



—photo by Wally Yerbofsky

Volleyball class does calisthenics before a hard-fought volleyball game. Note juniors and seniors shirking responsibility in contemplation of possible elimination of junior and senior P.E. (Alternate caption: Are you sure Mecca is this way?)

Pauling Comments On Blockade, War Dangers

Nobel Laureate and Caltech professor Linus Pauling spoke at the Dinner Forum on the subject of Molecular Biology Monday night in Chandler Dining Hall. Before discussing the announced topic, Dr. Pauling commented extensively on President Kennedy's speech declaring a blockade of Cuba. Pauling stated, "I think this is very serious" and in a telegram sent to Kennedy he said this announcement "places all Americans in grave danger of death." He also asserted in this message that this move is a "warlike act" and an "act of the utmost irresponsibility."

Pauling urged cessation of nuclear tests, but made the point clear when questioned that he does not favor unilateral disarmament. On further inquiry he stated that he did believe that the United States could take the first step in the cessation of nuclear tests. Pauling was worried the United Nations will brand the United States as

an "aggressor."

Criticizes U. S. Policy

From his travel in Chile he believes there is a real need for an economic and social revolution in Latin America. However, he favors nonviolent methods. He maintained that the U.S. should have supported Castro when he took over and before he turned to Communism.

As the U.S. has rockets close to Russia, he said from his scientific logic, "What should be for one side of the Iron Curtain should be for the other." Pauling criticized U.S. policy for turning down a Russian proposal two years ago for nuclear disarmament with limited inspection. Since then technology has advanced to permit no on site inspection. He concluded this portion of his talk saying, "Soviet arms and weapons in Cuba endanger our security, but Kennedy's action endangers our lives."

Discussing Molecular Biology, Pauling stated that this is a relatively new field. He discussed peptide chains and nucleic acids noting that the new Nobel Prize winners researched on DNA. Dr. Pauling climaxed his talk by stating that Physics has a limited view while Chemistry offers aspects of Physics and Biology as well as Chemistry.

Theism Subject Of Dinner Forum

The fourth Y M C A Dinner Forum for this term will be held Wednesday, October 31st, in Winnett Lounge. The forum will last from 7:30 to 9:00 and does not include dinner this week.

This forum's topic will be "Theism—Is It Necessary?" Panel members will be Dr. Richard Feynman, Professor of Physics; Dr. Ganse Little, minister of the Pasadena Presbyterian Church; and the Reverend John Baker, minister of the Neighborhood Unitarian Church.

Discussion this week will center around whether or not belief in the existence of God is essential for an adequate understanding of man and the universe, and for improving human life. Also included will be the possibility of proving the existence of God, the basis for this belief, and the constitution of atheism and rationalism as a "faith".

Though this forum will be in Winnett, the format will be the same as the others, with a question and discussion period after the main program. Dress, as always, is casual.

Houses Announce Interhouse Themes

Themes and designs for the Interhouse dance are now in various stages of completion, ranging from "nothing yet" from Ricketts and Dabney to a detailed set-up for Page.

Page's theme is "Exotica Aztec"—with jungle scenes, a waterfall cascading over the house roof, a steaming volcano, an Incan temple in the lounge, and passageways throughout.

Lloyd is taking its theme from "The Arabian Night." Included are: a flying carpet, an Arab tent in the dining room, minarets, perhaps a treasure cave. Emphasis is on richness, splendor, and gaiety.

Ruddock is going "Egyptian." The theme is supported with a house-high Sphinx with passageways through it (lighted by non-flammable smoking torches).

Faculty Discusses P E Requirements

Physical Education is a frequently discussed question at Caltech, but one in which interest seems to fluctuate considerably. At the present time, however, widespread faculty interest has brought the question up for serious consideration, and there is a definite possibility that the P.E. program will be modified as a result.

The question was raised among the faculty with almost the same conditions in 1958, but a type of student poll taken at the time indicated that the students themselves favored retention of the present program, and so the faculty decided not to change it. However, the question has come up again and there are many faculty members who feel the program should be modified in some way.

Last year the faculty Physical Education Committee reviewed the particular case of third term senior PE, and issued the facts on the PE situation. It was decided, however, that no action

would be taken at that time. The subject was initiated this time as a result of a letter written by Dr. Norman Davidson, a chemistry professor, which encouraged that the entire physical education program be reviewed, and favored the abolition of mandatory PE in the third and fourth years.

The Faculty Board will meet around the 16th of November and at that time will hear recommendations from the PE Committee. It will then submit the question to the faculty for general discussion, possibly with some specific proposals for consideration. Sometime in the future, probably no earlier than the middle of second term, the question will come up for a general faculty vote which will de-

cide school policy in the matter. Though the decision is a faculty one, both student and faculty opinion will be adequately polled before any decision is made, and student opinion will be given attention in the final decision.

There are three major proposals which are being considered for adoption. One of these is the abolition of junior and senior PE and giving them the option of voluntary PE such as the graduate students now have. The other proposals are the dropping of only senior or just third term senior PE.

There are several major arguments presented against the reform of the PE program. One of these is that the faculty has an obligation to the students to see that they maintain themselves in fair physical shape while attending Caltech, and that, left to themselves, the stu-

(Continued on page 3)

BOD Approves IHC President

Monday night the BOD met to consider several issues, primarily that of IHC-BOD president trading. Cady, speaking for the IHC, stated that the IHC felt it would not be advantageous to place the ASCIT president on the IHC, although they do favor the placing of the IHC president on the BOD. In the ensuing discussion, the BOD agreed that it would be worthwhile for the IHC president to be present in their midst.

By an 8-0-0 vote, a motion establishing a committee to write up the proposal was passed. After being approved by a vote of the BOD, the proposal will be submitted to the voters for their consideration as an amendment to the by-laws.

Also discussed was the issue of faculty coffee hours in the Winnett Center. No particular decision was reached on this.

