Man is Subject

The CALIFORNIA Tech

To Change Without Notice

Volume LXXI

Pasadena, California, Thursday, October 9, 1969

Number 3



THE NEW CHEERLEADERS are shown at last Friday night's bonfire. From left to right, they are Mary Sue Cooper, Linnea Newton, Mary Pat Scanlon, Patty Cullen, and Cheran Anderson (Slawna Scanlon was not present). Now I suppose you want their phone numbers.

—photos by Ctein

From Nudes to Artichokes The Great Seal Marches On

By Craig Sarazin

Since its beginnings, Caltech has had a fantastic assortment of official, semi-official, and un-official seals. These are the sort of things that usually end up decorating beer mugs, sweatshirts, and official stationary. The oldest of the seals, commissioned by Millikan back in the 20's, showed two naked men exchanging a torch while they ran over some clouds. Questions have often been raised about exactly what those guys were doing up there together without any clothes on. In any case, that seal has fallen from favor.

Another commonly used seal consists of a large gear with a big T and two mountains in the background. This seal apparently harkens back to the days when Caltech turned out more mechanical engineers, and fewer theoretical physicists.

The latest and perhaps most

popular in this series is a seal which showed a torch, representing knowledge, being passed from one hand to another, the hands representing the faculty and students, respectively. It was apparently well liked, and was used on ASCIT stationary and in the *Bio T*

The administration decided that this seal, like all mortal art, must pass into dust. They commissioned some designers to produce another. They came up with a round seal showing a single hand holding a torch, both against a black background. Apparently, knowledge is no longer "passed" at Caltech.

In any case, we have a new seal, which was described by one student as a picture of a "crippled hand holding an artichoke." With its general uglyness, this seal will probably become just another Caltech seal, only adding to the existing confusion.

Anti-War Protest

Peace Activities Set for Oct. 15

Last Thursday a group of thirty-five undergraduates, graduate students, and faculty members met in the YMCA lounge to discuss the planning of a day of anti-war activities for October 15. The protest is scheduled to coincide with a national day of Moratorium on academic activities, though the aims and methods of the Caltech action are somewhat different.

The meeting was called after a meeting of the Caltech Y's executive committee with ASCIT President,

Stephen Horner, decided to feel out campus opinion concerning having a campus anti-war action to parallel the national action proposed by various peace groups. Among those present at the larger meeting were Bob Fisher (Y President), Alan Stein (Y Secretary), Dave Lewin (Y Representative-at-Large), Stephen Horner, Pete Szolovits (ASCIT Vice President), a representative of the Graduate Student Council, Robert Christy (Chairman of the Faculty Board), and Herbert Meiselman (re-

Stephen Horner, decided to feel out campus opinion concerning having a group of faculty members).

Unlike the national action, the Caltech group proposes to concentrate on building anti-war sentiment on the campus. The aim is not to have a boycott of classes, but to present an alternative to the normal routine that will enable members of the community to actively work towards ending American involvement in the Vietnam War.

The focus of the day will be a main speaker on the Olive Walk at 11 a.m., and faculty-moderated discussion groups on aspects of the War in the early afternoon. Other activities planned are: a "monument" created during the day from various art materials that will be available; musical entertainment—i.e., folk singers; opportunities to aid the American Friends Service Committee in canvassing the Pasadena area to enlist sentiment against the war, much as in the McCarthy and Kennedy campaigns of last year.

Ways of involving students and faculty who feel that their obligations to attending or teaching class do not permit them to participate actively in the events of the 15th were discussed at the October 2 meeting. Black armbands would designate supporters of the day's activities. Faculty could have a minute of silence in their classes that day, turn part of the discussion to the implications of the war, or use the class as enrichment so that students who are participating in the moratorium are not penalized.

A delegation consisting of Pete Szolovits, Bob Fisher, Dave Lewin, and Larry Benowitz—a graduate student—discussed the plans with Institute President Harold Brown on this past Monday, informing him of the plans and aims of the group sponsoring the day's activities.

Closer Ties With Security Guards Urged As Campus Crime Continues

By Carroll Boswell

In the last few years, a very dangerous situation has been building up at Caltech. The situation is all the more bizarre because of the overwhelming ignorance that pervades the student body concerning this problem.

Every once in a while, there is an article in the *Tech* about things stolen from storage rooms over the summer or about changes in the gameroom key. But nothing really serious. The general attitude has been that it is basically a problem of the summer when few people are around.

It just isn't true. Crime at Caltech is a year-round problem. There is slight difference, if any, between the summer quarter and any other quarter. If anything, the crime statistics at Caltech are alarming and disgusting at any time of the year.

Every freshman class is given the usual speech about how neat the honor system is and how well it

works. Well, that isn't true either anymore. The honor system is decaying faster than anyone would believe. It is no longer completely safe to keep your room unlocked. If this situation continues deteriorating, it will mean a complete end to the honor system and any worthwhile life at Caltech.

There are many causes for this state of affairs and I will not try to discuss them here and now. Caltech is one of the most liberally organized universities in the world. The honor system is evidence of that. As a student body, we have more power than most student bodies. But we have sold our really good system, in particular, the honor system, short. It amounts to assuming that the honor system exists and is working and then doing nothing about it. We shall eventually ignore it until it goes away. It is because of my concern that this doesn't happen that I am writing this article now.

Immediately I see several things that we as individuals and as houses can do something about. For instance, there is an appalling lack of communication between the student body and the security officers at Caltech. It would help a great deal if the various student houses would begin to invite the different security officers to dinner in a serious attempt at mutual understanding. Even more important, the greatest help would be for individual students getting to know the security officers on a more personal basis. There is currently going around a rather over-done idea of "police brutality" This is a particularly ridiculous idea at Caltech, and it is doing no end of

The situation at the moment is very grave and will require much work both by students, faculty, and the security officers to ease it. The security officers at Caltech want the honor system to continue to exist as much as most of us do and they'd really like to help. But the security officers work under the honor system as much as we do, so it is just as important to them as to us. The only way to really save Caltech as such is to work together. It will require a great deal of thought and policy revision on the part of ASCIT.

We have all heard that freedom isn't free. Under the honor system, particularly under the honor system, it is our responsibility to see we do not lose it. We have been very lax in neglecting that responsibility. We are too busy being free to care.

New Student Info Center Opens In Throop

Greatly improved quarters have been made available for the Student Information Center. Room 23, Throop Hall is now devoted to this operation which should be of great convenience and value to the entire Caltech family. Emphasis is on information about graduate work, stipends and jobs, both foreign and domestic. The Center is staffed by Mrs. Katharina Phillips whose responsibility is to aid students and research fellows in finding the information they need for overall Placement matters. Applications are available for Fulbright, NSF grants, and the Educational Testing Program: GRE, Business Administration, Law School, and Medical College. Information about other grants is available. Brochures about industry and government organizations are on file. Also available are catalogues on American and foreign universities who offer graduate work and research opportunities. Facilities are provided for browsing and reading. The hours are from 8-12 a,m. and 1-5 p.m., Monday through Friday.

Where It Comes From

Institute Gets Funds From Many Sources

Caltech, like most institutions, runs on money. And, contrary to the opinion of some Techers, most of the funds do not come from those "atrocious" student fees, but rather, from public and private funds. In particular, money donated to the Institute by private individuals or corporations forms a unique source of the long green.

Money received from private sources is obtained in various ways. Some of it is an outright donation; some of it is in the form of a grant or a trust. It may be a check, some cash or stocks. Caltech is sometimes named as a beneficiary in a will, and this source of funds is not discovered until the will is executed. There are thousands of gifts (which, although large in number, are sometimes comparatively small in dollar amount), part of the administration is dedicated to finding free capital, such as the money from a foundation, and convincing those involved to invest it into Caltech.

