit: 2393. This is in addition to their previous numbers, conveniently arranged as: 2394, 2395, and that ever-popular 2396. Just thought you'd like to know.

Egad!
"Where did you get that black eye?"
"In the war."
"What war?"
"The boudoir."


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Thomas Banyacya
Leader of Hopi people
Daniel Berrigan, SJ
Helen Caldicott
Cancer researcher & pediatrician
Cesar Chavez
Daniel Ellsberg
Flo Kennedy
Allard Lowenstein
U.S. Representative to United Nations
Joseph E. Lowery
National President, Southern Christian Leadership Conference
Eugene McCarthy
Helvi Sipila
Assistant Secretary General of the United Nations

PERFORMERS
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Harry Chapin
Arlo Guthrie
Richie Havens
Holly Near
Tom Paxton
Peter, Paul and Mary
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Day from page 1

Louis Testa had his stack set to open when his phone was rung 34 times. When he returned from Disneyland Wednesday, he found that thoughtful underclassmen thought he should have gone to the beach, so they brought it to him.

In Dabney House, all of West 5 alley was brute force stacked. It was quickly broken, and signs warning of self defence gassing mechanisms proved false. Inside, all of the senior rooms were stacked. Chris Reed, one of the occupants, found that his offer of a bribe was refused, and that his room (except for the walls) was moved down to the Blacker-Dabney courtyard. For some reason, they didn't like a 25 pound bag of dog food.

ed. Bielecki's stack, consisting of a treasure hunt, was not broken. The first clue was hidden 15 miles up the Angeles Crest Highway. The second, which was not found, was back on campus, as was the fourth. The third and

fifth were hidden back up Angeles Crest Highway.

Eric Lucha's stack was notable for its simplicity. The clue was "Eternal Flame." To get in, you just had to heat up the doornob enough to make some paraffin melt.

A chess stack was the last real stack to be broken in Ricketts. To open it, you had to find all possible solutions to three chess problems, and go look for the key in a place mentioned in a note in a book in Millikan, whose call number could be found by solving the problems. The meager bribe of bagels, a chocolate cake, and some opened bags of munchies was refused (this was shortly after opening Nelson Lee's huge bribe). The door mechanism from Nelson's room was moved into Josh Rothenburg's room, and he had to get back in through a window.

Jesse Slater and Chris Sexton prepared a trivia quiz on Fleming seniors and graduates for their



