

What do you
call a country
with no women?

California Tech

Associated Students of the California Institute of Technology

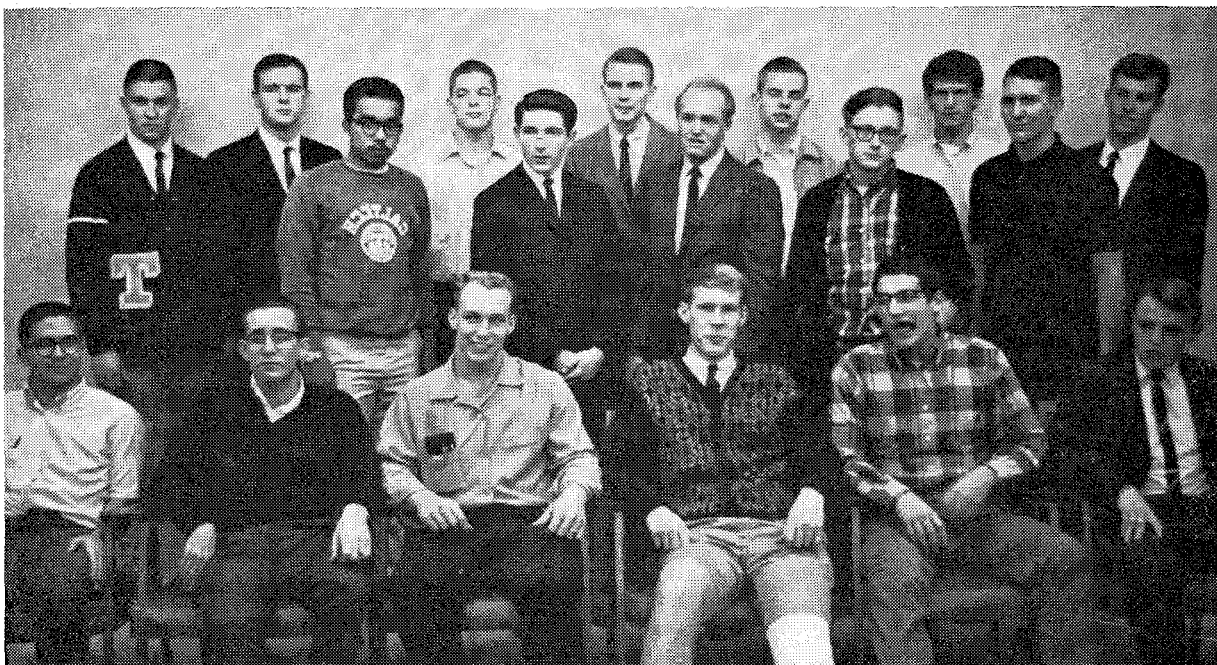
Stagnation

—1932 BIG T

Volume LXVII.

Pasadena, California, Thursday, February 17, 1966

Number 18



—Pelzman

ASCIT candidates reveal their true natures for the Tech camera. Seated, right to left: Jay Chapyak, athletic manager; the team of Mike Meo and John Middleditch, Tech editor; George Sharman, social chairman; Bob Parker, treasurer; Mike Farber, rep-at-large. Standing, front: Kermit Kubitz, secretary; Martin Smith, vice president; Barry Keller, rep-at-large; Craig McAllister, athletic manager; Joe Rhodes, activities chairman. Standing, rear: John Cummings, rep-at-large; Rich Flammang, secretary; Len Erickson, secretary, who later withdrew; Jim Pearson, BOC secretary; Greg Lutz, rep-at-large; Eric Young, IHC chairman; Sam Logan, treasurer. Meo has just barfed in Parker's lap.

Nominations Close; Lamb New Prexy

The positions of power in the ASCIT elections this year have virtually been decided by default, because the field of 19 nominees is concentrated heavily in the minor offices. Five of the nine BOD offices are uncontested, and the two influential posts of BOC secretary and *California Tech* editor have unopposed candidates. The only exciting races to watch in the election next Tuesday are treasurer, secretary, athletic manager, and rep-at-large. Run-offs will be held if necessary.

