

Artist's conception of future Throop site, as proposed by B&G.

Ad Hoc Meets On Language, English

by Philip Massey

Beginning with this article, and perhaps ending with it, I will be writing some sort of series on Various and Assorted Matters. This began as a straight report on the second Ad Hoc Committee Meeting, held last Friday, but I found it impossible not to emphasize those items discussed which I felt were the most important and merited the greatest attention. Therefore, it should be realized that parenthetical remarks are not necessarily the opinions of the participants (such disagreements should be apparent when it occurs), but are simply (to paraphrase Henlein's Jubal) my own infallible self speaking ex cathedra from my own infallible belly button, a subject which is not open to discussion.

The main focus of attention in both meetings of the Ad Hoc Committee has been in the area of Humanities, due to the recent destruction...er, reduction, in the language department, and due to the feelings of many that the division grant humanities and social science credit to all the courses they offer, as well as in the fine-art courses available to Techers at Oxy for Institute credit, but currently not for humanities or social sciences credit.

The Caltech community as a whole learned of the recent decision to cut our languages' department through an open letter from Cheryl Laffer, Carol Mattax, and Sheila Young that appeared two weeks ago in the *Tech*. Young spoke at last week's meeting and stated that the cut in personnel meant there would be no third year language courses offered here next year, and that perhaps half the people who will want to take German II next year will not be able to. Since the policy of the Humanities Division is that credit for the first year is bestowed only on those who finish the second year of a language, half the people now taking German I with the intention of taking the second year, and hence receiving some credit for their efforts, are out of luck.

Dr. H. Ziren, whose wife, Mary, teaches—or rather, taught—Russian literature here, spoke on the benefit of languages and of having some acquaintance with them more than that necessary to find the bathroom. Should the opportunity to study the works of Rabelais, Tolstoy, and Goethe exist for Techers, or should Caltech become the only first-ranking school in the world to offer such a limited curriculum?

Continued on Page Three

News Briefs

Credit For Latex Checks

ASCIT, as personified (this time) by Dave Peisner, is now cashing checks for members. See this happy soul and his trained bouncing checks in Page.

could be of assistance in providing some clubs.

First match is Friday, February 23 at 12:30 p.m. at the Brookside Golf Course.

Want to Club Someone's Balls?

Caltech golfers—the golf team needs you badly.

Although matches are normally played on Mondays and Fridays, golfers who like the game and are available on either afternoon should contact Coach Hal Cassriel at 449-3115 during the day, or Captain Steve Poon at 792-2349 in the evening.

Caltech furnishes the balls for matches and transportation. Golfers are expected to furnish their own clubs although Caltech

Ensemble, Anyone?

Any member of the Caltech community interested in playing in a brass ensemble (quintet to ?) should contact Bill Fornaciari at x1687 or 449-8928 or write to him at 208-41.

Let's Make A Deal

If you want to get money from ASCIT for clubs, musicals, yearbooks, scuba regulators, snakebite kits, carabinieri, Brunton compasses, head compresses,

By-Laws Change Affects Activities, Social Chairmen

The proposed by-law change reads as follows:

Delete "Activities Chairman, Social Chairman" from the list of elected ASCIT officers in Article VIII, Sec. 1, part (a). (These two offices are to be made appointive by a subsequent resolution.)

A week from tomorrow, ASCIT members will be asked to vote on the by-law change that would delete the offices of activities chairman and social chairman from the list of elective ASCIT offices. The arguments in favor of this are several-fold and simple. Currently the social chairman gets a salary of \$300 a year, or \$100 per term, upon completion of satisfactory work, where satisfactory is defined by the BOD. This is to encourage him

to do a good job; money and public spirit makes a much better motivation than public spirit. However, it means that one of the people you elect during the annual offices election gets a \$300 salary the way things are now, and since he is in fact elective he can only be fired by a recall, a procedure that requires an initiative and a two-thirds vote. If the BOD were to appoint both him and the activities chairman at the beginning of each term, it would be a check on people who do a poor job, and it would be an encouragement to work harder, and the person might feel the need to be more responsive to public reaction than if he knew he was in office for a year and not much could be done by anyone about it. Also occupying either of these

two positions has traditionally been a bit disillusioning. Persons who are fed up with trying to amuse Techers would then have an out after only one or two terms, and some other naive person could be talked into it. It should be kept in mind that although ASCIT is funny in a lot of ways, one of the ways *might* be said to be that all the appointive office holders have to have some degree of competency in that they do something; the BOD members, on the other hand, need not be competent since there is not necessarily any work involved in the position. Hence, the BOD feels that the by-laws change would encourage a more active social program.

—Phil Massey
ASCIT Secretary

The CALIFORNIA Tech

Volume LXXIV

Pasadena, California, Thursday, February 22, 1973

Number 19

MASCIT Of Assey

BOD Supports Green

by Philip Massey

The ASCIT Bod met Tuesday and gave its unanimous support to the original plan of the Throop Site Committee, which called for a natural setting where Throop was, rather than the currently planned cement steps (which would be, despite the Architect's Office's misleading drawings to the contrary, wider than Millikan plaza itself.) The Throop Site Committee was formed by the administration and was composed of students, faculty, trustees, and the like; its recommendations were for a natural setting type site, a recommendation obviously ignored by the administration. The BOD discussed various possible rationales behind the cement steps ("Well, you see, if Christy tried to sell the Institute, maybe

it would sell better with concrete." "I mean, what could be more natural than huge gigantic ugly cement?"), but no tenable conclusion was reached. It was noted that Johnson and Jack were going to get to meet Dr. Brown Thursday, and that Dr. Brown would get to meet Johnson and Jack, and that Johnson and Jack would get to talk to Dr. Brown, and that Dr. Brown would get to talk to Johnson and Jack, and that sometime during the festivities Johnson would perhaps mention that there were indeed indications that people seemed to be a wee bit upset with the current plans.

Various Mysterious and Secret Matters of Varying Nature, Legality, and Such were discussed, last week's minutes were approved, and Director-at-large Gary Wakai stepped aside as Director-at-Large Paul Manis was railroaded into being the *pro-tem* student appointment to the Convocations

Continued on Page Eight

Encounters Opens With Paul Chihara

by Marc Donner

On March 8 at 8:00 p.m. in Ramo Auditorium the Encounters program will open its 1973 season with composer Paul Chihara. Encounters is a program in which talented modern composers bring their music to their audiences and discuss the music after the performance.

