

Moessbauer Nobel Winner



Congratulations.

—photo by James McClanahan

Relativity Effect Wins Physics Prize

BY BOB GREENWALD

Beakers filled with champagne and other signs of a wild, impromptu celebration pervaded the sub-basements of West Bridge last Thursday when it was announced that Dr. Rudolf Moessbauer, senior research fellow in physics, had been awarded the 1961 Nobel Prize for the discovery and development of the radiation effect which bears his name.

When Albert Einstein proclaimed the relativity of time, his special theory of relativity showed that the rate at which clocks run depends on their relative motion. The general theory extended this to include the effects of gravitational potential energy. On earth, this theory was impossible to test because the distances and speeds involved in phenomena like the contraction of time demonstrated in subatomic particles or the red shift of light from Sirius would be undetectable on a human scale. And they remained so until the discovery of the Moessbauer effect.

Essentially, the effect is simply an accurate yardstick which enables physicists to measure precisely the effects of natural forces such as gravity, electricity, and magnetism on particles as small as photons and parts of atomic nuclei. Using the Moessbauer effect, it has been possible to test certain phases of Einstein's theory. It also is being used in other applications of solid state and nuclear physics.

Dr. Moessbauer has found a way to produce and detect X-rays of wavelengths which won't change more than one part in a trillion. If these sharply defined wavelengths could be harnessed to an atomic clock, the pendulum would be accurate to one second every 3,000,000 years.

Dr. Moessbauer came upon the effect while working for his Ph.D. at the Max Planck Institute in Heidelberg. While examining crystals of X-ray-absorbing substances at liquid air temperatures, he found that certain crystals would emit beams from the crystal of precisely one wavelength which would be both unchanging and detectable. It seemed a natural conclusion that motion of the crystal should be picked up by the X-rays, and it was soon found that even a slight motion (the first experiment was done on a merry-go-round going several centimeters a second) prevented the absorbing crystal from detecting the rays from the moving source.

This effect has already been used to confirm Einstein's prediction that gravity can change the frequency of a light beam. Using crystals such as iron 57, Doppler frequency changes have

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Water, Water Everywhere

Frosh Fly As Dance Nears

BY J. C. SIMPSON

Now that InterHouse is almost upon us, social chairmen are avidly conscripting unwary students as they attempt to complete their projects before Saturday night. Milling bands of shanghaied frosh can be seen in all House courtyards, confusedly flinging paper mache in all directions under the paternal supervision of kindly upper-class volunteers.

Lloyd Has Pirates

Lloyd has taken a giant step along the way by choosing its theme and backing it up with a little construction. The theme, "Port Royal," will feature a junior-size pirate ship anchored in the courtyard, which will, of course, be flooded. Entrance to the House will be possible with dry feet, however, by use of a handy pier which will also permit a more awe-inspiring view of the ships' two "40-foot" masts. The lounge and dining room have been completely remodeled to provide a gay pirates' saloon and dance hall, featuring the "biggest bar on campus" which will dispense hot cider and cool music until there is no one left to enjoy them.

Ruddock Has Sand

Ruddock, not to be outdone by a mere pirate ship, is supplying a Spanish galleon at least four times as big. The galleon, sunk, of course, turns out to have been wrecked on a submerged reef identifiable as Lloyd House, and only one-fourth of it is

visible. This one-fourth, it turns out, is about the same size as Lloyd's entire ship. Lola, the House mascot, has lost her job as figurehead, as the bow of the ship is impaled in Lloyd. The floor of the courtyard, in keeping with the "Submergo" theme, will be coated with several tons of sand for an ocean bottom, and will feature a friendly clam who swallows paper cups. The courtyard has been surrounded by rock walls on three sides, but the underground cavern in the lounge has been canceled and the all-octopus band will have to content itself with fish nets.

Dabney Has a Whale

Dabney, while stolidly refusing to flood its courtyard, has nevertheless supplied a friendly whale to back up its Pinocchio theme. The construction at present features a coach drawn by a "donkey", whose identity at present has not been revealed. The only personage not present in the conglomeration is Pinocchio, who hopes to arrive in time for his guest appearance in Geppetto's workshop.

Fleming Has Dixieland

To keep the whole InterHouse idea completely all wet, Fleming is converting itself into a showboat with a prow aimed nicely at Page. The boat will feature all the comforts of Southern life and a Dixieland band. The ship will be propelled by a giant stationary paddle-

wheel, a recent frosh invention, and will gracefully skirt the shores of a flooded courtyard where multitudes of dyed cotton will represent the true Southern "moss". In keeping with an ancient House tradition, all major construction will be done Friday night.

Ricketts Has Dry Waves

Ricketts, too, strikes at the saturated theme, which will show a ship being overpowered by an enormous wave, in turn conjured by a mystic sorcerer. Stubbornly refusing to lower itself to crass conformity, however, Ricketts will not flood the courtyard, as their sorcerer evidently needs no water to create waves. The wave has been constructed, and at present sports a "no handball" sign. The great castle, after shrinking to mere postage-stamp size, will be constructed on a mountain in the background.

Blacker Has An Anteater

Blacker has canceled the scheduled appearance of its dinosaur, replacing her with an up-and-coming anteater who will affectionately flick his tongue at passersby. This starlet will be surrounded by ancient mountains and a waterfall flowing into a pond. This pond, according to reports, will not get the courtyard wet.

Page Has Mazes

In a stupendous break with the other six Houses, Page has struck a thunderous blow by

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New BOC Plan Proposed By ASCIT ExComm

BY LANCE TAYLOR

CHAIRMAN, ASCIT EXCOMM.

The changes in the Board of Control system that have been suggested by the ASCIT Executive Committee are put forth with the idea of getting more competent and more representative students to administer the Honor System. The main features of the ExComm plan are all devoted to the selection of BOC members, with the idea of making the Honor System run better by getting better people to run it.

The ExComm Plan

Specifically, ExComm suggests that the present BOC be replaced by a group consisting of the ASCIT vice-president, an elected BOC secretary (from the second term sophomore or junior class), two appointed at-large members from the student body, and seven elected members — one from each House.

Under this new system, the BOC at the middle of any second term would be made up of the members described above — vice-president, secretary, two appointees, and the House members. At the end of second term, four new members would be named — the new secretary and new vice-president would be elected at ASCIT elections, and two new appointed members would be named by the old BOC after the elections were over, from confidential applications

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LETTERS

Merits Of New York Trip, MUN, Leadership Camp Argued

Editors' Note: After receiving this letter from Hogan, both Bob Koh and Roger Noll read it and commented on it.

Editors:

Having read the ASCIT minutes for the meeting of October 30, 1961, I am thoroughly disgusted with the gross mismanagement of our student body government, with particular reference to the allocation of ASCIT funds — which, by the way, come from the pockets of each and every one of us. Last year ASCIT refused to invest in its own future and the future of the student body by refusing to help send delegates to the national student leadership lab. As has been pointed out before, the Alumni Association thought it was worth enough to commit themselves to matching ASCIT's contribution. The YMCA was willing to help financially even though it would put them in an economic bind in other programs. The delegates themselves would have been required, as they were the previous year, to foot a good share of the bill. Therefore, ASCIT's contribution would have been but a small percentage of the total cost. However, all of the other contributions depended upon getting ASCIT's support. By refusing to help, ASCIT successfully scuttled an extremely valuable program before it had a chance to get started. The program seems even more important now due to the lack of common sense, let alone constructive leadership ability, exhibited by our "leaders" at the last meeting.

At that meeting the BOD voted \$200 of our hard-earned cash to send Bob Koh to New York on a pleasure trip under the guise of being in the general interest of the student body. They justified the action by saying that the board "... recognized the honor involved in being asked to attend and possible prestige value our delegation might have." (Emphasis mine.) We have been financing a trip for a small number of hand-picked delegates to the MUN for quite a few years with no particular benefit to the student body as a whole. This is bad enough, without even investigating the method by which friends of the "in-group" are selected to go on these holidays. But this last act

seems to be to get into the "in-group" and spend as much of the rest of the students' cash as you can in whatever way you see fit. This inconsistency of policy, obviously to their own advantage, is how our elected "leaders" of ASCIT are spending our money.