Lamb, Smith, Sharman in

Fred Lamb will romp in alone as president of ASCIT, and Martin Smith is a sure bet to win the office of Vice-President, for they are without rivals. Because write-ins are not counted in the balloting, it is an impossibility for anyone besides George Sharman to be elected social chairman. Sharman predicts a "win by one vote . . . at least." Uncontested Joe Rhodes can't lose the election for ASCIT activities chairman, either.

Creeps

The contest for the post of *California Tech* editor will result in John Middleditch and Mike Meo creeping to a climactic victory. Eric Young will undoubtedly receive a mandate from the student body in his bid to become the IHC chairman, mainly because no one else wants the

job. Finally, Jim Pearson is running all alone for BOC secretary—whether or not you vote for him, he's bound to win.

The race for rep-at-large will be the most exciting event of the elections, as well as the most likely contest to result in a runoff election, for there are five gung-ho frosh entrants. Self-confessed leftist Mike Farber has entered the lists against the likes of John Cummings and Greg Lutz, not to mention Charles Fischer and Barry Keller. Three of the nominees cite their experience in high school government as qualification for election to ASCIT office.

For athletic manager, Craig McAllister, football star, is squared off against Jay Chapyak, football star. Sam Logan is vying against Bob Parker for the post of treasurer. In the contest for secretary, Kermit Kubitz faces Rich Flammang.

Regulations modified

Election regulations were slightly modified in the short BOD meeting Monday night. At the suggestion of the *Tech* editor candidates, it was voted to change the registration fee from a requirement of each person running for office to a requirement of each office. The *Tech* editors are the only team to enter each year. Because of the new ruling, teams would not be required to pay any more than single candidates.

For the first time, the ASCIT election rally will have bouncers. (Interested musclemen may apply to Sven Anderson or Chris Shelton in Ricketts.) For the third consecutive year, on the
(Continued on page 2)

USC Debators Victorious

Rick Flam and Ralph Brown from the University of Southern California were declared winners of the second annual Caltech Computer-Controlled Debate Tournament in a 2-1 split decision by the three judges. Flam and Brown on the affirmative defeated Mike Buckley and Bud Zeuschner on the negative from the University of California at Berkeley in the final round held in 206 Dabney last Saturday.

The debaters on the first two teams received personal trophies with larger trophies going to the schools. Third place trophies were awarded to two teams from UCLA, who lost to USC and Berkeley respectively in the semifinals. Some 58 teams from

31 schools and 10 states provided some of the toughest competition seen in any tournament this year.

Travelers go into finals

All of the schools traveling long distances made it out of the six preliminary rounds but were defeated in the sudden-death elimination rounds. Defending champion Washburn Kansas came out of preliminaries with the highest rating and defeated Redlands in the octafinals, but lost to UCLA in the quarterfinals. Alabama and Kansas State Pittsburg made it out of prelims but lost in the octafinals. Similar fates awaited Arizona and Brigham Young.

The computers at Booth scheduled all the rounds perfectly in record time, and the use of the computer allowed a small number of debaters from the Caltech squad to run the tournament smoothly and efficiently until the jinx of last year struck once again! At the close of preliminaries all records were fed into the computer to allow it to choose the teams for the octafinals. The computer hummed for a few seconds, and then, instead of printing the octafinal pairings, started printing line after line stating that a breakdown had occurred.

Serious breakdown

The trouble was immediately diagnosed as a serious breakdown, and the IBM representative was notified; while teams of Caltech debaters started doing the computations using had calculators, efforts to get authorization to use JPL computers were made in vain. For a while the situation looked hopeless.

But the IBM representative responded quickly and repaired the difficulty in about an hour and a half; finally the octafinal pairings began spewing out of the high-speed printer only about 2 hours behind schedule. While the debaters waited for the pairings, Caltech coach Herb Booth promised, "Next year . . ." Finally, of course, the debates got under way again and the remaining elimination rounds, which were relatively uneventful, brought a sigh of exhausted relief from the tournament committee.

Sincere thanks

Caltech students who ran the tournament included Dave Close, director, Kim Gibson, Neil Wright, Dave Perasso, Mike Nolan, Gary Cable, and Fred Lamb. Close commented that Coach Herb Booth deserved credit for much of the work involved. At a recapitulation meeting Monday, the tournament committee voted its sincere appreciation to all the students who offered rooms for the visiting debaters and to all who helped with the timekeeping.