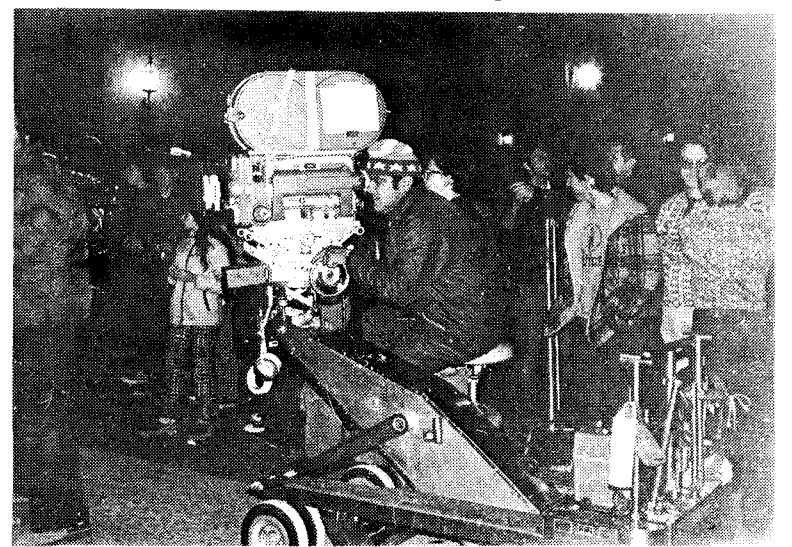
Paul Chihara is a professor of composition at UCLA and has a national reputation for his *Forest Music*. On Thursday, March 8, he will preside over the West Coast premiere of his Tree Music Cycle, written for string, wind and percussion in combination with tape.

Encounters is sponsored by Caltech, CalArts, Coleman and the Music Teachers Association of Southern California. On Wednesday, March 28, Mario Davidovsky, winner of a Pulitzer Prize for his compositions with instruments and tape, will present his cycle of *Synchronisms*. Finally, on Sunday, May 6, Salvatore

Continued on Page Four

Was That Your Sign?

Photo by Ray Feeny



MT/ST's, rivets, hobbits, brownies, OFO's, or just any old thing, you must get your written requests in to Dave Peisner by Monday, February 26.

Alan Watts To Speak

Alan Watts, author/philosopher will be speaking on "The Convergence of Science and Mysticism" at 4 p.m. on the Olive Walk, Thursday, February 22.

Wanted: Three New Bodies

Nominations (of which there have been none so far) for the offices of Social Chairman, Athletic Manager, and Director of

Continued on Page Three

PWB's Last Editorial

Obnoxious Techers

Caltech has changed a great deal in the two years since I took office. Old buildings have been torn down and new ones have risen, profs have come and gone, curriculum changes have been made or rejected, and most importantly, two classes have graduated while two more have entered to take their place.

In this time I have noticed changes in the spirit and outlook of the undergraduate student body. To put it bluntly, it appears that Techers, as a whole, are getting more pisheaded. Many of them seem to feel that it is funny to be obnoxious and exhilarating to be unreasonable, especially towards the members of houses other than their own.

The evidence is all around us. It ranges from Scurves using Blacker courtyard as a trash receptacle to Lloydis stealing a prop from the film company that was shooting here last week - an act that cost the film maker over a thousand dollars in lost time. During midterms, over 200 students were left in the dark for half-an-hour when one small group of Techers decided to get even with another by turning off the power to the new houses. These are just the most flagrant examples, and there are students in all the houses who have behaved just as badly.

At the same time many old traditions have all but died. There have been practically no Olive Walk Water Balloon Wars this year. Yet, they were a fairly civilized form of Interhouse rivalry. No damage was generally done, it was practically impossible to hurt anyone (colds and pneumonia excepted), and all those who participated were volunteers. Another campus tradition, the Mudeo, was degraded this year by certain Sophomores who threw mud into the crowd around the pit and deliberately broke the rules, as well as 30 years of tradition, by pitting the judges (who were trying to decide fairly) before the end of the contest.

Some may argue that only a small number of students are responsible for the vast majority of obnoxious acts on campus. This is partially true, but the other students encourage such behavior by their apathy and silence. Those few rules of conduct that the Student Houses still have are seldom enforced, and there is no general peer-group pressure to make people act more reasonably. No one seems concerned unless he is the one who is directly bothered.

Unless students stop to consider how their activities will affect others, unless they shuck their apathy, and unless they show their disapproval of those actions which impinge upon the rights of others, the quality of life in the Student Houses will continue to deteriorate to the detriment of all Techers.

-Peter W. Beckman

THE CALTECH FORUM

Foreign Language Classes Defended

The decision to cut the language staff to the one tenured professor in German plus one lecturer each in French and Russian who could remain at Caltech only six years (a longer period constitutes automatic tenure by AAUP rules) was made outside the Humanities Division and ratified by the Institute Administrative Council nearly a year ago. As one can tell from his letter, Dr. Huttenback has played the unenviable role of "enforcer": he has worked very hard to keep this decision from being discussed or appealed either within the division or by the faculty at large. I acquiesced in this silence much too long because I believed that the Humanities Division could and would manage its own affairs. My faith was misplaced.

To enforce this decision, a professor was denied tenure without academic review last year simply because he was a language/literature teacher. A lecturer working on his PhD was hired with the promise of a future at Caltech—and later informed that his one-year contract would not be renewed. It is presently proposed that the teaching load be increased to nine hours per quarter for the survivors (not counting language lab supervision).

The present level of enrollment in first- and second-year German is so large that there is no way the students can be taught in three sections; it is barely possible for the other two languages to be covered in three sections. However, this will be taken care of by an H&SS proposal (coming up before the Curriculum Committee in March) which apparently is designed to eliminate the present retroactive credit for first year when the second year is completed. This, hopefully for Huttenback, should make it even more difficult for our students to study languages.

Our third-year courses do
Continued on Page Three

President Brown Suggests Alternative

I understand that the value and importance of proficiency in a language has been a matter of some discussion before [the Ad Hoc] committee. The question of a language proficiency requirement is one in which the judgment of the faculty should carry the predominant weight. My own personal view as an individual (there is no Administration position on this matter) is that it would probably be a good idea for the Caltech faculty to require as a condition for the granting of an undergraduate degree, proficiency in the students' choice of the three languages that are offered at Caltech: French, German, or Russian. This opinion is based on my personal experience with the practical value of proficiency in a foreign language and my belief in the desirability of broadening the interests and abilities of the Caltech undergraduate student body. The student could take a proficiency examination, at the level of two years of college language study, immediately upon entry. This would utilize the benefit of recent exposure to language instruction in high school. The examination could also be taken at any subsequent time during his or her Caltech career. The latter probably would mean requiring it by the end of the third year in order to avoid the risk of "playing chicken" with the requirement. Successful completion at Caltech of the second-year language course would be taken as alternative evidence of proficiency. The student could thus acquire the requisite proficiency in high school, in courses at Caltech, or through exposure outside.