Bill Hogan

Editors:

I don't believe that the impressions of the value of leadership training lab, Model United Nations or the "in-group of ASCIT" that Bill entertains bear any immediate relevance to any justification of sending a delegate to the CCUN conference in New York. This was a separate surplus appropriation and not one specifically passed in lieu of one of Bill's favorite projects. However, I will try to discuss the reason for this and answer some of his rather unfair accusations.

1. The conference is a two-day affair jointly sponsored by the Collegiate Council of the UN and the official United States Mission to the United Nations for the purpose of granting Prime Minister Nehru's own request to meet with a group of college students on an informal basis. In addition, discussion groups are planned with representatives of other key UN countries. I was and am of the opinion that Caltech students should participate in such worthwhile gatherings of college students. In this instance it seemed necessary again for the student body, as in the case of club blazers, band instruments, etc., to display interest before the Institute would consider providing similar funds. The administration, which selects the delegates for this trip, has now felt that the trip would be of enough value to provide \$200 to send another delegate.

In the last three years the student body has taken the initiative in sending delegates to a Collegiate Press Assn. convention in New York (we got two consecutive All-American ratings after this), to the National Training Labs leadership course (we got, in my opinion, nothing from this) and this year for this conference. Because of stu-

dent body interest in these things, Dr. DuBridge and the deans currently favor including a separate budgetary item in next year's Institute budget for such student travel expense, thus taking the burden from ASCIT funds.

2. The plane fare costs \$190 and the registration fee \$9, giving me \$1 to explore the sins and sights of New York. I think it extremely unfair of Bill to pre-judge the results of the trip and my personal intentions. As is the case with all such trips, Noll, Gordon, and I will pay room and board and try to spread the news upon return through the paper, informal panels and general bull sessions with interested guys. Also this trip will be of great help in outlining UN procedure and getting a first-hand glimpse of national opinions for the 17-man MUN delegation.

3. Bill fails to explain the full story of leadership lab which would determine ASCIT's future only in his eyes. ASCIT did pay \$300 towards attendance expenses and three men returned to their posts as House presidents. I was on the IHC at that time and felt that the experience did not help Bill or the other delegates in any discernible manner. I thought last spring, along with the rest of the board, that we accurately represented the opinion of Bill's House and of the student body in vetoing a similar annual budget request for another session.

Anyway, it seems to me that student government in a 700-man school is not important enough to worry about anti-septic committee consensus and other NTL-recommended techniques in dealing with problems that are, after all, relatively unimportant in the scope of a Caltech education. If ASCIT sponsors some decent projects and does its assigned tasks with a minimum of fuss, then they will probably get at least the tacit approval of the student body. If not, the injections of small-time bureaucracy won't help.

4. I think that the blast at MUN is not justified. This is the only year in which I have had any say in selecting delegates and every upperclassmen that applied was selected. Thus the inference of unfair selection seems to be out of order. An interesting point is that Caltech was invited to the New York conference probably because of its superior showing in recent West Coast MUNs. The criticism — an unhealthy one I think — that MUN does no immediate good is one that can be applied to the football team, the debate squad, or any other campus activity, all unjustified.

I apologize for taking so much space over a personal rebuttal but I felt that I should defend this year's Board and myself from attacks couched in such vitriolic terms.

Bob Koh

Editors:

It seems that Bill Hogan's generalization that ASCIT is composed of incompetent clods simply because they don't be-

lieve in the virtues of leadership camp is terribly childish. I personally believe that Koh and his Board have done a good job this year, especially in de-formalizing ASCIT and putting it in proper perspective. Koh is the first ASCIT President since I've been here that didn't consider his office to carry extreme weight and great importance, and I believe the change in attitude to be a healthy one.

Furthermore, I don't believe that Hogan, or anyone else, has shown many reasons for continuing a leadership camp program. Demonstrated improvement in leadership ability from those who attend the camp has not been forthcoming. Hogan did succeed in one respect — he completely united the IHC against him. Other than that his great knowledge of leadership techniques hasn't proven too useful.

Most childish of all, however, is the sour grapes argument about the MUN delegation being an in-group. For three years I have been in part responsible for the MUN delegation, and never have delegates been chosen by any method other than by estimate of their ability to make good impression at the conference. The fact that we have built an excellent reputation during this period, as evidenced by the fact that we are on the General Committee of twenty western states' schools that is most responsible for running MUN, indicates that the choices of delegates has not been all that bad. Finally, this year it was my idea (in-group Noll) to take every upperclassman who applied, and I'm sure that several of them will be quite insulted to learn that they have been catalogued as members of my in-group, or even my friends.

Hogan also points out how he generously helped pay his way to leadership camp. This year's Model UN delegates will pay one-third of the total cost of attending the session, amounting to \$15 apiece. The three students going to New York to the UN conference will have only their plane ticket (the cheapest flight to New York, by the way) and their registration fee for the conference paid for. All living expenses, cab fares, etc., will be paid by the delegates, amounting to over \$50.

It should be added that Hogan's complaint about the money for the New York flight implied that the alternative for spending the money was leadership camp, which just isn't the case. If ASCIT carried a \$2000 surplus this year, I'm confident they still wouldn't give money to leadership camp. If we are to compare the expenditures, however, it seems that it will do the student body much more good to have some of its members meet one of the world's most prominent men, along with several delegates to the United Nations, than to dedicate a month of summer vacation to intensive study of doing the trivial and relatively unimportant jobs of campus government with more dispatch — maybe.

Roger Noll

LETTERS

Bomb Tests NSF Reviewed

Editors:

We view with concern President Kennedy's recent announcement that the United States is considering resumption of nuclear testing in the atmosphere. Because of this, we plan to submit to President Kennedy a petition, in the form of a letter which reads:

"To President John F. Kennedy:

We, the undersigned, students, faculty and employees of the California Institute of Technology, feel that the security of the United States and its position as a leader in the struggle for world peace are best served by refraining from atmospheric nuclear testing.

We join with you in your sincere desire for peace, which we believe can be clearly demonstrated to the peoples of the world if the United States abstains from such tests."

Copies of this petition will be available in the Student Houses, the various departments on campus, and in room 208 Church. We urge your readers to join us in this appeal.

Dave Barker

Ned Webb

Noel Jones

Editors:

Applications for loans, fellowships, etc., which require signing a loyalty oath should, if they favor this oath, accompany their application forms with letters expressing their stand on this important issue. Those who do this will be doing a service to their country.

Charles Flynn

Moessbauer

(Continued from page 1)

been observed for ridiculously small velocities.

Dr. Moessbauer, permanently assigned to the Technische Hochschule at Munich, has taken two years off to do research at Caltech. He is presently studying what his effect does to the little known internal magnetic and electrical fields in the nuclei of the isotopes of some rare earth elements. The work is supported by the AEC, and has so far yielded some valuable information about the complex electrical interactions in the crystalline structure of these substances.

Dr. Moessbauer has been at Caltech since March, 1960. He is a native of Munich, Germany, and is now residing in Altadena with his wife and two children.

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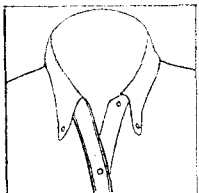
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our man in the Ivy Leagues



BY LARRY McCOMBS

For years I've been hearing about the beauties of autumn in New England. From photographs and such, and by mentally replacing all of Pasadena's palm trees with maples, I thought I could imagine what it would be like. But the variety and beauty of the colors are beyond description — even some of the ivy-covered walls have taken on a brilliant red hue. I can see why Techmen from the East miss the seasonal variations in Pasadena. On the other hand, after the few "brisk" fall days we've had so far, I can also begin to appreciate why they're glad to get back to sunny California after Christmas vacation.

* * *

Last Saturday was Parents' Day, and all the undergrads were in their dignified Ivy League best, escorting Mum and Pop around the campus. As I pushed my way through the crowd in the bookstore, I saw one undergrad note his parents' shocked looks at my beard, unkempt hairdo, and turtle-neck sweater. In tones of disdain he quickly explained away this apparition: "Graduate student!" he sneered.

