**Page Wins Interhouse Third Consecutive Year**

A bone-jarring victory in Wednesday's all-or-nothing interhouse football game gave Page House the Interhouse Trophy for the third consecutive year. In a repeat of last year's results, Fleming has clinched the Disco-Bolus Trophy and Page took the Institute Stages History Conference

by Chris Havoutre

I keep claiming that Caltech is good for more than just science. Sometimes there is reason to believe this. For example, Caltech is a co-sponsor of UCLA's conference "First Images of America: The Impact of the New World on the Old," to be held February 6-9, 1975 on several local campuses.

The conference, held in conjunction with the 21st annual meeting of the Renaissance Society of America and including international participation, will be the object of a two-volume publication. There will be twenty-two panels on various facets of the New World's impact on the Old, including the topics of imagination (art & literature), politics and law, economics, and technology. Among the panels to be conducted on the Caltech campus is one concerning the impact on medicine.

Fifty places in the conference have been set aside for students. Conference registration in this category is only $10 until October 1, when the fee rises to the regular $50. Bed and breakfast is also being arranged at the Miramar Hotel in Santa Monica at $22.50 per night. It all excites you, keep in mind that there are four to six beds per room.

For further information concerning the conference, contact either the Caltech coordinator, Dr. John Benton, in Baxter Hall, or the UCLA Center for Medieval and Renaissance Studies, Bunch Hall, UCLA, Los Angeles, California 90024.

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**ASCOT of O'Malley**

**Runoff Election Retake Today**

by Dick O'Malley

In a move that came as no surprise, the Board of Directors last night refused to validate the vote.

**Kleinassser Makes It To NCAA Finals**

Despite the poor weather in eastern Illinois (see page 4 for more on this), the NCAA College Division Nationals are underway. In action yesterday and Wednesday, Alan Kleinassser qualified for the finals in the 880-yard run, and, in Coach Neal's words, "looked good."

Sprint star Haywood Robinson has not had such good luck, as he progressed to the semi-finals, to the 100-yard dash but failed to make the finals. At last report, Greg Griffin was sitting under the bleachers while meet officials debated whether it was raining too hard to hold the 6-mile run. Weather permitting, the last events in the Nationals will be held today.

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**Anita Lighty Wins Fellowship**

Anita Crafts Lighty has received a three-year fellowship to Churchill College, Cambridge University, England, for graduate study in biology.

Mrs. Lighty is one of seven students in the United States to receive Churchill Fellowships. In her graduate program, she plans to conduct research in chemical microbiology with emphasis on the biochemistry of bacterial membrane proteins. After obtaining her Ph.D., she intends to become a research chemist.

Her husband, Roger Lighty, now a graduate student at UCLA, will go with her to England. Lighty received his B.S. degree in chemistry from Caltech in 1972.

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**The Free Ride Is Over**

Because of greatly increased costs involved in running the annual recreation program at the Caltech pool, the faculty Athletic Facilities Committee has reluctantly decided to charge Tech personnel who use the pool this summer. Undergraduates and grad students will be levied a $3 fee for unlimited recreational use of the pool, while faculty, staff, and alumni (including those getting degrees on June 14) will have to fork over $5.

Higher fees are assessed personnel whose families also want to use the pool and those who want instruction. Contact the Athletic Office (ext. 2146) for further information or registration forms.

At the Mercy Of a Thousand Winds

The Caltech Gaming Chapter will sponsor the last Alien Space Auction, Swap Meet Happen TODAY! by Silverstein

There have been two more weeks left of what has been a long, long year for everyone, students and faculty alike, and just about everyone is ready to call it quits. Everyone but the people at the Y, that is, who are still involved in some major events yet on this year's calender. First upcoming is the annual Lose the Lure-A-Thon in the Quad today during the noon hour. Walt Meader will probably be the Barker and he has more to disburse this year than last, most of it in reasonably good shape: "Become a Y-admirer or please", he will say. You might pick up a bargain. All the funds you have will be disposed of--so if you just remembered what it was you lost, you have until the start of the auction to claim it. Otherwise it will turn into profit for an as-yet-unknown outside charity.