EPC Discusses Course Changes

Two weeks ago the Educational Policies Committee, composed of nine undergraduates appointed by the ASCIT Board of Directors to represent the students to the faculty in academic and curricular matters, met for the first time this year in Chandler. After two meetings the EPC has tentatively decided to seek out both the facts and student opinion on the following subjects: 1) the requirement of graphics; 2) honors sections in second and third term freshman English and history; 3) advanced psychology courses; 4) the status of Econ 4; 5) a pamphlet on re-

(Continued on page 5)

Development Program Planned

New construction is proceeding apace on and around the Caltech campus, and even more is projected for the near future. Clearing and ground-leveling for the new auditorium, referred to as "The Toadstool" because of its planned shape, is under way on South Michigan Avenue. Ground-breaking for the new centralized computer system building is scheduled for a few weeks from now. The new facility will feature remote console inputs stationed in the various laboratory buildings on campus.

Of slightly more remote building projects, National Science Foundation backing has been obtained for an Electrical Sciences Building on Chester Avenue, and planning will proceed upon the finding of a donor to furnish the balance of needed

funds. Footweary students will be glad to hear that the Central Library Building, to be located in front of Throop on the mall, is in the architect's hands. In addition, need of additional grad student housing facilities has made itself felt, and it is hoped that a new dormitory building can be started shortly.

Currently, no one passing through Throop Hall can fail to notice the remodeling job underway. The Institute is also remodeling another facility, a recently acquired house north of Dr. DuBridge's residence, for use as an Industrial Relations Center, something entirely new to the campus.

All of these construction projects are part and parcel of the Caltech Master Development Plan, a 25-year outline under which the campus will eventually extend from Hill to Wilson and from California to Del Mar, and San Pasqual Street will become an integral part of the campus. Parking facilities will be along Del Mar with the rest of the area being occupied by buildings and landscaping. No additional student houses are at present foreseen.

Notices

SWEATER MEASUREMENTS

Measurements for awards sweaters and jackets for fall sports will be taken at 7:15 on Thursday, October 25. The Whiting Co. representative will be in Ruddock House lounge for the fittings. Those who have received notices of letters should be sure to be fitted at this time if they wish to receive their awards at the December 3 banquet.

ORAL POLIO VACCINE

Sabin oral polio vaccine (type 1) will be given locally by the Los Angeles County Medical Association on Sunday, October 28. The nearest stations to Caltech are at PCC, 1570 E. Colorado, or McKinley Junior High School, 325 S. Oak Knoll. The times are 11 a.m. to 6 p.m. Sabin vaccine will also come to Caltech soon. Watch the Tech for details.

ATHENAEUM NEEDS WAITERS

The Athenaeum needs waiters. Anyone interested should see Mrs. Preston in the Athenaeum in the morning or after 4 p.m.

Y STARTING TUTOR POOL

The YMCA is going to be starting its tutor pool in the near future. Anyone interested in tutoring any subject for profit should see Tom Huff at the Y or George Cady in Fleming.

RABINOWITZ WINS VICEROY CONTEST

Larry Rabinowitz, with his customary massive entry (89 this time), won the \$100 first prize in the first Viceroy College football contest. Winner of the \$25 second prize was Alvin Young of Lloyd House. Of the ten third prizes of \$10 each, nine went to Techmen and one to an Institute secretary.

LOUNGE FEATURES ART

Currently on display in Dabney Lounge is a selection of 40 modern French lithographs from the George Binet collection of prints. The artists range from Toulouse-Lautrec to Picasso to Miro, with a range of techniques and styles to match, running from realism to non-objectivism.

SAILING CLUB MEETS

The Sailing Club's series of lectures on racing rules and tactics will begin tonight at 7:30 in Clubroom No. 2 Winnett. Any person interested in racing for Caltech should attend.

Editorials

P E or Not P E?

Caltech at the present time possesses the moot distinction of being the only private university in the country with four years of required physical education. In fact, Caltech shares this dubious distinction among all colleges only with the military academies. Whether or not this policy will be continued in the future is now up to the faculty, and there is a very good chance that it will be modified in some way. This issue is of importance to every Tech student, as it will almost undoubtedly govern his remaining years at Tech.

The last time that this issue came up was in 1958 when it was decided, largely as a result of a student vote in favor of retaining PE, that no change should be made. The question has been brought up again because of recent widespread faculty interest, and when a policy has been voted on it will probably remain in effect for several years before any changes are proposed again. Thus the decision this year will probably remain in effect until every present Techman has graduated, and it is therefore of considerable importance that the opinions of Techmen be represented on this subject.

It must be made clear that since this is a school policy issue, the decision is essentially a faculty one and student opinion is not necessarily a deciding factor. The faculty is very interested in student opinion, however, and thus it will be given considerable weight in the general faculty vote which will determine future policy.

The **California Tech** feels that junior and senior PE should not remain mandatory. By the time a student has reached his junior year he should be able to make his own decision as to whether or not time or other considerations warrant dropping PE. At this time he should also be able to decide whether or not he feels PE is valuable to him or even whether he wishes to remain in condition at all. This should be a student right, and is certainly in accord with the present Caltech policy of academic freedom.

In addition, the proposed modifications of the PE program would not necessarily eliminate bowling, golf, and similar classes, as they could be scaled down and kept as required attendance courses with voluntary registration. The move would also not seriously hamper Interhouse sports as most players do not go out solely for credit. In addition, internal House social pressures would always assure an adequate turnout. Intercollegiate athletics would certainly not be affected, because cutting the PE requirements would not alter student support, and no one goes out for an intercollegiate sport to get out of PE, as it requires much more work and time.

A poll of student opinion will probably be conducted soon and students should be sure to cast their votes, as it will be an important factor in the faculty decision. Remember, however, that it is a faculty decision and belligerence will do more harm than good.

—J. C. Simpson
Richard Karp

Steam Tunnels Prove Useful to Techmen; Lend Interest to Exchanges and Parties

BY WALT DEAL

The war scare this week has once again focused the Techman's attention on the steam tunnels. Everyone plans to get his girl and disappear into the tunnels until the radiation goes away. The steam tunnels, it is felt, would, or rather will, make excellent bomb shelters. Unfortunately, they won't. Air leakage and collapse will make them hazardous, if not deadly. The geology building, advertised by the department as quake-proof, will be relatively safer.