* * *

In our History of Science course the other day, the instructor was bemoaning the fact that most of the important apparatus from great scientific experiments have been broken up and sold for junk. Among his examples was Millikan's oil drop experiment. I was rather startled to hear that — I thought the original was still in use in sophomore physics lab!

* * *

Went to see the road-show version of "Fiorello!", the Broadway musical, last weekend. Enjoyed it very much, since it was the first live musical comedy I've seen (who says Los Angeles is a cultural vacuum?). The thought occurs to me — 'twould be rather fun to do a parody on "Fiorello!" titled "Norrie!", featuring of course, our late unlamented (except by the L. A. Times) Los Angeles mayor. He might not be quite as sympathetic a character as Fiorello, but I'm sure he'd be just as humorous! Anybody got any ideas for lyrics or song titles?

* * *

Was walking down towards the book store last week when fire sirens began to sound. Traffic halted (in the middle of the street, of course, neatly blocking all approaches) while a pump truck worked its way toward the corner where I stood, siren screaming. It went on a half block past me, then stopped, backed to the corner. One fireman leapt off, taking the end of the hose with him, and dashed over to begin fastening it to the hydrant on the corner. Meanwhile the truck drove on down the street, playing out hose behind it.

From the other direction came another truck which performed a similar maneuver at the other end of the block. All this time police cars and fire chiefs' cars were arriving and efficiently di-

recting traffic around the block. Then a huge hook and ladder rig arrived, followed immediately by another. The entire block was filled with all this equipment in less time than it has taken you to read this description.

At this point the firemen began to notice something wrong. As the trucks were maneuvered into position, they jumped off, fire axes in hand — and then stood there, looking blankly around for any signs of a fire. There were none. Heads poked out of windows in the buildings all around, and they and the firemen queried each other about the location of the blaze without gaining any information.

Meanwhile the crowd on the street amused itself by urging the heads poking from fifth floor windows to "Jump! Jump!" Broad grins were in evidence everywhere and the firemen were beginning to suspect they had been tricked. Matter of fact, I made that assumption too and continued on to the bookstore, feeling that my broad grin might attract a bit too much attention when the firemen talked the cops into doing something.

Next day, though, I read in the paper that the brave lads of engine companies 1 and 3 had extinguished a grease fire on the stove of the Master's apartment in Saybrook College. Wonder what they did with those two hook-and-ladder trucks — the master's apartment is on the ground floor!

* * *

ROTC is a somewhat more respected institution here than at Tech. In fact, there are several branches of the services represented. Last week the large cannon in front of the Army ROTC building was miraculously changed overnight from its normal olive drab to a beautiful shocking pink. Though there was no direct evidence as to the identity of the artists, the Army boys thought they had some idea. You see, it was Navy Day, and the Navy ROTC's anchor in front of their building, half a block away, remained its usual battleship gray.

* * *

Among the mementoes of four years at Tech are quite a few "folk" songs which I hate to see die. This one should be sung to the tune of "Drill, Ye Terriers, Drill!" Credit for the lyrics goes to John Champion, John Trenholme and myself — it was written in 1957 or '58.

1. Every morning 'bout eight o'clock
There's 20 supervisors watching the walk;
The boss comes along, and he says, "Coffee time!"
And they all knock off till half past nine,
It's the life of the B & G.

Chorus:

The life of the B & G;
You loaf all day, then you draw your pay,
"Keep on looking busy!"
That's the life of the B & G.
The B. and G.

2. The boss is a good man, they all say —
A relic of the W.P.A. —
He works them some and then they hear,
"Let's all knock off for a glass of beer,"
It's the life of the B & G.

(CHORUS)

3. From between the bricks they were taking the sand,
There were 43 supervisors close at hand,
A man-hole opened, gaping wide,
And Big Joe Clod fell down inside.
It's the life of the B. & G.

(CHORUS)

4. When he got his check, to his surprise
There were 20 extra dollars before his eyes.
He showed the boss what he had found:
"Why, you get double time working underground!"
It's the life of the B. & G.

(CHORUS)

5. At InterHouse time we have to work
An hour a day and we can't shirk.
But we don't complain, 'cause we all know
That overtime will grow and grow,
It's the life of the B. & G.

(CHORUS)

Of course, I should hasten to add that any similarities between the new Physical Plant Department and the old Buildings and Grounds are purely coincidental!



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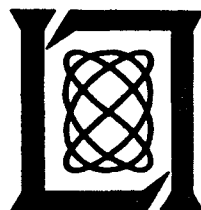
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Sunday String Concert Set

The Pacific String Quartet will be featured at a Chamber Music Concert on Sunday, November 12. The quartet consists of William Hymanson, violin; Albert Falkove, viola; Thelma Hanau, viola; and Jesse Ehrlich, cello.

This will be the second concert in the second series. The first, held on October 22, was

given to a capacity crowd and an equally large attendance is expected for the second concert.

The program is to include Haydn's Quartet in C major, Opus 54, No. 2; Serenade for String Quartet, Op. 1, by Samuel Barber; and Beethoven's Quartet in F minor, Op. 95.

The performance will start at 8:15 p.m. in Dabney Hall.



On Campus with Max Shulman

(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

POVERTY CAN BE FUN

It is no disgrace to be poor. It is an error, but it is no disgrace. So if your purse is empty, do not skulk and brood and hide your head in shame. Stand tall. Admit your poverty. Admit it freely and frankly and all kinds of good things will happen to you. Take, for instance, the case of Blossom Sigafos.

Blossom, an impecunious freshman at an Eastern girls' college, was smart as a whip and round as a dumpling, and scarcely a day went by when she didn't get invited to a party weekend at one of the nearby men's schools. But Blossom never accepted. She did not have the rail fare; she did not have the clothes. Weekend after weekend, while her classmates went frolicking, Blossom sat alone, saved from utter despair only by her pack of Marlboros, for even an exchequer as slim as Blossom's can afford the joys of Marlboro—joys far beyond their paltry price: rich, mellow tobaccos, lovingly cured and carefully packed, and an exclusive selectrate filter. Croesus himself could not buy a better cigarette!

However, Marlboro's most passionate admirers—among whose number I am paid to count myself—would not claim that Marlboro can entirely replace love and romance, and Blossom grew steadily morose.



"Accept these Gifts from Tom."

Then one day came a phone call from an intelligent sophomore named Tom O'Shanter at a nearby men's college. "Blossom," said Tom, "I want you to come down next week for the barley festival, and I won't take no for an answer."

"No," said Blossom.

"Foolish girl," said Tom gently. "I know why you refuse me. It is because you are poor, isn't it?"

"Yes," said Blossom.

"I will send you a railroad ticket," said Tom. "Also a hard-boiled egg in case you get hungry on the train."

"But I have nothing to wear," said Blossom.

Tom replied, "I will send you one suit of cashmere, two gowns of lace, three slacks of velvet, four shoes of calf, five socks of nylon, and a partridge in a pear tree."

"That is most kind," said Blossom, "but I fear I cannot dance and enjoy myself while back home my poor lame brother Tiny Tim lies abed."

"Send him to Mayo Brothers and put it on my tab," said Tom.

"You are terribly decent," said Blossom, "but I cannot come to your party because all the other girls at the party will be from rich, distinguished families, and my father is but a humble woodcutter."

"I will buy him Yosemite," said Tom.

"You have a great heart," said Blossom. "Hold the phone while I ask our wise and kindly old Dean of Women whether it is proper for me to accept all these gifts."

She went forthwith and asked the Dean of Women, and the Dean of Women laid her wise and kindly old hand on Blossom's cheek and said, "Child, let not false pride rob you of happiness. Accept these gifts from Tom."

"Oh, bless you, Wise and Kindly," breathed Blossom, dropping grateful tears into the Dean's reticule. "I must run and tell Tom."

