Annual ASCIT
Charities Drive
Begins Monday

ASCIT's annual Charities Drive will begin next Monday, and continue for one week until Friday. The drive is for the charities benefiting from the Drive will be The Los Angeles County Heart Association, the Pasadena Community Chest, and the YWCA World University Service.

In order to encourage more participation contributions, the Drive will be run as a contest, and the winning house will receive a faculty-sponsored steak dinner. Each House will be assigned a quota of students in proportion to the number of students in the House, and will be responsible for getting donations from these students. The quota may be raised at the request of the members of the House, and the amount collected will be included in the total.

Although the steak dinner will be from Saffa, it will be an extra, and not a regular meal at the Saturday evening meal. The dinner will be held Wednesday evening. The House with the highest per capita amount collected, the assigned grade students will be included in the total.

There will be a report on the proceeds of the drive, Monday, February 11, the last day of the drive, and the final deadline for contributions will be 3:00 that afternoon.

Bradbury Will Explain Space Age Creativity

Science fiction author Ray Bradbury will be on campus next Monday, February 4, at 11 a.m., in Doheny Lounge, under the auspices of the ASCIT- Alumni Committee.

Ray Bradbury has been noted for many science fiction novels and short stories. His latest novel is “Something Wicked This Way Comes,” and his latest short story collection is “I Am Rocket.” In February, he will have a book of one-act Irish plays entitled “The Anthem Squirting,” in the coming year he will have three stories in Playboy, and his novel “Parahemelt” is being filmed by the French director, Francois Truffaut.

Bradbury’s topic at his Wednesday speech will be “Creativity in the Space Age.” Bradbury writes that “I’m a nice, large-sounding title, which will allow me to pack more pieces into one rough-hewn box.”

The ASCIT-Alumni Committee has decided to entertain with other groups, and alone, persons from the ASCIT-Alumni Committee, Pat Brown, John Nixon, and Pat Brown, Frank Wilkinson, and a few members of the Phil Mason, director of the Institute of Relations in London, will speak here.

Whitlock Is A Madman!

Players from the Bishop’s Company act out a scene from one play in their repertoire. The Bishop’s Company will present “Cry, The Beloved Country” here Saturday.

Religion Students To Visit Caltech

On Tuesday through Friday, February 5 through February 8, the YMCA will bring eight theological students to visit the campus. The students represent a wide range of faiths and denominations, including Protestantism and Judaism. These visits, which have been held biannually in the past, are sponsored by the Danforth Foundation. The purpose of the visits is to give theological students an opportunity to become acquainted with a scientific community such as Caltech, and to give members of the Caltech community a chance to meet students of religion and to discuss ideas of common interest with them. These seminars are all open to the public.

They are all religious students in their schools and plan careers of active service in their faiths.

Theologians Named

During the three days that they are here, the theologians will be living and eating in the student houses. Don Himrod, a senior at Fuller Theological Seminary, will be staying in Blacker House. He received his degree in Philosophy from Toronto University and wants to work for his Ph.D. at Oxford. Don has been on campus before, participating in discussions in the graduate houses.

Junior’s Win Travel Prizes

Richard Burgess, Joe Wels, and Frank Winkler have been announced as the three winners of the Junior Travel Prize, by the Junior Travel Prize Committee, headed by Dr. Richards. The Junior Travel Prize is an award given to a few juniors each year and is a grant of about $150 which is used to finance travel on a certain project.

Burgess’ project is to study medical clinics in Europe, and he was awarded $100 to do so. Wels’ grant was $150 to study (Continued on page 3)

Dr. Patch Outlines
Bolivian Revolution

Bolivia is one of the few Latin American countries that has experienced a true political revolution. In his lecture to H5 this Tuesday Dr. Richard Patch of the AFS outlined the developments that made the Bolivian revolution a real one.

There are several historical and political factors that made the revolution possible. In the 1920’s there appeared in Bolivia romantic indigenous writing that extolled the cultural heritage of the native Indians from the Incas. Through these writings a concept of a national conscience and a concept of revolutionism nationalism instead of the traditional constitutional nationalism began to grow.

There was received concrete expression in the Chaco war of 1925-29 against Paraguay. Before Bolivia was defeated there was a great appeal to the Indian population to defend the fatherland and they who believe in obligations and rights associated with the nation.