The money then serves many purposes. A large proportion of the gifts, being unrestricted in purpose, is put into a collection of general funds. This is used for whatever need arises, whether building funds, research equipment, or salaries. Some of the funds received are set up to

help the student rather than the Institute as a whole. This is used for scholarships, gifts, and sources for loans. Many of these are listed in the student catalogue, with the donor and the general aim of the financial aid. Some of the money, less than five hundred gifts, is restricted in the purpose for which it can be used. In these cases, the donor more or less specifically dictates for what his funds are meant. And the Institute, being a public trust, is obligated to fulfill the conditions under which the gift was given.

The restrictions on such funds are not as loose as they may seem, for there are several safeguards established that inhibit misuse of such donations. If anyone, in particular, the executor of a certain trust, notices that funds are not being used for what they should be, he only needs to bring this to the attention of the Attorney General of California. Since Caltech is a public trust, the Attorney General can bring about action against it. Also, since the Institute is a non-profit organization, its accounts must be audited by a Certified Public Accountant, who would notice any such discrepancies and, in turn, report his findings to the Attorney General. The penalties for misuse of funds can be quite severe. Caltech could lose its

non-profit status and, thereby, many benefits which accompany the status, especially tax exemptions. Also, the Institute may be forced to make restitutions or possibly lose the donation to other listed beneficiaries.

Such are the intricacies and difficulties in getting money for the Institute, but someone must still have faint (or skill)—there's still money coming in.

Inner City Film Presentations

The second in the series of short film presentations will be shown at the Inner City Theatre on Wednesday, November 5th, at 8:00 PM hosted by the underground folkhero, Captain Movies.

These evenings at the Inner City are designed to give the short film maker an opportunity to have his work screened for an audience of film enthusiasts on a full theatresize screen.

If anyone would like to submit films please call 735-1621 and leave information for Glenn Johnson. The press and public are invited. General admission is \$1.00. There will be popcorn on sale in the lobby, of course.

EDITORIAL

Communicate, Dammit!

This year, as most of you have noticed, The California Tech is being printed by a new, cheaper process. More complete details were included in our first issue, but to Techers probably the most important consideration is that we should hopefully be able to increase the length of our papers by significant amounts. Eight pages should be a minimum. (At this point in the year the constraint has been on staff time, not finances.) As eight-page papers this year cost about the same as four-pagers did last year, ad revenue is no longer a strong consideration in number of pages, while it had been the primary one in the past. If we can obtain the staff necessary to do the work necessary, which we haven't yet, we can print far more this year than ever before. And we hope to.

But we want to print more than just random columns and space filler and news releases. We want to print interesting, relevant material about Caltech. We want to print news. News that you are interested in, news that you can't find anywhere else.

When I came here in '66, just before the Rhodes Era, the student government did almost nothing, there was no attempt at communication. and little need for it. Soon, however, the alphabet soup began pouring all over Caltech. Things were happening, All sorts of things. Things were happening in a manner highly unsatisfactory to some and vaguely dissatisfying to many. But still there was no communication, and virtually no competent effort at it that I ever saw. How many of you know what ARC is doing this year, or what the principal items on the ASCIT budget are, or what Reps-At-Large are supposed to do? Sure, ASCIT BOD meetings are generally open (although not always, and what about that?), and there is a contextual map of the Research Center in the ASCITOffice (or used to be), but how many of you know when the BOD meets, or where the ASCIT Office is?

No one out there knows what ASCIT is doing. Sure, most of you don't give a damn what ASCIT is doing, although you wish they'd use your dues for something that would help you (by the way, is that structurally impossible?), but some of you are interested, and might even be able to help. Or prevent some of ASCIT's grosser gobbles (for chronicles of same, see back Techs). But even if you try, you can't find out anything in less than infinite time. I know. I've tried. Well?

Well, this. Here's a chance. A school newspaper isn't the best of all possible means for this sort of communication, but it's the best we have. And it needs copy. Why not have regular columns by BOD members or ARC leaders or something? They must have something to say, or they've been deluding us even more than I thought. And I don't mean the sort of thing which says, "ARC was given 18 kilobucks by the Armadillo Foundation last month and will use the money for funding a pilot project to study the effects of fnurling in a disadvantaged neighborhood." I have never found a student leader who has the first thing to say against communication, or the first one who has really made an effort to bring it about. Here's a chance.

As for you non-leaders, here's your chance too. We'll try to print any letters sent us, if in semi-acceptable taste. We'll also try to print any questions sent through us to any student leader for answer, with space for that leader to answer if he chooses to, and an Editor's Note to such effect if he declines to answer. COMMUNICATE, dammit!

What will all this do? Nothing. Most Techers don't give even enough of a damn to write a letter, and most student leaders, while infinitely willing to be elsewhere doing other things, rarely take any opportunity to let anyone not in their in-groups in on what's going on. But we'll give you all a chance. All that we ask is that copy be turned in to us by the Saturday night before the week in which it is to appear. Let's see some initiatives taken.

> -Ed Schroeder Ira D. Moskatel Craig L. Sarazin

Bicycle Racks

Wes Hershey had a good idea recently, which we thought we might pass on to any interested parties. He had noticed all of the bikes parked all over campus. Often, the bikes are chained to fences, railings, and posts.

Couldn't bike racks be placed at various locations around campus so that bicyclists could park and lock their bikes without littering the campus.

> -Craig L. Sarazin Ira D. Moskatol

Techers Snubbed

Are Students' Interests Ignored?

As representatives of the undergraduate students here at Caltech, we wish to express extreme displeasure with respect to the tendency of administration and faculty to deal repeatedly with the students in an off-handed and thoughtless manner. particularly when matters of educational policy are being discussed.

In the past few months, several people have been brought to campus as consultants, pertaining to such matters as the future of psychology here, as was the case with Dr. Maslow. Students have repeatedly expressed their interest in these areas, and to ignore them in the discussions only underlines the obvious lack of regard in which the

students' input is held. Not that long ago, David Riesman was on campus, and it was only by the fortuitous intercession of Dr. Oliver that students managed to talk to him at all. In the case of Maslow, not even a late invitation was extended. These two are only the most glaring and there have been other cases of students being left out of related discussions.

We assume that these oversights were just that, and that we may expect that they will not continue.

Thank you very much for your kind attention.

Sincerely, Stephen Horner, Pres. ASCIT Peter Szolovits, Vice-Pres. ASCIT







CALTECH SEAL-From bigger to smaller (or left to right, if you prefer) are the original "Millikan" seal, the more recent "torch

Rouge et Noir

Candidate Gota Double Zero!

By Ed Schroeder

It is truly amazing how little idea anyone I've talked to seems to have of what really happens behind those big doors into the Trustees' Room off Millikan where Admissions Committee meethings are held the first week of third term. The generally prevailing opinions seem to be split between two extreme opinions. One group seems to feel that every applicant is exhaustively analyzed by hordes of finely-trained specialists until the possibility of human fallibility has been minimized as much as human beings can do so. The other group staunchily maintains that the final selection must be made by card-cutting, or dicethrowing, or dart-throwing, or random number generating, or some equally scientific means. Neither of these is the case, of course, at least not here at Tech. In general. There is a great deal of human subjectivity in the process of admittee selecting, and for those who distrust subjectivity numerical guidelines on scores and grades and such are easily constructible. It must be a personal decision of each member of the Committee how he proceeds to make his decisions. But there need not be as much mystery as there

An Open Letter to the Caltech Community.

Across the country the academic community, both students and faculty, has proclaimed October 15th to be a day of moratorium on normal activities to work instead towards the end of the Vietnam

The goals of this moratorium are to mobilize sentiment against the war among students and faculty, and to spread this opposition throughout the general population in a campaign similar to the one conducted by the supporters of Sen. McCarthy and Kennedy last year. Because the issue of the war is so important, we, the Caltech Moratorium Committee, believe that this campus should participate in the events of that day. The Committee is composed of a number of undergraduates, including members of both the Caltech Y's and ASCIT's executive committees, graduate students, including representatives from the Graduate Student Council, and faculty members.

