Bylaw Changes
Voted Down
Salaries Nudged;
Elections Creamed

Major changes in the bylaws did not fare well in last Monday's special election; the increase in publications' officers' salaries and the change in the ASCIT elections bylaws went down to ignominious defeat. However, the amendment to lengthen the term of office of the treasurer passed by a five to one margin.

The amendments that showed the publications' issue being defeated by eight votes, while help bylaw changes were soundly drubbed.

The most unusual facet of the elections was the low voter turnout. Of the over 800 eligible voters, only 250 actually voted. This Kingsley, the ASCIT elections chairman, estimated was low for a bylaw election, and attributed it primarily to "gravity". He used the Winnett Student Center ballot box as an example of the low turnout. By the time the polls closed at 9:30 p.m., over ten hours after they opened, there was one vote in the Winnett Box, that only because the election chairman directed the voter there.

Kingsley noted that, though more publicity could have helped, generally it was a smooth election.

In a related subject, nominations for ASCIT elections closed yesterday and all campaign statements are due next Tuesday, the 26th. General elections will be held February 4th and 5th.

Election Results
Article Four—Officers
For: 205
Against: 41
Article Eight—Elections
For: 353
Against: 88
Article Fourteen—Publications
For: 165
Against: 16

SSO Needs Help

The Student Space Organization is working on six experiments to be carried into orbit in the space shuttle. The students are currently drafting proposals for a flight about three years from now. All six experiments concern space environment and zero gravity on various physical, chemical, and biological functions.

One project is an attempt to make better permanent magnets by avoiding convection currents caused by gravity in crystal formation. On the other hand, a different group is trying to form stronger non-crystalline alloys by also avoiding gravity convection.

Two other experiments will deal with the dissolution of salt in zero-g and the study of movement in droplets at various temperatures by photographing suspended aluminum flakes.

The biological experiments will cover plant growth in a centrifuge at various speeds to determine their response to gravity. They will also see how fungi avoid barriers in null gravity. This will support or weaken the theory that they emit gas and sense their return on gravity-produced convection currents after reflection from objects.

The SSO needs workers, especially biologists and engineers available for time spend. If you are interested, there are meetings at 8:00 a.m. on Mondays.
EDITORIAL

Another one bites the dust—Queen

Due to technical difficulties within our control, Stuart Goodnick will no longer espouse some deep Eastern philosophy; instead, we’ve decided to write comprehensible editorials.

Though this is our first real issue as editors (after many false starts), we have discovered that we do not know most of our staff, so, it probably is a good idea as any to reintroduce the Tech staff (in case you want to know whom to sue).

Among our prolific (and procrastinating) writers are: from Lloyd, Lee Sunderlin and Mike Walsh, from Fleming, John Krehbiel, from Ruddock, Peter Kaminski, Joe Balke and Charles Hershey, from Ricketts, Les Grate, from Page, Dave LePoière, and from Dabney, Margie Farrell, Lisa Grenier, James (His Name Is) Mayhem, Chuck Nichols, Richard Pogge, Bruce Sams, and Glen Swindle.

All is not roses, however. Purportedly illustrating the newspaper’s lackadaisical Tech photographers: first and foremost (always willing to lend a foot in the mouth) from Fleming House, the Head Photographer, Ken Gant. Among the mere mortals are: Paul St. Marie (a.k.a. Paul S&M a.k.a. Eraserhead), Dabney House; Mark Waggoner, Page House, Steve Swanson, Ruddock House, and oh, yes, another strange Frem, Grovel, is it, no, Grover! The business manager is Gavin Claypool, an ex-Science, who takes care of all the business aspects of the Tech, while trying to find himself a suitable replacement.

No less important is the glowing circulation manager, Paul Eskridge (Dabney) who dutifully picks up the paper from the printers every Friday morning at three and inflicts it on the houses. He is also responsible for mailing issues to our subscribers.

THE CALTECH Y . . . . . . . . . . . . fly-by

Behind the scenes in production is Nick Smith, an ex-editor, ex-Page person, now typesetter for the Tech, along with the usual rogues’ gallery who try to layout the articles in subliminally aesthetic manner. Our special consultant, Manny, is the foreman at News-Type Service (the printers). He and his cronies do the actual placing of ink on paper (not by hand, Ed).

Of course, we run into our share of problems; indeed, the major (and often fatal) flaw of the Tech is its perennial article shortage. To remedy this, we sometimes must draft ex-editors to submit random, spontaneous commentaries or reviews (which explains last issue’s restaurant review). Among this select group of ersatz journalists are Dave Younge (now Dabney House president), and Alan Loh. Finally, there are the semi-literate (but lovable) present editors, us, whose responsibility for the Tech, and make sure it is dealt out on time, if more than a trifle inefficiently.