But when the Indians returned from the war the land owners prevented any change in the feudal society by preventing the Indians from renting land. Thus, a conflict developed into the traditional society where they were reluctant to go. But the major factor that made the Bolivian revolution possible was the disappearance of the army. This army which once had been powerful for Bolivian territory, against Chile, Brazil and Paraguay and lost the greatest territorial loss in territory and men. During World War II it had associated with the Axis. The additional defeat in the war and the growing national anxiety (Continued on page 4)

Apartheid, Justice
Bishop’s Play Topic

This Saturday at 8 p.m., the Caltech YMCA will present a dramatization of Alan Paton’s book, “Cry, the Beloved Country,” in Doheny Lounge. The performance will be given by the Southern California branch of the Bishop’s Company. The Bishop’s Company, founded in 1962 by Phyllis Winkler Bokar and named after Methodist Bishop Gerald H. Kennedy, offers performances an opportunity for the donation of their services to the church. They have three sections, two of which tour locally in the Southland; although the presentations are generally given in churches, they are also frequently presented at colleges all over the U.S. including Berkeley, UCLA, Purdue, Princeton, and Harvard, and performance has even been put on at San Quentin Penitentiary.

Presentations by the Bishop’s Company will be based on his new book “Mujers” as well sets and few props; costumes are simplified also to make the bond stronger.

Stern to Talk To Freshmen

The fourth freshmen dinner club and the last meeting in the current schedule will be presenting Professor Alfred Stern next Monday at 6:30 p.m. and Sondors. Undergraduates can transfer meals from the Student Houses for signing the sign-out sheets that will be posted. Dress is, as usual, informal.

Stern’s talk is titled “History in the Light of Philosophy.” He will outline the background of the new book “Philosophy of History and the Problem of Men”. A performance of this book was published just a few days ago in the Southland, at the Bishop’s Bookstore, the YMCA, or the News Bureau.

News

MJBGS Runs Sign-up Continues

Students interested in working as observers on the MJBGS Economy Run brakie-box shouuld register in the Industrial Affairs office, 113 Thome, before 4:30 p.m. tomorrow.

Frosh Nomination Open

Nominations for BOF officers. The Frosh President, IHC, and BOF secretary are elected on Monday, February 4, and will remain open until the following Monday, February 11. Nominations can be submitted at Monday’s BOD meeting in the Industrial Affairs Clubroom, 21 or in writing to Steve Green in the Frosh Placement Office.

Frosh Key Forum Out

Those being considered by the Frosh Key Committee are being sent personal information forms this week. Those who have not received such forms and believe that their names have been overlooked and are requested to submit a copy of the Key Information to Steve Green in Frosh consideration.

New Zealand Lecture

Basil Boscawen will give an illustrated talk on New Zealand Wednesday, March 6, at 10:30 p.m. in the Meher-Jorgenson lounge. This will be the third program in the “New Zealand Lecture” series.

Ascit- Alumni Scholarship

To Be on Campus

The Dean of Admission of Stanford’s Graduate School of Business will be on campus on Friday, February 5. Those interested in contacting him should get in touch with Dr. Clark in the Placement Office.
Togetherness

On the same ballot as the ASCIT election will be several other propositions which will also be presented to student body vote. The most important of these is the modification of ASCIT structure to make the IHC president a member of the Board of Directors.

There has always been a serious lack of contact between these two committees, even when both were trying to do the same job, and the resulting confusion has hindered many past actions of either body.

A good example of this is the present confusion over Faculty-Student Coffee Hours. Both ASCIT and the IHC have tried to put these on without consulting the other group, with the result that now no coffee hour is being offered. Yesterday's was the last for which money has been appropriated by anyone, and plans for the future are as indefinite as ever.

The presence of the IHC president on the ASCIT board, if not eliminated, should help solve this problem, and should at least prevent a considerable number of them. In addition to this, however, there is another serious discrepancy between the two bodies. While ASCIT supposedly represents the student body, and does spend all of its money, the IHC actually has a closer tie to the students in the House. Because the IHC consists of the House president, it is the most representative board possible, while ASCIT rarely has anything to do with the House in any given year. Placing the IHC president on the BOD would help eliminate this situation.