But don't go 'way after the auction; if you couldn't find what you wanted on the block, you may be able to pick it up (cheap?) from another Techer at the Swap Meet, which will be from one to five on the Olive Walk. Not to mention the fact that the idea will be tried, but there will be a reasonable number of vendors; all the same, Walt Meader explained that the purpose of the Meet is to give students, especially Juniors, a chance to clean out their closets before packing out. For Continued to Page Three

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**VOTE TODAY!**

11-4 in Flora's Office
11:30-1 in Houses

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**The NOVA ENSEMBLE, a group of Pasadena educators, was featured during an Olive Walk concert last week. Photo by R. Gruner**

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This lovely lock and chain set, modeled for the Tech by Joe Carlson, is a fine Ditch-Day present for the absent-minded student. Photo by Gruner
UCLA of Schroedlin

Questing for Quality
by Etaoin Schroedlin

An article in last week’s California Tech reported that the Academic Policies Committee here at Caltech has been considering the question of teaching effectiveness at the Institute. Proposals were considered for evaluating teaching quality, a broad proposal for taking teaching performance into consideration in tenure decisions and placing the responsibility for evaluation on the Institute, and a narrow proposal to continue supporting the student groups in their (inteminent) efforts to evaluate their instructors. The latter proposal was adopted.

The entire question of teaching quality at Caltech is one that has never been handled satisfactorily by anyone. Traditionally the evaluation has been left entirely up to the students (as far as the students are aware, anyway) and takes place only once every 7 years (1967 and 1970-71, for instance) due to lack of time on the part of the volunteer grader. This results in the grinding down of red tape, or lack of data to pay the workers. The evaluations have also been primarily directed (especially in the TQG report of a few years ago and more as a student guide to what professors to avoid or seek out than as a useful document by which to consider using or comparing and providing information for improvement. Nor is there a document every three years or so satisfactory at a school where the faculty and courses change so rapidly; the reports are out of date before they can ever be used.

UCLA has a better idea!!!

The obvious problems with relying on the students for teaching evaluation seem to suggest a larger role for the Institute, not in co-opting the evaluation task but in facilitating the procedure. At UCLA all instructors are evaluated at the end of each quarter by all students (all at least all students who come to the last class and bother to fill out the form), and the quantified results are printed out by computer and made available by sometime in the next quarter. (The UCLA format thus requires the evaluation to be turned in before the student leaves his final grade; this is not necessarily the best way to do it, but it does tend to keep commonness over final grades from prejudicing evaluation of teaching ability.) As far as I am aware this project is funded by UCLA itself, but even if the Associated Students are involved in the expenses, they are a larger and richer organization than those of Caltech.

At UCLA these evaluations are reported to have considerable weight in promotion and tenure decisions. For many public schools this is the case; I know that the University of Nebraska pays considerable attention to the student evaluations, for instance. Now, Caltech is not UCLA, and, fortunately, Tech is not likely to be taken for a typical public school by anyone with finite discernment; our goals and situation are different. Caltech is heavily tilted towards research and publication (possibly too much so), and is not likely ever to wish to place as much emphasis on teaching as a University of California system. Such an idea is greeted with mild horror here; last year during the controversy over the cutbacks in the foreign languages department Continued to Page Eight.

ASAP File System
Again Criticized

I would like to add my voice to those concerned about the use of the ASAP file management system by the registrar’s office for storage of sensitive information. I will try to point out some of the weaknesses of the ASAP system, although I will refrain from mentioning how it has circumvented the security features.