We could also consider accepting proficiency instead in other foreign languages, but the difficulties of measuring capability in languages that we did not teach here (e.g. Chinese, Spanish) argue against this.

-Harold Brown
President

Short Blasts On Rockeye Missiles

The Honeywell Corporation recruiter will be interviewing potential employees on Tuesday, February 27, here at Caltech. I believe that those students contemplating going to work for Honeywell should know a few facts about the corporation.

Honeywell manufactures the Rockeye missile, which they claimed is solely "antitank" in nature. The company claims that it produces no anti-personnel weaponry.

Dr. Ton-that Tung, North Vietnam's most renowned surgeon, recently presented his findings on the Rockeye missile to an international war crimes hearing held in Copenhagen in October of 1972. He stated that Rockeyes constituted "the vast majority" of nonconventional bombs being dropped, and that they were killing and maiming a large number of civilians. Tung, an internationally recognized surgeon, has developed new surgical methods for operating on cancer of the liver which are in use widely throughout the world, and is a member of the prestigious French Academy of Science. When informed of the claims that the Rockeye was meant only for tanks, he responded: "If they're solely 'antitank' why are they dropping

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Staff: Marc Donner, Eric Eichorn, Andrea Goldfarb, Paul Harper, Dennis Mallonee, Philip Massey, Etaoin Schroedlu, Steve Sweeney, millikan troll.

Photographers: Todd Boroson, Dave Brin, Gerald Laib, Phil Neches, A.J. Owens, Dave Peisner.

Business Manager: Marvin Mandelbaum
Circulation Manager: Rob Olshan

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Want to become a corrupted corporation official? Then apply for any or all of the ASCIT appointive offices, listed below. Applications must be submitted in writing to Philip Massey (119 Ruddock or the Winnett Center office) by 4 p.m. today. (A small bribe might arrange things, however.)

- Big T (73-74)
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Business Manager
- little t (73-74)
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Editor
Business Manager
- The California Tech
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**NEXT WEEK:
PRIME CUT**

News Briefs

Continued from Page One

Student Life will be open until Wednesday noon, February 28. If anyone decides to run a candidate's statement in the *Tech* they should get it in by dinnertime Tuesday, February 27.

CEAC Recycles Caltech Community

Recyclable materials are being accepted at the CEAC recycling center, located in the parking lot behind Steele. This is a chance for all members of the Caltech community to contribute to a better environment. Materials presently recycled include newspaper, computer paper and cards, glass, aluminum, and steel and tin cans. (Please bag or bundle your newspaper and crush your metal cans.) Come by and see us sometime.

Biology Tutorials

The list of Biology tutorials (Bi 23) to be offered next term is now available in the Biology Office, 156 Church. The tutorials are staffed by Biology faculty, postdocs and grad students. They provide an opportunity for learn-

ing through personal contact in a small group situation and cover a broad range of subjects. Bi 23 may be taken for up to 6 units; grading is pass/fail.

The Big TEE Is Coming

This Saturday night, a special skill-gimmick car rallye for Techers only, The Big TEE, is being presented by The Elysian Fields Rallye Club. The rallye starts at Tournament Park, and entrants may register from 7:30 to 8:30 p.m. Registration is only \$2. There will be separate classes for Intermediates, Beginners, and First- and Second-Timers. Many trophies will be awarded. For more information, call David A. Smallberg (B1), 449-8322.

CEAC Sponsors Campout

CEAC is sponsoring a camping trip to the Anza Borrego Desert (near San Diego) with a bunch of Scrippies the weekend of March 3-4. All interested people please sign up in the Y office or with Brian Yandell before noon Monday, Feb. 26. There will be an organizational meeting Monday evening, 7:30 in the Y Lounge. Participation may be limited, so sign up now.

Ad Hoc

Continued from Page One

lum in an important area? He also spoke on the lack of any reasonable cause for the cut—the Division of Humanities is simply not saving very much money by it, and considering that they assume that language professors can teach three full classes (under some strange delusion that language professors do not do research as does the rest of the Division), the cost of a language professor per student taught is less than usual. In the question/discussion period following Young's and Ziren's talks, one student pointed out that she was now paying over \$3000 in tuition here, and that the suggestion that she attend language classes at PCC (at addition cost, since her parents do not live in the local area), or attend classes at Oxy without transportation (or time) being supplied, is an absurd one on the part of the Institute.

The discussion reached a high when Dr. Fay stated that such a change had been reached by a meeting of the heads of the Humanities Division—and that no other faculty opinion had

been polled or considered. Dr. Robert Walker, well-known to at least three generations of Ph 1 students, looked up and stated, "Well, I am not usually very excitable, but I am appaled."

There's a Catch

Also brought up at the meeting concerning Humanities was the recent proposal (being discussed by the Curriculum Committee currently) that of the 108 required units in humanities and social sciences, 27 must be in English, History, or Philosophy, with the rest from any courses *except* those that the Division specifies. Included in the rather extensive list are the first year languages; hence a student who completes the second year of a language will get credit only for that year, not for his first as well, but, then, there won't be much of a second year language program.

One of the interesting realizations I have had from all this is that one part of the faculty doesn't really know what is going on in the other part. For instance, Bob Coleman spoke the first week on the fact that the Humanities Division allows no credit for any courses in the fine-arts; i.e., if one takes an art

or a music course at Oxy which is "doing," rather than listening to a lecture, one gets no credit for it. (Not unlike how it would be if the physics department did not allow credit for labs.) As the discussion progressed, what was being said finally sunk in to one faculty member who had thought that the Institute allowing credit for courses at Oxy was equivalent to the Humanities Division allowing credit for courses that are (obviously!) humanities or social science courses. "You mean that if you take an art course there you don't get any humanities credit for it here? That's the most absurd thing I ever heard." (Dr. Fay suggested that it would be as appropriate for physics to give credit for these courses as for his division; he does not consider them humanities. I personally think this is a fine suggestion, as long as Ph 3, 4, 5, 6, and 7 count towards the 108 units of humanities and social sciences.)

The discussion of the humanities mash will undoubtedly continue at the meeting tomorrow (3 p.m. in the Trustee's room; all are welcome); Dr. Huttenback is scheduled to speak.

Caltech?