In addition, although ASCIT does have all of the student's money, the IHC has more power. Because most of the spirit and functions at Tech are IHC sponsored (National Advertising Service, Inc. represents the student body, although ASCIT does have a considerable amount of the same), the IHC can do more on important campus issues than can ASCIT.

On the other hand, House presidents have not always cooperated well with all BC Houses in any given year, either. Putting the IHC president on the BOD would in all likelihood help put these programs in order.

Thus, because the presence of the IHC president on the ASCIT board would be necessary to eliminate the serious lack of communication and coordination between the two, putting the IHC president on the ASCIT board would go a long way toward resolving this problem.

-J.C. Simpson

Y Forum Hears of Dilemma

Dr. Isidore Ziferstein, a practicing psychiatrist, will speak at next Wednesday's YMCA Dinner Forum on "The Psychological Dilemma of the Nuclear Age." He will discuss America's apparent attempt to prepare for war by preparing for war, and the mental mechanisms which are employed by both national leaders and ordinary citizens in rationalizing this alleged inconsistency.

Ziferstein's main thesis is that everyone is presenting them with an insurmountably insoluble dilemma caused by attempts to resolve the unprecedented problems of the nuclear age by outdated approaches which work well, but not too well, in the past, but are totally unapplicable to the present situation. He feels that, since nations could destroy each other utterly in an all-out nuclear war, there can be no longer a winner or loser in such a war, and consequently that no major power can now use the threat of war as an instrument of national policy.

War Hazards Increase

Because the major powers now realize this, they are engaged in negotiations to reduce international tensions, solve the armament problem, and find peaceful solutions to their conflicts of interest. Currently, Ziferstein tells the audience, the negotiations have always resulted in stalemates in that the major powers have not relinquished the idea that negotiations are going on with other nations. The result is that the major powers are not only the ones who know they are not going to get their way, but that they are also the ones who are going to get their way. This is a situation that is going to last for a very long time, and it is going to be worse than it has ever been before.

Ziferstein is therefore of the opinion that we should try to deal with the problem of war as best we can, but that we should not try to solve it by preparing for war, and the problem will always result in stalemate is that reason these negotiations have always resulted in stalemates is that the major powers have not relinquished the idea that negotiations are going on with other nations. The result is that the major powers are not only the ones who know they are not going to get their way, but that they are also the ones who are going to get their way. This is a situation that is going to last for a very long time, and it is going to be worse than it has ever been before.

Therefore, in order to solve the problem of war, we must first stop preparing for it, and then we must stop trying to solve it.

-J. C. Simpson

Ralph Knop, editor

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Letters
Note: The following letter was received last week, and was made on a postcard by the editor with reference to a NSA (National Student Association) sponsored debate. The postcard clearly stated that the editors felt that NSA was dictatorial.

Your comments on a postcard are not unusual. They reflect the lack of interest about US-NSA that exists on many college campuses as a result of the activities of the extreme right wing.

I am enclosing a leaflet about NSA, its structure and activities. You may feel dissatisfaction, some of the political sentiments American students have expressed through the National Student Association. That is your prerogative, although I seriously doubt whether you know the substance of any of NSA's stands on any issue. But your challenge as to the nature of the structure of the Association. If you can produce any evidence whatsoever that the structure of NSA is dictatorial, I will personally return your check for $25 and write a letter for your paper admitting that fact.

I suspect, however, as is usually the case, your charges have no empirical basis and that you will throw this letter away content with the fact that you have made your point, although you really haven't and the only people to suffer will be the other CalTech (sic) students whom you succeed in deluding.

If on the other hand you wish to offer rational criticism with some sort of specific examples of which you are aware, I would be more than happy to engage in a discussion either through the mail or in person, at your convenience.

Thank you for your attention.

Stephen J. Robbins, Chairman, NSA, Nevada, Hawaii, Region, National Student Association.

Editor's note: We recognize that we may be disillusioned by the activities of the extreme right wing. We may be stupid enough not to know the substance of any of NSA's stands on any issue at all, despite the fact that we can refer to some of our exchange papers that are members of NSA may even be stupid enough to believe in which case we apologize fully. We will even print your letter as it includes the standard "Fill me the light of day" admonition.