In conclusion, now that we (and you) know who is on the staff, we will endeavor to give the accustomed high quality, hard-hitting yellow journalism.

—Tracy Furutani, Dabney House

ED Suranyi, Ricketts House

Roger Fong, Dabney House

(well, sort of)

P.S. Apologies to anyone omitted, inadvertently or not. Also remember that you too can be a layout troll, a prolific pundit, or even business manager. Sign up now at the Tech office.

IMMIGRATION ATTORNEY
Stuart I. Folinsky
2459 Mission Road
San Marino
Phone: 799-0651
L.A. Office: 413-8090

AUTHENTIC NEW ORLEANS “JASS”
at Caltech’s Beckman Auditorium
SATURDAY, FEBRUARY 7, 1981 at 8PM
All Seats Reserved: $13.00—$11.00—$10.00
SPECIAL CALTECH DISCOUNTS
Students: $10.40—$9.60—$8.80
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CALL CAMPUS EXTENSION 4652
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CALTECH TICKETS RUSH TICKETS: If any tickets remain, will go on sale at the Caltech Ticket Office at 10AM Friday, Feb-
Thursday, Feb. 7, 1981. Price: $3 each. Limit of two tickets per student; I.D. required.
Tickets are on sale at the CALTECH TICKET OFFICE, 332 S. Michigan Avenue, Pasadena (north of Beckman Auditorium, across the parking lot). Ticket Office Hours: Mon.—Fri., 10AM to 43PM, Sat. 10AM to 1PM. For information, call 365-4652.

DATE
THE CALIFORNIA TECH
FRIDAY, JANUARY 23, 1981

THE EFFECT UPON THE AUDIENCE IS DEVASTATING

DONATION WANTED

By Mike Meyer

Starting today, and continuing for a limited time only, a large number of “agents” of the Caltech Y will be scouring the campus, off campus housing, and every log, for the ever-elusive donation.

We’re not commissars around with big donation cards, try to convert everyone of us. First, the Y’s program capabilities are a direct reflection of its members; second, staff participation and interest are ideas valuable contributing factors. If you ever complained that we’re not doing enough? Well, it’s simple, talk to your agent, make programs, like department, noon concerts, and ski trips possible. Consider.

Secondly, we’re just not asking for that much, folks. For every grad and undergrad over $5, we’ll bring in about $2500. That would be super, since that’s a large part of our student program budget. We usually bring in about $1000 this week, maybe less. Five or ten bucks is a painless (over the course of year), and it provides so much in the way of programming and services. Please help us help you. And don’t be afraid of writing your ideas on the donation cards.

Friday, January 23, 1981

Vol. 5, No. 4

Published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed in all articles are not necessarily those of the editors or of the corporation.

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Trey Ronquillo
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Associate Editors
Dave Younge

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Photographers
Karen R. Co., Roger Fong, Paul St. Marie, Steve Swanson, Mark Waggoner

Production
Mike Meyer

Business Manager
Gavin Claypool

Circulation Manager
Paul Edwards

Special Consultant
Manny


Subscriptions
Price

1 year

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The Organization for Women at Caltech and the Caltech Y will sponsor a series of 'Women, Violence, and Self-Defense' during the winter quarter. The program will begin with a guest speaker from the Pasadena Rape Hot-Line and continues with a peer facilitator from a Haven House (a refuge in Pasadena for Battered Women) on January 25th, at noon in the Winnett Lounge. These lectures focus on women as victims, the laws, the whys, and the wheres of abuse as well as what to do and where to go in the event of a physical assault.

To Map the Sky
Survey Begun

(CNB)—Caltech will begin a new photographic survey of the northern sky, using its 48-inch Schmidt telescope at Palomar Mountain Observatory. The survey, conducted with funds from the National Geographic Society, the Alfred P. Sloan Foundation, and Eastman Kodak, will use improved films that will enable the recording of stars and galaxies four times fainter than objects visible in the last sky survey, completed in 1957. The 1957 survey has been used by astronomers as a basic guide to the discovery of new objects in the northern hemisphere sky.

"The sky survey conducted between 1949 and 1957 is widely recognized as being one of the most important astronomical developments of the 20th century," said Caltech Professor Alvin Sargent, who will oversee the new survey. "Without it, many of the most spectacular developments in contemporary astrophysics would have been either impossible or seriously impeded. The sky survey enabled swift optical identification of interesting objects, a large proportion of which were initially discovered via their intense radiation at radio, x-ray, or infrared wavelengths."