We do not wish to deny anyone the right to attend or teach class on that day, but hope that members of the Caltech community will feel with us the importance of opposing the Vietnam War in a constructive way, and will join us in our planned activities.

David Lewin for The Caltech Moratorium Committee

currently is on the subject of how final work. To best convey the idea choices are made. So, Installment I can of this process, I've construc-Three on Admissions Procedures: ted a fake scenario of one pre-The Committee Meetings.

Subcommittees Work

It is standard Tech procedure to try to get as much work as possible out of the way in the subcommittees, misnamed the Three-Man Committees. In general, Committeemen have been around long enough to be able to judge applicants without great likelihood of error (there is only one new faculty member on the Committee this year, and many have been on it for years), and such members don't need the advice of other members of their 3-Man. Large disagreements over candidates are rare.

The real use of the 3-Mans, in my opinion anyway, is to equalize, in rough numbers, the number of acceptable applicants over the units of decision-making. It is impossible for sixteen busy men to sit in judgment on 600 or 700 cases individually, hence the division of the Committee into subcommittees. Last year we created five 3-Mans, with instructions that the first 40 or 50 ranked by each 3-Man would be automatic admits, not even discussed in full Committee, so well under 100 final admits were made last year in full Committee. My 3-Man simply met and began presenting cases, in roughly the order we individually ranked our candidates, and went around the circle until it was mutually agreed to give no more presentations. (It's amazing what a night of listening to presentations will do for convincing you that someone you liked while on interview wasn't really so good after all.) We voted, 1 through 5, on each person, and at the end someone who could add calculated the order in which we ranked our candidates. Of course, anyone who felt strongly enough about any individual case could bring him up in full Committee, regardless of the opinion of the 3-Man, but this is not often done.

After the 3-Mans met and discussed and finished, the Full Committee gathered to begin the

sentation, with discussion more or less complete and fairly standard, with names disguised to protect the innocent.

Dr. Miller: Well, so much for that one. Now I think that Dr. Bore is next, so we'll see what he has.

Dr. Bore; Yes, I've got one here, a Randal Troll, from Cheesequake, New Jersey. That's T-r-o-l-l. (Rustlings of paper as Committee members look up Troll's record of board scores and other assorted information on the master computer

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CĂLIFORNIA

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Come to the Caltech YMCA's **Planning Conference**

Sunday, October 12 10 a.m. to 4 p.m. (Lunch served.)

And discuss

Sex, Psyches, and Scientists

Prof. Robert S. Edgar will be the principal speaker. For further information, check at the Y or call Ext. 2163.

Phil Neches

From The Outside Looking In

At about nine o'clock, the special bull session starts. It usualy occurs in the house library, or some other appropriate room. Admission is restricted to upperclassmen. For, behind closed doors, the upperclassmen in each house rate the day's group of frosh for the eventual selection in a system called Rotation.

Every day, for seven days, freshmen and transfer students have lunch and dinner at a different house, a fact of which all Techers must by now be painfully aware. In the half hour usually allotted to lunch and the hour given over to dinner, freshmen and upperclassmen supposedly get to know one another. Frosh form an impression of the house, and upperclassmen sound out the frosh.

Theoretically

And so it goes, at least in theory. How well does it work? If the reactions of freshmen and upperclassmen by the fourth or fifth day of hearing the saspeech after a food service meal provide any indication, Rotation provides relatively little opportunity for the meeting of the minds which is its avowed goal.

Many freshmen complain that they cannot possibly get the feel of a house in an evening. They say that the houses appear basically similar, that the differences between them are small. Fleming's meals usually seem louder. Ruddock served the best sherry. Speeches sound the same from house to house: all offer some form of sports, some social program, and, in the words of the speaker, a "great place to live for your years at Tech.'

Poor Devils

Perhaps upperclassmen have an even harder time. The frosh have only seven houses to deep track of. Upperclassmen have some 240 freshmen and transfer students to account for, and must judge them on the few brief snatches of conversation between one or more olf their number and the individual freshman.

Perhaps the disenchantment of many freshmen with Rotation can be traced to the strict Rotation rules. They state in part " No house shall... Purposely present a false image of any house." Based on this, and severe penalties for prior Rotation violations, uppeclassmen handle pointed questions with great, perhaps excessive caution. Upperclassmen supposedly should inform the new students about the characteristics and traditions of the various houses.



CHESS PLAYERS!!!

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STUDENTS,

if you need HELP in fulfilling your language requirement - inquire about tutoring services at

BERLITZ,

THE LANGUAGE CENTER 170 South Lake Ave. Pasadena SY 5-5888

Because such intormation was not forthcoming, some freshmen feel that they lack some of the most needed information about the various houses: outside criticism. In the past, rumors of doubtful authenticity may have prejudiced some freshmen. This year, a lack of information may prove as distorting, and certainly has made the task of I suppose? choosing a house more difficult.

Tradition

Nevertheless, Rotation with all its faults is an integral part of life at Tech. Asystem in which freshmen spent more than a day at each house would simply take too long. On the other extreme, arbitrary assignment to rooms by the Master of Student Houses would be even more repulsive: students would not feel a part of the house they landed in but rather, transients with no stake in their house.

As this is printed, Rotation has creaked to its inexorable end, and the antics of moving and re-settling have given way to the joys of initiation. Sometime, in the far distant future, when freshmen have recovered their equilibrium if not their wits they will remember their Rotation weeks with all of the fondness of Senator Gaylord Nelson contemplating the Electoral College.

But, all of the affected cynicism aside, Rotation has been an experience not soon to be forgotten. After all, Rotation teaches that Food Service and the B.&G. strike terror equally every where and yes, you, too can intimidate a frosh. But you will have to wit until next year.

Ad Hoc Committee

Starting Friday, Oct. 10, the meetings of the Ad Hoc Group on Possible Campus Disruption will be held on Fridays at 3:00 p.m. instead of Thursdays at 4:00 p.m. (This schedule could be changed after October.) As previously, the meetings are open and will be held in the Trustees Board Room of Millikan Library. Students are especially welcome to join, listen, and participate.



Farkle Admits . . JON POST

Continued from page 2

print-out.) As you see, his scores are all right, though not outstanding: low 700s in SAT math and Physics, 778 in Chem, 664 in SAT verbal, 760 level II. Grade code is a 3, so he's not all-A. Turns out he got two B's in a frosh French class. No problem there. Everything else A, second in his class at Coolidge High, but that doesn't mean a whole lot. OK. All that is more or less in

Dr. Fnork: You interviewed him,

Dr. Bore: Yes. It's the first time I'd ever been there. In fact, when I finally got there, I couldn't find the guidance office. I swear it was under a staircase somewhere. Randy was waiting for me, and found us an empty corner somewhere. He's an awfully nice kid, quiet, with big thick glasses, and he was rather tense. I liked him, and in terms of personality I think he'd be right at home here.

Dr. Fnurl: Any projects? Interests? Reasons we should really like

Dr. Bore: Well, yes. The usual Math Club and Physics Club and all that, which of course doesn't mean anything. Plays clarinet in the bandmade All County Band one year. That mean anything?

Schroeder: Not in my county it

Dr. Bore: He seems to have been interested in these things all the time, not just after some guidance person told him colleges look for activities. Let's see. He audited a few courses at Cheesequake State Teachers' College. That indicates interest if nothing else. Never had a job, doesn't need one. Or scholarship money either, although of course we're not supposed to let that affect our voting on admission. Ran distances in track, had a 6:21

Dr. Farkle: Is that good? Someone: No.

Dr. Bore: Hmm. Says here he's interested in chem. Since he's not a physicist that gives him a slight plus, but not much of one.

Dr. Fester: I don't know about that. (Dr. Fester is a chemist. But he's kidding. Probably.)