I took IS 129 (system programming) from Howard Morgan (the author of ASAP) while he was a visiting professor, and in that class the grades were stored by ASAP on the disk. Dr. Morgan challenged the class to try to boot ASAP, saying that anyone who successfully changed their grade could keep the new grade. This appeared to be a hopeless task until a few months later I found an ASAP deck in the I/O room, and from this deck found enough of the passwords to perform access to the entire gradefile. Suddenly it was no longer necessary to dump the disks with a utility program, and then try to decode infinite garbage. All that was needed was a short (less than 10 card) ASAP program to be run on the grades entered in the file. (We actually never did change any grades on ASAP, but we did find out ASAP would not go into the file until Wednesday of finish week, and I had 4 other classes to get done by then.)

In the writing of ASAP, Dr. Morgan has set mutually exclusive goals for himself: (1) ease of system use by non-programmer types (such as secretaries), and (2) high information security. I feel that he was rather successful with the first goal, in that ASAP can be learned in a few days. However, the security features are equivalently easy to learn, and the number of security interlocks and passwords is very small. It is my feeling that the strongest security feature ASAP has going is that the ASAP programming manual is not easily available on campus. In fact, I Continued to Page Four.

Basic Points Claimed
Missed by Hanterer

There are some basic points I feel Mr. Hanter has overlooked in his article.

The first point I wish to make is that people should be cautious of extrapolating the threat off the deep end of curves. I too have seen population/resource theory, and I imagine that if I were struck by the fact that in most of these curves, a small change in our present population and resource management could avert the “CRUNCH”. The other point which must be kept in mind is that all of these population/resource curves are based on models which make many simplifying assumptions.

Secondly, I don’t know if one can make such a blanket statement that “every act of cooperation between nations may be directly translated at some time in the future into a savings in human lives”. I am sure that anyone who has reviewed the history of warfare can see that nations who are completely in a state of peaceful co-existence have turned on each other and that the degree of fervor in battle had little to do with previous detente.

A very basic question at this point. As far as I am aware, neither Richard Nixon and Henry Kissinger (no order of importance in which they are placed) have done for this country is beyond the power of man to achieve on their own. Indeed it could be said that Foggy Bottom is getting fogger! The reasons for the world wide alert of U.S. forces which occurred during the last few years have not been set forward as Henry Kissinger said they would be. It seems that this administration made no attempt to achieve detente with the Soviet Union and the People’s Republic of China. How has success been achieved at the SALT talks and how does the Nixon administration calculate what is pure in terms of armament? “Better to appear strong, than to be weak”; the superpowers have been achieved, at least on the surface, but at what price and on what needs? Before I would place the tag of "genius" on Mr. Nixon’s ability to achieve detente, I would try to find out more about the agreements, both written and tacit, which he has placed his seal of approval on. Historians may look back on our present period of international relations with praise for the parties involved, or they may find that the state that this president has set up has a higher price than anyone is prepared to pay. Continued to Page Six.

There’s a Girl in My Soup

by Frank Lauria

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There’s a Girl in My Soup
Dead Dazzle at Santa Barbara

Last Saturday's all-day sun-worshipers' picnic and Grateful Dead concert at Santa Barbara provided a welcome respite from the heat and humidity. The sunshine and light breezes were a welcome change from the hot, humid weather of the previous week. The concert was a great success, and the attendees were all smiles as they enjoyed the music from some of their favorite bands.

The first backup group was Garcia's newest bluegrass offering, the "Great American String Band," which featured a good fiddler, Garcia doing fine and compelling things with a banjo, and a sound crew techs climbing all over the wall of speakers trying to set up for the Dead.

Not all of the Dead's best material (drool) 25 kilowatt system could be used, but enough power had been arranged for the stadium, but I have it from people a full mile away. I'm only doing it this way because it was so clear that far away that they thought for a while that they were listening to a good stereo next store. The only lack felt sound wise is that later the middle range of Les's base guitar didn't carry well enough in the open air—the high end carried along with the guitars, and the sound crew techs climbing all over the wall of speakers trying to set up for the Dead.

Chemistry, Bio Profs Elected to Society

Two Caltech faculty members, Dr. John D. Roberts, Institute Professor of Chemistry, and Dr. Roger W. Sperry, Professor of Psychology, have been elected to membership in the American Philosophical Society.