Robinisms presented in the *Tec* contest story two weeks ago, we have the following printable examples of the Techman's wit (including that of Alphonso Bedoye Jim Downum, Rich Draws, Dan Erickson, Stu Goodgold, Ronal Gremban, Dan Newzer, Bob Parker, and Harold William from Blacker, Fleming and Ricketts Houses):

"Holy convergence, Batman get to the point." "Holy loops Batman; it's hysterical!"

"Holy ground-states, Batman how low can you go?" "Holy lasers and pi, Batman; he's incoherent and irrational."

"Holy Saga, Batman; the story's hard to swallow." "Holy Doppler shift, Batman; we're in the red."

Almost all are odd

"Holy radioactivity, Batman I've known him a whole half lifetime and he's sure decayed." "Holy primes, Batman; almost all of them are odd."

"Holy Toledo, Batman; the scales are tipped in his favor." "Holy semiconductors, Batman we lost him at the junction."

"Holy transmission line, Batman; stop delaying!" "Holy positive derivatives, Batman; he's getting pretty high."

(Continued on page 9)

Five Win in Batcontest

One faculty member and four undergraduates have taken the coveted first places in the fabulous *California Tech* Robinism contest. Presentation of awards will take place Monday, when the still-secret and prestidigitous prize will be divided among the five winners.

Dr. Richard E. Dickerson, professor of physical chemistry, submitted the best (and only) faculty entry: "Holy Hamiltonians, Batman; he's a real operator!" Essentially the same Robinism was also entered by Dan Nemzer, a frosh in Blacker.

Fleming, Ricketts talent

The four other winning entries flow off the prolific pens of Alex Kelter, a frosh in Ricketts; Harold Williams, a Fleming senior; Chris Shelton, a Ricketts senior; and Doug Eardley, a junior in Fleming. Their successful Robinisms were, respectively: "Holy Red Barons, Batman; here comes that damn Fokker again!" "Holy combustion, Batman; he's making fuels out of us." "Holy H-bars, Batman; we know where he is, but we can't tell where he is going!" and "Holy Playtex, Batman; it's a booby-trap!"

Competition in the contest was keen, and there were many close runner-ups. In addition to those

Atomic Theorist Epstein Dies

Dr. Paul S. Epstein, Professor Emeritus of theoretical physics and an active member of the Caltech faculty for 32 years, died last Tuesday night, February 8, at his home in Pasadena. Epstein, together with Bohr and Sommerfeld, made important contributions to the development of atomic theory.

"The death of Professor Epstein marks the ending of an era at the California Institute" remarked president DuBridge. "A distinguished theoretical physicist, he played an influential part in the foundation of the present Physics Division."

A special place

"From his arrival in 1921 until his retirement as Professor Emeritus in 1953, several generations of Caltech student were guided and inspired by his warm and vital interest in his field and in their lives. He occupies a special place in the history and progress of the Institute."

Born in Poland, Epstein received the equivalent of a PhD in physics at the University of Moscow. He taught in Russia, Switzerland, and later in Holland, where he was an assistant to H. A. Lorentz.

His contributions to quantum theory and the structure of atoms were recognized later, in 1930, when he was elected to the National Academy of Sciences.

(Continued on page 3)

EPC Poll Results
See Page Eight

Notices

WHO HAS TALENT?

Many openings are left for the proposed ASCIT student talent concert next term. Contact Jerry Yudelson. Leave your name and talent(s) in the "Y" box in Dabney.

RA APPLICATIONS

All those interested in applying for the position of Resident Associate in the undergraduate Houses for the 1966-67 academic year should contact Dr. Huttenback before March 18.

Applicants must be graduate students in their second year or beyond, or members of the faculty.

LUV

Good seats are still available for the Wednesday matinee of *Luv*, the pace-setting comedy, at the Huntington Hartford Theatre now through March 12.