However, the steam tunnels do have their uses, as many frosh will find out as they wend their soggy way from soggy food to classes in January, while their more knowledgeable compatriots travel fast and dry via the underground. After a few drenchings, the frosh will stop wondering why the campus east of Throop was built with no provision for shelter from rain and start using the steam tunnels.

Steam in Steam Tunnels?

The tunnels were originally built to carry steam, and a lot of hot air goes through them, some through the pipes. They run the length of the campus, branching off to Keck and the Grad Houses. One student-

made tunnel reputedly led to the women's room at the PCC Library, but it has since been closed by ever-vigilant B&G.

There are two easily accessible entrances to the tunnels: one by the stairs between Throop and Kellogg, the other to the right before one goes east out of the Old Houses basement through the Fleming gameroom. The first involves climbing down a ladder about six feet, crawling over cables and pipes, opening an invisible door, and fumbling around for the light switch in the presence of 2300 volts. Needless to say, entrance is easier when a flashlight is used.

The second is much more accessible. Go through the Fleming gameroom to the basement, turn left, go in the door around the corner and to the left, and walk through the storeroom.

Turning right from Fleming, one can go to Ricketts and the Athenaeum. The Athenaeum exit exits into the basement, close to the pool room, which is convenient. Unfortunately, undergraduate presence in this area is frowned upon, so it is not wise to linger.

Just to the left of the Fleming entrance is the New Houses exit. Anyone who really wants to use

LETTERS

Editors:

Noticing that the editor of "The Citizen," published in Jackson, Miss. as the "official journal of the Citizens Councils of America," spoke to you—I was wondering what connection this has to the "White Citizens Council?" (Being a Southerner myself, I can tell that the latter is rather radical to say the least. I would say off-hand, that Birchers belong to it!)

Of course the 'lad' is only 31 so speaks with wisdom, no doubt. So I am wondering just how he interprets the 15th Amendment to the Constitution. (Perhaps, like the Governor of his state, that does not mean much.)

Do the young people of Mississippi know why there is a large colored population in Mississippi? The slave were brought to U.S. by the Yankee Clippers. When I was in school, I saw pictures of the slaves being sold to the plantation owners. (My grandfather was a slave owner—and after the Civil War, their slaves came back to them after a while of wandering and asked to 'please let us live where we have always lived'. They were not abused by my grandfather from all that I heard.)

The Slave Owners in Mississippi bought more than their share, shall we say, and used them to do all kinds of work.

The old slaves are all dead years ago—their grandchildren are people, not a bunch of slaves. So, it will be up to people of Mississippi to start treating them like Americans and to elect a Governor who is not a radical.

Reading that the Governor of Mississippi seldom misses church at the First Baptist Church in Jackson, I can't quite understand how and why that is helping him. (Having been a Baptist myself—I am now Presbyterian—some Baptist ministers criticize other Protestant churches almost as much as they do Catholics.)

Is Barnett's church preparing a 'segregated Heaven' for its members?

More of the Ministers in Oxford had a 'repentance Sunday',
(Continued on page 5)

graduate rattle

BY FLETCH MURPHY

The KKK (Keystone Kitchen Kops) in MJ have a formidable opponent (or opponents) called the DDD (Dastardly Dish Dirtier) who is still at large in spite of his frequent and periodic return to the scene of the crime. The DDD apparently feels that the only fair way to handle dishwashing is to have everyone wash dishes before using. That way everybody washes exactly as many as he uses. This philosophy seems to be spreading and is coming to be known as cancer of the kitchen.

Cholesterol Conflict

Elsewhere in MJ, the locals accepted Marks' challenge to touch football and lived to re-

gret it. In return they're challenging Marks to a food fight. Paul Purdom, well-known global geographer and frog farmer has recently turned MJ milkman and will lead the Mosher Mashers with his newly-designed milk pistol. Some may condemn this waste, but the "tincture of cholesterol" used will certainly never clog up any arteries. Marks is expected to blockade the importation of offensive foodstuffs to MJ anyway.

Halloween Horror

Unless more grads start buying tickets for the Halloween Party Friday, the committee won't be able to afford girls and will have to import real witches. I know what you're thinking. It isn't true, though.

Committee Set For Good Year

Henry Abarbanel, chairman of the ASCIT Assembly Committee, has given a report on the Committee's plans for the rest of the term and the success of the Assembly Program this year.

The Committee's first accomplishment this year was to arrange for Nixon's and Brown's speeches to be given to the entire campus, instead of to the Y Luncheon Forum in the Athenaeum, as was originally planned. They also brought Richard Morpheus, segregationist leader who was here last week.

On October 31st Dean Acheson will appear at Tech in a discussion moderated by Robert Bacher. On November 21st, A. L. Wirin, counsel for the Southern California Chapter of the ACLU, will be presented.

In addition, the Committee is

trying to arrange for Frank Wilkinson, Steve Tillich, Aldous Huxley, Paul Hoffman, and other other political and non-political speakers to come to campus. The committee also plans to bring good folk artists whenever they appear in the area.

The Committee is operating on a \$1000 grant given by the alumni third term last year to stimulate student interest in extra-scientific affairs.

Members of the Committee are Art Turner, Larry Weaver, Don O'Hara, and Henry Abarbanel, chairman.

The Committee is still in need of help in publicity, contacts, and letter writing. Anyone interested in helping out in these or other phases of the Committee's work should see Henry Abarbanel in room 12 Dabney House.



A NEW INTEREST

More than academic interest for the well-rounded ... Arrow's "Gordon Dover Club" shirt. Comfortable medium-point, button-down collar is softly rolled for a new but natural look. Trim placket front and plait in back make this shirt the all-round favorite. Trimly tailored specifically to fit the well-dressed active young man. 100% cotton Oxford is "Sanforized" labeled for long-lasting fit. \$5.00.

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From Other Campuses

by Richard Karp

Last week, we discussed the segregation editorial in the Troy State College **Tropolitan**. The editorial called the Catholic Church and the Kennedys as well as the Communists as the moving force behind the NAA-CP and Meredith.

