In 1971–72 Big T staffs were being tardy or incompetent, significant public outcry would force the ASCIT Board of Directors to take a hand in the situation, in order to keep the yearbook on time (which at that time was supposed to be June, not September). Of course, those were the days before Joe Rhodes substituted grandiose dreams for uninspired reality, and BODs and other student organizations were still prepared to meet the national standard of accomplishment in the nit-picky concerns of students. Student officers then were no more proof against mistakes or incompetence than now, but they could expect to hear about it if they blew it.

Well, why hasn't the BOD gotten on the Big T staff this year? BOD-watchers can think of various likely reasons, but even aside from those, there is a moderately compelling difficulty: there is no Big T staff to get on.

Suppose They Had a Yearbook

In real life... The details of the recent atrophy of the Big T are long and sad, ranging from Student senators who ignore bills and keep yearbook funds in their own bank accounts, to Techers who, through no fault of their own (or the Big T, no doubt), graduate while their book is still in embryo condition, advertisers who vow never again to run ads in any yearbook run...

Continued on Page Five

### News Briefs

**Drop Day Vote Monday**

A reminder to all undergraduates: Next Monday the faculty will vote on whether or not Drop Day will be changed from the Friday after midterms to the Friday of the second week preceding finals. Be sure to talk to faculty members about this important question.

Registrar Announces List of Courses Not Offered Pass-Fail

The Registrar's Office has announced that the following courses offered next term will not be available to be taken on a Pass-Fail basis:

- AME 95b, AMI33b, Ch 27a, Ch 65a, En 110b, En 123b, Ge 101a, Ge 102b, Ge 223a, Ph 125b (graduate section)

An up-to-date, complete list will still be available.

Coffeehouse Protests

JPL Renaming

In protest against renaming JPL after H. Allen Smith, the Caltech Coffeehouse will be closed from Thursday, November 23, through Sunday, November 26.

Continued on Page Seven

### U.S.S. H. Allen Smith?

Last picture taken from dying Marine 9 spacecraft shows a large mass in orbit about Mars. Speculation by JPL officials ranges from an error by the computer-enhancer to a space-time warp. Photo copyright Paramount Pictures Corp.
**Interview**

Continued from Page One

**Astrogation Expert To Speak On**

**Computer Modeling**

By Philip Massev

A combination organizational and presentation meeting of people interested in New Worlds will be held in classroom 1 Friday night at 7:30. Dr. John Michael Smith of McDonald-Douglas, an expert in astrogation, (yes, really) will speak about an extension of the Forrester's computer model. Developed at MIT, the model makes an attempt at computing various economic, technological, and population characteristics in the future at various times by allowing various input parameters (amount of recycling, birth restrictions, number of pigions per inverse acres, etc.).

New Worlds – which sponsored the recent LA Science is a semi-international organization looking at what the future might hold for mankind, at what problems have to be solved for there to be a future. They are interested in organizing a student work group here at Caltech such as the one that exists at MIT. If you are interested in the future, or if you want to hear how the Forrester's model attempts to deduce clever things, come to the meeting tomorrow.

**Ex-Teacher Gets Wings**

Second Lieutenant Steve C. Offen of Walnut Creek, Calif., has been awarded his silver wings at Columbus AFB, Miss., upon graduation from U.S. Air Force pilot training. Lieutenant Offen is being assigned to the 54th Weather Reconnaissance Squadron at Anderson AFB, Guam, where he will fly the WC-130 aircraft with a unit of the Air Weather Service.

The lieutenant received a B.A. degree in physics in 1969 from Occidental College, and a B.S. degree in engineering in 1971 at Columbus AFB, Miss., upon graduation from U.S. Air Force Reserve Officers Training Corp.

**CALTECH FORUM**

**Powerful Forces Behind Disruption**

Dear Editor,

Since we are witnessing a deplorable example of the double standard that threatens the very existence of our campuses and universities. A small group of influential people have been driving a wedge between student and faculty member would dare to. They are tearing apart the administration of a campus and disrupting the campus. Certainly we all recognize that. All movement toward a more open and honest administration of the campus is now being blocked. I think that the situation is very grave and the future of Caltech is very much in doubt.

**Dear Editor,**

Three years ago, when I was a freshman, and Caltech was still not coed, I wrote a strident article suggesting that “Laugh-in” should not be around in the near future. Well, “Laugh-in” is still around, and I have been in the fall. Still, it is clear that “Laugh-in” has ceased to be a significant social force in America.