WOMEN'S CLUB BAKE SALE

The annual Caltech Evening Women's Club bake sale will be held tomorrow on the Olive Walk, from 9:30 to 12:30. They will sell cookies, cupcakes, brownies, fudge, cakes, and pies.

CLAUDIA ANDERSON

is a great gal.

AN EXHIBIT

of paintings by Helen Winter opened in Winnett Lounge February 14. The paintings will remain on exhibit through Sunday, March 6.

Editorial

Emotional Vendetta

It's ASCIT election time again, and we have several comments appropriate to the season.

Why are all the important offices going unopposed? Clearly these offices are desirable, for if nothing else they look good on a grad school application form. Does this lack mean that there are only a very few competent students here, or that only a few care? This situation seems a sad commentary on the students.

In the actual races there is only one which sends the blood pressure soaring. Sam Logan is running against Bob Parker for treasurer. Logan, in his job as representative-at-large this year, has shown himself to be rather lazy, indifferent to his job, and someone who would rather snake than go to a one-hour BOD meeting. He is one of the officers censured by the BOD for missing too many meetings. His fiasco with the student body cards this term came about because he just plain forgot to order them, a standard rep job and one he performed last year. The bulletin board on the Olive Walk is brought up to date every three or four weeks, as if an hour or so per week is too much time to spend on a portion of his job specified in the By-Laws. These and other signs seen this last year say he is incompetent. On the other hand, we have watched Parker doing all sorts of grunge work without complaining, because someone had to do it. And he has done the job well. Most recently he has been trying to get the Fleming game room in shape after long neglect by a bad game room chairman. In short, the jobs he does are the dirty jobs that someone has to do, not the nice plums that are on the path of political success. The BOD doesn't need a treasurer who would have to be prodded into attending meetings or keeping books up to date. They need someone who would do the job capably and continually.

Also, don't forget that on the same ballot with the ASCIT candidates will be the proposed By-Laws revisions. All of these incorporate needed and useful changes and should be ratified. —Greenfeld

See You at the Rally!

The editorial podium of the **Tech** is **not** the place for partisan vendettas without sufficient justification. In particular, I find no gross reasons for lumping Logan.

It required a concerted down-to-the-wire effort on the part of certain campus leaders-to-be to draft an opposing candidate to Logan. However, the candidate finally drafted — though competent — is from the Junior Class.

The ASCIT posts of treasurer and secretary, as demonstrated by Fred Lamb and Eric Young this year, furnish solid grooming, training, and valuable experience for future ASCIT leaders. For this reason I feel that the office of treasurer should be filled by a sophomore. This year's election unfortunately demonstrates apathy; how much worse will it be next year, with also a lack of qualified and experienced candidates for essential posts!

There does exist a case against Logan, who has been somewhat derelict and careless in his duties. But Logan has shaped up well in such things as the ASCIT Charities Drive. True, he has forgotten a few things, but ASCIT seems plagued in this respect: this year somebody forgot to get the Honor Key committee on the stick, and the awards will be sometime next term instead of this week as has been the procedure for some years!

Let it not be said that the **California Tech** has given unjust support to either of these candidates. Make up your own mind; see you at the Rally!

—Tim Hendrickson

Letter

No Sensuality, Please!

Editors:

A gang of sixty or so tired Teckers returned from the hills Sunday eve after a weekend of frolic with Scrippsies. The occasion was the annual Scripps-Caltech mixer, sponsored by the Y, and held this year at Firestone Training Center, in the hills south of Pomona. The general concensus of opinion is that it was **fun**.

The situation was buoyed by three strong conditions: they were away from Tech for two whole days and nights; the location was the pastoral and smog-free hills of Orange County; and the environment was graced by an even ratio (one-to-one) of young ladies to young gentlemen. With this combination, it seems no program of activities could be a failure. The program offered this year was a set of games conducted by an experienced, venerable, irrational woman named Viola Spolin.

Fun games

No one could object to most of the fare—from playing tag to tossing imaginary balls and doing improvised drama. And being coached in how to see, hear and feel things is commendable in emphasizing how limited is most of our use of our sensory perception. However, a few people may have wondered about the value of "feeling space with your arms . . . , with your pelvis," and about the garbled philosophy that was offered in the deal.