Our impression was that the Executive Council of NSA was empowered to take stands that were considered as being taken by one taken by the National Student Association. The Executive Council is made up of a small number of people, with one or two large school representatives from each region. This appears to be at least a certain extent dictatorial, when a small group can take stands for a large group, especially when one considers that the large group is not unwieldy. If we are wrong, we sincerely apologize.

At any rate, we are willing to pay anyone at school who can prove to Mr. Robbins the statement that NSA is dictatorial from the information contained in the unabridged pamphlet which we will send the sum of $1.00. We would like to offer more, but there still is the matter of the old payola.

-J.C. Simpson

Page Two
Debate Terms Black 'American Menace'

"Is Justice Black a menace to American Civilization?" was the proposition debated by Willmore Kendall, senior editor of the conservative National Review and professor of politics at L.A. State College, and Phil Kirby, editor of America Magazine, in Danby Lounge Thursday evening, January 24. The debate was sponsored by the Graduate Committee on Political Education and the Caltech ACLU.

Kendall maintained that Supreme Court Justice Black along with Chief Justice Warren, "round boy Bobby Kennedy," and John Kennedy are menaces to American civilization because they seek to tear down the traditions which constitute the American civilization. In example Kendall emphasized the new interpretation of the First Amendment to the Constitution as advanced by Black. Kendall stated that Black was especially a menace to the other Liberal justices, Douglas and Warren, because Black is "courageous and brilliant," thus lending acceptability to his philosophy.

From 1789 to the late 1950's no Supreme Court did anything to interpret the First Amendment. But a broader interpretation of the Constitution including an "absolute" view of the First Amendment was taken by Liberal groups. This would abolish all methods of internal security, prayer in public schools, and chaplains in the armed services.

The Liberals, Kendall stated.

YMCA Theologians

(Continued from page 1) and the other in graduate work at USC before beginning his theological studies. While at Caltech, among other things, he served as Big T editor. Barry Kogan who is attending both Hebrew Union College and UCLA, will be staying in Rickette. Barry served as president of the Brotherhood U.S.A., the youth program of the Southern California region of the National Conference of Christians and Jews.

Other Visitors

Bill Doty, a Presbyterian, is from San Francisco Theological Seminary, where he is in his senior year. He received an A.B. in Comparative Literature from the University of New Mexico, spending his junior year at the University of Free Berlin. He will live in Rickette.

Roger Ridgeway, a member of the Disciples' Church, is a second year student at Pacific School of Religion. He received a B.S. in English from the University of California having spent his first two years at Cal Poly. Lloyd House will be his host. Bert Mack, who will be in the graduate house, is also a senior at San Francisco Theological Seminary. He is a graduate of the Pacific School of Religion and Philosophy.

As well as the usual colloquiums in the Houses, the program includes a visit "Thursday evening" by Chief Justice Earl Warren and the visiting students to the home of a faculty member the Dinner and subsequent discussion. Caltech students are invited for these dinners and discussions, but since the number that can be accommodated is limited, there will be sign-up sheets in the houses.

Travel Prize

(Continued from page 1)

stamp manufacture in Europe. Winkler was given $1500 to visit the Orient and investigate the Japanese paper industry.

The projects are intended to provide students with an "excuse" to meet people -- they are not expected to spend full time investigating them. Students become eligible for competition by being invited to participate because of high GPA. They then prepare a report on their planned "project" and submit it to the Travel Prize Committee, which then selects the winners.

Floor plans for Booth Computing Center are shown at right. The Computing Center, which will probably be ready for occupancy next fall, will house the Institute's IBM 7090 computer which was recently put into operation at Newport Beach, in space leased to the Institute by Automation, Inc. The 7090 (the Institute's third counting those at JPL) will be interconnected with data input stations at points scattered about the campus as well as with the radio observatory at Owens Valley and the seismological laboratory in Pasadena. It will have an associated 7040 for control purposes, which will also be housed in Booth. The Burroughs 220 will probably remain in Spaulding, as will the LGP 30.

Assignment: put more pep per pound into Ford-built engines

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Another assignment completed--another Ford First--and one more example of how Ford Motor Company continues to provide engineering leadership for the American Road.