These objects include distant radio galaxies, quasars, and clusters of galaxies. The new effort, which will take several years, will consist of photographing about 700 overlapping areas of the entire sky north of the celestial equator, in both red and blue wavelengths of light. The 48-inch Schmidt telescope at Palomar Mountain is the best choice for the survey because of its large size, wide field, and ideal sitting. The project will continue on page 6.
The appendix is a hollow, tubular organ about 10cm long and 5 or 6 cm in diameter. One end opens into the first portion of the large bowel, the other end is closed. It is usually located in the right lower quadrant of the abdominal cavity. Inflammation of the appendix, or appendicitis, is common. I see an average of six cases per year at Caltech alone.

While appendicitis can be very tricky indeed, most cases show a rather typical pattern; something like the following:

Some innocent Teacher, in perfectly good health, notices a severe pain around the mid-abdomen. At the same time, there is almost always a profound loss of appetite. This frequently progresses to nausea and vomiting. After several hours, the pain becomes localized over the appendix, usually (not always) in the right lower abdomen. Often there will be fever, usually under 101°F. Common also is a feeling that the pain would go away if one could have a bowel movement, but even if one does, the pain persists. Diarrhea is quite uncommon.

If, at this point, the doctor sees the patient, he or she will usually notice localized tenderness and involuntary splitting of the abdominal wall muscles in the right lower quadrant. There will often be tenderness high on the right when he does a rectal and/or pelvic examination. Through the stethoscope one will usually hear diminished bowel sounds. There may be evidence of dehydration, depending on the amount of vomiting, but this is not, as a rule, very severe.

The most common laboratory abnormality is elevation of the white blood cell count. Normal is 5-10 thousand per cubic millimeter. In appendicitis this will probably be up to 12-18 thousand and there will be an increased percentage of young white cells, which are called "stabs" in medical jargon. Urolithiasis is usually normal, although white blood cells may be reported, especially if the inflamed appendix lies next to the ureter (a tube connecting the kidney to the bladder).

If no doctor is seen, the pain will worsen for something like 24-36 hours and then the appendix will perforate, spilling pus, feces, and other unspeakably deleterious things into the abdominal cavity.

Needless to say, this is a grave matter (pun intended), and carries a mortality rate of around 3% even in the best hands. Non-fatal cases are very ill and long hospital stays are the rule. The treatment is unpleasant.

The remedy, obviously, is appendectomy before perforation occurs. This operation is relatively safe (mortality 0.1-0.3%), recovery is prompt, and once out, the appendix is gone for good.

Expense is not much of a problem at Caltech for most students because of insurance. If one had to pay out of pocket for surgeon, assistant surgeon, anesthesia, and three or four days in the hospital, I would guess the cost at roughly $3,400. For management of an perforation of the appendix, perhaps by conservative means, obviously, but I would expect figures in the tens of thousands.

The above, much simplified history of a typical episode of appendicitis, shows that one thing, the progression of the disease is by no means an evitable. On the contrary, it is fairly common for appendicitis to cure itself, provided the person has some kidney problems and gangrene set in. Thus, often sees patients with appendicitis who have had a past similar episodes which only lasted a few hours than the last time.

Typical appendicitis is easy to diagnose, and not expensive.

Non-typical appendicitis seems to require more time, is treacherous and can deceive experienced surgeons.

My advice is this: any pain in the belly which lasts more than a few hours should be seen at the Health Center.

--Judson S. James, M.D.
Health Center 14
Behavior Studied

Recent advances in evolutionary biology have completely restructured our understanding of non-human social behavior. Eleven eminent experts will examine this approach to the study of animal behavior on the weekend of January 31 and February 1 in Ramo Auditorium, during a series of lectures and panel discussions entitled "The Evolution of Behavior: Theory and Evidence." These lectures will be technical. Reservations for this symposium, sponsored by the office of the President of Caltech, with the cooperation of the L. S. B. Leakey Foundation, may be made at the Caltech Ticket Office, 332-92. There will be no charge for tickets, but early reservations are recommended as seating in Ramo Auditorium is limited to 400.


Five words that don't scare us at DeCal.

In fact, if these five words describe you, we'd like to meet you.

We are the largest producer of minicomputers. And we've always been the ideal place for independent, interesting people who want to grow fast. People who want to investigate and apply new approaches to problem solving. People who want the time and freedom to chart their own path. Consider us when you're ready to begin your career.

We are an equal opportunity employer, m/f.

See us on campus.

A digital representation from Central Engineering will be on campus on February 3, 1981 to meet Electrical Engineers and Computer Science Majors.

For additional information, contact Your Placement Office.