Reaction to the editorial was quick. In the next week's **Tropolitan**, the editor spends two paragraphs challenging the lack of backbone in American Youth, followed by a note that "All this leads up to the editorial that appeared in last week's edition of the **Tropolitan**. This editor has been called 'a disgrace,' has been condemned, and has been ridiculed in various classes with one professor in the Education Department taking it so far as to say that the editor should go to college."

The count on letters to the editor referring to this matter was two supporting segregation, two against. One of the two supporting the editorial was the freshman class president, who concluded with "The liberal ele-

ment, socialist, and communist are taking over. What will come next?"

The Stanford **Daily** for October 19, 1962, featured a movie review which completely shattered a new movie, the "Chapman Report." Steve Zousmer noted that "The Chapman Report" is that not unrare type of movie about which one might comment, 'That was the worst movie I ever saw.'

"We often make statements like this but sooner or later we see a movie which is indeed the worst. 'The Chapman Report,' a prurient little package of suburban erotics and erosion, is a safe nomination. Except for the technicolor which is rather pretty.

"One of the things you have to know about this picture is that there is no deep meaning to search for. In fact, there is no meaning at all, deep or shallow. The big question is: are sex surveys good or bad?, and director George Cukor evidently

(Continued on page 4)

PE Requirements

(Continued from page 1)

dents might shirk this responsibility. In addition, if junior and senior PE was dropped, some of the more popular sports which provide free recreation (such as bowling, golf, and badminton) would have to be discontinued because they rely on a definite, known attendance.

Arguments on the other side generally support the institution of a selective system for juniors and seniors, giving them the privilege of deciding for themselves. It has also been stated that PE in the last two years, when a student has usually decided his option and is preparing for his career, can interrupt research and interfere seriously with his plans and time.

All of these arguments will be considered before any vote is taken by the faculty, and student opinion will be represented at the meeting in November and the faculty as a whole.

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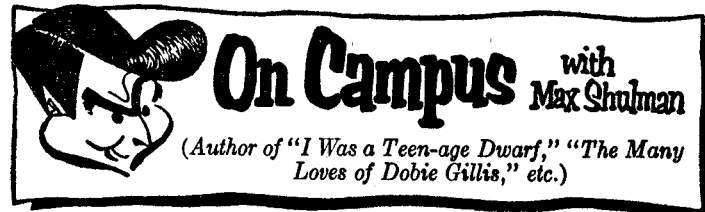
YMCA Schedules Election Poll

As in past election years, the YMCA is planning to take a student and faculty poll on the major campaign issues this year. The three races for state office included in this poll will be Brown vs. Nixon in the gubernatorial race, Kuchel vs. Richards in the senatorial contest, and Richardson vs. Rafferty for State Superintendent of Public Education.

Also included in the poll will be propositions 1A, 23, and 24. Proposition 1A is the education bond issue to raise money for school construction; proposition

23 is a reapportionment bill to give more senate seats to urban areas; and proposition 24 is the Francis anti-subversive proposal which defines communism and makes the communist party illegal in California. Proposition 1A has been included because of a general need to publicize it, while propositions 23 and 24 have been included in the ballot because of the controversial nature of these measures at the present time.

The poll will be held soon and the results will be announced in the **Tech**.



WHAT TO WEAR TILL THE DOCTOR COMES

Now that you have enrolled and paid your fees and bought your books and found your way around campus and learned to hate your roommate, it is time to turn to the most important aspect of college life. I refer, of course, to clothes.

What does Dame Fashion decree for the coming school year? (Incidentally, Dame Fashion is not, as many people believe, a fictitious character. She was a real Englishwoman who lived in Elizabethan times and, indeed, England is forever in her debt. During the invasion of the Spanish Armada, Dame Fashion—not yet a Dame but a mere, unlettered country lass named Moll Flanders—during the invasion, I say, of the Spanish Armada, this dauntless girl stood on the white cliffs of Dover and turned the tide of battle by rallying the drooping morale of the British fleet with this stirring poem of her own composition:

Don't be gutless,
Men of Britain.
Swing your cullass,
We ain't quittin'.
Smash the Spanish,
Sink their boats,
Make 'em vanish,
Like a horse makes oats.
For Good Queen Bess,
Dear sirs, you gotta
Make a mess
Of that Armada.
You won't fail!
Knock 'em flat!
Then we'll drink ale
And stuff like that.



In 1589 she invented the laying hen

As a reward for these inspirational verses Queen Elizabeth dubbed her a Dame, made her Poet Laureate, and gave her the Western Hemisphere except Duluth. But this was not the extent of Dame Fashion's service to Queen and country. In 1589 she invented the laying hen, and she was awarded a lifetime pass to Chavez Ravine. But she was not to end her days in glory. In 1591, alas, she was arrested for overtime jousting and imprisoned for thirty years in a butt of malmsey. This later became known as Guy Fawkes Day.)

But I digress. Let us get back to campus fashions. Certain to be the rage again this year is the cardigan (which, curiously enough, was named after Lord Cardigan, who commanded the English fleet against the Spanish Armada. The sweater is only one product of this remarkable Briton's imagination. He also invented the glottal stop, the gerund, and the eyelid, without which winking, as we know it today, would not be possible).

But I digress. The cardigan, I say, will be back, which is, I believe, cause for rejoicing. Why? Because the cardigan has nice big pockets in which to carry your Marlboro Cigarettes—and that, good friends, is ample reason for celebration as all of you will agree who have enjoyed Marlboro's fine, comfortable, mellow flavor and Marlboro's filter. So why don't you slip into your cardigan and hie yourself to your tobacconist for some good Marlboros? They come in soft pack or flip-top box. Cardigans come in pink for girls and blue for boys. © 1962 Max Shulman

* * *
Cardigans or pullovers—it's a matter of taste . . . And so is Marlboro a matter of taste—the best taste that can possibly be achieved by experienced growers and blenders—by science, diligence, and tender loving care. Try a pack.



...for a life of pride and purpose

Among the young people being graduated from college in these times, there are some who think and feel—perhaps a little more deeply than the others—about the world we live in, the future we face. They ask, "How can I make my career really meaningful? More than just personally rewarding?"