Ambiguous directions often have a purpose in psychological experiments with humans and in games—one wishes to have the subject or player structure the situation according to his own personality. But ambiguity has no place in logic or philosophy, and I only hope that no one took Miss Spolin's spiel very seriously. The assembled group was told that these games were preparing them "to stand in readiness for the unknown," presenting them with "dangerous" psychological situations so that "when danger comes, in real life," one can learn to face it.

The games "can't be played with the head," because they have no apparent aim, said Miss S.; the participants will be successful when "the invisible becomes visible," and the ultimate in participation results in "having an Experience," according to Viola. Do you get the point? Neither did I.

The insidious aspect of this philosophical trash is that some of the more impressionable young Scripps and Tech students may have thought she had something of consequence to say. I sincerely hope that they are few. If you were to boil down all the proffered advice to the fact that uninhibited play is healthful and being aware is good, you're all right. If you should hear someone tell you that sensuality should replace reason, you had better realize that someone is way off base.

Fortunately, most Techmen and Scrippsies didn't let anticipation of "an Experience" interfere with their fun. There was plenty of recreation away from the local grind—walking in the hills amongst grazing sheep, flying kites, singing folk songs or madrigals, and dancing—all in the company of a group of rather more - intelligent - than - average girls. Faculty members from both schools who were present entered pleasant, informal and impromptu discussions.

The Y deserves compliments and thanks for its sponsorship of this outing. I think everyone would agree that it was a nice weekend mixer. Just let us leave it at that.

John V. Levy

DuBridge, Ramo Appear on TV

Caltech President Lee A. DuBridge will be on a one-hour television program on KCET (channel 28), discussing "Technology and Social Progress." Also on the program will be Simon Ramo, YMCA Leader of America third term last year, a noted scientist-industrialist who received his PhD **magna cum laude** from Caltech in 1936.

This program will be aired tonight, at 9:30 p.m. It will be repeated on Saturday, at 8:30 p.m. This is part of the weekly series titled "Speculation," moderated by Dr. Keith Berwick of UCLA. The series, on the air for 15 months, has enjoyed considerable success.

Y'all vote!

(Continued from page 1)


other hand, we will be blessed with the presence of our famous **honorary** ASCIT president.

No bouncing

The bouncers will insure that nothing is thrown on stage during appearances. Before and after the entertainment it is still okay, but Fred Brunswig, former ASCIT treasurer and president, commented, "I think (breakage) is unnecessary. It's a lot of damage caused by a few people." Those of high-strung temperament should try to curb their exuberance.

Eds. note: Sensuality cannot replace reason, of course, but neither can reason replace sensuality. We hope no one, especially a scientist, really believes that the formalized symbols of logic represent anything more than an approximation to the world around us.

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Letter

Abolish Lost Weekend

Editors:

Each spring, on the occasion of the Lost Weekend activities, it is the custom of the organizers in ASCIT to eject the occupants of the upper floors of one of the new Houses in order to give the dates of participating students rooms to live and sleep in for the two days and nights. Last year it was Lloyd; this year it is to be Ruddock.

The occupants, who are paying good money for their rooms, are not asked for their use, or even compensated for it. They are told to take some clothes and books and find some other students on campus who will let them sleep in their rooms. Of course, if the occupants do not want to leave, no amount of compensation will give ASCIT the right to throw them out.

Intimidation

But the ASCIT officers do not count on what people think their rights are. What they count on is that any student with a little self-respect, to whom it even occurs to object will be sufficiently intimidated to prefer to move out than to resist. A rationaliza-

tion I heard from an ASCIT officer last year was that the students should move out as a favor to the students participating in Lost Weekend. I don't see how calling a demand a favor makes it less compulsory.

I invite all students, and particularly all candidates for ASCIT offices, to take a position on this issue, and to refuse to support a Lost Weekend in which the girls are roomed without the unforced consent of those who have a right to the rooms. If the Housing Office could be persuaded to relax its requirements that men and women not mix on a floor, it would be a simple matter for students rooming together to offer their room for reasonable compensation. But if no Lost Weekend can be planned without respect for property rights, no Lost Weekend should take place.