Roberts was nominated to the oldest honorary society in the United States for his investigation of molecules with NMR (nuclear magnetic resonance) and Sperry for his research on the brain.

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Monday only: Pasadena City College Rock/Jazz Ensemble

Dr. John D. Roberts, Institute Professor of Chemistry, Bio Profs Garcia's newest bluegrass offering, the "Great American String Band," which featured a good fiddler, Garcia doing fine and compelling things with a banjo, and a sound crew techs climbing all over the wall of speakers trying to set up for the Dead.

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Despite best efforts by Pasadena's B & G on Lake Street..."We're still OPEN!"

We have perfected your graduation for your June 14 Page Three
James Boyk Teaches Piano

Will The Real Van Cliburn Please Stand Up...

The Center Theatre Group at the Mark Taper Forum has some strange habits. One of these is the laudable practice of sponsoring new shows. Unfortunately, these new shows are not always what one might wish. The Charlton had its world premiere last Thursday night, and it is not what one might wish.

Written by Derek Walcott with music by Galt MacDermot, The Charlton is a musical comedy about Carnival in Trinidad. Its characters include two calypsonians (Lou Gossett, Clea- von Little), an artist (James Woods), a socialite and daughter (Ruth Ford, Doris Brenner), and a white practicer of voodoo and other arts, the self-professed charlatan (Murray Matheson) and his daughter (Paula Kelly). The interaction of these characters reveals to us the spirit of Carnival. Theoretically.

Although the general level of acting is almost adequate (Matheson providing perhaps the best work), the material is not quite so good. The opening is weak, and the entire show needs trimming and tightening in the dialog. Some of the lines are clever, with good points to make—but they get lost in the rest of the work.

Galt MacDermot (who did Hair) seems to have the same problem that he’s had for years. It is that his music is almost astonishingly boring. Each song is very similar to all the rest, and none of them are very good. And for calypso to be lifeless is a great tragedy. When this fact is combined with the fact that the cast does not sing too well, the result is a musical in trouble.

As is usual at the Mark Taper, both lighting and interplay with the audience are good. The set is most ingenious. There is, however, trouble with sound. Most of the cast uses FM cordless microphones, but there seems to be problems with the amplification, making some of the lyrics unintelligible.

The Charlton is an evening’s diversion (but then so was George Putnam’s Talkback) and at times is entertaining. The reason for this is in this production’s staging and cast only. The show itself just doesn’t work.

—Chris Harcourt

Audience

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Larry Csonka will not bespeak —John Meador

Continued from Page Two

The Excomm and I have more than enjoyed serving the student body this past year. We really appreciate your participation in Y events and your very generous response to our Student Fund Drive.

We hope you enjoyed entertainers like Mason Williams and the San Francisco Mime Troupe. Or perhaps you listened to interesting personalities like Dick Tuck and Father McLoughlin.

Mark Johnson and I worked well together last year, making possible a number of ASCIT-Caltech Y events. This year, Karen Maples and Liz McLeod are continuing the close relationship that the Y enjoys with ASCIT.

I know Karen will do a fine job. She certainly was a fine treasurer last year. I’m sure you’ll extend to her Excomm the same support you did to mine.

Karen Maples
Haywood Robinson

This is my second year with the Caltech Y. I first served as its Treasurer, “enjoying” most of the running around I did during the week of the Y Student Fund Drive. (Remember me?) I am a bit more relaxed since becoming its President but there is still a lot to be done.

In less than one and one-half years I’ve seen some significant changes in the Y’s program format. This year, especially, you will see an increase in workshop and service-oriented activities as well as the usual general entertainment. I am coordinating the Finals Decompresion Chambers, Ethnic Events, Medical Ethics Conference, and the Arts and Crafts Fair.

I hope that more of you students realize that the Y is for you. We’re open to almost any suggestion you may wish to consider... USE US.

“A Versatile Entertainer”

Chris Mannion

Chris is a graduate student at the University of Notre Dame, working toward a doctorate in political science.