Languages

Continued from Page Two

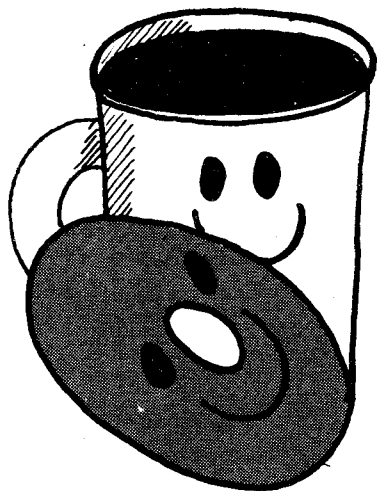
attract only a few students; some, however, are graduate minors or have distributed undergraduate majors. These courses are, for the most part, taught like tutorials, in addition to the six-hour load. This quarter, for instance, I am teaching L 153 (ten students) and En-L 155 (twelve students) plus two students in third year.

Huttenback argues that Caltech does not need a language program because languages are no longer required by the other divisions. Our seniors tell us that most reputable graduate science departments still require proficiency or reading skill in at least one language for the PhD. As a scientist's wife, I know how important can be exposure to the ideas and cultures of foreign colleagues, and what rich opportunities scientists have to lead international lives. Do we teach only English/America science at

He also fails to mention that we also teach courses in literature-in-translation (En-L 150ab, En-L 155ab, En-L 156) with enrollments comparable to those in other English courses. These, with the enthusiastic endorsement of our colleagues in English, were being *approved* by the Faculty Board just as their creators, all of whom do research in literature and culture, were being told there was no room for them or the courses at Caltech!

The one indisputable fact in all this is that, of the twenty courses (44-50 quarters of instruction) listed under Languages in the *Caltech Information for Students*, only six (18-21 quarters) will survive the purge. We have been told that the logic behind the cut is that jobs for language teachers are scarce, so that's tough, buddy. Human values, student needs and faculty rights have all been trampled on in the process.

—Mary Zirin
Dabney Basement



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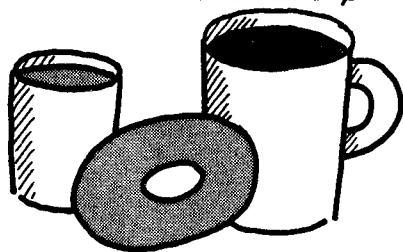
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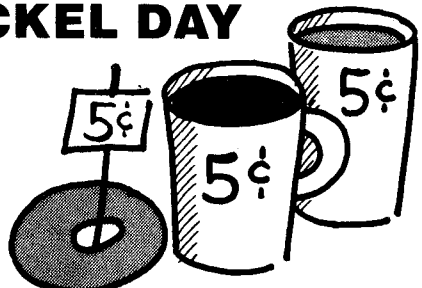
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Encounters

Continued from Page One
Martirano will present some of his music for the synthesizer at California Institute of the Arts in Valencia.

Part of the Encounters program's genius is having the composers involved on campus for a day to talk to students and let them get to know him in little greater depth than otherwise possible. Paul Chihara will be here on Tuesday, March 6 for the day so keep your eyes open.

Other upcoming attractions are the latest in the Caltech Lecture series on Monday, February 26 when Professor Carver A. Mead will talk about "The Micro-Electronic Revolution" and how the rapidly decreasing costs of electronics is affecting our lives. On Saturday, February 24 "Professor" Peter Shickele will present some of the fictional works of his creation PDQ Back in Beckman Auditorium with The Semi-Pro Musica Antigua.

Piano buffs—Ursula Oppens, one of the shining young lights in the piano scene, will come to Ramo Auditorium on Friday, February 23 as the first in the Young Concert Artists Series. She will play a program of Haydn, Schoenberg, Beethoven and Schumann. Afterward there will be a reception in the Athenaeum library with wine and cheese. Everyone is invited.

Also note that tickets to Ms. Oppens' recital will cost Techers only one thin dollar (and what's that worth nowadays anyway?). All are invited to the reception afterwards to meet her.

This Sunday is the last of the Dabney Lounge Chamber Music Concerts. ("What happened to the fifth one?" you ask? Due to unforeseen problems that performance of Die Schone Mullerin had to be postponed until next season.) The February 25 program features Jane Thorngren, soprano; Michele Duran, flute; Jonathan Mack, horn; Barbara Thomason, viola; and JoAnn Turovsky on the harp. This gifted group of musicians from USC will perform a mixed program of Debussy, Britten, Donald Michalsky, Paul Hindemith, and Donald Crockett.

The News That Isn't True

Mexican authorities today reported that an epidemic of syphilis is raging among the sheep population in and about Baja California. A Health Department official stated, "I've never seen anything like this except in Thessaly."

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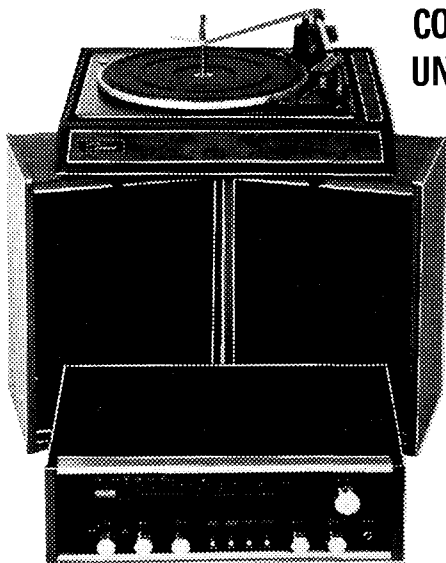


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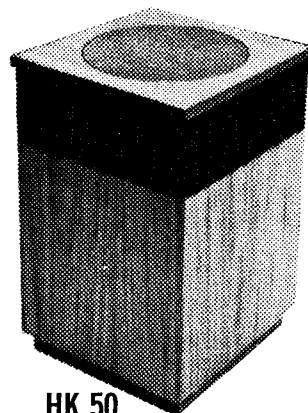
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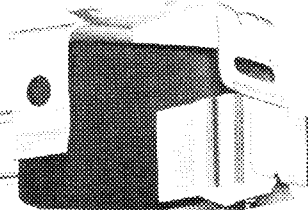


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UNIVERSITY STEREO

Grad Student Invents Oil Spill Identification

A rapid and inexpensive method has been developed to identify the source of oil spills that pollute water and beaches, and that may also be useful in tracing drugs, associate professor of chemical engineering Dr. Frederick H. Shair has reported.