Dr. Fframmis: Got a Merit score, or anything like that? Dr. Bore: Oh, yes, his Merit is

Dr. Fnurl: Good enough to be a plus.

Dr. Bore: Yes. To summarize, then, he's not a tremendous prospect, or a terribly exciting one, and he probably won't do a great deal for us while he's here, but we'd be a good school for him. He's a nice, decent kid who'll have a few activities and do well academically, I think, even if he doesn't change the world. That's about it on him. I like him and think we should admit

Dr. Miller: OK, then, let's vote on Mr. Troll. (Grudgingly, the vote is 15-4 in favor. The Committee prefers more exciting people.) Very well, unless we have a great number more very good people, Mr. Troll will occupy one of our remaining spots.

NOW THRU OCT. 12 HARLES LLOY **PLUS** AMANDA AMBROSE COMING NEXT DION DOUG WESTON'S

PROSTSCRIPTS

Ye Gods!

"It's tough on ancient gods these days," I once remakded to Baal-Mikal, another war god, you'll recall, "one gets to feeling out of phase." Why, all we old Egyptian guys have long since ceased receiving praise from man, and I am sore amazed he dares to look into the skies he knows we made if he still cares. I doubt it somehow, he's forgot that all he knows is what we taught. That low-down primate somehow fares without the slightest sacrifice or festival, or minor prayer to we, who rule the earth and air and now, to pass the time, play dice. What man remembers Taweret, or worships once, or worships twice, Buchis, Merwer, Neith of Sais or Bast, or Re, or Ptah, or Set? Man thinks that he's outgrown us all, that gods must, in their turn, beget a higher state of mind, regret he does not feel, he's grown too tall and old to think of such as gods and so within this mental wall he paces, too adult to crawl, oh, men are such remorseless clods. Ah, well, mankind is nearly lost, ignore him, concentrate on odds, so roll those bones and toss those rods. Remember, please, that we're still boss, no need to get upset or cross . . . "Hey, Sokaris, it's time to snooze, so be a good guy, pass the booze.' (I thought that Thoth was off the sauce.) And, what the hell, it's not my toss.

NOTICES

PLANNING AHEAD? NEED MONEY??

Dean Bohnenblust will discuss fellowship possibilities for next yearmeeting on financial aid on Friday, Oct. 10, at 12:30 p.m. in Room 22 Gates. There will be clues on how and when to apply as well as a question and answer period. Grads and undergrads

REMEMBER THE RALLY

Protest oppression of Soviet Jews this Sunday starting at 3 p.m. at the Fairfax High School field, corner of Fairfax and Melrose in L.A. Parking available at CBS, Fairfax and Beverly. More information at 663-8484, ext. 238 or else on campus from Roger Goodman at ext. 2170.

STUDENT DARKROOM

For Keys to the student darkroom, contact Fred Klein, darkroom chairman. Come to the public affairs room, Dabney Hall, between 7:30 p.m. and 11:00 p.m. Wednesdays, or call 795-4458. Membership dues are \$1.50

COMMITTEE TO ABOLISH P.E. REQUIREMENTS

There are a goodly number of undergrads who have been through the wringer with P.E. and feel that the present requirements are absurd. If you would like to get rid of an archaic and unnecessary obstruction, there will be an organizational meeting Thursday, SUNDAY, Oct 12 October 9 (Tonight) at 8:30 p.m. in Winnett Clubroom 2.

NEWMAN CLUB STRIKES AGAIN

The Caltech Newman Club will start off the year this Sunday with a twang! The guitar mass starts at 6:30 MONDAY, Oct. 13 p.m. in Winnett lounge. All are invited

S. C. A. R.

The Caltech Y's S. C. A. R. (students concerned about racism) will hold its organizational meeting tonight at 7:30 in the Y lounge. The group has several activities planned this year to sensitize the campus to America's racial conflict If you care, be there. All invited to attend.

PHOTOGRAPHERS

Any person interested in being a photographer for the Big T or the California Tech should contact Stephen Dashiell in 50 Blacker no later than midnight, Saturday, October 11. If no one is there slip a note under the door.

THURSDAY, Oct. 9

"Soil Mechanics Results From Apollo 11" Seminar with Dr. R. F. Scott. 206 Thomas, 4 p.m.

"Review of Preliminary Observations on Lunar Samples" Physics Research Conference with Dr. G. J. Wasserburg. 201 Bridge, 4:45 p.m.

FRIDAY, Oct 10

"The Steam Automobile" Special seminar with Mr. William Lear of Lear Enterprises. 153 Noyes, 3 p.m.

SATURDAY, Oct. 11

Water Polo Tournament, Alumni Pool and Pcc Pool, 9 a.m.

Modern Jazz Quartet and the Los Angeles String Quartet perform together at Beckman Auditorium, 8:30 p.m. Admission \$4-\$3-\$2.

Soccer, undergraduate: CHM at Tech, 10 a.m., open: Cambria at Tech, noon.

Immaculate Heart Trio, Dabney Lounge, 8:15 p.m.

"Mars-Dead World or Incubator?" Lecture by R. J. Parks, Beckman Auditorium, 8:30 p.m. (Reserved seating is available to members of the Tech community, contact the ticket office)

WEDNESDAY, Oct. 15

"Taxes and Domestic Priorities: Education, Anti-Poverty Programs, or Neither" YMCA Luncheon Forum with Dr. L. E. Davis. Athenaeum, noon. Lunch cost \$1.65, make reservations by Tuesday noon with the Y office, ext.

FURTHER Research Indicates that spolled

Backwards is MAHT! THEM has US arus son and au

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of the THEM-AND-US mentality is welcome .

good night, James Rector. were ever you are ... The walk

Laugh-In Crew Socks Another Version To Us

LAUGH-IN '69: Judy Carne, Arte Johnson, Ruth Buzzi, Dave Madden, Henry Gibson, Goldie Hawn, Alan Sues, Gary Owens, Chelsea Brown, Dick Whittington, and Joanne Worley, with Special Guest Connie Stevens, Reprise

Producers George Schlatter and Ed Friendly have found yet another way to milk the Laugh-In money machine. It works.

Anybody who even faintly enjoys Laugh-In will love this record. Some of the funniest lines from all of last season are in Laugh-In '69; to a large degree, the pace and irreverence of L-I are maintained. Unfortunately, since this is wholly aural, the visual photographitti and much of the humorous edge are sacrificed. Indeed, it is quite frustrating to hear Plummer and cellist Lucien Laporte the body decal-rock dance music without being able to see it. Furthermore, much of the humor is lost when we can't see Arte Johnson and Ruth Buzzi in the "Lech" BIT or Miss Carne as the "Judy Doll". It is also irritating to be forced to hear the laugh track; perhaps this is useful on television, but on a phonograph it is a great distraction.

I would recommend this album to anyone who is a Laugh-In fan.

Caltech to Have Its Own Fanny

Dear Students,

In next week's edition of the California Tech I will be starting a special column. In my column I will provide answers to your questions concerning any of your problems. If you have personal questions you would like to have answered and choose to remain anonymous, I will supply advice in this column both for you and your friends at Cal Tech who may have similar problems. I am looking forward to hearing from you soon.

Fondly, Fanny

Everybody has a problem. What's yours? For a personal reply write to Fanny, c/o California Tech, Winnett Center, California Institute of Technology, and enclose a self-addressed, stamped envelope.