And many of today's most successful young people are finding a fulfilling answer to these questions as officers on the Aerospace Team... the United States Air Force. They can tell you that no career could better combine the opportunity for achievement—and the deep inner

satisfaction of knowing that they are helping preserve the very future of America.

How can you become an Air Force Officer?

If you are a college senior and not currently enrolled in ROTC, Air Force Officer Training School provides an opportunity to qualify for a wide variety of career fields. The graduate of this three-month course receives a commission as a second lieutenant. As the Air Force continues its technological advance, officers with college training will move into positions of increasing importance.

For full information—including the opportunity to earn graduate degrees at Air Force expense—see the Air Force Selection Team when it visits your college, visit your local Air Force Recruiting Office, or write: Air Force Officer Career Information, Dept. SC210, Box 805, New York 1, New York.

U.S. Air Force

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Buckley To Talk In San Gabriel

Conservative spokesman William F. Buckley, Jr., editor of the National Review Magazine, appears Friday, December 14, at the San Gabriel Civic Auditorium to discuss "The Conservative Stake in the November Election results." Buckley is sponsored by the Graduate Committee for Political Education.

Reserved seat tickets are being sold by the Committee at a student rate of \$1.00. They may be ordered by mail from the Committee at 441 South Catalina, Pasadena. Non-student tickets are \$2.00. On campus, tickets are available at the News Bureau, 14 Throop.

Lectures Begin

The first in the 1962 fall series of the Friday Evening Demonstration Lectures will be given this Friday, Oct. 19, at 7:30 p.m. in room 201 Bridge. "Dissection of Intelligence" is the title of the lecture by Dr. Colwyn Trevarthen, research fellow in biology. The general public is invited to attend.

Dr. Trevarthen will explain various experiments that have been undertaken to investigate the processes of visual learning in monkeys. The twin brain preparation has revealed a new way of approaching the problems of brain functions. The use of a film as well as slides will help demonstrate his lecture.

The Campus Barber Shop

—north side of Winnett Center
west of Chandler Dining Hall—

Three Barbers to Serve You

all haircuts \$1.50

More Campuses

(Continued from page 3)

considered the question so important that he didn't bother to answer it." The article continues for 1000 words more, and leaves no doubt that "The Chapman Report" was not a roaring success at Stanford.

This week's nominee for the much-coveted Etaoin Shrdlu Award is the La Verne Campus Times for October 12. The entire four page paper contained a total of eight stories of more than 100 words in length. Three-fifths of the second page is an advertisement for the campus bookstore, whereas the entire third page consists of the statement in headline size type that "LaVerne College is a Small Liberal Arts College with a closely knit student body. Do your part to keep your college this way." In addition, the paper has a total of five pictures and three other ads. It features a five column banner headline on the front page which connects to no story, and a story about a student who won \$1000 by writing an essay on "Why I plan to be an independent insurance agent." At last, a newspaper with poorer style than the Tech!

IHC Discusses

Various and sundry problems were brought before the IHC in its weekly meeting of Wednesday, October 17, 1962. The important topics included discussion of Students' Day, Faculty Coffee Hours, and the IHC ditto machine.

With regard to Students' Day, each House will be in charge of finding 10 guides, plus four additional "hosts," who will greet the high school students on their arrival. Thirteen hundred high school students are expected.

The problem of how to get the faculty to Winnett was also discussed in some detail. It was generally agreed that the easiest method was free food. To this end, a student-faculty reception was suggested. The tentative time chosen was 3 p.m. on Wednesday afternoon.

The problems with the IHC ditto machine seemed to take most of the time of the committee. The machine is in poor condition, and the four suggestions of what to do with it were to repair it, sell it, leave it in a dark corner of Winnett, or to give it to the Y. Repairing the machine was eliminated because of considerable doubt that the

Various Plans

machine could be repaired. Leaving it in Winnett was also discarded because B&G might find it there and charge the IHC for its removal.

Of the two suggestions left, it was decided that the IHC would try to sell it to a junk dealer, and if that didn't work, it was to be given to the Y.

The faculty committee on Student Houses sent a note to the IHC regarding the waterfront rule and emphasizing that until further notification it was to be followed literally. The IHC also is going to look into the question of who should get special invitations to the Interhouse Dance. The attempts to get the IHC president on the BOD were duly noted, along with the conclusion that this would require the ratification of the student body.

Debate Team Wins Awards in Tourney

At the San Diego State College Speech Tournament last Friday and Saturday, Caltech's Forensic Squad won three awards. The team of three, consisting of Bill Tyler of Blacker, David Close of Page, and Steve Morse of Ruddock, won over three out of five college teams participating in a debate on the formation of an economic community of non-Communist nations.

Morse also won a Superior rating in Impromptu Speaking, the highest individual award given. The other individual award, a Certificate of Excellence in Extemporaneous Speaking, was awarded to Sean Solomon of Dabney.

The Forensic Squad will meet speakers from 30 other colleges on November 2 and 3 at El Camino College.

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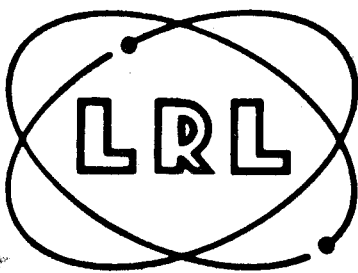
Member of The Associated Collegiate Press

Second Class postage paid at Pasadena, California

Printed by Bickley Printing Co.

Represented nationally by National Advertising Service, Inc.

Subscriptions: \$1.00 per term, \$3.00 per year. Write: Circulation Manager.



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Religious Trip Planned By Y

BY CRAIG MURPHY

The Caltech YMCA Religious Emphasis Commission has plans for a series of visits to various places of worship in the vicinity. The first of this series, "The Many Faces of Religion," will be at 7:30 the evening of Friday, October 26.