The system, which involves tagging the oil with microcapsules of a "license plate" combination of special liquids, would cost less than three mills (three tenths of a cent) per barrel of oil, stated Dr. Shair, in the current *Environmental Science and Technology*.

A quick, simple test at the site of the spill reveals the identifying "license plate." This test was developed by one of Shair's graduate students, Berill L. Mitchell, as part of his master's degree project. Collaborating with the two in the work was Dr. Peter Simmonds, formerly of JPL.

Fighting the Common Oil Spill

The tagging method, for which a patent is being sought, already has been successfully tested in the laboratory and in small-scale field tests and is now ready for large-scale field tests, Shair said. It involves plastic microcapsules similar to those used in "time pills" and typically one eight-hundredth of an inch in diameter. They are filled with a combination of 20 volatile liquids like Freons. Upon request, the microcapsules containing the combination of liquids are obtained commercially.

There are a million possible combinations of these liquids, each being a distinctive "license plate." A different combination would be assigned to each vessel. The tracer material from only one microcapsule is sufficient to make a positive identification.

The microcapsules, which have no adverse effect of the oil or environment, would be added to the oil in a tanker by methods commonly used for mixing additives with petroleum products. The microcapsules are tough and will last in the water for three months or longer — about the life of a spill. They are not affected by weather, water, or sunlight.

On Land and Oil . . .

"With the anticipated rates of increase in oil production and transportation, spillage rates are expected to increase," the Cal-

tech report stated. Adequate tagging techniques protect those companies that have already made significant improvement in their oil handling procedures.

Of the several techniques developed to fingerprint oil spills, this is the only one using microencapsulation of compounds that are suitable for detection by electron-capture gas chromatography, Shair said.

Dots and Dashes

Coding procedures should be set up under a national or international agency. Shair said he recognizes the inherent difficulties in this, but pointed out that many environmental problems will only be solved through some level of international cooperation.

The tagging method also may be useful in tracing the transport of drugs, the report stated. A drug company could tag its own drugs, or illicit drugs could be secretly tagged.

Missiles

Continued from Page Two
thousands of them daily in and around our most populated areas?"

The Rockeye represents the culmination of antipersonnel technology developed by the U.S. for use in Indochina. Its most important aspect is that unlike all other antipersonnel ordnance, it is capable of penetrating underground, where most of the population takes shelter during air raids. Those being struck by it were civilians.

The Rockeye missile is a four-and-a-half inch metal cylinder, with a narrow metal tube extending another three inches, allowing it to enter the earth. It is delivered in a canister containing 247 Rockeyes. One jet sortie can deliver four canisters or nearly a thousand separate missiles, covering an area 1000 yards long and 30 yards wide—10 football fields.

The former antipersonnel bombs produced by Honeywell, such as the guava, contain several hundred ballbearing pellets. The Rockeye, however, explodes with far greater pressure due to the fact that its top half is hollow. As a result, it breaks into thousands of molten splinters of steel which are far smaller and move at a faster speed than previous antipersonnel fragments.

Liquor Restrictions

State Senator Mervyn M. Dymally this month re-introduced legislation to repeal the requirements that off-site sale of alcoholic beverages cannot be made within specified distances of college campuses.

The bill, Senate Bill 139, would apply only to package sales of beer, wine, and liquor, and would not effect regulations dealing with on-site sale near colleges, Dymally pointed out. Sale would still be prohibited on campuses, or to anyone under 21.

"Each year this bill is killed by the opposition of a tiny group of liquor dealers who have previously gained exemptions from the present limits, and want to keep everybody else from getting the same treatment," the Los Angeles Senator said.

The bill has the support of the UC Student Lobby.

"Current law says that package sales cannot be made within 1½ miles of a college campus. But at least 25 exceptions and exemptions have been passed, varying the distance at different college sites," Dymally said. "And it is legal for a package

store to deliver within the 1½ mile zone."

"As a result, the present law is little more than a farce, one which gives special breaks to some stores and package firms, while discriminating against others," he added.

Scurves Do Have Cars

He pointed out that the student who wishes to purchase beer or liquor merely drives to the nearest package store and makes his purchase. He added that "The underage student who is going to make an illegal liquor purchase is not going to be deterred by having to go beyond the 1½ mile distance from campus."

Dymally said his proposal is in line with society's increasing recognition that college students are young adults, and should not be protected "as though they were children." "The bill doesn't change the law which prohibits sale to those under 21. It merely recognizes that many college students are over 21, married and with families, and resent being treated as though they were immature youngsters," said Dymally.

The person hit by dozens or even more that a hundred of these tiny fragments may feel nothing at first, but pain from infection may set in after several weeks, and death or amputation has often resulted.

Many people believe that there is a substantial moral/legal cause for non-cooperation by the Honeywell corporation with the procurement of weaponry by the United States Government.

It has been established that anti-personnel weaponry and the electronic battlefield were employed in the Indochina war in a manner that violates valid rules and principles of international law binding on the U. S. government (the international law has been ratified by the Congress and thus has become part of the law of the land, binding on all citizens).

The key provisions of the international law of war include: (1) Hague Convention to Land Warfare, 1907, Article 22: "The rights of belligerents to adopt means of injuring the enemy is not unlimited." In addition to the prohibitions by special Convention, it is especially forbidden . . . to employ arms, projectiles, or material calculated to cause unnecessary suffering."

(2) Until a more complete code of the laws of war has been issued, the high contracting Parties deem it expedient to declare that, in cases not included in the Regulations adopted by them the

inhabitants and belligerents remain under the protection and the rule of the principles of the law of nations, as they result from the usages established among civilized peoples, from the laws of humanity, and the dictates of the *public conscience*."

The treaty rules include four broad principles of international law governing the conduct of warfare:

1. The Principle of Necessity: no tactic or weapon may be employed that is not necessary to achieve a legitimate military objective;

2. The Principle of Proportionality; no tactic or weapon may be employed that inflicts death and destruction disproportionate to the attainment of a legitimate military objective;

3. The Principle of Discrimination: no tactic or weapon can be employed that fails to distinguish between combatant and non-combatant or between military and non-military targets.

4. The Principle of Humanity: no tactic or weapon may be employed in warfare that inflicts superfluous suffering or is cruel in its effects on its victims or that has been specifically prohibited.