Gregory S. Harkness
Off-Campus

Eds note: We will comment on this letter next week. Other opinions are welcome.

Kaysen to Lecture on Government

Dr. Carl Kaysen, economic consultant to President Johnson and special assistant on national security to the late President Kennedy will give two lectures on "Experts and Amateurs in Government" at 8:15 p.m. February 22 and 24 in Beckman Auditorium.

Qualified

Kaysen has been a consultant to the Department of Defense, Office of Civilian Defense, Department of Justice and the National Science Foundation. In addition, he has written four books on corporate organization and anti-trust policy.

A graduate of the University of Pennsylvania and Harvard Graduate School, Kaysen is now a professor of political economy at Harvard. The lectures will be open to the public without charge and are given as part of the annual Haynes Foundation lectures.



by Shup

The show at the Ice House in Pasadena for this month is again well worth the price.

The show gets started by introducing a new group, the Arkells. The style is folk-rock, i.e. the styling of well known folk songs along the lines of popular music. The combined talents of the one exceptional female and three male vocalists have transformed such songs as "If I Had a Hammer" and "Maria" into new popular sounds with disturbingly familiar words. Their latin styling of "More" shows off extremely well the exceptional harmony and versatility of the group. However, being a new group, having been together only seven months, they still need some work on their staging. The few jokes they attempted between songs fell rather badly, but their music was still excellent.

Strikes a chord

From the first chords of the second act the audience knows that Phil Campos is a folk singer who really commands his guitar. His mastery of that instrument is obvious during gentle passages

and very impressive when he tries to rip the strings out of his guitar while still producing great music. To supplement his guitar work, Phil adds a strong and musical voice. His quiet and blue rendition of "2:10, 6:18, 10:44" leaves one entirely unprepared for the violence and strange comedy of "The Street Fight" or "Big Jack," the love song of Jack the Ripper.

Dull duo

The third act is the comedy duo of Jerry and Myrna Music. When compared to the excellence of the first acts, I found this one slightly disappointing. Their comic sketch of a fractured fairy tale was good but the content of others fell flat. Jerry redemes himself as a very accomplished banjoist. In one part of the act he plays flamenco guitar on the banjo so artistically that flamenco banjo seems a legitimate art. Except for the poor jokes, the act is very entertaining; its music quite good.

The show for this month is worth seeing for its variety and excellence of music, but hurry, it closes with the end of the month.

Hibbs Explains Space Program

"Why do we have a space program?" This is the question that Dr. Albert Hibbs of JPL attempted to answer in an address to the Frosh Dinner Forum renamed "Oedipus, Aladdin, and the Space Program."

The space program does not appear to be purely a scientific endeavor and has not always received the approval of the scientific community. Hibbs quoted the editor of Science magazine as saying: "The American space program either can continue as a glamorous engineering spectacular or rise up to the level of pure science."

Thus the space program has not necessarily been motivated by science. What then was its main motivation? Hibbs suggested that national prestige has been the main driving force behind the space program.

Incest is best

Man has been interested in the "magic" of science since ancient times. Using a Freudian ana-

Atomic theorist

(Continued from page 1)

He also did theoretical work in thermodynamics, the theory of elasticity, and fluid mechanics. He authored an innumerable number of scientific papers and his most recent work before his death was in the field of scientific writing. He also wrote his "Textbook on Thermodynamics".

Cape and beret

Known as "Eppy" on the campus, he was often seen wearing a beret and cape. His phenomenal memory enabled him to quote passages from the Encyclopedia Britannica, which he read for pleasure.

With interests ranging from psychoanalysis to art, he was active in many organizations, including being a charter member of the Congress for Cultural Freedom. The Congress was organized in 1951 to combat communism.

He was also a fellow of the America Physical Society and the American Association for the Advancement of Physics.

logy between the legends of Oedipus and Aladdin, Hibbs pointed out that Aladdin was rewarded in the end while Oedipus was punished, the major difference between them being that Aladdin used his magical powers to gain prestige while Oedipus did not.

Since the space program does not fulfill all the concepts of science, Hibbs concluded that the big push for the space program and the huge popular support both stem from a drive for national prestige.