Thursday, Friday, Saturday nights thru June 29
8 p.m.—1:30 a.m.

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Emery Creates More Work for Secretaries

Caltech's very own athletic director, Warren Emery (no, not Emery Warren, as last reported in The Los Angeles Times), has been elected chairman of the NAIA District III for the next three academic years. This appointment probably won't affect Tech athletics too much, except for giving the overworked secretaries more work, and possibly calling Emery out of town more often.

Basic Points

Continued from Page Two

the economic concessions he has made, he is returning to a weak power base—a country with a much weakened economy. There seems to me very little sense in sending wheat, which could be used in your own country, to another country. The second point is that the superpowers have taken it upon themselves to police the world. I think, after talking to people from two other continents, that the rising Third World nations would be willing to argue over this policy. Is it in America's best interest to take all of the world's problems upon its shoulders? This may sound like an isolationist question, and indeed in many senses it is, but the question of whether the U.S. has overstretched and overinflated its ability to direct the course of world events persists.

A final question and/or point I have for Mr. Hantover is whether the attitude of excusing the deaths of a million people in a war they didn't all believe in or understand because a million die in a drought is a valid way to appease one's conscience. I saw the effect of Africa's worst drought in centuries when I was on that continent last June. This bothered my conscience in many ways (might the wheat that was "sold" to the Russians better have been spent feeding these starving countries?). I find it hard to excuse the deaths of a million people because of an act of God. However, I deplore the attitude that mankind has benefited to a large extent because of the deaths of another million people at the hands of their "brothers", and that these people were useful as pawns in a game of foreign policy.

-Daniel F. Muzyka

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Close, But Not Quite

SENIOR Lou Sheffer's window stack withstood attacks by an axe, a carbide saw, and an arc welder but his door yielded to the pressure of a well placed shoulder at 5:15 during last Friday's Ditch Day activities.

Photos by R. Gruner
The Romero family, the famous father-and-three-sons act of classical guitar, was at Beckman last Saturday. It promised to be an evening of great guitar music, but the first half of the concert, during which each of the Romeros played alone, was a little disappointing. Angel kept time churning gum through a mediocre Recuerdos de la Alhambra (Tarragá). Celia got most of the notes of Barcarolle and Danza Pomposa (Tanuma), but only on his third attempt; and Celedonio, apparently inspired by his muddly and bland rendition of Albéniz’s Légende, played his own Fantasie. I wish he hadn’t. It was technically inconsistent and the special ornaments seemed to be strained and out of place. Pepe retained relative control over his instrument and even he was nothing to write home about. Individually, the Romeros did not credit to their international reputation this night.

The artists and the audience were well matched, however. After every piece and audience responded with excited applause, rewarding embarrasingly unprofessionalism on stage with timely ignorance in the audience.

The second half of the concert came close to making up for the dismal opening, as the Romeros played as a quartet, blending beautifully together to create music quite definitely better than they produced separately. After an unscheduled but welcome Concerto in D major for Four Guitars by Telemann, the Romeros played an arrangement of Bach’s third Brandenburg Concerto, which I thought turned out quite well. In this arrangement the Romeros displayed their tremendous discipline, with sometimes all four guitars playing the same part with no timing problems and few technical errors.

The Romeros finished strongly with three pieces arranged by Pepe Romero, El Baile de Luis Alonso (Jeronimo Jimenez) was well arranged and beautifully executed, while the Faruca and a dance from La Vida Breve, both by Manuel de Falla, richly deserved the wildly enthusiastic applause following each of them. The Romeros granted the two encore almost demanded of performers by the audiences at Beckman, playing the Allegro from the Concerto in E major (Spring of The Four Seasons) by Vivaldi and Noche Malaga, written by Celedonio Romero as a showcase in which to display his three sons.

Tourist photo

Friday, May 31, 1974

THE CALIFORNIA TECH

Page Seven

Audience II

The Romeros---A Half-Great Show

What’s more fun than seeing the Indianapolis 500?