It was clearly established in the Nuremberg Trials that corporate officials had an individual responsibility for their participation in violations of international law; and that this responsibility was not eliminated because

OUTGOING MESSAGE

JPL HNET JOCC GCTR
DE JJPL 013A
09/0253Z
FM DR. A. HIBBS
TO HNET NETWORK CONTROL
INFO JOCC/NOC
GCTR/NOM
DLD/R MALLIS/D L GORDON/
R AMOROSE

THE UNDERGRADUATE STUDENTS FROM CAL TECH WISH TO MAKE THE FOLLOWING REQUEST TO APOLLO NETWORK CONTROL. WOULD IT BE POSSIBLE TO PLAY "RIDE OF THE VALKYRES" AS A WAKE-UP SONG FOR DR. SCHMITT (APOLLO-17 LUNAR MODULE PILOT).

THIS SONG HAS A GREAT TRADITION AT CAL TECH AND HARRISON SCHMITT BEING A GRADUATE LIVED UNDER THIS TRADITION WHILE A STUDENT AT OUR INSTITUTE.

DURING EXAM WEEK IT IS A TRADITION TO WAKE-UP THE UNDERGRADS WITH THIS SONG. GOOD LUCK ON THE APOLLO 17 MISSION AND MANY THANKS.

09/0308Z DEC 72 JJPL

INCOMING MESSAGE

JJP 176A
NN GCTR HNET JJPL JOCC
DE HMSC 116
12/1951Z
SUB COR HMCP

FM NETWORK CONTROL
TO DR A HIBBS

OPN
REFERENCE YOUR DTG
09/0253 REQUEST COMPLIED
WITH 12/1948Z

12/1953Z DEC 72 HMSC

the corporate officers were acting in accord with, or even in response to, government orders.

Honeywell is continuing to manufacture antipersonnel weapons for the defense department, whose budget has not been reduced even though the war is over. I believe, along with many others, that Honeywell has the moral and legal responsibility to cease the manufacture of weaponry that is so cruel and inhumane.

I urge those being interviewed by the Honeywell recruiter to consider their own consciences in going to work for any company that may be involved in crimes against humanity. There is a higher virtue than that of patriotism, a higher law than the civil codes of America.

—Richard L. Short

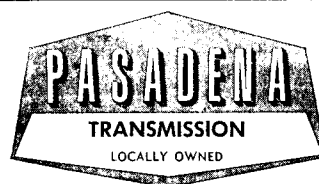
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Last week, Mark Johnson complained that his name was not in the paper. This week, he has no cause to complain. See top line.

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The Four-Color Tech

by Dennis Mallonee

The Man of Tomorrow burst on the national scene in the spring of 1938. This was a new kind of comic book hero. More than man, Clark Kent was a

Super-Man (Great Scott!).

What was Superman like during his first years? He was, simply, a being with powers beyond those of mortal men. Quoting from the first issue of

Action Comics: Clark Kent could "leap 1/8 of a mile, hurdle a twenty-story building, raise tremendous weights, run faster than an express train, and nothing less than a bursting shell could penetrate his skin!"

This hero spawned literally hundreds of counterparts in flannel pants and skirts and

brought about what is technically referred to as the first heroic age of comics. Most of this stuff was shoddy. But...

Now It's Worth Money

The stuff of the "Golden Age" (as it's called) brings a fair (and high) price on the open market. Books printed before 1942 are extremely hard to find.

The paper drives of World War II decimated the low press runs of those days. The books were also popular among enlisted men; thus, thousands were sent overseas. The few comics left from that period have become extremely rare, and collectors' items to boot.

... TO BE CONTINUED



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Wrestling

Bickford—Wow!

by Irving Q. Herring

Tech's wrestlers wound up an otherwise somewhat disappointing SCIAC season last week with a surprisingly close loss to Claremont and a strong second place finish in the conference tournament to tie with Pomona for second place honors.

The Claremont dual meet, which was expected to be a runaway, came down to the last period of the last match in an incredible team performance. Gary Zieve and Mike Norman picked up six pointers for Tech, while Ken Walker, Greg Stone, and Vince Fratello won by decisions; the meet was essentially decided by a 20 lb. weight disadvantage at 177 lb., and forfeits at 190 and heavyweight by Tech.

In the tournament on Saturday, Walker, Fratello, and Zieve all won conference championships, each by a decision and a pin; it was Walker's second straight at 142. Stone and Val Catanzarite won their first matches, but lost in the finals to take second at 134 and 158. Perhaps the least expected "place" was won by Ken Bickford, who took the consolation finals at 190 and walked away with third. Ken, a senior, weighs only 150! Mike Norman also finished third at 118, and Willy Moss was fourth at 126. The team will be riding this encouraging trend into NAIA District three tournament this Saturday.

NEAS BITES

At Oxy Track Meet

Griffin, Kleinsasser Set Records

Showing excellent early-season form, though being defeated by Oxy, the Caltech track team opened its season last Saturday. The Beavers received excellent performances from Greg Griffin, Al Kleinsasser, Terry Mills, Greg Hoit, Haywood Robinson, Brent Sweitzer, and Doug Herbert. Two school records fell and team members scored six personal-best performances.

Kleinsasser scored a double victory by winning the mile and 880. This is the first such Caltech double victory in many a season. The outstanding middle distance runner set a new school record in the mile with a time of 4:18.8. Running with contained ease he had lap times of 63.9, 66.3, 66.3, and 62.1. Less than an hour late, Kleinsasser was back on the track in a winning 1:57.0 half-mile. In both events, it appeared faster marks could have been made if the competition had been present. Kleinsasser finished the day by running the anchor lap on the winning mile relay team in 51.4.

Griffin Breaks Record

Distance star Greg Griffin was most impressive in his two performances. Griffin led off the day with a personal best in the mile of 4:30.5 and finished a non-scoring fourth. Two hours later the second school record of the meet fell when Griffin finished the three-mile in a time of 14:41.0, placing second behind Oxy's Ken Moffet. The mark bettered the record by 10

seconds and was almost 30 seconds better than Griffin's fastest finish last year.

Haywood Robinson finished second in the 100 with a time of 10.0 after falling back in the last 25 yards. Robinson's surprise for Coach Bert La Brucherie came in the 220 when he won the race in his fastest time ever, 22.5. Robinson, with limited workouts this year, was most impressive in the 220. He had an extremely poor start, but ran a strong race in the last 75 yards.

Greg Hoit scored two personal best performances with a 56.3 race in the 440 hurdles and a 51.8 leg on the mile relay team, Charles Almquist had a fourth place finish in the intermediate hurdles with a time of 55.7 and finished second in the 120 high hurdle race in a 16.0 performance.

Surprises in Field Events

The field events provided some surprises for the Beaver team. Brent Sweitzer finished second in the shot put with a mark of 45-8, and in the discus Caltech finished second and third. Doug Herbert got off his best throw ever of 134-6 to finish less than two feet out of first place. Sweitzer came back

with a 126-8 throw for a third.