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This Month


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Without a doubt, you've heard these words plenty of times. Some people call them "buzz" words because they're supposed to draw your attention. At Signetics, we do more than attract you with impressive sounding words; we make them come to life. We're setting the pace for the semiconductor industry.

And we offer college graduates challenging career opportunities in a variety of exciting areas, including all phases of engineering: product, design, process, test, reliability/quality assurance, and failure analysis.

We're seeking individuals with a bachelor's, master's or Ph.D. degree in electrical, mechanical or chemical engineering; material science; computer science; physics; metallurgy; electronics or industrial technology.

While most of our openings are of a technical nature, we encourage you to contact us about non-technical opportunities which exist from time to time in Finance, Sales, Administration, Personnel, Material Control, Marketing, Production, and other Support Functions.

We'll be on campus Wednesday, January 28.

Where you start your career is extraordinarily important. Your first job and what you do with it — will shape your future for years to come. Take time to review the Signetics Recruitment Binder which you will find in your Placement Center. You'll learn about our opportunities in California, Utah and New Mexico. Or, write to Signetics College Relations. Opportunity CP-BI, 811 East Arques Avenue, Sunnyvale, CA 94086. We are an equal opportunity employer. Permanent residency visa preferred.

...
Goldie Giggles

Private Benjamin is a showcase for Goldie Hawn's talents. Unfortunately, Goldie Hawn's talents are limited to giggling and looking cute.

Hawn plays Judy Benjamin, a dizzly Philadelphia socialite who has just achieved her childhood dream—marrying a professional man and living in a big house. Tragedy, or more precisely in this case, strikes when Judy's husband dies on their wedding night and she realizes that for the first time in her life there is no one to take care of her. Dazed and confused, Judy enlists in the Army after a devious recruiter convinces her and thus the club is formed. The idea of a pampered rich girl in the Army is a good one, but Private Benjamin doesn't use it to full advantage.

When her parents try to get her discharged so that she can go home with them, Judy decides the Army might not be such a bad place. From here the movie becomes slow and humerous as we watch Judy make good. She becomes the star of boot camp war games and is assigned to an elite fighting unit. She is then assigned to the world headquarters of SHAPE while always remembering to smirk or pout for the camera.

Private Benjamin has been promoted as a women's lib film in which a helpless little "girl" is transformed into a competent woman, but it's not. Despite her Army adventures, at the end of the film Judy seems no more capable of taking care of herself than at the beginning.

—Lisa Grenier

As a software developer at Wang, you not only get plenty of personal freedom and day-to-day responsibility — you also get the chance to design your own future. Because nothing says you have to follow a certain path to success.

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The point is: We think the best way for you to get ahead is your way. For more information, contact Mary Ann Lyons, Wang Laboratories, Inc., Dept. #000, One Industrial Avenue, Lowell, MA 01851. (617) 459-5000.

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Imagine yourself putting a satellite's entire communication system on a GaAs chip.

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Imagine your team designing a sonar system that can locate any ship in the ocean.

Imagine your group designing a missile system that exceeds human perception.

Imagine yourself at Hughes.

...working on innovations that could change the world.
...taking advantage of Hughes' continuing education program—one of the finest in the country.
...enjoying the Southern California or Tucson lifestyle.

We'll be on campus January 26.
See your placement office for an appointment.

At Hughes, your future is limited only by your imagination.
**SPORTS**

**B-Ball Shoots Load, Loses Anyway**

By P. G. Hepzibah

The Caltech Beavers threatened, but came up short, losing 61-48 to Cal Baptist in varsity basketball last Wednesday. The Beavers, who had earlier lost to Cal Baptist by 40 points, were plagued this time around. Dave Smith, who scored 29 points for Baptist, was held to 4 in this game, but the Beavers allowed Dave Fitzgerald to rip the guts of the Beaver defense for 27 points. CIT countered with 17 points from Pat McMurtry but could never get closer than 5 points.

Caltech, shooting a whopping 63% in the second half, stayed within five or seven points the whole half but missed crucial baskets to prevent the possibility of catching the visiting Lancers. When the Lancers tried to catch up in the last 3 minutes of the game, Cal Baptist pulled away and made the final margin of victory. Frank Janezcek scored 10 points and Gary Tornquist and Glen Sigler had 8 points each.

Earlier in the week, Caltech lost to L.A. Baptist, 80-42. Frank J. scored 12 points on a night when the whole Beaver team seemed to be "out of it." Coming from behind was the order of the day in a pair of other Beaver contests. Against Claremont, the Beavers fell behind 18-4, but fierce defense and clutch shooting from Frank Janezcek and Pat McMurtry helped close the gap to 28-21 at the half. It appeared that we might actually squash the Stags like the bees they are, but the bees bit back in the second half to win 67-46. Frank finished with 16 points and Pat had 10.