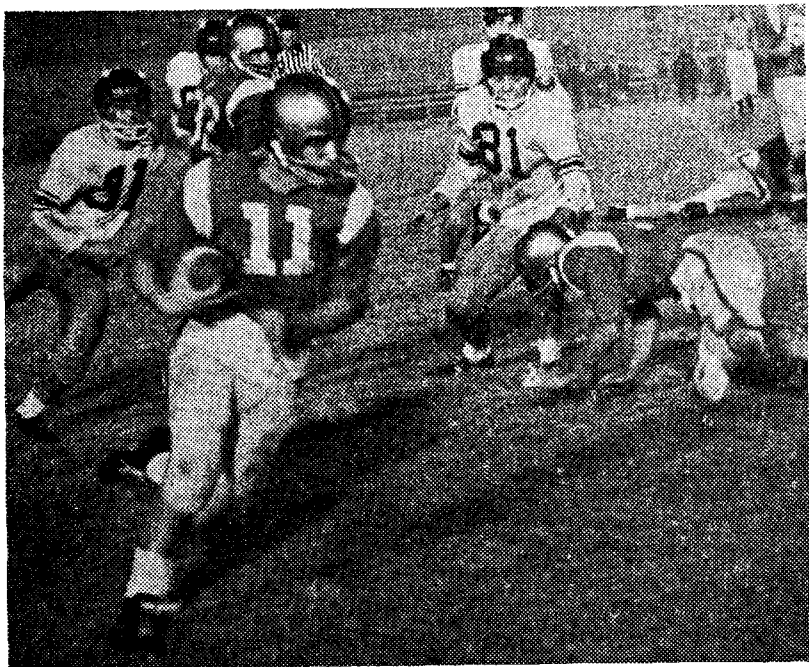
"Yes, run, child," said the Dean, a smile wrinkling her wise and kindly old eyes. "And ask him has he got an older brother."

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* * *

The makers of filter-tip Marlboro, who bring you this column, are also the makers of non-filter king-size Philip Morris Commanders, who also bring you this column. Have a Commander. Welcome aboard!

SPORTS



—photo by Bruce Sirovich

Beaver quarterback Bob Liebermann rolls out against Riverside.

Beaver Gridders Lose To UCR In Rose Bowl

BY GARY CHAMNESS

Caltech's Beavers suffered a disappointing defeat at the hands of the UCR football squad Saturday night in the Rose Bowl. The final score was 43-8.

In the first half victory looked possible, but second half Riverside played better football than any previous Caltech opponent, including tough Pomona. The Beavers managed to keep the UCR passing attack from breaking loose, if not exactly stopping it, but both on the ground and in the air the UCR offensive proved too strong. Though the tiring Beavers fought hard, they were ultimately overrun.

First Half

Riverside scored twice while Tech was warming up. Quarterback Warren Easley unleashed backs Chris Rinne and Bob Woertink to spearhead the UCR blitz. The latter scored both touchdowns for the Highlanders, while Larry Myers kicked the two extra points.

Caltech had the ball when the second quarter opened, and Jim Morrow made a beautiful kick out of bounds on the Riverside 3-yard line. The initiative passed back and forth, always in UCR territory as the Beaver defense held solid and the offense played a tight, controlled game. Then Chuck Vinsonhaler snagged a Riverside pass at the 32. Quarterback Bob Liebermann threw to Vince Hascall, and Hascall made it to the 14. On to the 7-yard line and time out, fourth and four with 39 seconds to go. ran to a bare first down with Liebermann rolled out and then twenty-four seconds to go. Liebermann was chased, rolled far out, and then threw a neat bullet to Jack Arnold in the end zone for the lone Caltech touchdown. The same combination clicked again for two more points. There was just time for an onside kick before the half ended.

During halftime, UCR's four bouncing cheerleaders enter-

tained the Techmen to the music of Kauffman's Redcoats. The girls seemed to show a marked preference for the Caltech side of the stadium, and refused to go home until the teams came back to the field for second half.

The second half belonged to Riverside. Stu Fox and Tom Michaelson were added to the UCR attack, with devastating effect. Caltech had some fine individual performances — drives by Steve Gorman, Ed Cline, and Vince Hascall, good defensive play by ends Jack Arnold and Evan Hughes, a long pass caught by Frank Ridolphi, and a forward punt recovered for Tech by Larry Ruff. With four minutes to go, the Beavers mounted a last-ditch offensive which rolled to the UCR 20 before breaking down. The game ended 43-8 for Riverside.

Oxy Game . . . Sigh!

Next Friday night Caltech meets Occidental College at Oxy. The Tigers have a powerful team this year, ranking fourth in passing offenses among the small colleges (NAIA). Quarterback Lloyd rates second in passing and fourth in individual total offense, and end Cerveney, an 880 man in the off season, holds ninth in pass receiving. But the Beavers traditionally put up a spirited battle against Oxy, and Friday evening may see a good showing against a much stronger opponent.

Harrier Varsity Loses, Frosh Win From Pomona

The Caltech cross country team encountered mixed results in their meet Friday in Tournament Park.

The frosh, in a consistent team effort, beat the Pomona frosh 25-32. Although Pomona had two "pacesetters", the frosh copped the next five places for the victory.

The varsity, handicapped by injuries, was defeated again. The score was 40-15.

Oxy, Claremont Down Webmen

It was a tough week for the Caltech water polo team. To begin with, they lost Gary Mitchell, one of their starting forwards, when he broke his thumb during practice by hitting Art Turner on the head while shooting. He is out for the season. Then Bruce Chesebro, high scorer, caught an ear infection and was laid low. So it was a very much weakened Beaver squad which had to face Oxy on Tuesday.

The result was predictable, although the score of 20-1 was a shock.

The Beavers scored their lone goal in the first minute of play when McCammon scored on a two-on-one situation. From then on, however, it was the Tigers' ball game. Two Tigers, George and Tarbell, accounted for two thirds of the Oxy scores, netting seven and six goals respectively. The rest were scattered. The victory, coupled with Redlands' surprising loss to CHM put Oxy solidly in first place at the half-way mark of the season and left the Beavers last with a 1-3 record.

Claremont Game

On Friday at Claremont, the Beavers suffered another defeat at the hands of the revitalized Stags. Chesebro was back in the game but was not at peak form. Nonetheless he accounted for all of the Tech goals in the 9-4 loss.

It was a tight game for the first ten minutes of play and midway during the second quarter the score was just 2-1. But then the Stags started to steadily pull away and had piled up a 7-1 lead by the end of the third quarter. Tech staged a brief revival and scored three goals in as many minutes, but then lapsed again as the aggressive Stags racked up their third straight conference victory.

Next Game

Tomorrow the Beavers play host to El Camino at 4 p.m. in their last non-conference game of the season, and on Tuesday they will face the Redlands Bulldogs here. In the first game against Redlands there, the Beavers lost a thriller 7-5, so this is expected to be a very good game.

Frosh Webmen Find Conference Foes Stiff Competition

Like the varsity, the frosh water polo squad also had a hard week. On Tuesday they went under to a superior Oxy squad in a 29-0 rout. From the beginning of the game it was obvious that the Techmen, their ranks seriously thinned by midterm snaking, were no match for the powerful Oxy forwards. The Tigers, taking advantage of their superior speed and Reedy, their very outstanding forward, swam to an easy victory over the comparatively inexperienced Techmen.

On Friday, against CHM, however, it was a different story. Claremont built up a 9-0 lead at the half, but then tired as the Techmen caught fire and began to show some of their own ability.

The lead was too great, however, and the frosh were defeated by the score of 11-5.



Beaver Chips

By Noll

Downed By the Riverside

The Riverside game established several points about this year's football team. It was made abundantly clear that the chances for victory again this season are rather minimal. So minimal that people betting on Caltech look upon a 100-1 shot as a favorite. Occidental and Claremont may catch us looking ahead—to next season.

It was also made clear that Bob Liebermann has turned into a fine quarterback and team leader, in spite of the fact he didn't go to leadership camp. Liebermann called an excellent game on two occasions—the touchdown drive and the end-of-the-game scoring threat highlighted by a pass to Frank Ridolphi. On both occasions the Beavers looked good enough to warm the hearts of the most convinced cynic.

Another fact was reestablished for the benefit of the few remaining unbelievers—Ed Cline is a very good fullback. Cline picked up several impossible first downs, getting five yards by burrowing under the line of scrimmage. When Cline is able to discard his several pounds of leg padding, probably by the last game of the season, he ought to really chew up the opposition.