Photos
by

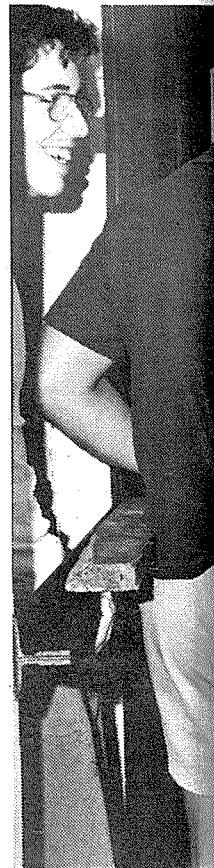
Joe DiGiorgio
Al Kellner



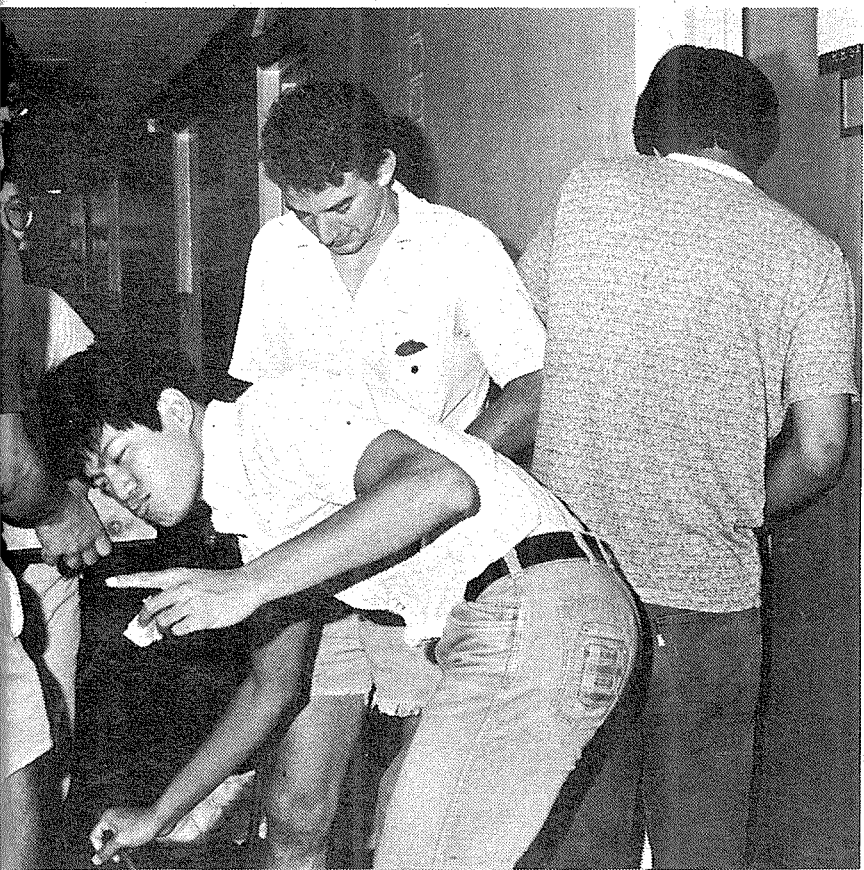
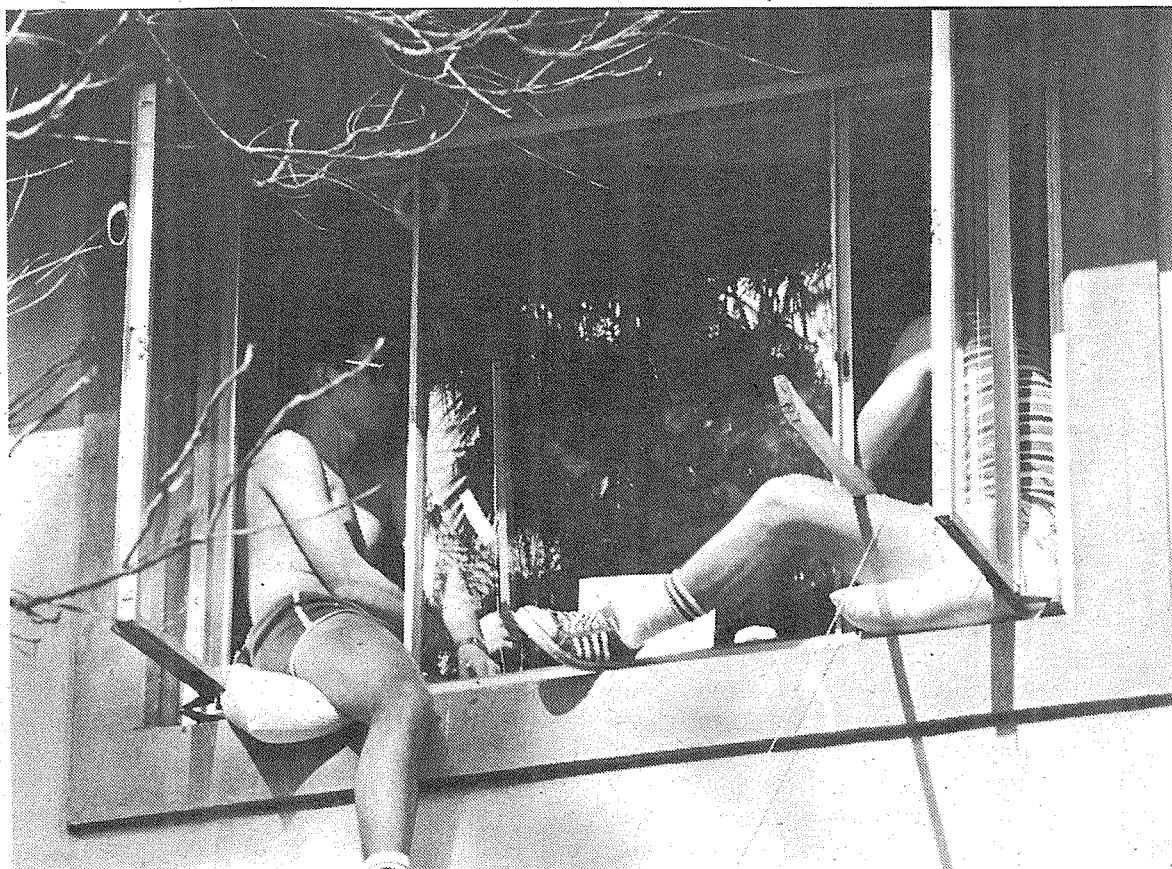
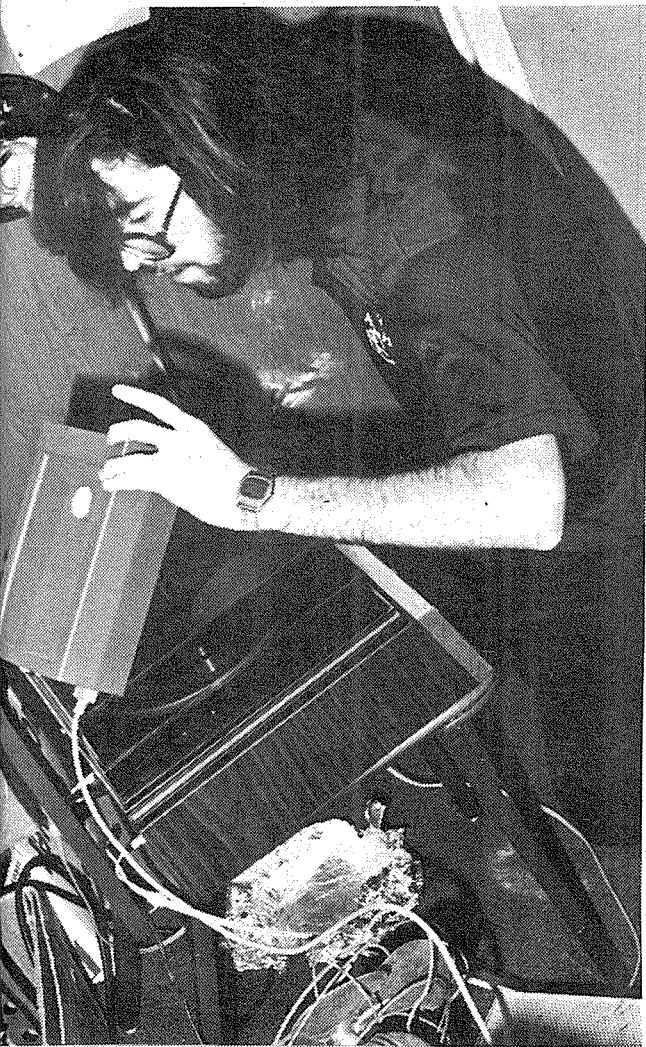
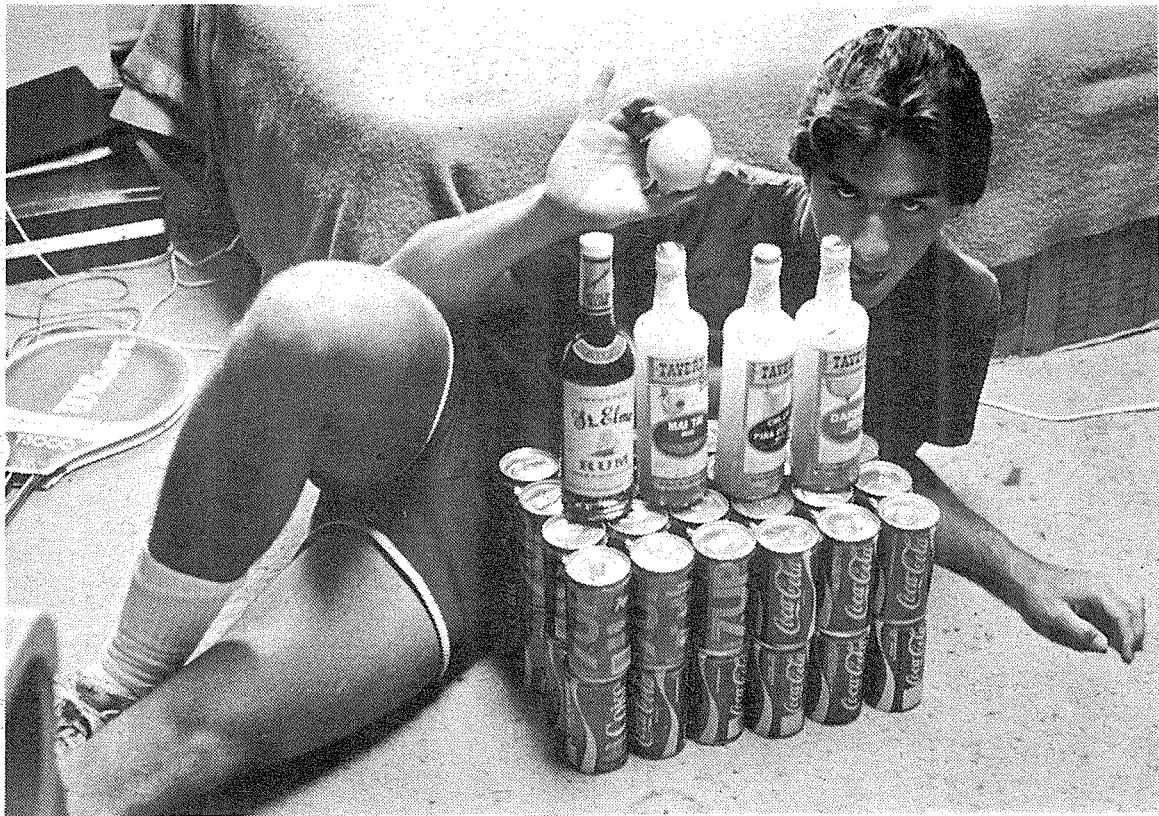
stack. It was solved, and the clue said to look under Millikan Bridge. When some Flems looked in Millikan Pond they found a key, but the key didn't work. The real key was found in the nick of time, hidden under the the bridge of Millikan statue's nose.