The JV Beavers had by far their best outing of the year despite losing 94-64 to L.A. Baptist. Perhaps the fact that the junior Beavers had lost by 72 points to this same team a little over a month ago had the Beavers a bit wary as they fell behind, 32-20. But Tom Heer cracked out a few baskets and the Beavers came on with a fury to pull to within three points, 38-35 at halftime. The rally was climax'd by a sensational 30-foot bank shot by Perry Walker at the buzzer.

The Beavers tied the first six points of the second half to take the lead of the day, 41-38. But as the Beavers ran out of gas and the Beaver Fever which led to one great comeback was never to be caught again, Stewart Peebles and Doug Mackenzie scored 12 points each; Tom Heer added 11, Howard Kogon, 10, and Walker & as the team.

despite the absence of leading scorer Scott Gordon, had its best day offensively. Both teams will be in action tomorrow night as they play host to Redsilt. JV action starts at 6 pm and the varsity starts at 8 pm.

---

**DAN GAVIN, 3 MONTHS OUT OF COLLEGE AND ALREADY A PROJECT LEADER**

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**DAN GAVIN DID IT.**

He became part of a new-product development project team his first day on the job. A UC Davis graduate in electrical engineering, he teamed up with Larry Wong, another recent UC Davis electrical engineering grad; Alan Harper, recent UC San Diego mechanical engineering grad; and Donna Lightfoot, UC Berkeley computer science graduate. Cubic said, "Here is the problem. You find the solution." And they're doing it. After their START program, they'll be ready for bigger and more exciting problems, gaining confidence and recognition as one of the top R & D teams in the industry.

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- Electronic simulation and training systems,  
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- Tracking, reconnaissance and surveillance systems,  
- Radio transmitter and receivers,  
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- And many more challenging high-technology products and systems.

**BEGIN WITH THE BEST.**

Why go through those first "job trade-offs" when you can start at the top? A really meaningful job, and the nicest place to live in America — San Diego, California. Theatre, museums, 11 colleges and universities. A temperate average of 72° and 72 miles of ocean beaches to enjoy it in, 151 parks, 25 marinas, 68 golf courses, plus major league baseball, football, basketball, tennis. Or you can follow Cubic around the world on many foreign assignments. Whatever your scientific or engineering degree, whether you intend a technical or management career, Cubic is the place to be.

**CUBIC IS INTERVIEWING AT CAL TECH ON FEBRUARY 3 THIS IS YOUR OPPORTUNITY, TAKE IT.**

Contact your Career Planning and Placement Office for information and appointments, or write: William H. Gordon, Manager, Professional Placement College Relations Cubic Corporation 9353 Balboa Avenue Dept. CT-185 San Diego, California 92123 (714) 277-6780

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**Soft But Deadly Hand**

On January 26th at noon, there will be a demonstration of "Self Defense and Martial Arts" by representatives of "Women in the Martial Arts", presented on the Quad near Winnnett Center.

**Haven House**

On January 27th at noon, there will be a program presented in Winnnett Lounge by a speaker from Haven House, a refuge for battered women.
Math Contest

The Mathematics Department has announced two new, improved, and more monetarily rewarding versions of their two prizes for Caltech undergrads. The prizes are financed by funds accumulated by Caltech teams that have participated in the William Lowell Putnam Competition over the last few years.

First is the E. T. Bell Undergraduate Mathematics Research Prize—a cash prize of $500 awarded for the best original mathematics paper written by a Caltech junior or senior.

Contestants for the Bell prize must be nominated by a faculty member familiar with their work. Students who wish to be considered for this prize should contact a member of the Mathematics faculty prior to the end of the second term to discuss the nature of the research. If the entry is sufficiently worthy the faculty member will nominate the contestant and act as sponsor. Each student is entitled to only one entry. All contestants must submit their papers in final form to their faculty sponsors by the end of the fourth week of the third term. A faculty committee will then judge the papers and announce its decision before the end of the third term. The committee may award duplicate prizes in case of more than one outstanding entry. The name of the winner (or winners) will appear in the commencement program.

Second is the Morgan Ward Competition. Any Caltech freshman or sophomore may enter this contest. An entry may be individual (submitted by one student) or joint (submitted by a group of two or more students). Each student is entitled to only one entry, of which at most two may be individual. An entry is to consist of a mathematical problem, together with a solution or significant contribution toward a solution. The problem may have any source, but this source should be stated in the entry. The entries will be judged on the basis of the nature of the problem and originality and elegance of the solution. Any outside references used should be indicated. (If the stated belief of the Department of Mathematics that the Honor System applies here.)