This is probably due, in large measure, to the appearance of Richard Nixon on an episode in early 1969. You don’t have the President (sub) of the United States on a show, and still expect it to be considered anti-establishment.

**Laugh-in Fails Test**

by Dennis Mallonee

The Child Care Center for Caltech Families has been open since October. Designed for service to children of Caltech faculty, staff, and students, and J.F.L. people, the Center still has openings available.

Children between the ages of two and six are cared for by professional staff under the guidance of child psychologist James Gardner. The staff seeks to promote activities which will encourage learning and social interest yet be fun at the same time.

Many items are still needed or desired, and the Center asks for help in supplying toys, coloring books, non-dangerous gardening tools, old shirts (for painting) and anything else (practically) that children would enjoy.

by Dennis Mallonee

**CALTECH FORUM**

**For Those Who Want to Aid the Children**

The Center is designed to serve children between the ages of two and six, and would like to accept volunteer workers. As of now, there is an urgent need for volunteer help.

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by Dennis Mallonee
Not Unlike Steamships

Sandy Papyrus Floats

by Paul Harper

Norman Baker, second-in-command on Thor Heyerdal's Ra expeditions across the Atlantic Ocean in papyrus reed boats, appeared at Beckman Auditorium last Friday as a part of the Armchair Adventures series to relate his adventures on the trips. Baker's sea going desires began when he was a child, watching the steamships leave New York Harbor. After his graduation from Cornell University, Baker served aboard a naval command on Thor Heyerdal's Ra, which was only to test whether [trans-oceanic voyages] could have been done. Whether it were possible that the vessels they had in those days, men could possibly have reached the gap of three or four thousand miles. Baker recounted the construction on the Sahara Desert of the first Ra, from fifteen tons of papyrus, modeled after ancient Egyptian drawings, its launch from Safi, Morocco with a crew of seven men deliberately chosen from seven different nations, and Continued on Page Four

Hangs For Over 145 Minutes

Undergrad Sets Record

by Steve Sweeney

Taras Kiceniski, Jr., a Lloyd freshman, set two world records October 28 in the sport of hang-gliding at Torrey Pines State Park, north of San Diego. He established a flight-length record (for foot-launch) of 145 minutes and an altitude gain record of 900 feet above his launch site.

Hang-gliding is just foot-launched flying with an airflow helping out. The apparatus needed to hang-glide is a set of light and strong wing planes or another type of light, strong airfoil. A seat is suspended from the launching apparatus. Those interested will be required to purchase their own membership ($10 in advance, $8 students). Orders for the 727-SCS offer immediate effectiveness. Boeing continues to pursue vigorously a traditional area. Measured on the scale of total company operations, these diversifications don't loom very large yet. But we believe they have potential for the future and could represent as much as 25 percent of total sales in a decade. A few of these programs are: 1) people movers to unplug traffic conditions in our cities; 2) hydrofoils to move people and freight over water faster; 3) a 100,000-acre test site where we're growing garbage from a nearby city; 4) pollution control process that has application in desert stabilization; 5) a pollution control system that has application in desert stabilization and as a treatment of industrial waste; and 5) aerospace programs that can lead to a better understanding of how to use this planet's natural resources more efficiently.

Hang-gliding

Hang-gliding after sending away his laurels, he plans bigger and better things in hang-gliding. The result eventually was the "Icarus II." The hang-gliding with which Taras set his world records. Not content to rest on his laurels, he plans bigger and better things in hang-gliding.

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Interview

Continued from Page Two

agree, that we did make this agreement — Kissinger said so — and the only reason we’re backing out of it, the reason that the people in Washington want us to do it, is that there were some things that weren’t quite settled yet, or that we’re doing it because two kids don’t like the negotiators that we’ve adopted — that he’s suddenly decided to change his mind.

It’s equally plausible to me that maybe double crossed the North Vietnamese because the best way to assure we didn’t double cross them entirely was to make the announcement public. And that Nixon had wanted all the time to double cross them, and that Nixon just wanted to keep up the facade of having negotiations going on all the time. Everyone know that negotiations were going on seriously when the North Vietnamese made their negotiation position public on the twenty-sixth of October. Kissinger had been in Paris, the White House was trumpeting that Kissinger had been in Paris, that Kissinger had flown to Saigon — the whole world knew that something was going on, which was sufficient for election purposes for the President. But it may be that the President wanted to weigh on the things from the beginning. In any case, the North Vietnamese have every right to be completely frustrated at the way we’re doing this. They’ve been apparently pressured by the Chinese and the Russians, they were pressured by them in 1954. In ’54 the Russians and the Chinese told them settle for this; we’ll guarantee them in 1954. In ’54 the

THE WEATHER

Interhouse is coming

Built Interhouse, frosh!