Marc Berger, of Lloyd House, had a stack based on astronomy. The clue consisted of two numbers, which were eventually recognized as the coordinates of the sun at 5pm on ditch day. A photocell on the roof was set up to be illuminated by the sun at 5pm, allowing entry. To get in, you had to illuminate the photocell.

All in all, it was an exciting ditch day, highlighted by many more stacks than last year.



SENIOR DITCH DAY



CLASSIFIED ADS

2 bedroom apt. available for summer. \$225/month and utilities, a/c and pool. 120 S. Chester. 792-9794, L. Parnow.

HOUSING WANTED: Married Stanford couple will house-sit or sublet, Jun-Aug. Phone (415) 321-6641, 7-8:30 am/5-7 pm.

'72 Pinto Runabout, red w/black int. Good condition, new batt. and clutch, \$1200 286-3874 afternoons.

CALTECH undergrad is looking for off-campus housing for the summer. If you will be away and would like to sublet a room, etc., contact Les Niles, Ricketts 41. 449-9171 or ext. 2173.

DISHWASHER for sale. Five years old. Call Nancy at 796-0627.

TYPING: Ruth C., expert typist. West Los Angeles. Dissertations. Tables. Correcting Selectric. Symbols, pica and elite. Many typestyles. 7 days a week. 838-8425.

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Me, take another exam? Are you crazy?!!

Q. The Navy Officer Qualification Test (NOQT) is a piece of cake, right?

A. Not necessarily.

If you're majoring in engineering or another technical area, we would expect you to do better than an Inner Mongolian Cultural Arts major, but you won't hear our telling anyone that the test is easy. The NOQT is an aptitude exam dealing with number and letter comparison, instrument interpretation, word analogy, practical judgment, mathematical reasoning, and mathematical comprehension involving gears, levers, pulleys, fluids, etc. For

those interested in an aviation program, there is an extra section dealing with aircraft orientation.

The Navy Officer Information Team will be administering the test in the placement center on Friday, May 12, 1978, at 10 am. The tests will be scored as soon as you finish, and an officer will be available to discuss the various programs you might want to consider.

Taking the exam results in no obligation to the Navy of course, but it just might tell you something about yourself you didn't know. Come and give it a shot. You might even pass.