Entries from each contestant or group must be placed in an envelope and delivered to the Mathematics Office, 253 Sloan, during the fourth week of the third term. The name of the contestant, or the names of all group members if the entry is joint, must be written on the envelope only, not on the entry. The Judging Committee will consist of three volunteers, approved by a vote of the Caltech Mathematics Club. Each judge will select a group of finalists and submit their entries to the Mathematics Department faculty who will make awards to the winners. Prizes will ordinarily be awarded for the 2 to 4 best entries, the value of each prize being $75. Prizes for individual entries will be limited to at most one to a contestant, and no group may receive more than one prize.

So get to work on those entries!

Upjohn Award

Upjohn Company has provided Dickerson's group with an additional award. It is designated only as CC-1065 (cancer culture No. 1065). Should this promise as an antitumor drug. "This is one medical problem that is defined directly toward existence in nature," says Dickerson. "If we can understand in detail how DNA folds, and how these anticancer drugs bind to the DNA, then perhaps we shall be able to design improved drugs which are more effective against tumor cells but less toxic to the patient."

Watson Lectures

Morgan will report on his research on the chemistry of rainfall in the Los Angeles Basin, the causes of acid rain, its variations with time and location, possible environmental effects, and approaches to control.

April 22, Felix Strumwasser, professor of biology, on "24-Hour Clocks in the Brain." Dr. Strumwasser will talk about the specialized nerve cells which have 24-hour clocks built into them that control such cyclic functions as sleeping and waking, food and water intake, hormone secretion and ovulation, and the abnormalities in such cells that may eventually explain some forms of mood disorder in humans and the effect of lithium medication.

This lecture series is named for the late Earnest Watson, who was, during his more than 40 years as a faculty member at Caltech, also chairman of the physics division, dean of the faculty, and administrative director of research and development.

P. Proton: Beat me, hit me, please don't stop. That quotation can be directly addressed to a certain person known to haunt the recesses of the pool. Well, so be it.

Your progress report:

a. The food (i.e., oranges, cookies, cake) has finally been disposed of, after a three week eating period. C-

b. The hour you keep have decreased substantially, to the point where now you appear hip-swinging, back and forth rolling lessons, back and forth swimming.

c. The hours you keep have become akin to that of a nun.

Stop waking at five a.m. to go swimming. D-

So cheer up; it could have been worse. Oh, yes, hurry up please, it's time.

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Yes, there are immediate openings for Business Manager Layout Troll Writer Photographer

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A CAREER IN THE CHIPS

If you're planning a career in Engineering, Finance, Marketing, or Data Processing, we know you're seriously considering the semiconductor industry. We'd like to offer a little piece of advice: Choose the company that will give you the best opportunities right away. Choose AMD.

Advanced Micro Devices started out a little over a decade ago with eight of the best people in the industry and a dream. Today, we're at the top of the integrated circuit field with 9,000 of the best—and friendliest—people. $225 million in sales, and over 800 products. We're still growing fast, with the best career opportunities to put you right in the chips with us.

On-Campus Interviews

Friday, February 6

Make an appointment today with your Career Planning & Placement Center. Or, for more information on AMD, call Sally Hazard TOLL FREE at (800) 538-8450. (In California, call (408) 732-2400, extension 2799.) Advanced Micro Devices, 901 Thompson Place, M/S Sunnyvale, California 94086. An equal opportunity employer.

Advanced Micro Devices
What is going on back there? 
A fact that Stuart "wrote" an editorial in which a major portion of the text read:

"Don't worry."

This is terrible! Who is running the show? How is it that Freshmen managed to make fun of an upperclassman on the front page of the Pasadena Tech? Why is it that I have not received a single copy of the paper in two months?

Yes, I guess that it has been two months away from Millikan Library. Two months away from the California Tech. Two months away from everybody at Tech. Has it been worth it? Am I really "getting my head straight" by being in the real world? It's hard to say.

You see, I guess that I'm not sure. If it's not one problem, it's got to be another. If it's not studying for Ma 2a, then it's people pushing you in the subway. If it's not people pushing, it's listening to the boss yelling. If the boss isn't railing, then the subway won't run in the "real world" can be the pits.

At first, things weren't so bad. I rode on BART to downtown and sat by the fountains. Then, I'd take pictures and go to the beaches. The air was cold, so there were only a few pedes there. People like me, people who wanted to think and write and solve their problems.

After awhile, I could see that being by myself wasn't the best thing for me to do. I was beginning to feel lonely. I started looking for an easy, "grind" type job. I didn't really want any money. I just wanted to meet some people.