So there are three plausible lines, and I don’t know which of them might be correct. We’ll only know more about that when we know more about how the government operates in foreign policy. It’s very difficult even to figure out just what in the world.

“ONE OF THE BEST FIVE MOVIES OF THE YEAR!”

My Oscar bet for just about the best of everything — L.B. Fox, California

Sunday’s Calendar of Events

Next week two of the Y discussion programs will produce double-headers: on Tuesday at noon Dr. F. R. Thompson and Bozena Dostert will discuss the work they have been doing on the Y lounge, and Wednesday evening at 7:30 Dr. Ian Hunter will lead a speaker-and-film discussion on “Encounter, Anyone?” in Winnett Lounge.

That they’ll support the Thanksgiving holiday (sure, why not!), and bring you all sorts of programs as Christmas approaches. Don’t bother to check this space next week for further details because there won’t be any Tech next week, but pick up a copy of the Y’s November Calendar of Events from your house or the Y offices in Winnett.

Treaty in 1962. So if I were the North Vietnamese I wouldn’t trust the Americans further than I could throw them.

A third plausible explanation is that there were just petty misunderstandings, and that the North Vietnamese just don’t want to make a deal at all, and so they are being more wary than they need be. Along that line you’d have Nixon and Kissinger really want­ ing a settlement and they want to get out, and not thinking specifically in terms of the election date. Except that knowing as they must know that Thieu’s government can’t last long once we get out, they wanted to make sure that the signature date was close enough to the election date that Thieu’s government wouldn’t fall to the Communists by the time our election came around.

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Romeros Concert Entertaining
Despite Distractions

by Marc Donner

Most of us do not normally associate the guitar with classical music. It just does not seem to be a classical music instrument. Saturday night we had a chance to hear classical guitar and to learn that the guitar is indeed suited to classical as well as modern music. The Romeros came to Caltech to perform in Beckman Auditorium. This did not only include the four guitarists, but also their wives and children. The family (eight of them) were the guests of Page House at dinner that night; food service rose to the occasion with a particularly inedible meal.

The guitar music was quite beautiful, what of it I was able to concentrate on. A woman with two small children was seated right next to me and proved quite a distraction to all those around her trying to quiet them down as they became bored. I have nothing against small children (I prefer them fried rather than baked) but they have no place in a concert where they quickly grow bored and

THE CALIFORNIA TECH

where there are only other people trying to listen (for which privilege they pay money). It later turned out that the children were the offspring of one of the Romeros and the woman was their mother. I think children too young for a classical music performance should not be allowed into concerts, no matter who they are.

The guitar music was fantastic. The quartet, displaying that characteristic Spanish ability to ignore the program which often discourages American audiences, made additions and rearrangements in the performances which succeeded to confuse the audience. Nonetheless what they performed was performed exquisitely. They performed a broad range of pieces demonstrating the extreme flexibility of the guitar as an instrument. Each of the sons performed solo as well as in pairs and the whole quartet performed several pieces, including three compositions by Celso Donato Romero (the father of the other three Romeros). Their unorthodox reorganization of the schedule did not harm the Romeros; the audience gave them a standing ovation at the end of the concert. Page Romero will be returning with the Los Angeles Chamber Music Orchestra quite soon, so watch for announcements.

Barbra Streisand

On a Clear Day
You Can See Forever

Cooled by Refrigeration

In our business we generally don't speak about that subject... Why? Well, it's simple, you see, in most cases manufacturers "maintain prices" when there is no "fair trade" situation... Now, of course it means that all dealers, provided that they are dealing in the same merchandise, are all selling at about the same profit margin. We choose not to play games with our merchandise, therefore we continue to sell it at our cost. This includes our purchase price plus our markup. It is against the law to charge a higher price for the same product. We have always tried to be fair with our customers and to offer them the best possible service. We believe that this is the way to build a good reputation and to have loyal customers who will return again and again. We are committed to providing quality products and services at fair prices, so you can be assured that you will receive the best value for your money when you shop with us.