New Bases For Hopes and Dreams

The varsity basketball team is halfway along the long road of practice before the first game December 1. The squad will be the best since 1954, when the Beavers won the championship. The key to this year's squad is depth—at every position the Beavers are two or three men deep, a strange commentary for Caltech athletics. At guard are Gerber, Arndt, Clough, Dahlman, Rux and Tegeland; forward Bopp, Perlman, Burgess and Weiss; center Noll, Dunn and Ricks.

For certain, the record of the team will be better than last year's—perhaps 80% wins. The biggest reason for this is that the schedule has been considerably weakened the past few seasons. Three years ago the Beavers were playing LA State, Cal Poly, UC Santa Barbara and San Fernando State—now Valley State. Last year the Beavers played Orange County State, which was on a par with the other State Colleges. This year, all of these teams have been dropped, with Cal Western being the only major independent left on the schedule. In their places have stepped Biola, Azusa, LA Pacific and Upland—each of which should provide the Beavers with two victories.

Another factor that should produce a winning season is a general decline in the calibre of SCIAC teams this season. Occidental, whom we beat once last year, lose its top three scorers and All-Conference players, and should be much weaker than a year ago. Even powerhouses Redlands and Whittier were hit heavy by graduation. Only Jack Shroeder, the best player in the conference, returns from the starting five for Redlands. Whittier lost every top player except Hank Ashbaugh, and he is a doubtful starter due to his trick knee.

Two other traditional foes, LaVerne and UC Riverside, will round out the schedule. LaVerne lost its only noteworthy player, Ken Hardwood, and last year's Beavers clubbed LaVerne by seventeen points. Riverside lost little through graduation, and could turn out to be one of the Beavers' toughest opponents.

As you may have guessed, the outlook is bright—very bright—for an excellent season, maybe even a conference championship?

Dabney Wins Third Game In Trophy Race

Dabney beat Page decisively in a basketball game last Wednesday 34-12 to widen its Discobolus Trophy lead to five points over Fleming. The win was the third in succession for the men from Dabney.

The hero of the Darbs was Rich Peterson who scored eighteen points and also played a beautiful game on defense. His rebounding and scoring led a Dabney surge in the first half which netted them fourteen points in a row to overcome a 4-2 deficit and put them out of Page's reach. The Darbs controlled both boards for most of the game with Peterson and Don O'Hara excelling in the rebounding department. Both Carl Hamilton, who scored seven points, and Jerry Gowen, who scored four, also played very well and contributed a great deal to the winning effort. The score at the half was 20-6.

InterHouse Tennis Begins Next Week

Tennis, the next InterHouse sport, starts next week in what can be described as a completely unpredictable contest. Lloyd, last year's tennis champs, lost all five of their starters to the frosh and varsity tennis teams and to graduation, and are not expected to repeat. Most of the other outstanding performers of last year are now gone on similar routes. For this reason, the tradition of InterHouse tennis as characterized by an uneven contest between mediocre upperclassmen and outstanding and unfortunately eligible freshmen shall continue.

The men from Dabney take on Blacker in handball next in the Discobolus competition. The standings at the moment are:

Dabney	9 points
Fleming	4 points
Ruddock	1 point
Page	0 points
Blacker	0 points
Lloyd	0 points
Ricketts	0 points

Soccer Game Lost To Refs

BY BILL HOWARD

The soccer team's game with Pomona last Saturday might superficially have seemed a contest between equals. But when the Beavers' team suffered unrelenting and gratuitous referee calls of "off sides," thwarting nearly every Beaver attempt to bring the ball forward to the Pomona goal zone, it could prove no less than a demoralizing handicap, an onus on the fine passing game the team has developed. As a result Pomona won the game 2-1.

It was widely agreed that center forward Jerry Davis must have run too fast — the referee refused to believe that he could have gotten so far forward of the Pomona fullbacks without having started goal-ward of the latter as the ball was being passed to him. Fortunately, however, this travesty of soccer refereeing did not stop Davis from taking the ball almost fifty yards, past the Pomona defense lines and up to the goalie around whom he kicked to scope the only goal in the first half of the game.

This 1-0 score went unchanged until nearly thirty minutes of the second half had elapsed when a pair of penalty kicks against the Beavers resulted in a successful goal kick by Pomona.

Increasingly demoralized by these seemingly unprovoked and unnecessary calls, the Beavers relented in their maintenance of firm defensive control and permitted the opposing forward to slip through to score Pomona's second goal.

The soccer team plays its next game against Biola Saturday. Game time is 10:30 a.m. in Tournament Park.

Brady Civil War Prints Showing in Dabney Lounge

Photographs of the Civil War, a series of 44 original prints made by the eminent 19th century photographer, Matthew Brady, will be on exhibit in Dabney Lounge through November 18.

Included in the exhibit are photographs of Lincoln, his wife Mary Todd Lincoln, George Meade, and Generals Robert E. Lee and Ulysses S. Grant, as well as scenes of battlefields, encampments and Union soldiers. Brady's work during the Civil War, involving the exposing and processing of more than 7,000 negatives, was an important pioneering effort in photo-journalism. At the outbreak of the war in 1861, Brady was well-known as a portrait photographer, and was able, through influential friends in Washington, to obtain authorization to follow the Union armies and compile a photographic record of the war.

The showing is open Monday through Friday, 9 a.m. to 5 p.m. and Saturday, 9 a.m. to 12 noon. It is the property of Roy Meredith and is circulated under the auspices of the Western Association of Art Museum Directors.

Left-Wing Football Back

Ed. Note: The following was taken from the student newspaper of the Polytechnic Institute of Brooklyn, the **POLYTECHNIC REPORTER**, of October 26, which in turn had taken it from the **CHICAGO MAROON**.

"Od'in! Dva! Tree! Chetir'e! Hike!

"Football is back! Dissident elements on campus, dissatisfied with the lack of 'good clean fun' among the campus radicals, have revolted and organized a 'left-wing' football team.

"Known provisionally as the 'flying bolsheviks,' the group will use thoroughly unorthodox tactics. Among other innovations, they will call the signals in Russian. According to a well-known campus politician who asked not to be identified, they will also change traditional football nomenclature. The ends will be known, respectively, as left-wing extremist and right-wing extremist. Center position will be held by a member of the Young People's Socialist League (YPSL).

"A backfield shift will be known as a 'change in the party line,' and huddles will be referred to as 'caucuses.' Wing-backs will be known as 'deviationists.'

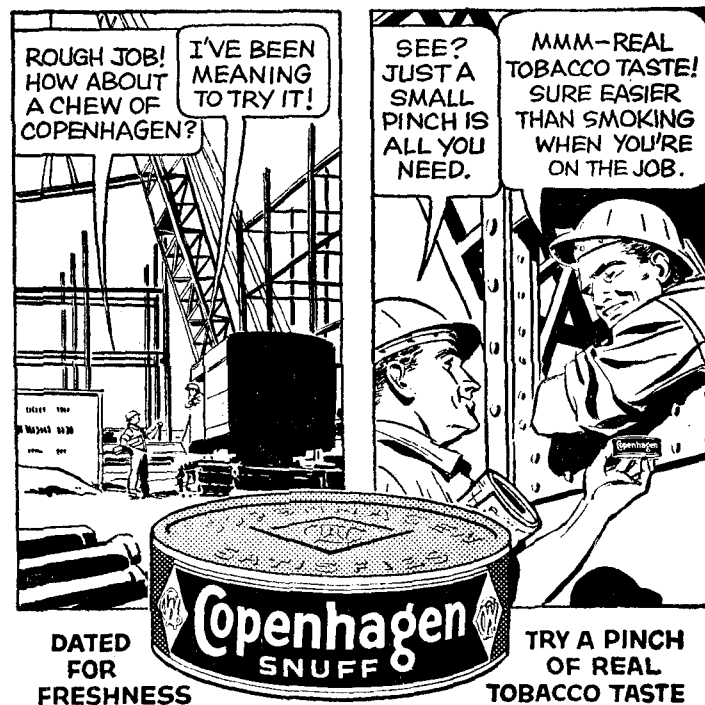
At a secret meeting to plan strategy, the team decided that Trotskyites would be allowed on the team only for the execution of sneak plays.