There is no question that prestige can be justified as a goal. Following the orbit of Sputnik American exports dropped for the first time in twenty years and have only recently resumed climbing. Prestige is broadly accepted socially. Today prestige is certainly considered an admirable goal.

Bits and pieces

Following the intriguing analogy, Hibbs answered questions from the audience and revealed some interesting facts. He stated that for periods much over fourteen days the exhalations and other wastes of the astronauts reach a dangerous level. The molecular hydrogen released from the body becomes potentially explosive.

Hibbs also revealed a little-known fact about the early space program. When the Navy was given the job to place America's first satellite in orbit via Vanguard, the Army also wished to orbit a satellite. Consequently the Army, then working with JPL, approached MGM studios and offered them exclusive coverages of the first US Satellite launching if they would put up the funds, a sum of about twenty million dollars. MGM agreed to put up half the cost and the Army planned to scrounge the rest out of basic research funds. However, the plan was cancelled at the last moment due to legal reasons stemming from the fact that this offer had been made only to MGM and had not been

(Continued on page 9)



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ASCIT Candidates Outline

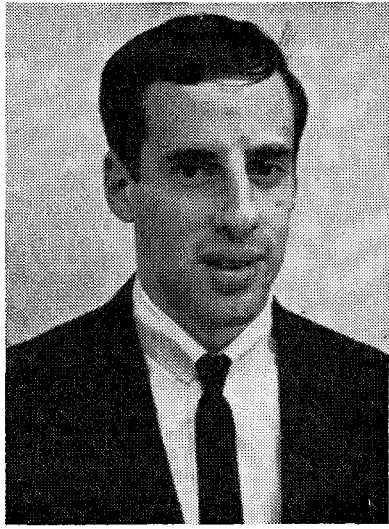
Lamb Presents Platform

The reason that we, as students, have organized ASCIT is principally to provide opportunities, programs, and support for worthwhile activities which are not available through the Houses or the Institute. And it is up to the president in particular to provide the kind of energetic and dedicated leadership which will make ASCIT effective in providing these services. I think there are several areas where strong leadership is especially needed.

At times in the past, ASCIT and particularly the president have been able to create cohesiveness and a sense of unity in the student body. I think this purpose needs to be re-emphasized. The president represents the students to the Institute and to the outside world. In this capacity he should give his full support to worthwhile student activities and organizations both within the BOD and on the Institute committees of which he is a member.

Specific promises

The president should also register that support by attending athletic events, concerts, and other activities as an official representative of all the students. Organizations should be able to come to the president for assistance knowing that he will do all that he can for them. I also think that a regular column in the *California Tech*, like that of several years ago, should be restarted. Such a column would allow the BOD members to express their views and at the same time increase student



Would you let this man marry your sister?

awareness of the actions which the Board is taking on their behalf and the opportunities open to them.

In another area, there is a need for closer communications and more effective cooperation between the IHC and ASCIT. I think that a president with a sincere and positive approach can do much to accomplish this through personal contact with the House presidents. One of the points of difficulty this year was the social program, and there is really no reason why this should happen. All the Houses have substantial social programs. But the ASCIT program should be a help to House chairmen by augmenting their programs as well as providing campus-wide events. After all, both efforts are designed to serve the stu-

dents and cooperation is indispensable if they are to succeed.

Socialism

The present candidate for social chairman has had considerable experience in House programs and has expressed his sincere desire to cooperate with House chairmen as much as possible; as a result, I think we should see better programs for the Houses and campus-wide.

ASCIT should consciously seek to increase student contact and cooperation with faculty whenever possible. This should be continued through athletic events, the ASCIT-Alumni Assemblies, and an effective Coffee Hour series. In addition the Board should not be afraid to try out new ideas for this purpose.

Expense account

Four years ago ASCIT found itself in a financial hole from which it has finally been able to dig its way out this year. This has been accomplished through careful evaluation of budget requests, strict economies, and financial responsibility. I certainly intend to continue this effort. Each year the Board handles a \$16,000 budget and it is vitally important that this money be allocated carefully and to worthwhile activities.

With your support we can ensure a vigorous and successful student government which will be able to achieve these goals. In closing, let me encourage you to come to me at any time if I can help you or your organization.