WHERE ENGINEERING LEADERSHIP
BRINGS YOU BETTER-BUILT CARS
The Critical Ear
by rickerman

This week I had promised a review of the soundtrack album of "Gypsy". Unfortunately, I was unable to get a copy in time to meet the deadline for the Tech.

Instead the Ear tunes off the beaten path and invades the not too uninteresting region of humor recordings.

The recording which has received the biggest play in recent years is the First Family (Cladise CLP-3000-CLP-2000) album featuring Vaughn Meader and Naomi Barrett. This record, made at the height of the Cuban Crisis (October 22 last year), has the Kennedy Clan on the frying pan—a not too unusual position.

Humor Weak
In all cases I find that the humor is more stupid than truly funny. A positive claim point is the Malayan Ambassador," scene three of side one. This entire scene could have been eliminated without any loss whatsoever.

On the other hand, the first three scenes on side two are quite well done and constitute the best part of the entire record. As a whole, the record hands can be divided into two types. There are the very short laugh getters which are mostly just jokes which are made funny by the situations. As an example, the following occurs on side two (The Decision):

Patch Speaks
(Continued from page 1)

caused mass uprisings in 1946. From then until 1952 the situation was very chaotic with two presidents resigning and a military junta finally taking power. But in 1952 the army and the junta collapsed, leaving a power vacuum.

The Nationalistic Revolutionary Movement NRM which had become a political influence in the late 1940's took power. But in 1952 the army and the junta collapsed, leaving a power vacuum.

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Theory Explains Plateaus, Basins
Dr. C. Hewitt, Dix, professor of geophysics, announced a new theory offering an explanation of how the great ocean basins remain virtually unchanged for billions of years and how mountains and high plateaus may be formed by being "pumped up hydraulically" by the high pressure intrusion of molten rock beneath them.

Dix's theory is based on reflected wave patterns he obtained with sensitive depth-sounding equipment on a Mojave Desert uplift at the edge of the San Bernardino Mountains in California. The waves, generated by explosions, were reflections off deep subterranean layers.

Dix's Theory Rocky
Their patterns indicate the presence of gaps of discontinuities in the earth's crust under the highland at various depths down to 22 miles and perhaps below. "The most natural conclusion is that the discontinuities mark the presence of subterranean slits," said Dix. The data indicated to Dix that slits were intruded to produce a layering something like a multiple.

Ergad!
continued from pp. 1

Says Dix:
"Well sir, I think that two million is much too much, however sir, I do think that the residual benefits to be derived from this... would more that compensate for the initial outlay of funds."

Kennedy: "Well, Mr. Rusk, what do you think?"—Discussion for few seconds—

Dix: "...the decision is up to you... you are holding things up."

Kennedy: "En, you drive a hard bargain... but I'll sell you Boardwalk and Park Place for..."

Mort Sahl has used that phrase in one of his acts, and Bob Newhart has used it as well.

Comedy Title
The other types are the longer scenes which permit development of a theme. The sad thing is that of the four on the album, all of them degenerate into the

(Continued on page 3)
From Other Campuses by Richard Karf

When did Dean O'Reagan die? And how did he die? How many times? Was he buried before or after his death? These and other questions perplexed and confounded by the Varsity News of the University of Detroit. On an issue marked number five and dated Friday, January 11, there is no mention of the death of Dean O'Reagan. But there is a 300 word obituary entitled "His Legacy." The editorial concludes: "In the March of 1961 Dean O'Reagan fell ill and went to Jennings Memorial Hospital where he was an outpatient until last month. "He was hospitalized Dec. 30, at the age of 58, his medical condition. "His funeral was yesterday." All is well and good if facts were left here. Dean O'Reagan's funeral was on January 30, and he presumably died before that. However, the issue of the News dated January 18, and numbered as number 24 has a 1400 word obituary entitled "Dean O'Reagan Dies." The story begins "William B. O'Reagan, dean of evening division of C. F. College, died yesterday morning in Jennings Memorial Hospital. ... Now, his death date is fixed for the first time as January 17. So, we have the following conclusion: Dean O'Reagan died on January 17. His funeral was yesterday. "We're looking forward to meeting you."