Dan O'Neill **BODKINS**

Tickets Still

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City Orchestra



Visual, Dramatic Effects Highlight

Outstanding Program Opens Beckman

by Alan Lederman

Some season tickets remain for the Pasadena Symphony Orchestra's 1969-70 season. The orchestra, under the direction of Richard Lert, will perform six subscription concerts in Pasadena Civic Auditorium, Wednesday evenings at 8:20. The season, which features artists of international reputation, will include performances of the Brahms Double Concerto with violinist Stanley and Joseph Jongen's Symphonie Concertante for Organ and Orchestra, with Virgil Fox, organist. The Pasadena Chorale will perform with the orchestra in its annual presentation of the Messiah and an Easter concert featuring prominent local

The Opening Concert, October 22, will feature an all Beethoven program, including Symphony number 1, Piano Concerto number 1, and Symphony number 8, with pianist Jacob Lateiner as soloist. The closing program on April 22 will be an all Wagner concert including a concert version of Act II of the seldom-heard Flying Dutchman, with the Metropolitan Opera's Walter Cassel in the title role and leading international opera singers.

Season tickets at \$18.00, \$13.50, and \$9.00 are available from the Pasadena Symphony Association, 301 E. Colorado Blvd., Pasadena 91101. For information call 793-7172.



Beckman Auditorium opened its 1969-1970 season with an outstanding program of modern theater and music. The first was noted for its fine visual effects, the second more for its outstanding dramatic effects. Both were noted by fine acting, voice, and direction.

Trouble in Tahiti, the first, written by Leonard Bernstein, concerned the breakup of a typical suburban marriage. "Trouble" was presented in the form of a classical opera, but with more modern visual effects. Not infrequently both husband and wife would be on stage with the spotlight alternating between them. Beside the main stage was the piano accompaniment and a trio consisting of two men and a woman. The chorus had the function of interrupting the opera sequence at opportune moments, to comment on suburban American life. For example, after husband and wife resort to blatant lying to avoid a luncheon engagement, the chorus broke in sarcastically with Madison Avenue's "fluoride toothpaste and vitamin B; who could ask for

Another interesting visual effect introduced in this play was the use of a motion picture projector showing color films of the players to fill in gaps of time sequence. This was used most successfully at the end of the play. As the husband and wife san of reconciliation, we were given a color movie of a peaceful love sequence on a beach.

Both Marni Nixon and Sandy Kenton were in good vocal form. Both displayed a good deal of dramatic talent, as well.

The second piece, Kurt Weill-A Rehearsal, by Paul Hunter, had a very unusual structure. Within the framework of a typical rehearsal of a Kurt Weill program, actors Sandy

Kenton, Marni Nixon, and director Alan Bergmann were allowed total creative freedom. In fact, director Bergmann told me after the play that about forty per cent of the Friday night performance was improvised. The fact this was a tribute to the wit of the three.

This structure gave the viewer new insights into the stage. For example, at one point Marni Nixon sang "The Alabama Song." "That's no good," said Bergmann, "what's that song about?" "The decadence of the German middle class leading to Naziism," said Miss Nixon. "Wrong. This song is about a woman who has had one drink and wants another. Do you think she

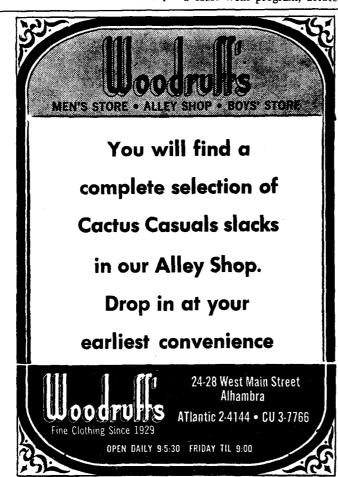
cares about politics?" "No, of course not." Bergmann again: "She is just thinking about another drink. Kurt Weill's songs have lived long because of their humanism. Remember that and go through it again." Marni Nixon did so and the piece improved noticeably. And the audience, Mr. Bergmann, and Miss Nixon learned a valuable lesson in theater.

Other revealing tricks were given. Alternate ways of presenting the same piece were given, so the audience could see the relative merits of each. We also saw how director Bergmann set the mood of each song by giving the actor a skit

Please Turn to page 5

🕮 FROM SAN FRANCISCO:





National Leaders Sound Off On Moratorium

war movement generally, and the Moratorium specifically, gained an incredible amount of momentum. On Wednesday, September 24 Congressman Allard K. Lowerstein (D-N.Y.) announced his support for an immediate withdrawal from Vietnam. On Thursday, Senator Charles Goodell (R-N.Y.), a former moderate on Vietnam, announced the introduction of a bill (S-3000) that would give the administration 12 months to withdraw all troops. This bill provides that all military appropriations to maintain our forces in Vietnam would be terminated by December 1, 1970. This is the hardest "peace position" yet to be introduced into Congress.

On Friday, at the President's first news conference in three (3) months, he was asked, "What is your view, sir, concerning the student moratorium and other campus demonstrations being planned for this fall against the Vietnam war?"

He replied, "Now, I understand that there has been and continues to be opposition to the war in Vietnam on the campuses, and also in the nation. As far as this kind of activity is concerned, we expect it. However, under no circumstances will I be affected whatever by it."

On Friday afternoon Senator Fred Harris (D-Oklahoma), Democratic Party Chairman, convened a meeting of Democratic Senators and Congressmen. The Saturday New York Times reported:

"Out of the meeting came a decision by these Democrats to join cause with the nation-wide student anti-war protest on October 15 and to press in Congress for resolutions calling for an end to the war and a withdrawal of American troops. ."

While the Congressional protest group is small in numbers, its members are influential in the party's policy-making circles. Among those present were Senator Edmund S. Muskie of Maine, the Vice-Presidential candidate last year; Sen-

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During the last week the antir movement generally, and the achusetts and Senator George S. pratorium specifically, gained an McGovern of South Dakota.

The resolutions being drafted by the Democratic critics are expected to be along the lines of Senator Charles E. Goodell's resolutions calling for the withdrawal of all American troops from Vietnam by the end of 1970. Although they may not choose the same terminal date as the Goodell resolution, the Democrats' resolution is similarly expected to call for a systematic withdrawal of the American troops by a certain time.

It was apparent that the Goodell resolution introduced yesterday by the New York Republican had taken the lid off the Vietnam dissent that had been building up on both sides of the aisle in Congress. . .

Among the others participating in the meeting were Senators Walter F. Mondale of Minnesota, Birch Bayh of Indiana, Claiborne Pell of Rhode Island and Mike Gravel of Alaska, and Representatives Allard K. Lowenstein of Nassau, Brock Adams of Washington, Edward P. Boland of Massachusetts, John Convers Jr. of Michigan and Rober W. Kastenmeier of Wisconsin.

On Saturday, Sam Brown and David Hawk held a press conference to reply to Nixon's assertions and to report on the progress of the Moratorium (see enclosed text of their statements). This press conference received wide coverage and we have reprint the cover story which appeared in the Sunday Washington Post to further bring you up to date with the fast breaking developments.

"Once again the students of this nation will go door-to-door to call for peace in Vietnam. This constructive effort to work for an end to this senseless war is truly a high form of patriotism."

Senator Charles Goodell "The type of non-violent action which the Moratorium asserts is not only highly commendable but also sorely needed."

Senator Mark O. Hatfield "The Vietnam Moratorium is the most significant demonstration of opposition to the war in Vietnam since the primary results of 1968. It is the only way that the people of the country can demonstrate a sec-

ond judgement on the war in Vietnam to those who hold political power."

Senator Eugene J. McCarthy "I would hope that the Moratorium observance will make clear to the Administration that in the continuance of this senseless bloodshed lies the seed of national tragedy. It is an effort which merits the responsible participation of all Americans who are anxious to reverse a policy of military attrition and moral disaster."

Senator George S. McGovern "There is no chance of achieving full participation for all of our citizens in our own system here in America so long as our government is preoccupied with interfering in the affairs and aspirations of the poor people around the world. I, therefore, hope that all Americans will join in and support the activities of the Vietnam Moratorium Committee."

Cesar Chavez "The moral, physical and economic health of America depends upon an end to the war this year, not next year or the year after. ADA urges its members and local chapters to give full support to the Vietnam Moratorium."