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It’s YOU playing the Gran Trak 10™!

The Ultimate Flick

THE STORY BEHIND the Gran Trak 10™ Nolan Bushnell, developer of the Gran Trak 10™, became interested in machine games during his college years. While he was an undergrad at the University of Utah, he worked part-time in the game room of a local amusement park. At the same time, he was designing and playing games on the school’s computers. After graduating with a B.S. in electrical engineering, Bushnell went to work for a small company called Nutting Associates. He developed and later sold them the rights to the “Computer Space” game, one of the first of this type of games to appear. On his own time, he developed PONG™, the computer-run ping-pong game, and capitalized his own $500 to get Atari™ and PONG™ off the ground. Off it went—the company grossed $3.5 million in its first six months. The Gran Trak 10™ is the latest from Atari™, the Innovative Leisure people.

Family Fun Factory
Santa Anita Lakes
188 W. Las Tunas, Arcadia
noon—midnight

in Footbll Shopping Center
Bahama Lanes
3545 E. Footbll, Pasadena
9 a.m. — 1 a.m.
Tech Does It Again!

Masters Swimmers Win Big

The Caltech Masters Swimming Team has won the Southern California Masters Invitational Swim Championships. The meet, held at the USC pool on April 20, 21, and 22, was won by the Tech team, which built up an early lead and was never severely challenged.

The masters team is composed of Caltech faculty, staff, and ex-swimmers from the Pasadena area. The program is open to any adult age 20 or over, who expresses an interest in health, physical fitness, and/or masters competitive swimming. Coached by Scott MacCluer, the team works out three or four times per week in the evenings and on weekends.

Another National Record

Sparkling the team to the Southern Cal victory was Bill Darnon of Ambassador College, who established a new 25-29-years-old national record in the 1650-yard freestyle. Other outstanding performances were turned in by Tech professor Brad Sturtevant (first in the 200 free, seconds in the 1650 and 100 feet), prof Dan Krevis (first in the 200 free, seconds in the 200 and 1650 free, third in the 100 feet, and fifth in the 200 IM), research fellow Paul Dimotakis (second in the 400 IM, fourth in the 200 IM, fifth in the 500 and 1650 free), and Burt Kemper, swim coach at San Marino High (first in the 200, 500, 1650 free, 200 fly, and second in the 100 breast).

Based on the team's performance thus far, Coach MacCluer feels that the team has a "good shot" at the National Championship to be decided this September in Santa Clara.

Title Defense Sunday

As a warm-up for that meet, the team will be swimming this Sunday at Mission Viejo and at the Lakeview Aquatic Club next Friday.

Want to have some fun and lose some weight? How about the Caltech Masters Swimming Program?

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The Critical Ear

Sound of Silents Angel S-36072. If you saw any of the silent film screenings in Beckman Auditorium, you realize that organ music adds tremendously to the feelings in the film. Now, Angel has released a recording with the best of this music.

Called Sound of Silents, this album recreates nine famous silent film screenings in Beckman Auditorium, you realize that organ music adds tremendously to the feelings in the film. Now, Angel has released a recording with the best of this music.

Duwez to Receive Awards in Europe

Dr. Pol Duwez, professor applied physics and medical science at Caltech, is receiving two awards in Europe this month for his work in developing unique alloys that are expected to be widely used in industry. He has been awarded the Prix Gouverneur Cornet, given annually in Belgium to a man whose objective has been "to serve society in the fields of science, literature or art, or in promoting social progress or international peace." Former recipients include several Nobel Laureates.

In Paris Dr. Duwez is receiving the Paul Lebeau Medal, the highest award of the French Society of High Temperature.

An ongoing evaluation process handled under the auspices (i.e., budget) of the Dean's Office and Lyman Bomser's Office, the results of which are taken into some account by the mysterious force determining academic policies, and providing two-way communication for the students that offers many benefits to the Caltech community, I believe it should be adopted, soon.

Kline saved the organ and of the Humanities and Faculty. Ear...