Nuclear Problem

(Continued from page 2) solutions should be continued from a position of strength. The result, he says, is that, "in spite of sixteen years of intensive negotiations, armament are multiplying, tensions are increasing, and the danger of war becomes more acute." Ziferstein believes that a functional resolution of the attitudes is necessary to resolve this dilemma. Nations must stop using armaments as another instrument in the cold war and accept the fact that threatening war is no longer feasible. International conferences should hold off the character of bargains sessions and assume the character of joint consultations to which the representative of all nations bring their best thought-out contributions to the common task of preventing war and ensuring peace.

Preventative Mechanisms

There are three psychological mechanisms, according to Ziferstein, which stand in the way of such a solution. The first, denial, enables many to avoid realizing the scope of the danger of nuclear annihilation. The second, inertia, builds nation to custom-tailored techniques and stands in the way of new and creative thought. The last, apathy, is caused by a person's feeling of helplessness, "when confronted with the seemingly inexorable forces that are pushing all nations on the road to war." Ziferstein's solution to the problem is the realization that everyone is not only and helpless. He states: "Overcoming the mechanism of denial, inertia and apathy can free the energies of thousands, perhaps millions of people, to think and act creatively for peace. Former President Dwight D. Eisenhower expressed his conviction most eloquently when he said, "I like to think that people, in the long run, are going to do more to promote peace than our governments. Indeed, I think that people want peace so much that governments had better get out of the way and let them have it."
**La Verne Edges Past Beavers, 76-70**

**BY DENNIS MCCREARY**

In a close game Saturday night, Caltech bowed to LaVerne 76-70. In a not so close preliminary, the freshmen also lost by a score of 71-42.

The Techmen began in grand fashion by jumping off to a six to nothing lead after three minutes of play; by the middle of the first half they had extended it to 21-12. At this stage of the game, the Beaver's offense was working very well and their percentage from the floor was high. Conversely, LaVerne's offense was cold and their defense was ineffectual as they took the second platoon. La Verne began a full court press to harass the Techmen as they took the ball down court. The La Verne defense and offense began to improve and the Techmen's offense began to drag so that by the end of the first half, La Verne had tied the score at 35-35.

After the half time break, the game resumed with La Verne jumping off to a six point lead. After a slow start, Tech began to fight back and soon the score was tied up at 53 all. From then on the game was nip and tuck all the way although La Verne never lost the lead. Often, Caltech would tie the score, only to have La Verne score two points in the clutch to put them back ahead. Finally with the last 60 seconds ticking away, La Verne went into a stall to protect their 76-70 lead. The Beavers began to press for the ball and finally gained possession with about 20 seconds left. Time out was immediately called and the Techmen huddled together to decide on a play. Finally they picked one that had worked just a few minutes before and brought the ball down court. However, this time the play was rushed and the shot was missed. La Verne got the ball out of bounds and from there on controlled the last 20 seconds of the game as the Techmen fouled twice while trying to get the ball. With a one and one free throw situation, La Verne made both free throws and won, 76-70.

The scoring was pretty well balanced for both teams, and both had several men in double figures. Caltech was led in scoring by forwards Joe Weis and Dick Burgess with 17 and 18 points respectively.

Perhaps a note of interest. During the freshman prelim, Gary Dahlman managed to draw the first technical foul of the season called against the crowd. It seems the referee, who was somewhat rotund, didn't appreciate it when Gary called him "Homer." When said incident occurred, the ref started to walk away, stopped and thought a second, and then turned around and pointed at Dahlman and said, "Caltech man — technical foul!" Total cost to the crowd — one point and possession of the ball.

Next Saturday the Caltech Beavers meet the league leading Whittier Poets at Caltech and the following Tuesday Caltech travels to Occidental to meet the second place Oxy Tigers. Both games start at 8:00 and should provide plenty of excitement for all.

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**Scurves Top I H Football**

As of last Tuesday, Ricketts seemed sure to win the Inter-House football competition with a perfect record for the second year in a row. Fleming had taken a decisive lead over Ruddock and Lloyd to clinch the race for second place.

Marty Hoffman maintained steady and accurate passing to his two ends Carlos Johnson and Les Tomley to bring victories over Page and Lloyd. Rickett's offense looked in top form in the game against Dabney, as their passer receivers managed to get into the open on almost every play. Rickette played its last game against Ruddock yesterday.