Joe Duffy, Chairman, ADA "Everyone who has been lecturing students on the wickedness of violence should welcome this opportunity to reassert peacefully their opposition to the continued pressure from the military leadership."

John Kenneth Galbraith "This moratorium is an unusual opportunity for those of us who believe that public policy can be made to yield to citizen action without violence or coercion. It opposes the superior moral force of peace to the alluring insanity of war"

Richard N. Goodwin "With the kind of pain we are undergoing here in Mississippi, to have black and white men dying in Vietnam is a shame and disgrace. It is essential that we support the Vietnam Moratorium Committee's efforts to end the war."

Fannie Lou Hamer "Let us all support the students who are trying to stop, by their Moratorium, this disastrous, costly and pointless war."

Reinhold Neibuhr

"On October 15, the American people will have a chance to make President Nixon stop the killing and end this immoral war."

Paul Schrade, United Auto Workers, Western Division "Only public pressure for immediate withdrawal will persuade Nixon to end the war. The Vietnam Moratorium will help build that pressure."

Benjamin Spock, M.D. "By the awful grace of God, we are the survivors. Others have given their lives for us in Vietnam and here in America. On October 15, we begin to pay our debts."

Adam Walinsky "Ours is a government that has imposed immense suffering on poor people in Vietnam and poor people in this country. On October 15, we must demonstrate, dramatically and directly, our outrage against these policies and our commitment to change the nation's priorities."

George Wiley, Executive Director, National Welfare Rights Organization

Marni, That Is

to follow. "Relate," is his advice. "That's what rehearsals are for." These skits increased tremendously the power of the song. Rarely have I seen such a good mesh between setting and son.

The most enjoyable part of "Rehearsal" was a playful duet of "Jenny" with Sandy Kenton and Marni Nixon. The rapport between the two was delightful to look at.

The concluding pieces of the work, however, did not fare so well. Three songs were presented with no interaction between Bergmann and the actors. The pretense for this was that the actors knew the pieces. It was not a particularly revealing series nor very well done. The last sequence depended solely on a good audience response to Kurt Weill. For my part, and I think for my generation, the response was not forthcoming. One must say the successes of "Rehearsal" were much more successes of Bergmann, Kenton and Nixon, (in that order) and their new dramatic technique rather than Kurt Weill. Also a big disappointment was the lighting effects, which but for a few instances was irrelevant to the action.

Bergmann envisions various other applications of his free-form dramatic technique in the future. At the present, one can conclude that for a captivating evening of charm and wit, "Nixon's the one!" Marni Nixon, that is.

[sick] [sic]



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IN THE OCTOBER

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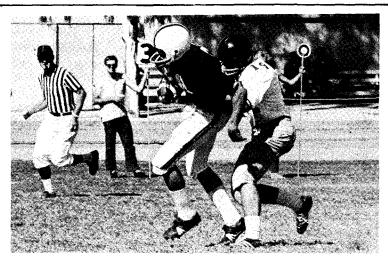
Caltech Water Polo Squad Downs Alumni After Loss to Valley State

by Mike Stefanko

If diversity is the spice of life, then Caltech has one of the saltiest teams in the league. Last Wednesday, a wimpy, slow-reacting, confused Tech varsity handed an 8-3 victory to an aggressive but otherwise undistinguished team from San Fernando Valley State. The opponents were rough, and tech let them gain the advantage, time after time. The defense suffered a costly lapse, and much of the spirit went out of the team.

Bouncing back, the varsity manhandled the Alumni, 5-2 on Saturday. The varsity faced perhaps the best alumni team in years, with

super-star, Henry DeWitt, and other past stars such as Rich Touton, Rich Neilsen, and Bruce Cheseboro returning for the battle. But this time the varsity faced up to the competition. Everyone was superb on defense allowing few good shots and those were blocked by Ker Hansen in what is becoming a standard great performance. Larry Watkins, Steve Sheffield, and Bob Hall showed their accressiveness on offense, while the ball-handling of the club has improved so much that the varsity had nearly complete control for the second half. Things are improving and the season should be a good one.



BOB VANCE puts up a brave struggle as he tries to break away from a Whittier tackler at

Beaver Offense Falls Short In 6-2 Loss to Whittier

by Dave Dixon

The Beaver football team lost its first game of the season to the Whittier JV's, 6-2, last Saturday. All of the scoring action came in the first quarter as Whittier scored on a 45 yard pass for a touchdown. They failed in the conversion attempt when the ball hit the goalpost. Tech scored on a safety when the Whittier punter lost the ball and was tackled in the end zone.

It was the Beaver defense which saved Caltech when an offense was not generated. They stopped the Poets three times within the 10 yard line to prevent touchdowns. They only allowed 201 yards and gave the Whittier quarterback 93 yards worth of grass stains.

Looking at the statistics shows the Whittier domination of the game. They had 12 first downs to Caltech's 8 and 108 net yards gained to the difference came in the passing figures

as the Poets went 11 for 29 while Tech was only 3 for 12. The Tech quarterbacks each had minus yardage. Another reason for the Poets' inability to score was their 116 yards of penalties which does not include all of the vardage nullified by them.

Tech's poor offensive showing prompted Coach Gutman to name Bob Bales the new Beaver quarterback and to make Gary Adamson an offensive tackle. He also bolstered the defense by putting Dan Nagle at defensive tackle. Coach Gutman called this year a refreshing year and said that this was Caltech's youngest team and they would make mistakes.

Coach Gutman named the following players as players of the week both for their skill in the game and for their attitude in practice: Paul Dressendorfer, Dennis Pocekay, and John Morton.

The Beavers play the Redlands Beavers' 60. However, the big JV's at Tournament Park on Saturday.





Knicks, Lakers Pegged

By Etaoin Shroedlu

This season in the National Basketball Association is going to be one of the least predictable even that unpredictable league has had recently. All sorts of questions are waiting for answer, which defy prediction, such as: How good is Connie Hawkins? How many games difference will Alcindor make for Milwaukee? What happens to Russell-less Boston? How good will L.A. be this year? How much better will Phoenix and New York be? And so on. Crossing my fingers, East

- 1. New York
 - 2. Baltimore
 - 3. Philadelphia
 - 4. Milwaukee 5. Boston
 - 6. Cincinnati
 - 7. Detroit

- 1. Los Angeles
- 2. Atlanta
- 3. San Francisco
- 4. Phoenix 5. San Diego
- 6. Seattle
- 7. Chicago

1. New York. A great basketball team needs three key performers: the center to rebound and play defense, the guard to control the offense and play key defensive slots, and the cornerman to hit the boards and take opposing high-scorers. Spell that Willis Reed, Walt Frazier,

and Dave DeBusschere. Behind these three All-Stars the Knicks have scorers such as Cazzie Russell, Dick Barnett, and Bill Bradley, to say nothing of bench strength in Nate Bowman, Phil Jackson, Mike Riordan, Don May, and Bill Hosket. If No. 1 draft choice John Warren can play a professional guard, which is doubtful, the Knick bench will be overflowing. As it is, it is merely superb. And last year, after the management dumped Bellamy, the team was the best in the league with no bench. For scoring, Reed is one of the better centers in the league, and he and Frazier both are excellent percentage shooters, a bonus. This team has everything a team needs, talent and class put them first in a tough East.

2. Baltimore. The Bullets, a surprise first-place finisher last year, showed a remarkably well-balanced lineup. This year, however, for the first time in years, the Bullets did not help themselves in the draft, and the bench is weak; an injury to a guard, for instance, would kill the team. Earl Monroe and Kevin Loughery need more help in the backcourt, and last year's NBA Player of the Year, tiny center Wes Unseld, should find his second trip through the league harder than the first. Only up front, where Gus Johnson, Jack Marin, and Ray Scott hang out, is both talented and deep. Baltimore is young, and many of their players could get better, but they have to lose ground to the

Please turn to page seven.