Then I saw a "help wanted" ad for the McDonald's. I tried for a job and started working that...

"Beep... Beep! ...
Beep!!! ...That's when you turn the corner... No, the nickels are always after the hundred... I said "two cheese", not "three"...

"Beep... Buzz... Bahhmm..."

"Why didn't you put the bun on for the fflet when the hash brown timer went off?"

- God G.

I became fed up with that job pretty quick. I started looking for a new job. There was a certain ad that caught my eye, "General Office Wizard Wanted," it said in capital letters. I had to try.

"How much telephone answering experience do you have?"

"Well, when I was editor of our college paper, I answered phones fairly often."

"What college was that?"

"California Tech..."

"Come on down. We may have a better job for you. You don't mind using a computer to you?"

"Not at all."

The sharp whine of jet engines covers the flight deck. Throttles are at full power, and you're waiting for the signal to launch.

Now: The catapult fires. G forces slam you back into your seat. Suddenly, you're flying low and fast over the night sea.

Nothing else feels like Navy flying. Nothing. And as a pilot or flight officer you can be part of it.

The Navy puts you in full control of a multi-million-dollar super-sophisticated combination of jet aircraft and electronic wizardry. In other words, the Navy demands something of you: Leadership. As officers, right from the start, members of the Navy aviation team get decision-making authority, leadership responsibility, and management experience. G-parachutes can give you responsibility. But Navy gives it to you sooner.

Make your first leadership decision now. Send in the coupon. Nothing else feels like Navy flying.

THE CALIFORNIA TECH

EPISTLES

Ollie G.

A View From the North

Can you believe it? Ollie G. becomes... Computroll; constantly slaving away over a TTY, trying to make circuit diagrams. Sometimes the work seems tedious, but it certainly beats making Big Macs. The one drawback is working the subway in rush hour traffic. On some mornings it gets interesting, all of us standing in the crowded trolley, subway train, but to butt. In the evenings, it can be just as interesting, except we then have the sexy odor of a hard day at work. If people were this close together at public baths, the police would stage a raid, but somehow, it's legal to do it in public transit.

Then came the New Year's Eve party. By accident, I opened the door to a bunch of people smoking pot and snorting. You know, it really didn't bother me, but if I had seen this last year, I might have called the cops or something. It's interesting how people can change and never know it. I wonder if my changes will help me any.

Oh, and while I'm thinking about Tech again: just before I decided to take a leave, I was going to do a photo story on an exhibit sponsored by the Baxter Art Gallery. The exhibit was out on the desert. We all had a really nice time, the air was clean, the sky was blue and the art was terrific. During the trip to the desert, our caravan of art critics took a detour and got stuck in the sand. I'm not sure why, but I promised that I would thank the EE librarian for getting us out of the mess... but the next California Tech only four pages long, and my pictures had to be trashed. So here it is... I thank you, EE librarian, for getting us out of that mess.

Well, I guess that I've said enough. Now, it's your turn.
Want to say "Hello," to an Ollie G? You can, if you write to:

The Ollie G.

364 Fair Oaks St.

San Francisco, CA

94110

A View from the Past

HISTORY

This column explores an often overlooked facet of undergraduate life at Caltech, our extensive and sometimes colorful history. Selected articles from this week in history have been gathered from back issues of the Tech stored in that publishing empires voluminous archives.

23 January, 1970

The fourth and final round in the 'War of the Greasy Street Ramp' ended with the dedication of the David R. Smith Memorial Ramp. This final version of the ramp was constructed by students out of steel reinforced concrete to prevent it from being torn up by B&G as befell its predecessors. The ramp was dedicated by then MOSH (Dirty) Dave Smith in Monday morning festivities.

21 January, 1960

Plainclothes Vice Squad officers from the PPD raided a Tech Faculty party in Throop Hall Saturday night. The officers gave themselves away when they tried to use real money to buy chips at the bank (the legal tender of the evening was monopoly money). Apparently no arrests were made, but the games were shut down (They didn't have very good journalists back then).

22 January, 1948

Nothing of real note appeared in the Tech except a Chesterfield cigarette ad featuring none other than our new president, Ronnie Raygun... see any packs of Chesterfields in your favorite supermarket lately?

NOTHING ELSE FEELS LIKE NAVY FLYING.

NAVY OFFICERS GET RESPONSIBILITY FAST.
Stuff that didn’t fit anywhere else

Totten is Risen
From the Grave!
Material for this year’s literary magazine has been selected and edited and is now ready for printing. Help is needed for organizing materials and printing. If you are interested, please contact Ben Laist at 7009 or 795-0032. It is not too late for last-minute contributions, but they must be submitted immediately. Any member of the Caltech community (loosely construed) may submit prose or poetry, no novels or epics please.