Fleming has secured second place with beating Ruddock 41-19 and Lloyd 26-19. Fleming's offense has steadily been growing stronger, as scores have increased from 14 in the first game against Dabney, to 41 in the last game, against Ruddock. On Tuesday, the Fleming faced Page which hasn't won since.

Lloyd has an edge on third place over the Ruddock team. Lloyd's schedule is complete now, with a 3-2-1 record. Ruddock has a 3-2-0 record, but faced first place Ricketts in the final game. Unless there is an upset, Ruddock will get fourth place. Lloyd captured third place in a close game with Ruddock on Monday by winning 21-18. Ruddock suffered this crucial defeat as Al Gillespie effectively threw short passes through a loose Ruddock defense. Ruddock offense remained strong, as long passes that were very nearly completed threatened the narrow Lloyd lead.

Blacker and Dabney will play off for fifth and sixth place this week. Both teams have lost to Ricketts, Lloyd, Ruddock, and Fleming, but have beaten Page. However, the Dabney offense has proved itself more consistent by accumulating six touchdowns over the season as opposed to Blacker's two. Blacker's hope rests on the John Diebel to Bill Tyler combination that led them to their first victory of the season over Page.

(Continued on page 8)
**Beyond the Plane of the Ecliptic...**

Whether in the forefront of space exploration or in biomics research, Lockheed Missiles & Space Company's almost limitless fields of endeavor offer a challenging choice to graduate engineers and scientists. Lockheed's location on the beautiful San Francisco Peninsula, its outstanding facilities, its sophisticated programs, its excellent employee benefits, among many other advantages, have all contributed to the Company's position as a leader in the aerospace industry.

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**R.O.T.C. Drill Team Enters Sunshine City Competition**

A Russian delegation of air pollution experts visited Caltech last week, and spent a day visiting the Health Engineering Department. The delegation is in exchange for the mission which the United States sent to the USSR a few months ago and is presently touring the U.S. gathering information and progress reports on smog and air pollution research.

The team, consisting of four Russian scientists and accompanied by three American experts, arrived here Thursday, January 24. They first visited the physics labs, where Dr. Gotz gave them a demonstration of his research in aerosol supplies and interactions of gases, and then proceeded to Keck for a round table discussion on air pollution problems. After finding in the Acheson as guests of the Institute, the group then returned to their hotel at about 9 p.m.

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**Grad Rallies**

**By John King**

The grad rally on the disk was delicately suspended between thumb and forefinger, is poised; an idea is about to take form, the muscles of the hand tighten, the brush moves, reaching the suddenly soaring down the hall come Mah-moud Khalil, Nasser Ahmed, and Ingrid Patel, chalking, clapping, and hammering away. The idea is on the point of proceeding to create their own markedly original artform, the painted wall. A few moments later, little irritations, petty jealousies, and most superficial frustrations. Greatest and loftiest ideals... and most personal compensations, and I... thought it only fair to remedy this injustice. This not intended to breed envy among the single members of the graduate community but I am unable to resist mentioning that while we bachelors were eating at the Greaty or in the kitchens Monday night, Bob and Marilyn Huserkey were dining luxuriously on a culinary masterpiece, warmed over inagna. Yes, these married students certainly do lead the good life.

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**Lockheed, Systems Manager for such projects as the Navy POLARIS FBM and the AGENA vehicle in various Air Force Satellite programs, is also an important contributor to various NASA programs involving some of the nation’s most interesting and advanced concepts. As one of the largest organizations of its kind, the Company provides the challenging and rewarding opportunity of work in a technically advanced environment, and the technical staff to participate in the initiation of advanced technological development.**

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**Special Campus Interviews**

will be held

**MONDAY, FEBRUARY 4**

See your placement office for details
Blacker House Attempts New Record In Piano Destruction

The Reduction Study Group of the California Institute of Technology will reduce three pianos Saturday, February 2, in the Blacker courtyard at 2:00 in the afternoon.

The object of the Study Group is to encourage undergraduate investigation of the fundamental structure of the upright piano. Reduction consists of dismantling the instrument to such a state that it can be passed through a 30 cm. aperture in the shortest possible time. The reduction will follow the rules and regulations of the RSOGT. Each piano will be reduced by six members of RSOGT. The unofficial record is now held by the Dartmouth College of Technology in England with a time of 14 minutes. It is hoped that one of the teams will set a new official record Saturday.