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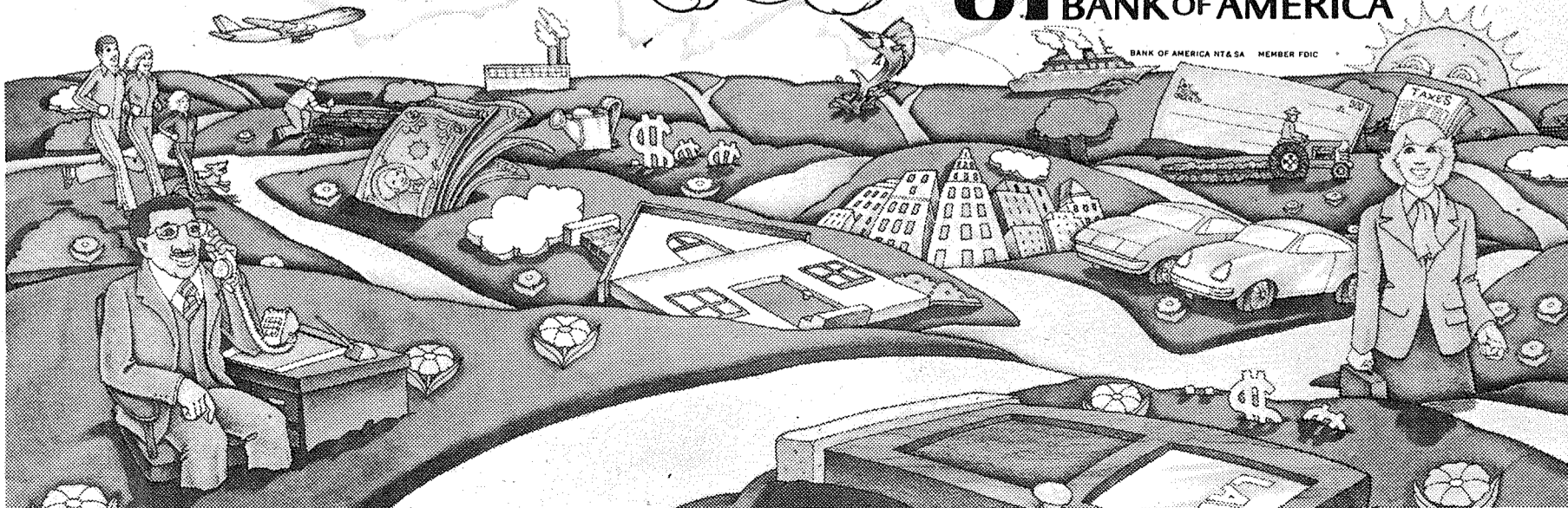
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Dr. Benton a Medieval Fellow

Dr. John F. Benton, professor of history, has been elected a Fellow of the Medieval Academy of America, in recognition of his distinguished published contributions to medieval studies.

At 46 Benton is the youngest Fellow of the Academy, out of a membership limited to 80 from the United States and Canada. He was cited for his studies on the 12th century lovers, Abelard and Heloise, his book on town origins, and his investigations of literature and society.

Benton attended induction ceremonies at the Academy's 53rd

annual meeting in New Haven, April 14-15.

A member of the Caltech faculty since 1965, Benton has a PhD from Princeton and a BA from Haverford College. He was a Fulbright Research Professor at the University of Reims in 1972.

Currently Benton is studying the application of space-age image processing techniques to the reading of historical documents. He is scheduled to deliver an address on the subject to the Academie des Inscriptions des Belles-lettres in Paris in June.

Oh No!
"Waiter, there's a fly in my soup."
"Grab your fork quick. Maybe a trout will come to the surface."

CORRECTION
On page one of last week's *Tech* the picture of the runners had the wrong caption. Actually pictured was Arne Fliflet handing off to Vic Manzella. The *Tech* regrets the error.

May 10-11

BUFF/MISSOURI FOX
BOB AND DARYL MOONEY

May 12-13

STAGE/MARK McKINNESS

May 14

STAGE/MADNESS

May 16

CLEAN/KATE WALLACE
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Budweiser

Bergman from page 1

around a priest who is mourning the death of his wife. He is incapable of feeling any tenderness for anyone. A fisherman who is petrified with fear of the Chinese atom bomb tries to see the priest for consolation. The priest is unable to offer anything to the fisherman.