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To coin a phrase, an era at Caltech is coming to an end. Throop Hall, long the core of Caltech’s campus, is being torn down. The oldest building on campus, Throop was once the only building on campus, back in the days of Throop Polytechnic before Millikan, Hale and Noyes dreamed the dream of Caltech. In more recent years Throop served as the Administration Building, the residence of the Throop Club, and the site (and final resting place) of many other student activities. However, in recent years concern was expressed over Throop’s structural weaknesses, and the earthquake of February, 1971, rendered the building unfit for further use. Now the administrative offices are housed in various locations all over campus, the Throop Club has been moribund for years, and R.F.ing students will have to look elsewhere for appropriate terrain. The workmen are gutting the inside of Throop; the great windows are already gone. The roof, the dome, the arches, even Apollo itself will soon no longer occupy their accustomed places. Grass will grow where Throop once thrived, and only the memories will remain.

By January 15, 1973, according to the demolition schedule, Throop Hall will no longer exist. Its former site will be landscaped — there are no current plans for intensive use of the site — and the lower Olive Walk will connect directly to the landscaping around Millikan Library, the great bulk of which willloom broodingly and unchallenged over the length and breadth of the campus. One hopes that the legends and memories will prove less transient than the physical world.
Cinemat's

Cinemat's Needs Help!
Cinemat's desperately needs help. We need people to distribute posters, set up the refreshments, help with the projection, etc. Any Techer (undergrad or grad) who is interested in helping in any of the above areas, should either leave his or her name with the Director of Placement, Dabney Hall.

Make Money Through Math

Make Money Through Math -- Cool the Putnam!

On Tuesday, November 21, at 8 p.m. in Sloan Lounge, Putnam math competition superstars Mike Yoder and Arthur Rubin (both in the Top 5 nationally last year), and the beloved Club President Bruce Reznick (no slouch himself) will discuss techniques for answering questions on the Putnam contest, held this year on Dec. 2. One extra problem solved generally results in a factor of two difference in the final rank. If you are taking the Putnam, or if you like to see cunning solutions to absurd problems, show up. Free refreshments.

Staffords Admissions Reps Coming

Catherine and Michael Gallie and Mr. and Mrs. H. J. Eissler (Admissions Representatives for the Stanford Grad. School of Business, Stanford) will visit our campus on Tuesday, December 5. Purpose of their visit will be to talk to as many students as possible about the Master of Business Administration Program at Stanford. While they will be primarily interested in speaking to minority students, they will be available to any student who is interested in learning about the program. Discussion will center around admission requirements, financial assistance offered, and living conditions in the Stanford area.

Students who wish to meet with Mr. Gallie and Mr. Garcia should contact the office of the Director of Placement, Dabney Hall.

The Chapman game was close all afternoon, Chapman holding a 3-2 lead after halftime. Tech continued to play hard in the second half, but Chapman maintained its leads as a few bad breaks nullified apparent Tech goals. With two minutes remaining in the game, Chapman held a 4-6 lead and the Techers were forced to gamble to try to tie the score. The aggressive tactics backfired, however, as Chapman swam hard to score three goals and post a 9-5 win. Howard Booth and Russ Doidiker scored two goals apiece for Tech, while Dave Clark got the other score in the losing effort.

Throw in the Towel
The game the night before was disastrous, Pomona jumped to a 4-0 first-quarter lead. The Techers swam well after this, but the four-goal deficit was too great to overcome.

Bubb put Tech on the scoreboard with a second-period goal, making the score 5-1 at halftime. Desiderio got two goals in the second half, but two penalty shots scored by Pomona get the 9-5 victory. One bright note on the otherwise disturbing night was the Chapman's frosh team tied Pomona's second string, 2-2, following the varsity game.

Throw in the Towel
In other water polo action last week, Fleming beat Page, 4-2, in D phonolus competition Saturday morning. Carl Melius, in his last water polo appearance before reenlistment in the Navy, was named MVP by both teams for doing an excellent job as a referee.

Last night the varsity tankmen played host to Redlands and wound up on the short end of a 7-2 score. The water polo players will bring their suits out for the final time on Saturday morning at Occidental.

Ten Down and...
**Rogers Leads Scoring Again**

by Bob Kieckhefer

Last Wednesday’s loss to Occidental marked the end of a building year for the Caltech soccer team. Coach Dan Cameron, the booters managed to record only victory in fourteen games, as Redlands was defeated 2-0 on October 11.

Captain John Rogers, a senior, was the team’s leading scorer for the second year in a row. Other graduating players are Charlie Young, Tony Chao, Dave Evans, and Jan Walsh.

Is Soccer Scoury? Although these seniors will be missed, this year’s team had many fresh players who will form the nucleus of stronger teams in future years. John Delle, Sergio Salberg, Steve Burris, Alan Saul, and Tom Lawler played well all season and are representatives of the finest group of soccer-playing frosh to come to Tech in many years.