"The team will refrain, on principle, from using the Statue of Liberty play. This will be replaced by the 'Lenin-Stalin mausoleum' play, involving the 'withering away' of the opposing team's morale.

"Cheerleaders will not lead cheers; instead they will picket the opposite stands. Uniforms for the cheerleaders are black stockings and green Harvard bags.

"New recruits are being discouraged," according to the group's spokesman. "We already have 25 guys and the first big purge is in order."

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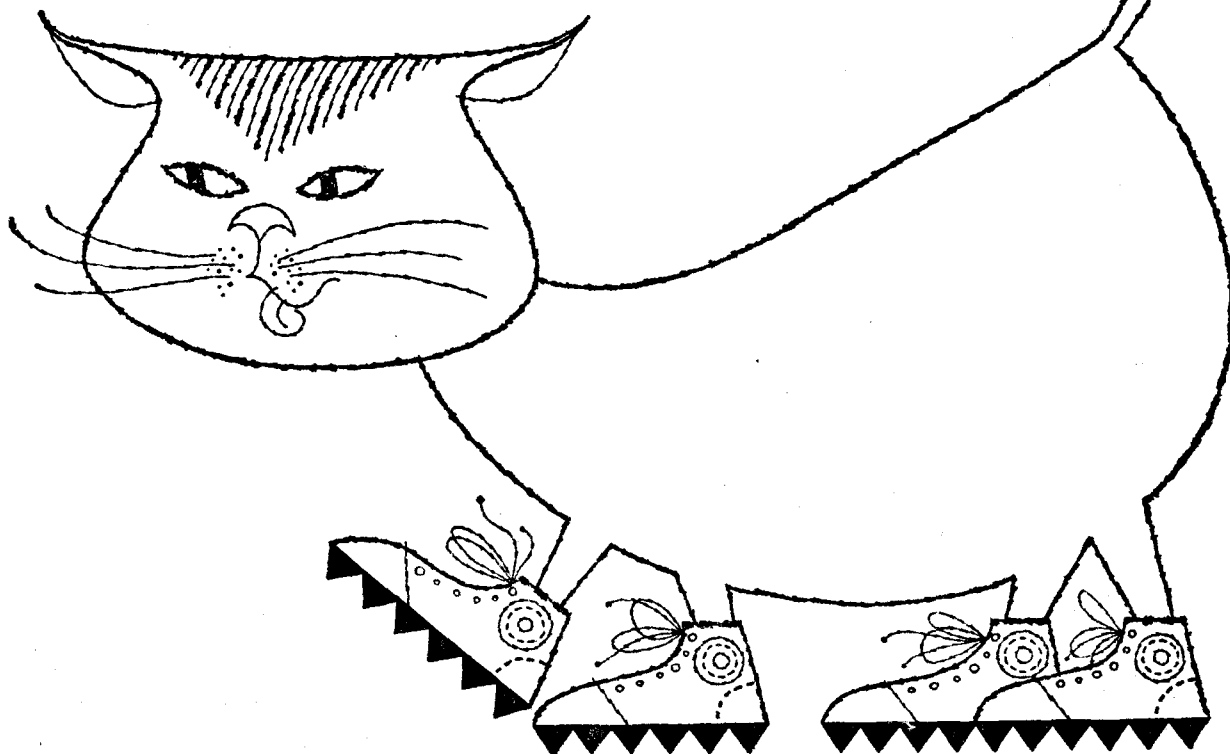
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AND BILL TIVOL

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H—Q 10 9 4
D—K 4
C—A K 3

WEST
S—8 4
H—A 6 3
D—10 8 6 5
C—Q J 7 4

EAST
S—K 3
H—8 5
D—A J 9 7 3
C—10 8 6 2

SOUTH
S—Q 10 9 6 5
H—K J 7 2
D—Q 2
C—9 5

East-West vulnerable. North dealer.

NORTH	EAST	SOUTH	WEST
1 NT	Pass	2 C	Pass
2 H	Pass	2 S	Pass
3 S	Pass	4 H	Pass
4 S	Pass	Pass	Pass

Opening lead: Three of Hearts.

Featured this week is the Stayman convention. In this convention, a response of two clubs to a one no trump bid asks the opener to name any four card major suit he has. If the opener has two four card suits, he customarily bids hearts first. If he has no four card major suits he bids two diamonds with a minimum hand and two no trump with a maximum hand. There are two kinds of Stayman, forcing and non-forcing. In forcing Stayman, a bid of two clubs forces the partnership to game; in non-forcing, either player can pass below game level. Either type of Stayman may be played over weak no trump openings as well as strong. Further, Stayman can be played over two and even three no trump opening bids.

In the hand above, the North-South partnership is using forcing Stayman. North, as you know, names his hearts first. South would prefer spades if North has four of them and so offers the suit at the two level. North is uite happy to support it, since South is not necessarily promising both majors. North's three spade bid promises only three spades, for South should not bid spades without five of them. Since a four-four trump fit is preferable to a five-three trump fit, South bids four hearts. North, realizing that South has four hearts but at least five spades, bids four spades.

This precise bidding gives the defense an excellent count of the hand, as well as the offense. West, realizing his partner has exactly two hearts, opens a small heart. Now, if South, after winning the heart trick, tries the spade finesse, he will go down. For East will take the king of spades, lead a small heart to his partner's ace, and ruff his partner's heart return. East-West must eventually get a diamond trick which sets the contract. Therefore South must refrain from taking the spade finesse, making just four spades.

Drama Club Meeting Set

Caltech's Drama Club holds its first meeting next Wednesday evening in Lloyd House conference room or lounge, with a presidential election and a general planning session on the agenda.

The need for a director and the extent of the Club's activities for the rest of the year are expected to involve old and new members in spirited conversation from 7:30 till 9, according to Acting President Pete Lippman.

Announcement of the meeting, made jointly by Lippman and vice-president Jon Kelly, will be communicated to many off-campus "Old Standby" members of the Club (grads, faculty members, JPL Secretaries, and others), so that the meeting will probably be of considerable size.

Kismet Next Film

The November 19 film of the YMCA series will be the musical "Kismet." The film, starring Howard Keel and Ann Blyth, features the music of Borodin. The YMCA boasts a fine high fidelity system for sound reproduction of the musical score of this popular stage hit.

The show will start at 7:30 p.m., in Culbertson. Admission requires the exchange of seventy-five cents for a ticket. Season ticket holders may, of course, forego the necessity for monetary transactions.

Helpers Gather

The Caltech Service League has scheduled its first meeting of the year for Monday, November 13, at 2:15 p.m. The meeting, which will take place in the Athenaeum, will feature Dr. Clarence R. Allen, Associate Professor of Geology, who will speak on "Earthquakes and Faults in Southern California."

The Service League is a group of Caltech parents, faculty and friends who work at various phases of aid to students. Services of this group, now in its fifteenth year, include help for out-of-town students in emergencies, maintenance of a wardrobe for students who wish to borrow special clothing, administration of the Well Baby Conference, providing refreshments at the InterHouse Sing and chaperones for Lost Weekend.

Finances for the Service League are derived from annual dues of \$2.00 and the proceeds of the annual spring benefit.

SUMMER JOBS IN EUROPE

Write to: American Student Information Service, 22, Ave. De La Liberte, Luembourg

ExComm: 'Elect BOC Members By House'

(Continued from page 1)

submitted before election time. The four new members, elected or appointed, would take office at the beginning of third term.

Then, during third term, seven new House members would be elected to take office at the beginning of first term, the next year. Thus, at the beginning of any school year, the continuity of the BOC would be assured by the four old members who took office at the beginning of third term, the previous year.

House Election Reasons

Clearly, the major feature of ExComm's plan is the replacement of BOC members elected from classes by members elected from the Houses. There are several reasons why ExComm suggested this change:

First: ExComm feels that students could elect better BOC members if they knew better the group they had to choose from. You are likely to be more acquainted with the people in your House than you are with the people in your class — and you can probably do a better job of selecting BOC members from people you know. Because of the enormous power that the BOC wields, candidates for membership on it should be carefully considered by the students who elect them. If such consideration is done on the basis of better knowledge of the candidates (as would be the case in the ExComm plan), then better people would presumably be elected to the BOC.