This first visit will be to the Fairfax Reform Judaism Temple at 525 S. Fairfax, Los Angeles. Rabbi Sonderling will deliver a sermon on the topic, "Was Einstein Religious?" Following the service, there will be a discussion period with Rabbi Sonderling, who was chief chaplain for German troops on the Eastern Front in World War I and who helped many people escape from Germany in World War II. He describes himself as a "rebel" and "an orthodox among the reformed, a reformer among the orthodox."

If you wish to attend, please let the Y know by signing one of the lists posted in each of the students houses so that transportation can be planned. Those who plan to attend will meet at Winnett Center no later than 7:30 on Friday evening, October 26. Dates are also welcome; transportation will be provided.

Among those churches which may be visited in the near future are the following: Buddhist, Roman Catholic, Vedanta (Hindu), Fundamentalist, a Major Protestant Denomination, and Unitarian. There may also be several others added. There will be about one visit each week, and each week a sign-up list will be posted in the student houses. If you have any ideas on how this program can be improved, the Y will welcome any suggestions.

Steam Tunnels

(Continued from page 2)

hoff at several points in the basement. The tunnels are used for storage along here, not for disposal. To the left of the fork is the tunnel leading to Bridge and the Geo buildings. The entrance between Throop and Kellogg points here. Exiting at Bridge entails a filthy crawl and a lot of noise distinctly audible above, so it is not recommended.

Both Arms and Mudd have exits on corridors. The tunnel has a left fork at Arms, which leads to a locked door in Robinson.

Take a little time out and find out about the steam tunnels. They come in handy during the rainy season, and they're fun to wander through during exchanges.

LETTERS

(Continued from page 2)

the first Sunday after the riots. The accounts that I read did not mention any Baptist Minister taking part. The Ministers blamed themselves somewhat for letting a condition exist like that in Mississippi. How can it be Christianity? Read the story of the Outcast in the Bible. The Lord loved the outcast! He doesn't just pick out a certain segment.

J. Smith

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More EPC

(Continued from page 1)

search projects for freshman honors work; 6) the format of Math 1 and 2; and 7) P.E. for juniors and seniors.

Frosh Honors Proposals

On some of these topics the committee possesses concrete information and several definite proposals. In this category is the pamphlet on freshman honors projects. Dave Holtz is in the process of gathering information for it, and hopefully it can be distributed at the freshman honors meeting at the beginning of second term. Graphics is required by different departments for various reasons, and committee members are in the process of finding out what these reasons are. Econ 4 is also a departmental requirement for all except mathematicians. A suggestion on a more painless way to pass this requirement is to take it as a freshman, something which seems possible in theory since the ceiling on units is 58.

The advanced psychology course is an idea proposed by committee members who would like to see our humanities courses expanded. Pl 6 has been changed this year because of the hiring of a new man, so

suggestions on how to improve or change the psychology offering will probably receive some attention.

The suggestion of honor sections for freshman humanities is based on the poll which EPC

took last year of the sophomore honor sections. The history honor section was liked much more than the physics or math honor sections. This would seem to be a result of the interest and discussion which can be

generated by groups who enjoy history and English. In many frosh sections there are only one or two who are consistently prepared and who take a genuine interest. The honor sec-

(Continued on page 8)

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INTERVIEWS
NOVEMBER 6

LTV

SPORTS

Webmen Beat Pomona and Claremont

BY DAVE OLLIS

Rebounding strongly from last week's slump, Caltech's Webmen dropped Claremont and Pomona in the first week of league action.

Claremont was topped 12-6 at the Stag pool on Tuesday in a tightly refereed game. Bruce Chesebro, displaying the reasons for his twice All-Conference honors, scored 7 times despite occasional double teaming by Claremont. Points were also produced by Mike McCammon

(2), Pat Manning, Dave Ollis and Bob Jenkins. By the time the final gun sounded, a total of 47 personal fouls and one major foul had been committed by both teams.

Pomona Game

In a climactic and well attended game last Friday, the Beaver varsity edged visiting Pomona, 11-10, in the closing moments of the contest. A scoring duel featuring two All-Conference forwards Pomona's Bob Bassett and Bruce Chesebro ran parallel with the course of the game and ended in the same manner: Chesebro over Bassett, 9-7.

Pomona took an early lead

went down from 106 to 90 seconds.

In the freshman meet, which was run concurrently with the varsity, the lone Tech runner, Jerry Simpson, beat his only Whittier competitor by over four minutes, to win in 17:33. The meet was scored as a double forfeit due to each school's lack of a full team.

Tomorrow the harriers travel to Walnut to meet Pomona on the hilly Mt. SAC course.

Varsity results:

1. Crawford (W)—16:18; 2. Power (W)—16:26; 3. Weaver (C)—16:38; 4. Shonborn (W)—16:48; 5. Oberjat (C)—17:29; 6. Cleek (W)—17:35; 7. Tatum (W)—17:42; 8. Holt (C)—17:52; 9. Held (W)—17:54; 10. Eder (C)—17:54; 11. Lee (C)—18:08; 12. Corl (C)—18:13.

with two quick goals, but Tech countered with four tallies to lead 4-2 at the quarter. In the second period of play, Pomona capitalized on its attack of the deep end goal as Bassett and Steve Chew picked up two goals apiece to the Beaver's pair and the half ended at 6-6. Tech grabbed an 8-6 lead in the third quarter, but Pomona also scored twice to leave the score at 8-8 with one quarter of play remaining.

The final quarter saw both Tech and Pomona tied again at 10-10 until the last ten seconds. The Sagehen goalie, in stopping a shot, did not immediately get rid of the ball. He was attacked by Chesebro, who stole the ball and fired the final tally of the game to give the Beavers their second straight league win.