Harriers Drop Two. Hope For Win At CHM

The Caltech cross country team got off to a slow start for the season, dropping their opener to Biola 21-34, and their first conference meet to Whittier 24-31 (low score wins).

On a hot day, on the soft, sandy home course at Brookside Park, Biola overpowered Caltech, with Davis taking first in a slow 25:07. For Caltech, slow-starting Martin Smith and Gary Pope moved up through the badly tiring field to take 3rd and 5th. Veterans Ratchford Higgins, Dave Hermeyer, and Tim Tardiff completed the Caltech scoring.

Unfortunately, three Caltech runners suffered minor foot or ankle injuries, due to loose rocks on the course, but all were able to run in the next meet, Friday, at Whittier.

Whittier, paced by Doug Perez, beat Caltech in a closely contested meet. Tardiff, looking more his normal self, led the Techers taking 3rd, with freshman Pope, Smith, and Higgins finishing 5th, 6th, and

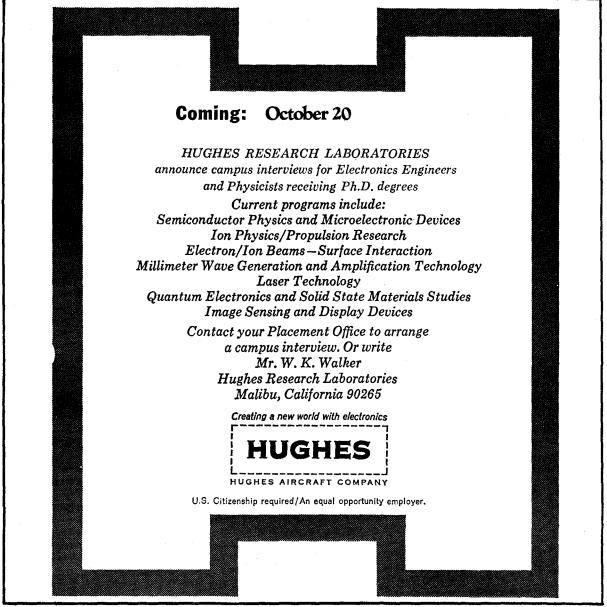
One hopeful sign was the close bunching of the Caltech finishers. Another is the rapid improvement of several of the freshmen, especially Dave Evans, Charlie Almquist, and Dan Reichel, which should help to close the gap between the 4th and 5th men, since Hermeyer will not give up the spot without a battle.

The team is looking for its first win tomorrow (Friday, 10 October) against Claremont-Harvey Mudd at Brookside. Tuesday, the harriers host Pasadena College and Azusa Pacific College in a "double-duel".

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New York, L.A. Picked To Lead NBA

Continued from page six.

Knicks.

3. Philadelphia. The apparent 76er dynasty of a few years ago never materialized, and now the pieces are disintegrating. Hal Greer anchors a still-good backcourt, Billy Cunningham and Jim Washington, the ex-Bull, are two fine regulars at corner, and there are three centers. However, none of those centers are of top NBA caliber, 1st draft choice Bud Ogden won't be much help, and age is creeping up on a key 76er, Greer. Only incredible per-Cunningham and Greer, plus incredible team spirit, kept Philly in it last year, and it seems a bit much to expect a repeat this year, especially with Cunningham and center Luke Jackson having made plans to jump to the ABA. Philly will definitely be good again, but good is not enough.

4. Milwaukee. Is Alcindor worth an improvement of three positions and a playoff spot? Maybe and is improving too, anyway. This is a rookies last year. Only veterans Guy Rodgers and Len Chappell may be expected not to have benefitted from last year's experience. Rodgers, if he returns, backs up two good scorers in Flynn Robinson and Jon McGlocklin, who averaged almost 40 points a game between were commendable percentage floor The team defense is

suspect, especially with Robinson. However, shooting percentage was a commendable feature of the Bucks even before Alcindor, last year, and

the Smiths, 6-9 Don and 6-5 Greg, will help Big Lew get the rebounds. Charlie Paulk, who missed all but 17 games last year with injuries, was their No. 1 choice, and if indeed he is better than the others, he is good indeed. Unless Alcindor equals Chamberlain, Russell and Thurmond all put together, the Bucks' defense won't win many games, but this is a good offensive team which can play the boards and use muscle. And having Alcindor is a good start.

5. Boston. Without Russell, the Celts are this high only on memory, and G.M. Red Auerbach, who is sonal performances last year from gallantly manning the controls still, and has already hornswoggled his MBA counterparts three times since last year: drafting Jo-Jo White of Kansas, the second best player in the draft, after finishing in the playoffs because of an impending 2-year service commitment, then getting him into a Reserve unit, picking up forward-center Steve Kuberski, 6-8, No. 4 in the draft, and getting seven-footer Henry maybe not, but the rest of the team Finkel from San Diego for cash and a draft choice. Those three will help young team; in fact it carried six to patch the ship left foundering by the retirement of Russell and clutch guard Sam Jones. Vets John Havlicek, Bailey Howell, Satch Sanders (if he plays), and Larry Siegfried will provide know-how, but how much spirit will remain under new cch Tom Heinsohn remains to be seen. This club still the two of them last year, and both has good defense and lots of experience, but even a good supporting cast needs a good big man. (If Boston finishes low enough get Bob Lanier of St. Bonaventure next year, look for n more titles in a row.) They'll do their best, but this year that's not

6. Cincinnati. The Royals still have only two good ballplayers: Oscar Robertson and Jerry Lucas. It was shown long ago that you need more than that to win, but the Royals still don't have the message. Guard Odie Smith and guard-forward Tom Van Arsdale are two good supporters, but there is nothing else, nothing especially in the center, where the Cincy bunch is probably the worst in the NBA. Bad drafting has hurt greatly- this vear they took Herm Gilliam of Purdue (who?) ahead of White, even though 6-3 Gilliam will have to be switched to guard, a new position.

7. Detroit. Enough said. No spirit, no defense. The only player a winner would really want is guard Dave Bing, who is contracted to jump to the ABA. Center Walt Bellamy can rebound and score and shoot for good percentages (second to Chamberlain in NBA history) but cannot move or play defense, and no other person is worthy of mention. I believe that I heard that their first choice this year, forward Terry Driscoll, is going to play ball in Italy. Up front in Detroit is weak, so is the backcourt outside of Bing, and there is no reason to believe that better times are immediately ahead.

West Division

1. Los Angeles. Now or never. The question is, is it now? West and Baylor are about done, but if they stay healthy, and new coach Mullaney can make the team act as if it is a team, L.A. will be very hard to beat. Those are big, big ifs. There is no doubt that failure of

either Baylor or West to play superstar ball would seriously hurt the Lakers, and Baylor's poor performance in last year's playoffs is a nagging worry. Elg is, after all, 35, and while he has made incredible comebacks before nobody can beat age forever. Tom Hawkins' retirement removed a solid team player, but a good rookie crop and 7-0 Mel Counts, 6-7 Bill Hewitt and the guards, large Keith Erickson and small Johnny Egan, are undistinguished but competent supporters to the three-ring circus. Fred Crawford may yet bounce back from a wretched campaign and show why Los Angeles protected him over Gail Goodrich in the last expansion draft. And Chamberlain, of course, can still play. L.A. continues to draft very well, trade randomly, and protect in expansion drafts stupidly, but there was no expansion draft this year, and the cast is there for a Last Hurrah for the deserving vets, West and Baylor.