Second: Along similar lines, ExComm believes that people would think more about BOC members, and give them more prestige, if the elections for the Board were held at a separate, specific time third term. Currently, BOC elections are held in connection with class elections, and the number of Caltech students who pay real at-

tention to class elections is small indeed.

Third: BOC members elected from the Houses would probably be juniors and seniors, presumably more mature students who would be better able to make the difficult decisions the BOC must make — whether a person is guilty of violating the Honor System or not; and if he is guilty, how to punish him. These are decisions requiring maturity, and ExComm thinks that upperclassmen would be better able to meet them. (By similar reasoning, ExComm also suggests that the BOC secretary be a member of the sophomore or junior class when he is elected.)

Why Appointed Members?

By replacing eight class members by seven House members, the present number of people on the Board is changed. Since ExComm and current BOC members both think that the present numerical arrangement of the BOC is a good one, an appointed member is suggested by ExComm to keep the BOC at its present strength.

ExComm also thinks that the ASCIT president should have no automatic claim to BOC membership. Many presidents are elected for different qualities than those making for a good BOC member — a good political president is not necessarily a good person in a judicial position. Also, many presidents in the past have merely treated the BOC and its problems as extra added responsibilities, instead of as continuing, vital issues of concern, as they clearly should be.

Hence, the ExComm plan deprives the ASCIT president of automatic BOC membership, and to keep the numbers equal, substitutes another appointed member in his place.

The appointed members would be named by the old Board, after ASCIT elections, thus pro-

viding for non-politically appointed BOC members. Hopefully, people would both run for office and apply for the BOC, thus insuring that even if a good person were, say, not elected to be ASCIT vice-president, he could still be appointed to the Board. Also, under this system the newly-elected ASCIT president could be appointed to the new BOC, if the old BOC thought he would be a suitable member.

According to the testimony of BOC members, people who are appointed to the Board (as they have been to fill vacancies in the past) almost invariably do a good job since they are named by the people who really know what a good BOC member should be like. Thus, the appointments also serve to further the basic ExComm philosophy of getting better people on the Board. A person who is really interested in being on the BOC (and such people would probably be better members) has essentially three chances to become a member—during ASCIT elections, during appointments, and during House elections.

Interested People

ExComm feels that a system like the one outlined above will produce more interested, and better BOC members. As was stated above, the BOC is probably the single most important student group on campus, both in terms of its influence on student life, and in its influence on what the faculty feels towards the student body as a whole.

If responsible, informed, mature students are to be elected to any ASCIT organization, then they should be elected to the BOC. The ExComm plan is directed toward that aim — to get the best people possible to serve on the Board of Control.

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• CAMPUS INTERVIEWS •

MONDAY, NOVEMBER 13, 1961

frets and frails
Sea Song Right For IH Dance

BY JOHN D. CROSSMAN

The song I have chosen for this week can be heard on Joan Baez's album VRS-9078 (Vanguard).

HENRY MARTIN

1. THERE WERE THREE BROTHERS IN MERRY SCOTLAND, IN SCOTLAND THERE LIVED BROTHERS THREE, AND THEY DID CAST LOTS WHICH OF THEM SHOULD GO, SHOULD GO, SHOULD GO. FOR TO TURN ROBBER ALL ON THE SALT SEA.

2. The lot it fell upon Henry Martin, The youngest of all the three, That he should turn robber all on the salt sea, salt sea, salt sea, For to maintain his two brothers and he.
3. He had not been sailing but a long winter's night, And part of a short winter's day, When he espied a lofty stout ship, stout ship, stout ship, Come a-bibbing down on him straightway.
4. "Hello, hello!" cried Henry Martin, "What makes you sail so nigh?" "I'm a rich merchant ship bound for fair London Town, London Town, London Town; Will you please for to let me pass by?"
5. "O no, O no," cried Henry Martin, "That thing it never can be, For I have turned robber all on the salt sea, salt sea, salt sea, For to maintain my two brothers and me."
6. "So lower your topsail and brail up your mizzen, Bow yourselves under my lee, Or I shall give a fast-flying ball, flying ball, flying ball, And your dear bodies drown in the salt sea."
7. With broadsides and broadsides and at it they went For fully two hours or three, Till Henry Martin gave to her the death shot, the death shot, the death shot, Heavily listing to starboard went she.
8. The rich merchant vessel was wounded full sore, Straight to the bottom went she, And Henry Martin sailed away on the sea, salt sea, salt sea, For to maintain his two brothers and he!
9. Bad news, bad news, to old England came, Bad news to fair London Town, There was a rich vessel and she's cast away, cast away, cast away, And all of her merry men drowned.

Interhouse Dance Betas Win Award

(Continued from Page 1)

coming up with an all-dry theme. Though the "50-foot" devil has now diminished to a paltry 10-foot creature leaning benignly out from the roof over his visitors, the rest of Hell is in fine shape. The lounge has been converted into a maze of tunnels, and visitors may escape from the labyrinth into another maze of rock walls in the courtyard. Here lurks a headless man who points grimly from his habitat at a small corner wherein is found a small circle of "flame", to support the theme.

Soon everyone can sit back and wait for the rain.

The Caltech chapter of Tau Beta Pi initiated eleven new members, nine seniors and two juniors, in ceremonies held last Friday at the Rodger Young Auditorium in Los Angeles. Members are chosen on the basis of outstanding character and participation in school activities as well as superior scholarship. Initiated were Carl Baum, Dick Chang, Vic Engleman, Pete Metcalf, Ray Plaut, Julian Prince, Dick Robertson, Gaetan St. Cyr, Lance Taylor, Warren Teitelman and Joel Tenenbaum.

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BY JOHN BERRY

I have been assured that the Geology faculty never heard of "Geology Punch", and therefore feel called upon to wax historical. This drink arrived at CIT in the early '50's, coincidentally, so legend hath it, with the arrival of Dr. Jahns of the Geology department. It had become famous enough by '57 to be included in that year's Springboard. I reproduce, loosely, that recipe.

GEOLOGY PUNCH

- 1 fifth light rum
- 1 fifth white wine
- 8 oz. lemon juice
- 6 oz. simple syrup
- 1 quart gingerale

Mix all the non-carbonated ingredients in a half gallon jug one or two days before serving. They should just fit. Chill, and add the gingerale just before serving. It makes about 15 to 20 cups. The theory behind aging the punch a day is that the mixture may esterize. That is a moot point, but it is inarguable that the delay does mellow the brew.

Particularly hardy souls may use two fifths of rum or use 153 proof Hudson's Bay Demarara Rum. Some may want to increase the sugar to 8 oz., or age the punch before adding the white wine.

The taste of the punch is that of a light wine punch, but it packs a real wallop. Use any reasonably cheap white wine that you like the taste of. The taste comes through, but the lemon juice makes any expensive wine wasted.

One particularly insidious play is to serve both Geology Punch and Adios Amigos Punch at a party. It turns out that those who like their punch mildly spiked will drink A. A. Punch in the belief that that is the kind they're imbibing, and those who want punch "without" will drink Geo. Punch, all getting plowed.

Here are two drinks that use only Creme de Cacao as an alcoholic ingredient. Try both and you will see how great a variation is possible with only simple changes.

ANGEL'S TIP

- 1½ oz. Creme de Cacao
- ½ oz. thick cream

Serve in a liqueur glass, carefully floating the cream on the top. Top with a marachino cherry. The name is a euphemism.

LIEBFRAUMILCH

- 1½ oz. Creme de Cacao
- 1½ oz. cream
- juice of one lime

Put the cream into the shaker last and immediately shake madly. This is a two layer drink, with a different taste for every ratio of top to bottom layer. I particularly recommend this drink.

HARRY'S ★
★ CAMERA

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YMCA Starts Annual Finance Drive; Sets Goal Of \$2500

The Caltech Y.M.C.A. Finance Drive, running from next Monday to Friday, begins with net plans for a goal of \$2,500 from students on campus. House donations will be handled by House chairmen, and students may elect to pay the painless way — on term bills.