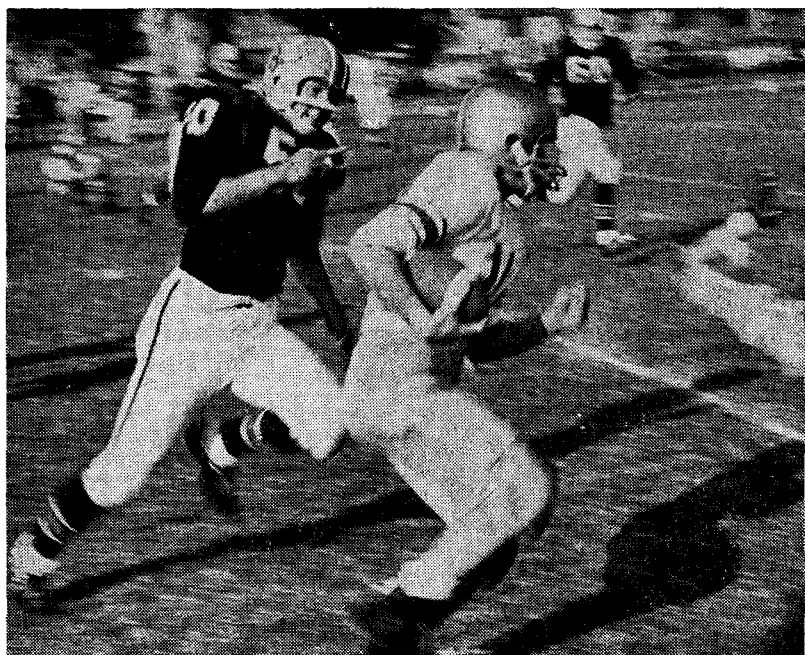
A glance around the league shows Occidental as the team to beat. The Tigers defeated Pomona 10-5 and easily disposed of Redlands last Friday 12-3. Current standings are Occidental, 2-0; Caltech, 2-0; CHM, 0-1; Redlands, 0-1; and Pomona, 0-2. Despite their record, Pomona is at least the third strongest team in the league and could be real spoilers for Oxy for Caltech.

Next Tuesday the squad plays an important game with Oxy at 4:00, and tomorrow afternoon they travel to Redlands.

Frosh Team

This year's frosh team is typical: long on enthusiasm and a little shorter on know-how.

(Continued on Page 7)



Quarterback Bob Liebermann carries ball around right end as La Verne pursuer follows closely.

La Verne Romps Over Footballers, 49-0

BY STEVE BLUMSACK

The Caltech varsity football team traveled to La Verne last Saturday afternoon and took their worst beating of the season, as the Leopards shut out the Beavers, 49-0.

The Beavers had trouble moving the ball during the first quarter. While La Verne was scoring three touchdowns, Caltech could not penetrate into Leopard territory. With the exception of one play, the entire quarter was played on the Caltech half of the field. Kurt Bullen threw three touchdown passes plus one for the PAT to ac-

count for most of the scoring.

Caltech had one serious offensive drive in the second quarter Bob Liebermann completed two passes for 25 yards and Jon Evans gained 17 yards on one run during this treat. However, La Verne took possession of the football after an incomplete pass on fourth down. Bullen's passing set up the final touchdown of the first half as Larry Kennan passed to Dave Walesiak for the TD. After one half of play, the Beavers found themselves on the short end of a 29-0 score.

Bullen's passing was responsible for most of the scoring. (Continued on page 8)

Whittier Beats Tech Harriers

The varsity cross-country team met its first defeat of the young season last Friday at the hands of a strong Whittier squad. The 20-27 loss gave the Tech team a 1-1 record.

The three-mile race was won by Jan Crawford of Whittier, who was clocked in 16:18, only 22 seconds off the Tournament Park course record of 15:56.2. Whittier runners also garnered second, fourth, sixth and seventh places for the victory.

Tech's first man, Larry Weaver, took third with a time of 16:38, a 23 second improvement over last week's time. Tom Oberjat was the squad's most improved runner as he chopped 45 seconds from his time of last week to take fifth in 17:29. In the closest individual battle of the day, Held of Whittier nosed out Caltech's Jim Eder for ninth place. Both runners were given identical times of 17:54.

The average time for the Tech team (first five finishers) was reduced from last week's average of 18:04.5 to 17:36.2, and the team's time spread (difference in times of first and fifth men)

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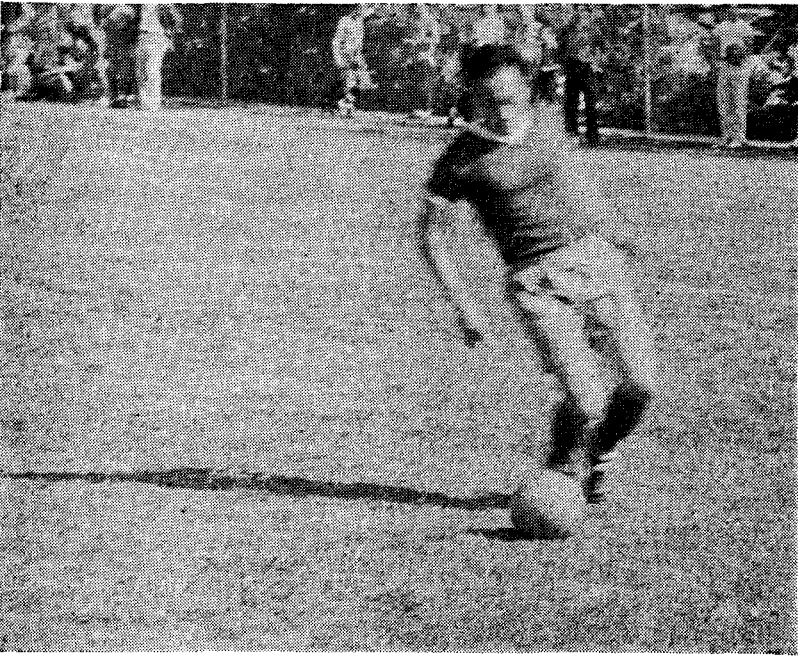
Campus interviews at California Institute of Technology will be conducted on November 8, to select qualified engineers and physicists to take part in the development of Stanford University's new two-mile linear electron accelerator.

The accelerator, being built under a \$114,000,000 contract with the Atomic Energy Commission, is designed to produce an electron beam of 10-20 Bev (billion electron volts), which can be increased to 40 Bev should it later prove desirable. Planned for completion in six years, the Stanford Linear Accelerator Center will then take its place among the principal international centers of particle physics research.

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Joel Kwok controls ball in last Saturday's soccer game with Redlands. Kwok scored four goals in the Tech victory.