2. Atlanta. Unlike the Lakers, one problem Atlanta will never have is that of team spirit. This cast lacks both size and top-notch talent, but is long on muscle and sell-balanced, and will be there if L.A. slips. Center Zelmo Beaty should be in the corner, being too small to play center at 6-9, but year after year he takes on the big boys and wins his share of contests. The Hawks can win with him. A big reason is the muscular front line, featuring All--Star Bill Bridges, who goes to the boards for a monotonous 1000 rebounds year after year, a figure only 10 men in the NBA reached last year. The other cornerman, Lou Hudson, is not a great rebounder, but is very quick, plays very good defense, and is a 20-point per game scorer. Swingman sub Gary Gregor, a soph picked up in a trade with Phoenix, could be a good one, and 6-9 sub center-forward Jim Davis is developing into a terror on the boards, and will be heardfrom in the future. The backcourt is less strong, but Walt Hazzard should be better with a year of Atlanta's methods under his belt. Rookie Butch Beard and 6-5 swingman Joe Caldwell, an All-Star, will share the other guard spot, with ancient Don Ohl in reserve.

3. San Francisco. Is it up or down from here? The center is there; Nate Thurmond right now is unquestionably the best center in the NBA. His physical condition is suspect, however, and a great deal of the team's chances depend on whether he goes up or down from here. The team regularly drafts very well; this year they got 6-5 cornerman Bob Portman, a top rebounder who can score, Ed Siudut, and Tom Hagan, all of whom can be good NBA players. The retirement of cornerman Rudy LaRusso, recently announced, will hurt the front line, but guard Jeff Mullins is an All-Star, and Clyde Lee, Al Attles, and Jim King are good players. Corner Bill Turner should see more action, and may develop. If Portman is quick enough, he and 6-9 Lee could give the Warriors the best rebounding strength in the league. Age is showing a little bit and the team is never healthy, but his team still looks as if it is going up, not down. As soon as Rick Barry returns this will be a rough team.

4. Phoenix. If the Suns finish fourth it will be probably the greatest improvement that any NBA team has ever recorded in one season, even greater than that of Baltimore and San Diego last year. But those rises were triggered basically by one new, super-star face, Wes Unseld and Elvin Hayes, respectively, while Phoenix this year has added more. Connie Hawkins is a great one, especially if he can play the corner, and will score a ton of points, rebound well, and play good defense. He is as good as Hayes. Also added this year is center Neal Walk, 6-10, from Florida, the No. 2 player taken in the entire draft. If Walk, who can score and rebound, has the desire and strength to play the good defense in the middle, so that Hawkins can go to the corner, any resemblance of this year's team to the misfits of last year is purely accidental. Another new player is cornerman Jerry Chambers, the ex-Laker who returns from two years in service, and could well be a good NBA player again. The third regular up front will be Paul Silas, also new to the club but one obtained in a trade, as opposed to 'free.' Silas is also an excellent rebounder who will give the Suns an entirely revamped front line. Moving to the backcourt is Dick Van Arsdale, who scored over 20 a game last year, to team with 24-a-game guard Gail Goodrich. Regular Dick Snyder of last year will provide bench strength and muscle when needed. Young 6-10 center JIm Fox, the regular last year who was overmatched virtually every game, should be a competent sub. An entirely new team, infinitely better than last year's. How much better exactly, no one knows.

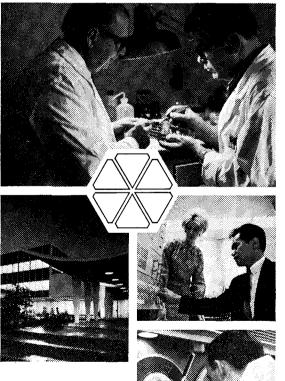
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5. San Diego. The Rockets made the playoffs last year, but seem destined to yield their spot to Phoenix this year as they have not improved themselves. The Big E, Elvin Haves, is still the most fearsome forward playing center in the NBA, and isn't a bad center either. In fact, last year he was No. 1 in scoring and No. 4 in rebounding in the league. But his supporting cast still features a lot of guards named Joe (except perhaps Jim Barnett, a good outside shooter), and the others up fron aren't so hot either. The best is vet, 6-5 Don Kojis, a good scorer. John Block, 6-9 forward-center, isn't strong enough at forward, let alone center. Toby Kimball, the 6-8 ex-Celt, could relieve Hayes of the regular center job, except that he's not as good as Hayes there, and it would take tremendous playing by the E in the corner to make up that deficit. The dumping of 7-0 Henry Finkel, a good shooter who could rebound even if possessed of no obvious defensive talent, puzzled me greatly. No. 1 choice Bobby Smith, 6-5 cornerman, may score some but only duplicates Kojis' talents in the corner, unless he can play guard. He may be tried there.

6. Seattle. Primer on how not to improve your team: 1) Take one of our two good players, 6-9 Bob Rule, and play him out of position. 2) Take the other good player, vet Lennie Wilkens, and make him coach. 3) Trade your best rookie of last year, 6-8 Bob Kauffman, for a 32-year-old player and a useless sub. 4) Take your No. 1 this year, the third of all players chosen for the second year in a row, and use it to get a question mark of the highest caliber, guard Lucius Allen. With all this, only the horrid luck of the Chicago Bulls in signing players will keep the Sonics from falling into the basement. Rule is a tremendous offensive player who just doesn' belong in the middle, although like Hayes and Beaty he gets along. His defense and rebounding, however just don't compare with those two's game. And no relief is in sight. Seven-footer Ron Taylor was drafted out of USC to help, but signed with the ABA. Kauffman was

Please Turn to page 8

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MEMOREX

Lakers Called Best In The West

Continued from page 7

one of two cornermen Seattle had who could rebound, and newcomers Bob Boozer and Barry Clemens cannot. Vet Tom Meschery, the only other solid player on the team, threatens retirement every year, and some year very soon will do it. And Boozer is old. So is Wilkens, although Lennie hasn't lost any quickness yet. Coaching cannot help his concentration on the floor however, and the rest of the Sonic cast is about as to be expected: poor.

7. Chicago. Only the grimmest of ill-fortune kept the Bulls from improving this year. Last year they we're remarkably well-balanced: They needed help everywhere. In drafting they shored up the backcourt with Larry Cannon and the

underrated ballplayer, only to see both Cannon and Hill sign with the ABA. Not only that, but virtually no other NBA team lost anywhere near as much talent. The year won't be a total waste, however. Trades brought in a new forecourt, Bob Kauffman and Chet Walker, both of whom figure to improve on their records in new surroundings. Kauffman, who never got a real chance in Seattle last year, will be the rebounding muscleman, while scoring and quickness will come from Walker, who was a bind last year in Philly because his talents too closely matched those of star Billy Cunningham. All-Star guard Jerry Sloan returns, as does Clem Haskins. a steady-as-rain scorer who is suspect on ball handling and defense. There is no bench anywhere. In the middle is man-mountain Tom

Boerwinkle, seven feet that nobody

forecourt with Simmie Hill, and underrated ballplayer, only to see both Cannon and Hill sign with the ABA. Not only that, but virtually no other NBA team lost anywhere near as much talent. The year won't has a total wester however. Trades

I'm ignoring the ABA, not because I downgrade it (in fact it is tremendously improved, and gaining fast on the NBA), but because it's too hard to keep track of what's going on with the players over there. By about 1972 look for close to parity between the leagues.

Further predictions: Playoff champ: New York. Everything is there.

Scoring leader: Hayes again, or maybe Hawkins. Milwaukee doesn't need 30 a game from Alcindor.

Rebounding leader: Impossible to call.

MVP: Reed, if the Knicks win. Frazier, Thurmond high.

Rookie of the Year: Would you believe Alcindor? (Hawkins, by the way, has been ruled ineligible.)

All-Star teams:

East C Reed

F Cunningham

Havlicek

De Busschere G Frazier

Monroe

Robertson

West

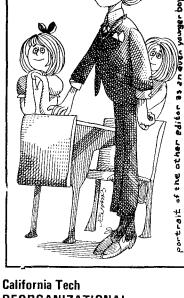
C Thurmond

F Hawkins (if he plays there)

Hudson Bridges

G West Mullins

Mullins Wilkens



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