Use of hand tools is unrestricted except for a 7 kg. weight limit on each tool. The entire operation is to be performed in a six meter square.

Persons interested in further information about RSOGT should contact the Study Group at its temporary headquarters in Blacker House.

Schools around the world will be challenged by the Study Group should the performance turn out to be satisfactory.

BOD Considers

Editor's Salary

The raising of the salary of the California Tech editor, submission applications for fresh camp counselors, nominations for ASCIT offices, plans for the Winter Formal, paying for coffee hours, and informing people about honor key applications were the topics discussed at last Monday's BOD meeting.

J. C. Simpson proposed to the Board that the Tech editor's salary be raised from the present $200 to $300, the same as the Big T editor receives. Simpson stated that the increase might attract more qualified candidates and the new salary would not be out of line with other salaries. He also noted that the Tech editor does as much as the Big T editor.

The Winter Formal will be held on March 2 in the Ballroom of the Green Hotel.

There was some discussion on poor participation in the last two coffee hours. No one seems to feel that the IHC has sent out the better inviting the faculty, and there have been not many announcements in the Houses. The BOD voted to pay for the last three coffee hours and to make a special effort to get attendance at the next coffee hour.

ROTC Detachment Gains New Officers

In several changes in the AFROTC detachment staff, Captain Stephenson's replacement as Director of Education has been assigned, and Captain Donald L. Sieras has arrived at Caltech at its temporary headquarters in Blacker House.

Captain Stephenson's replacement will be Major William R. Knight, who is presently serving in Japan. Captain Knight has a MS degree in Industrial Engineering and Management, and has been an instructor at both Northrup Aeronautical Institute and Chanute Air Force Base in Illinois. In addition, he is a command pilot with 25 years of civilian and military flying experience.

Captain Sieras, the new Commandant of Cadets, has been transferred here from Fort McArthur. He has his B.A. and M.S. degrees, with a major in geology. In addition, he has been awarded the Air Force Commendation Medal for his previous work on Air Force projects.

Geology Theory

(Continued from page 4)

deciduous woods. The site is likely to occur in groups, each member of a given group being a few thousand feet thick. They were nearly horizontal.

The mechanism of sill formation is at least partially understood. The geophysicist explained that sills are likely to occur in this manner:

Molten rock rises from great depths under high pressure through a near vertical fissure, which it forces open in forming an outlet. The molten material will rise vertically to a level where the vertical pressure on the surrounding rocks is not great enough to prevent the fluid from cracking the rock and spreading out in the horizontal crack. Forming a fluid layer which will extend in some cases for great distances, depending upon the amount of fluid available. This material later will solidify to form a sill.

More Galaxies

(Continued from page 7)

want, Fowler said. The enormous heat thus generated—in the billions of degrees—would result in a giant explosion that could eject massive quantities of elements from the galaxy into extragalactic space, creating a "radio galaxy."

When it comes to picking a job, like drawing straws they may all appear equal. But on closer inspection some can fall short of the mark. Give yourself the best odds on opportunity by making your decision in depth—investigate and compare. Pacific Telephone offers excellent opportunities for technical, engineering, business, and liberal arts majors. Some important advantages are: immediate responsibility, rapid advancement, and an atmosphere you can grow in. Another thing about odds: they're just 1 in 7

IH Football

(Continued from page 6)

Page will take last place, losing to a confident Fleming team. Page tied Lloyd, but lost last four other games. Page's defense has been stronger than the offense, proving harder to be scored upon than either Blacker or Dalby's defense. The standings (as of Tuesday afternoon):

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How not to come out on the short end

When it comes to picking a job, like drawing straws they may all appear equal. But on closer inspection some can fall short of the mark. Give yourself the best odds on opportunity by making your decision in depth—investigate and compare. Pacific Telephone offers excellent opportunities for technical, engineering, business, and liberal arts majors. Some important advantages are: immediate responsibility, rapid advancement, and an atmosphere you can grow in. Another thing about odds: they're just 1 in 7 you'll qualify for a top career with Pacific Telephone. We don't want to come out on the short end either. Register with your placement office now!

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