Last year's Y activities, which cannot be similarly continued this year without student donations, included visits by Margaret Mead and Archibald McLeish on the Leaders of America program, plus lectures by Linus Pauling, Senator John Carroll, Richard Feynman, Denis Mickiewicz and the Yale Russian Chorus, Robert Sharp, Harrison Brown, and many others.

Y activities also include many different lectures on national and international affairs, arms control (separate from the Carnegie lectures), Man and the Arts, folksinging and folk dancing, Religious Emphasis discussions, sex lectures, and visits by theological students.

Finally, many different conferences of different sizes, shapes, and forms were attended by various sizes, shapes, and forms of CIT delegations. These, along with regular activities such as the used book exchange and student short-term loans, are some of the activities of the Caltech Y for which student support is being requested in the Y.M.C.A. Finance Drive.

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Kannaiah Konuri

Indian To Speak Monday

Kannaiah Konuri, lawyer-businessman-politician from India, will speak at the Y Diners' Club meeting Monday, November 13. His topic will be "The Two Democracies—the United States and India." Dinner starts at 6:30 p.m. "Diners' Club meetings and talks are informal affairs," chairman Gerald Chandler points out. "Suits and ties are not required." Mr. Konuri will begin his talk at about 7 p.m., and those who are unable to come for dinner are invited to come then.

Konuri feels that, "a speech on such a vitally important topic by an unofficial ambassador coming from the largest democracy in the Orient would be of great interest and consequence . . . to . . . students, on whose shoulders the preservation of democracy rests." He is anxious to promote better relations between his country and the United States. "He is an excellent speaker and is an interesting, informed Indian dedicated to the cause of Indo-American friendship," said Dr. Raymond Moore, Acting Head, Department of International Studies, South Carolina University.

Konuri is a staunch exponent of the Gandhian philosophy of life. His work in India is excellent proof of this.

He is a firm believer in the "gospel of selfless action" and holds that man can justify his existence only when he lives up to that ideal in his daily course of human conduct. Early in life, as a student, he was interested in the farmers' problems. Once, he organized a project to improve the breed of cattle (Brahman bulls) and thus helped the farmers.

In the first general election held after independence he ran for office and came in third, the winner being the Communist candidate.

Immediately after his defeat in the Parliamentary elections he was elected president of an organization campaigning for the establishment of a project in India similar to the TVA in this country. This effort took forty-six months before it materialized in December, 1955, and the project is now in its 6th year of operation, the biggest irrigation project in India, with 4 million acres as commandable area.

Kannaiah Konuri made two trips to the United States in

1957-58 and 1958-59, and stayed for periods of five months each time. He is now here on his third trip, and will be here until January, 1962. His efforts are purely private and are undertaken in his capacity as an unofficial ambassador.

As at past Diners' Club meetings, the program will consist of a talk approximately fifty minutes long, followed by a short question and answer period. After a short break at about 8 p.m. the group will reconvene.

Brewins

Nicely, Nicely, Newmar

Floyder J. Newmar may soon be cured of boorish dining habit. At dinner last Sunday Beak observed him applying football-type straightarm across table to retrieve elusive saltshaker hidden behind pitcher of Saga goosejuice. His hand, however, made a beautiful five-point landing in some catsup thoughtfully placed by M. Goat.

Scurves Scalded

Scurve contact, Toad, had good fortune in form of recent date. Attempt to snow wench is met by multitudinous sounds filtering through open transom. Rowdy Frosh quickly cease relating interesting but rather obscene tales upon hearing female-type laughter in Toad's room. Beak wonders if Techmen will ever learn.

Floyder Flubs

Scene 1: Mathman Wiseman, after essaying integral theory exam, is delighted to hear classmates discussing same embellished with blunt expletives. Turns in test. Scene 2: Next classmeeting, subject gets back bluebook endowed with red-penciled comment on author's sense of humor. Opens test to see blank pages. Explains to prof., red faced: "In my haste . . ."

Sidewalk Super Shot Down

Workwatcher Torso, of Scurvey House, was hard at work, watching, as large surf was being assembled for coming gala party. Noticing misfit of sections, Torso demands to know who was responsible for gross error. Workweary Frosh, weary also of ever-present sidewalk superintendent, demands to know who didn't help assemble and raise said structure. All in quiet as defeated workwatcher silently retreats.

Lloyd Lover left in Lurch

Frosh Swish, low man in Floyd Frosh interest test, finds himself in the envious position of being approached by an "exceedingly neat" (sic) Scrippsie at recent exchange. Always anxious to make the most of an opportunity, Swish repeatedly petitions President Chevrolet for repeal of the inverse 10:30 rule — to no avail. Swish, and friends finally decide to move party to Prexy's room, where all

proceed to quench their thirsts with juice of aged molasses. Query to date regarding activities this coming weekend brings pleasant affirmative response for Frosh. Intent on seeing that date does not run dry, however, Swish neglects to count quantity he has consumed. As evening wears on, Swish becomes less (if possible) inhibited and wench becomes less calm. Suddenly Scrippsie asks: "When is this dance?" "But that's our Homecoming, and my fiancé is coming down from Stanford." Shattered Swish is even more disturbed next day when friend of Scrippsie Number One points out that said Scrippsie is not engaged, Swish last seen beating head against various walls of Floyd House.

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WINNERS

VICEROY FOOTBALL CONTEST No. 2

(For games played Saturday, Oct. 21)





1st Prize
\$100.00
CASH!

Larry Rabinowitz, junior math major, won the top prize of \$100 in Viceroy's Contest Number 2.

5 PRIZES OF \$10 EACH WON BY THESE STUDENTS ON CAMPUS!

Plus—A carton of Viceroy's to all students who got all the winners right, regardless of scores!



Here Are the Contest Rules:

- Any student or faculty member on this campus may enter except employees of Brown & Williamson, its advertising agencies, or members of their immediate families. All entries become the property of Brown & Williamson—none will be returned. Winners will be notified within three weeks after each contest. Winners' names may be published in this newspaper. You may enter as often as you wish, provided each entry is sent individually. Contest subject to all governmental regulations. Entries must be postmarked or dropped in ballot box on campus no later than the Wednesday midnight before the games are played and received by noon Friday of the same week. The right to discontinue future contests is reserved.
- Entries must be in contestant's own name. On the coupon in this ad or on an Official Entry Blank or piece of paper of the same size and format, write your predictions of the scores of the games and check the winners. Enclose an empty Viceroy package or a reasonable rendition of the Viceroy name as it appears on the package front. Mail entry to Viceroy at the Box Number on the entry blank, or drop in Viceroy Football Contest Ballot Box on campus.
- Entries will be judged by The Reuben H. Donnelly Corp., on the basis of number of winners correctly predicted. Ties will be broken on the basis of scores predicted. Duplicate prizes awarded in case of final ties.
- Winners are eligible for any prize in subsequent contests.

(Attach Viceroy package or facsimile here)

Viceroy College Football CONTEST NO. 4

Here are my predictions for next Saturday's games. Send my prize money to:

NAME _____ CLASS _____

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ADDRESS _____

WIN	SCORE	WIN	SCORE
<input type="checkbox"/> U. C. L. A.	_____	<input type="checkbox"/> Washington	_____
<input type="checkbox"/> So. California	_____	<input type="checkbox"/> Pittsburgh	_____
<input type="checkbox"/> Long Beach St.	_____	<input type="checkbox"/> Pepperdine	_____
<input type="checkbox"/> Princeton	_____	<input type="checkbox"/> Yale	_____
<input type="checkbox"/> Michigan	_____	<input type="checkbox"/> Iowa	_____
<input type="checkbox"/> Army	_____	<input type="checkbox"/> Oklahoma	_____
<input type="checkbox"/> L. S. U.	_____	<input type="checkbox"/> Mississippi St.	_____
<input type="checkbox"/> Stanford	_____	<input type="checkbox"/> Washington St.	_____
<input type="checkbox"/> Notre Dame	_____	<input type="checkbox"/> Syracuse	_____
<input type="checkbox"/> Calif. Tech.	_____	<input type="checkbox"/> Claremont (Nov. 17)	_____

Contest open ONLY TO STUDENTS AND FACULTY ON THIS CAMPUS.
Mail before midnight, Nov. 15, to: Viceroy, Box 94-C Mt. Vernon 10, New York