Soccer Teams Rout Redlands

After losing to UCLA last week the varsity soccer team recovered and defeated Redlands, 8-0, at Tournament Park on Saturday.

The forward line, held scoreless by UCLA, were once again in top form as they scored six times by halftime. They eased up afterwards, but Redlands never really threatened. The backs played easily throughout the game as Redland's forward line did not play as a unit but relied on individual effort. The teamwork and cooperation of the Caltech players were the deciding factors.

By the end of the first quarter Joel Kwok had scored twice, while Willi Behrens and Richard Wade added one each to make the score 4-0. Kwok kicked in two more before the half. After the interval Behrens and Ed Cline completed the scoring with one goal apiece.

The only sour note in the one-sided game was an injury to Willi Behrens just before the end of the contest. This should

(Continued on page 8)

Lloyd House Captures Interhouse Softball

BY HAL PETRIE

The Interhouse Softball season ended last Monday with Lloyd House taking first place honors with a 5-1 record, but lost their last game to Ruddock. Good team spirit, one of the healthier batting averages in the league and an amazing ability to get on base were the secrets of Lloyd's dominance.

The expected battle for second place between Fleming and Blacker did not materialize as expected; Ruddock, in an earlier game shocked Blacker with a big first inning and went on to win in extra innings. Although Blacker shut out Fleming on strong pitching they were unable to pull ahead in the standings due to the earlier loss to Ruddock. Fleming won the rest of their games while Blacker lost to Dabney in a close game. The final loss to Dabney placed Blacker in a tie for third.

In the tie with Blacker for third place was Ricketts, who finished well after losing three games in a poor start. Ricketts, plagued throughout the season by a lack of hitting, broke loose only against Page with two home runs. In their remaining games better pitching along with good fielding offset the lack of hitting as only one run was scored against them in their last two games.

Dabney, Page, and Ruddock all finished with identical 2-4 records to divide the last 18 trophy points among them. Had Dabney beaten Ricketts in the season's final game they would have traded places with Ricketts in the standings. Page and Ruddock both showed a tendency toward inconsistency this year. Both teams showed real ability at times but they never seemed to achieve the alertness and consistent teamwork that characterized the leading teams.

With the completion of softball, interhouse athletes will have almost a month of rest before swimming starts on November 19th.

GAME RESULTS

Ricketts 9, Page 4
Ruddock 7, Blacker 6
Blacker 7, Fleming 0
Lloyd 5, Dabney 4
Fleming 11, Page 9

Water Polo

(Continued from page 6)

Richard Nielson and John Walter are the only frosh on the team with experience from high school. Larry Anderson, a very speedy swimmer, is another strong prospect to develop into a fine poloist. Rounding out the starting seven are Walt Davis, Bill Owens, James Gibson, and a fine goalie prospect, Steve Diechmann. The depth of the frosh squad is much larger than in previous years.

The team has thus far followed earlier histories: initial losses to PCC, 27-15; and El Camino, 20-3; a better game though still a loss against Claremont, 13-8; and finally sweet victory last Friday when the frosh copied their senior squad and edged Pomona's young fleet, 6-5, as Nielson and Walter potted three points apiece.

Ricketts 2, Ruddock 1			
Dabney 8, Blacker 7			
Ruddock 4, Lloyd 0			
Ricketts 1, Dabney 0			
FINAL STANDINGS			
House	Won	Lost	Trophy
Lloyd	5	1	21
Fleming	4	2	18
Blacker	3	3	13½
Ricketts	3	3	13½
Dabney	2	4	6
Ruddock	2	4	6
Page	2	4	6



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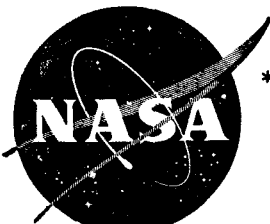
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Soccer

(Continued from page 7)

keep him off the field for some time, and a new center-forward has to be found.

On Friday at 3 P.M. the varsity meets Pomona in Tournament Park. Since Pomona defeated UCLA last week, a win for Caltech would place them in a tie for first place at the halfway point in the season.

On Saturday morning the junior varsity meets Azusa College, while the varsity faces Camp Pendleton. Both games are at Tournament Park.

Football Loses

(Continued from page 6)

sible for the only touchdown in the third quarter. Later, the Leopards were close to another touchdown when Ron Koretz recovered a fumble on the Caltech twelve yard line. When Caltech failed to move the ball, Charles Holland punted for 50 yards.

On the third play of the fourth quarter, Caltech's first pass interception of the season was made by Larry Ruff. By means a fine team effort, the Beavers advanced the ball down to the La Verne three yard line before a penalty stopped them short of the goal line. It took La Verne

only four plays to score. The touchdown was scored by Dick McAnulty on a pass from Bullen. The final touchdown of the day was scored by John Anastasi with about thirty seconds left in the game.

The game clearly pointed out weaknesses in Caltech's pass defense. La Verne gained an incredible 339 yards through the air. The defensive line, headed by tackle Tom DeKlyen, linebacker Joe Bocklage, and end Jack Arnold did a good job in stopping the ground game.

This Saturday the Beavers travel to Thousand Oaks for an afternoon game with California Lutheran College.

Even More EPC

(Continued from Page 5)

tion poll indicates that they could benefit from having a separate humanities class. The biggest objection to this appears to be one of scheduling, which could be solved if classes met at night or after 4 p.m.

The topics of math and P. E. are those for which less specific ideas have evolved. The committee has watched the new system of math classes with interest but needs further ideas. The P. E. program is always under consideration. In the past part of the problem has been that of organized student opinion. Here

again, the EPC has several ideas including polls and petitions but no definite plan of action.

Organization of EPC

EPC is a student committee. For this reason minutes of the meeting are posed on House bulletin boards and anyone is welcome to attend the Tuesday meetings in Chandler. Possibly more open meetings will be held in various House lounges after dinner to gather student opinion on specific issues. The committee's powers are limited only to making suggestions, but most departments appreciate well-backed and thought out suggestions, and these are welcome from interested students at any time.



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