In the high jump event, Terry Mills cleared 6-0 to finish second as a result of the rule which determines first place by fewer total misses in the event of a tie. Mills promises to go higher as the season progresses. Brad Page finished third in the high jump with a mark of 5-6.

John Steubs ran a strong race after limited workouts, finishing third in the 440 with a time of 55.1. The mile relay team of Almquist, Hoit, Dave Webster, and Kleinsasser won the event in 3:32.9. Webster also competed in the 440, with a time of 56.3. Webster was running with a very sore heel. The 440 relay team finished second in 44.5.

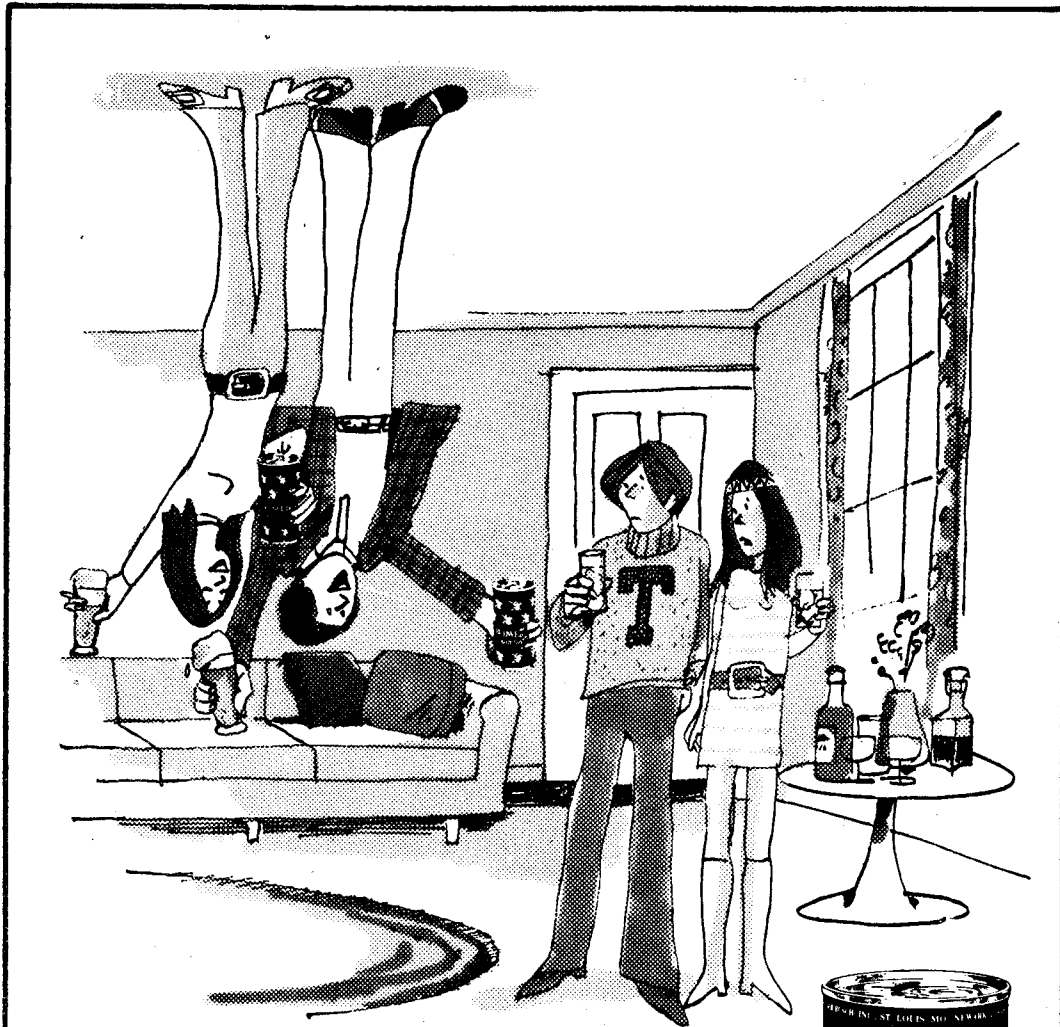
Home Meet Saturday

The meet was a strong performance for the Beaver team. Due to the bad weather over the past few weeks, the team has been limited in workouts and as the weather improves, performances will also improve.

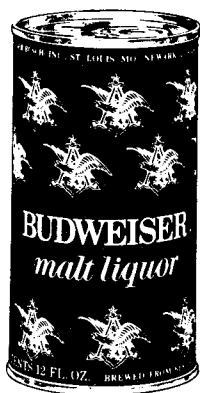
Brad Page scored the first points of the season for Caltech with his third place finish in the javelin, in the closer-than-usual loss to Oxy, 103-42. This Saturday on the Caltech track the team meets Claremont.

Longish Sports Menu

Friday, February 23			
12:30 p.m.	Golf	Occidental	at Brookside
4:00 p.m.	Swimming	Pomona-Pitzer	Home
6:30 p.m.	JV Basketball	Pacific Christian	Home
8:15 p.m.	Varsity Basketball	Pacific Christian	Home
Saturday, February 24			
All Day	Wrestling	NAIA District 3 Tournament	at Whittier
1:00 p.m.	Fencing	CSUSD & CSULB	Home
1:30 p.m.	Track	Claremont-Mudd	Home
1:30 p.m.	Varsity Tennis	Claremont-Mudd	Home
1:30 p.m.	JV Tennis	Claremont-Mudd	Away
6:30 p.m.	JV Basketball	Claremont-Mudd	Away
8:15 p.m.	Varsity Basketball	Claremont-Mudd	Away
Monday, February 26			
12:30 p.m.	Golf	Whittier	Home
Tuesday, February 27			
3:00 p.m.	Varsity Tennis	Biola	Home
3:00 p.m.	Baseball	LIFE College	Home
Wednesday, February 28			
3:00 p.m.	Swimming	SCIAC Prelims	at Claremont-Mudd
Thursday, March 1			
All Day	Fencing	West Coast Conference Tournament	at SFCC
2:30 p.m.	Swimming	SCIAC Diving	at Claremont-Mudd
Friday, March 2			
All Day	Fencing	West Coast Conference Tournament	at SFCC
1:00 p.m.	Golf	Pomona-Pitzer	at Brookside
2:30 p.m.	Swimming	SCIAC Finals	at Claremont-Mudd
Saturday, March 3			
All Day	Fencing	West Coast Conference Tournament	at SFCC
12:00 noon	Baseball	Southern California College (2)	Away
1:30 p.m.	Track	La Verne & Redlands	at Redlands
1:30 p.m.	Varsity Tennis	La Verne	Away
1:30 p.m.	JV Tennis	La Verne	Home



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Swimmers Unjinx Pool

by I. M. Wett

Caltech swimmers defeated Redlands 67-38 last Friday in an exciting meet which featured close races in nearly every event. This marked Tech's first victory in many years in any contest held in the "jinxed" 33-yard Redlands pool.