All this time there is a schoolmistress who worships the priest. The ending of the film is very powerful with the priest beginning a Mass for an empty Church.

Cinemathech films are shown on Saturday nights at 7:30 in Baxter Lecture Hall. Donations are \$1.50 for the general public, \$1.00 for

ASCIT and GSC members, and 75 cents for children under 14. Please note that these films may not be suitable for younger children.

The ASCIT film this week is *The Midnight Cowboy*. Winner of the Academy Award for the best Picture of 1969, Dustin Hoffman and John Voight giving smashing performances. Hoffman plays a sleazy-type of con artist while Voight plays a cowboy coming to the big city to sell his services to women. The story is concerned with the friendship that develops between the two and the general degradation of both men due to their lifestyles. The film is definitely worth the time.

Michael Kurilla

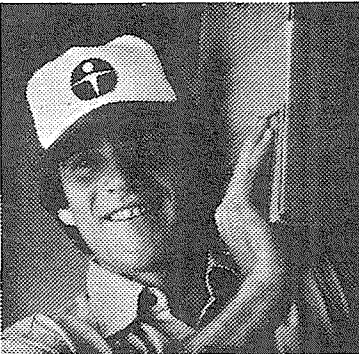
JOB INTERVIEWS

The U.S. Navy will be conducting job interviews in the placement center for positions as middle managers, business managers, engineers, pilots, and other positions.

Requirements are less than 27 years old within one year of receiving a bachelors degree, and a U.S. citizen.

If you are interested in making over \$22,000 a year in four years, sign up in the placement center for an interview. Interviews will be conducted Thursday, May 11, 1978, from 9 am to 3 pm.

Gad!
Slowly, her eyes glowing softly, the beautiful young debutante raised the glass on high, exulting: "Port wine is to me the nectar of the gods, the elixir of life. When I imbibe its fluid, my very soul begins to throb and glow. The music of a thousand muted violins whispers in my ears, and I am transferred to the make-believe world of magic. On the other hand, beer makes me burp."



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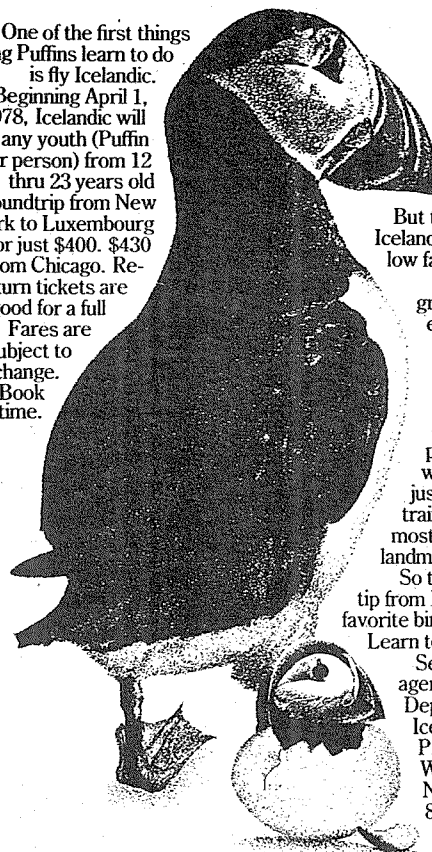
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Roundtrip 14-45 day APEX fare from N.Y.*

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Icelandic to Europe

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JUNIORS!!

Need a summer job? Why work?

If you are a junior majoring in math, physics, or engineering, the Navy has a program you should know about.

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

If selected, you have qualified for an elite engineering training program which will lead to unequalled hands-on responsibility, a \$24,000 salary in 4 years, and gilt-edged qualification for jobs in private industry should you decide to leave the Navy later.

For more information, call (collect station-to-station) Lt. Tim Norrbom at (213) 468-3321 or send your resume to Naval Officer Programs, 4727 Wilshire Blvd, Los Angeles, CA 90010.

GO FOR THE GOLD.

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The Golden Beer of Danish Kings.

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