Although their record was unimpressive, the booters played in many close games. Many times a near-perfect performance in one half would be wiped out by sloppy play in the other half. Hopefully the team will be able to play more consistently in the 1973 season.

**Colorful UCR Downs**

by Bob Kieckhefer

The 1972 football season ended last Saturday at UC Riverside, as Caltech lost to the UCR Jayvees, 23-0. The Beavers ended last Saturday at UC Riverside, 23-0. The Beavers ended last Saturday at UC Riverside, 23-0.

U. C. R.'s drives were sparked by one outstanding performance in the past few years. John Lawler played well all season and was the first Beaver runner to place in many close games. Many times a near-perfect performance in one half would be wiped out by sloppy play in the other half. Hopefully the team will be able to play more consistently in the 1973 season.

Running over a muddy course in rain, Greg Griffin finished a strong ninth in the NAIA District Championships in Fresno last Saturday. Griffin, who defeated many of last year’s placers, was the first Beaver runner to place in the top ten in the last four years.

Griffin’s time for the five-mile park course was 25:19. The 5:04-per-mile average was another outstanding performance in a series of personal bests for the Caltech sophomore.

The Caltech team finished in ninth place for its highest finish in years. The meet winner was Oxy with 23 points. Caltech in ninth place scored 203.

The Caltech scorers in addition to Griffin were: Scott Matthews in 44th place at 28:10, Al Kleinmausser in 52nd place at 29:26, Ralph Haywood in 58th at 30:15, and Tom Herman in 61st at 31:38. Erik Horsey rounded out the Caltech competitors.

Griffin will now represent Caltech in the National Championships on Saturday. Griffin, who was teaching during the week, ran his most impressive performance to date. His time at one mile was 4:46, at two miles was 9:53, and at four miles was timed at 20:30. By running a 4:46 mile, Griffin placed three competitors.

Coach Labrucherie praised the entire team for their efforts in the District Championships. He said that Griffin has improved each work and when coupled with not only this season’s hard work but his years of running, Griffin has been outstanding performances.

This was the last meet of the season for the team and Griffin in the Nationals. The team did much better than pre-season predictions indicated, and all of the Caltech runners will return next year.

**Giffin Goes to Kansas City**


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<th>Saturday, November 18</th>
<th>Warm Polo</th>
<th>Occidental</th>
<th>Abbr. Sp. Mu.</th>
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**Classified Ads**

**HELP WANTED**

Needed: Tutor in microbiology for PCC student. Ext. 2467.

**TRAVEL**

LA/CHICAGO/LO Dec. 21-Jan. 2 $137; LA/ANY/CA Dec. 20-Jan. 2 $162; plus Detroit $201; Boston $210; Montreal $236.45; Washington $214; Cleveland $215; Milwaukee $179; AIX/EXITS 9056 Santa Monica, LA 90069, 274-8742.

CHRISTMAS SKI VACATION TO UTAM—Need skiers to join me on this trip! $120 for the driving. Dec. 16-Dec. 23. Approximate cost: $115 for transporation, lodging, and 7 days skiing. At ALTA and SNOWBIRD. Call 790-1178 9 a.m.-3 p.m.

**CHARTERS YEAR ROUND**

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**EUROPE — ISRAEL — EAST AFRICA. Student flights. Inexpensive student camping tours throughout Europe, Russia, and Mexico. Israel. Student park course was 25:19. The first Beaver runner to place in many close games. Many times a near-perfect performance in one half would be wiped out by sloppy play in the other half. Hopefully the team will be able to play more consistently in the 1973 season.

**Colorful UCR Downs**

by Bob Kieckhefer

The 1972 football season ended last Saturday at UC Riverside, as Caltech lost to the UCR Jayvees, 23-0. The Beavers finished with a 0-5 record this year, making the frosh wait a year to witness a Lake-and-Del Mar conference.

On Saturday again led the team on offense, picking up 67 yards in carries. Quarterback Bob Bales, returning to the lineup after a three-week absence, picked up 27 yards rushing but failed to complete a pass.

**Wait ‘Till Next Year!**

UCR’s drives were sparked by a few large gains, as they capitalized on weaknesses in the Tech defense. Most of the Tech team is young, however, and coach Guiman hopes to correct these weaknesses in future years.

The members of the team (plus the spectators!) would like to thank the song girls for adding some cheer to a rather gloomy season. The next round of Caltech football will begin next September – see you all then?

**GITCH UCR Down**

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