In the 400-yard medley relay Tech entered a team which probably could have beaten any Redlands entry: Clyde Scandrett, Max Kay, Dave Clark, and Steve Bitondo. Redlands was too awed to enter a team.

The Sports Editor . . .

The next event, the 1000-yard freestyle, was the first of the on-the-edge-of-your-seat races. In the battle for second place, Bob Kieckhefer and Redlands' Fred Cheynowith swam head-to-head for 700 yards before Kieckhefer inched forward to take second by three yards.

After Howard Bubb cruised to an easy victory in the 200-yard freestyle there was another close race in the 66 free. (The 66 free? What kind of an event is that?) Bitondo and Ron Horn placed second and third, inches behind the Redlands victor. Francine Wetter beat her female opponent in the race for fifth place, however. This may not be as good as leading your team to victory over USC, but then Caltech swimmers are not quite like UCLA's.

Kay and Tom Stoughton next placed second and third in the 133-yard individual medley, again narrowly losing the race. (The 133 IM? What kind of an event is that?) Jim Rowson's unopposed victories in the diving events greatly improved Tech's chances of winning—virtually insured them, in fact.

After the diving, Clark held on to win the 200-yard butterfly, with Stoughton placing third. The 100-yard freestyle was very similar to the 66 free, with Bitondo and Horn again taking second and third. After this, Scandrett cruised to victory in the 200 back.

. . . Clinches It Again?

Redlands' chances of winning the meet were eliminated when Bubb and Kieckhefer swept first and second in the 500-yard freestyle, despite Howard's antics

(grinning at the girls in the crowd, splashing the referee, etc.). Stoughton and Kay then took second and third in the 200-yard breaststroke after Stoughton's come-from-behind effort to take first fell a few yards short.

The freestyle relay team of Bubb, Horn, Clark, and Scandrett won the last event of the night after another close battle. Tech's unofficial entry of Bitondo, Kay, Stoughton, and Kieckhefer failed in their attempt to beat the Redlands team, however.

This meet victory evened the swimmers' conference record at 2-2. Tomorrow they will hold their final dual meet at 4:00 against Pomona-Pitzer; it should be another close meet. The SCIAC swimming championships will be held next Wednesday, Thursday, and Friday at Claremont-Mudd.

MASCIT

Continued from Page One

Committee (not dealing with what you might think, but with this year's commencement.) Johnson remarked that Drop Day had been changed a few months ago to March 2, and that he thought that maybe people who didn't know ought to. (Now you know. Again.) Johnson also discussed looking into the possibility of each house having its own food corporation; i.e., hiring a chef and co-opting with other houses to buy food.

It was decided unanimously except for one, that Johnson would supply more donuts next time than he did this time, as running out of cashews is different than running out of donuts because donuts are different than cashews. The high point of the meeting (besides the possibility that Christy may be worried about selling Tech at some future date) came when Dave Drake pointed out that when you're illegal, it no longer matters.

Tech Hockey Team Still Undefeated

by Dan Margoliash

Last Sunday night, the Caltech Hockey Club played to an exciting 1-1 tie with Northern Arizona University. The game was a tight defensive battle, with no scoring in the first two periods. There was fierce checking around the blue lines, with a series of spectacular rushes by both teams. The Tech defense was at its strongest ever, essentially blocking out any significant action in the slot (the area directly in from the goal).

In general, Tech was always in control of the game, but somehow we couldn't sustain our offense and score. Our only point came in the third period on a brilliant play by Bill Harris, who broke up an NAU pass at our own blue line. He quickly skated around the last NAU defenseman, and charged down the length of the rink to slam the puck in the net with a hard wrist shot over the outstretched arm of the goalie. The fired-up Flagstaff team soon got the equalizer, and after five minutes of vicious, slam-bang hockey, the game was over.

Our upcoming games include a March 3 appearance at the L. A. Forum (!) with the Northridge team, and some future dates with UCLA.

\$2,900,000 Gift

Mr. and Mrs. Lester M. Finkelstein have made a gift of securities and real estate valued at \$2,900,000 to the California Institute of Technology, according to President Harold Brown.

A Los Angeles area industrialist, civic leader, and philanthropist, Finkelstein has been particularly active in interests involving health and education. Part of the contribution is an outright gift and part is in return for a lifetime annuity. The Finkelstein gift is not restricted to a specific purpose and can be used at the Institute's discretion.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
15									16					
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62				63					64		65		66	
67									68			69		
70									71					

Solution Next Week

ACROSS

1. Fastened Together
8. Periods of Luck
15. End of Saying
16. Snood
17. "Lady ___ Good"
18. Mop
19. Judge
20. Adjectival Suffix
22. Rigorous
24. Palm Drink
25. Spring
27. Sets Dog Upon
28. Victory
29. Sex Expert Havelock
31. French Condiment
32. Metallic Sound
34. Influence
36. Replenish Battery
38. Lion's Noise
40. Litigation
41. Careful
45. West Point Freshmen
49. Foreigner
50. Extinct Bird
52. Foolish
53. Sick
54. Murders
56. Slant
57. Ridge of Sand
59. Make Beloved
61. Illuminated
62. Paid No Attention to
64. Scottish Kiss
66. Six
67. Every (2 wds.)
68. Surfing Peat (2 wds.)
70. Thin
71. Driving Away

DOWN

1. Celebration
2. By ___ Alone
3. Brightness
4. Greek Letter (pl.)
5. Pulls
6. Political Regions (Fr.)
7. Scattered Remains
8. Metal Restraints
9. Fruit Pies

10. Tease

11. Island Country (Poet.)
12. Peace-loving
13. Retaining
14. Peculiar
21. ___ Nelson
23. Cold Drink
26. Perforate
30. Hold in Contempt
32. Mexican Food
33. Hidden
35. Scottish Digit
37. Drinking Container
39. Aid to Recollection
41. Creameries
42. Unlawful
43. Quiet
44. Related
46. Empty Boat of Water
47. Make Interesting
48. Background
51. Hebrew Letter (pl.)
54. N.H. Resort City
55. Wife of Abraham
58. Dry Wind; Var.
60. Gambling Resort
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