Space Fund-Raiser
On Tuesday, January 27 at 8:00 pm, well-known science fiction author and futurist Ray Bradbury will be giving a lecture entitled “Beyond 1984, Back Into Space.” The lecture will be held at Fessenden Auditorium, on the PCC campus (about a ten-minute walk from Tech). Tickets are available in advance through Ticketon (and thus at the Ticket Office, we hope), or at the door on the evening of the lecture. Ray Bradbury’s lecture is a benefit for the World Space Foundation. Tickets are $7 at the door, $6.50 in advance. For more information call 642-5700.

Caltech Financial Aid
Applications for Caltech financial aid will be available in late February. Every student will be sent a memo in mid-February with instructions. The deadline will be, as always, April 15.

End of Betweens
This will be the last weekend to view the “Terry Allen (part of and some in between)” exhibition at the Baxter Art Gallery. The Gallery has already sold out of the Terry Allen record album entitled “Lubbock on Everything.” Although another, “Jaree,” is still available, and shipments of his latest release, “Stonk in the Dunmy,” are expected any day, along with restocks on the other two. The exhibition catalog is expected to be completed and available for sale at the gallery next week.

Student Loans
If you have applied for a Guaranteed Student Loan or a Federally Insured Student Loan, and have not received your loan, your lender is WAY behind schedule because they were not prepared to handle such large numbers of borrowers (already 100,000 in California). If you HAVE received your check, and it was sent directly to you rather than to the Financial Aid Office or to Student Accounts, please send the Financial Aid Office (mail code 208-40) a note telling them how much you received, and when. That’s an order!

Want To Reduce?
There will be a weight reduction program to begin soon. Anyone interested in losing weight, call John Adler at the Health Center (x2393) or leave a message.

Move Your Bod!
A Body Movement class which includes work on strengthening, endurance, coordination exercises, is held at 4:00 every Tuesday and Thursday at Daehney Lounge. Instructed by Liz Oberstein, this class, as well as a 5:00 Modern Dance class, offers an exploration of techniques for efficient body use. The goals of these classes centers on the sense of exhilaration, energy and well-being which result from an increased perception of how your particular body moves. Both classes are open to students, staff and their spouses. No background is required and there are openings in both classes.

Pre-Solidified?
The plans for another Pre-Frosh Women’s Weekend are now being solidified. An open meeting for all students wishing to help is scheduled for Thursday, Jan. 29 at noon in 034 Berkman. The Weekend will be April 23-26 and we’ll need a lot of help for planning activities, tours, and housing. Any suggestions? Come on. Jan. 29 or call Kathy Gandell, x6341.

Eligibility Report
If you haven’t received your Student Eligibility Report (SER) from the people at Basic Grants, send them a postcard requesting a duplicate. The postcard must include your name, permanent mailing address, social security number and date of birth. Send the card to: BEOG, P.O. Box T, Iowa City, IA 52243.

Cal Grant Holders
If you currently hold a Cal Grant A or B, you should have received a renewal application from the California Student Aid Commission, RENEWALS must be postmarked no later than March 27, 1981. The forms were sent on January 7 to student addresses—i.e., the one you use on aid applications.

Lights! Camera! Action!
Are you interested in filmmaking, cinematography, special effects, set construction, costume design, lighting, writing, or directing? If so, then the Caltech Film Workshop is for you! Meetings are held Wednesdays at 5:00 pm in the Master’s Office. An organizational meeting will be held on January 29 at 5:00 pm. Be there! [CW!]

SBC
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SYSTEMS PROGRAMMERS—R&D
System Development Corporation, Research and Development Division currently has challenging requirements for Systems Programmers, interested in design of secure operating systems. These positions require 2 to 5 years experience with internets of operating systems including:

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2500 Colorado Ave., Santa Monica, CA 90406

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Cal Grant Applicants
It is time for students who are eligible for Cal Grants but who do not currently have them to apply for next year’s funds through their Financial Aid Office. The deadline to submit applications must be postmarked by February 12, 1981.

BOC Reps at Large
Sign-ups for BOC Reps at Large will be posted in all the House lounges next Monday for a period of one week. Interviews will be held Tuesday night Feb. 3. If interested, sign up and talk to your friends at BOC House Reps.

Classified Ads FOR SALE
GENE RUBIN A UDI 0. We carry any one of those products which provide highest quality and value. We feature PS Audio, Thorens 3D Acoustics, Chartwell LS/53, Spendor, Cizex, Altec, VM,...

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