Fred Lamb

Chapyak, McAllister Hot Over Head Jock's Job

Athletics on all levels comprises a huge portion of the time spent on extracurricular activities. It is important, therefore, that the opinion of the student body concerning athletics be well represented before the BOD and our athletics department. Having already participated in two years of intercollegiate football and baseball, I feel that my qualifications to represent and coordinate athletics are entirely adequate. My familiarity with the people involved in athletics and my basic interest in sports will enable me, if elected, to act as a competent and enthusiastic athletic manager.

Below par

I have long held the opinion that student interest in intercollegiate athletics is below par. I promise to do all I can to encourage greater student familiarity and interest in intercollegiate events. If this is accomplished, we will become more like a college and less like an institute. In carrying out the traditional tasks of the athletic manager, namely arranging and handling sports banquets and distributing awards, I will be as prompt and efficient as possible.

Another important aspect of the office is the fact that it carries with it a vote on the BOD. Keeping abreast of all issues and the student body opinion on

these issues, I will use my vote intelligently. I have the desire, a sense of responsibility, and the time to do a good job.

Jay Chapyak

The office of athletic manager for the student body involves a lot more time and effort than most people would guess. He arranges for athletic awards and banquets, represents all athletics on campus to the BOD, represents undergraduates on the Athletic Council of the administration, and is the official liaison between undergraduates and the administration in all matters concerning athletics.

ASCIT, not the Athletic Department, arranges for all athletic awards, sweaters, etc., and the athletic manager is responsible for these awards. Also he must arrange for the ceremonies at which these awards are presented. He completely manages awards from the sweater measurements to the presentations. The Honor Keys and certificates also come under his jurisdiction.

Important as any other

On the BOD, his value is as important as any other officer short of the president. His opinion is especially important on any issue concerning campus athletics. Likewise, Athletic Council decisions should have a stu-

(Continued on page 7)

Usurers

Logan, Parker Vie

Money is money. Because of this fact, the position of ASCIT treasurer is one of the most important offices on the BOD. The treasurer's primary responsibility is the wise and effective distribution of the student body's money to the various groups and activities of the student body itself. During the past few years, through the efforts of economical Treasurers (and a \$3 increase in dues), ASCIT has pulled itself out of the red into the black and looks forward to a respectable amount in the happy column at the end of this year. While continuing an economical program if elected, I will be most concerned in assisting the Board in handling the budget and other incidental expenditures to maximize the benefit of each dollar spent to the greatest number of students.

Experienced

In the execution of the difficult task, certain "qualifications" are relevant. First, I feel my broad base of experience and interests—participation in intercollegiate and House athletics, membership in campus committees and clubs, and involvement in campus activities and politics—have helped me gain a balanced view of a large spectrum of student activities and in particular monetary needs. Second, I feel my association with the BOD this year as rep-at-large has given me a sense of how the Board "operates." In particular, the organization and running of the ASCIT Charities Drive and the money involved has added to this relevant experience.

These two qualifications, plus my desire to be ASCIT Treasurer, will help me reach the proper decisions in handling your money and in responsibly using my vote on the Board of Directors.

Sam Logan

The ASCIT treasurer is primarily responsible for balancing the books, for continually reporting to the Board on the condition of ASCIT finances, for taking a hand in ASCIT budget making, for seeing that the student body does not go into deficit spending as in years past, and for representing the student body on the ASCIT Board.

In order to discharge these responsibilities properly, the ASCIT treasurer must have a thorough knowledge of financial procedures, and must be willing to keep records continually up to date. Having served on the staff of the *Tech* for a year as circulation manager, I feel that the experience I have gained qualifies me for the position of ASCIT treasurer.

Vigilante

Although we are fortunate in beginning this new fiscal year in good financial shape as compared to the deficit of years past, the problem of keeping within the budget is one which requires constant vigilance, vigilance which I feel I am able to provide.

In short, I offer no frills and no glory. But I will do a careful and thorough job as ASCIT Treasurer, if elected.

Bob Parker

Social Chairman Sharman Plans Communication

As you, the reader of the *California Tech* has discovered, either due to your careful perusal of the candidates or the unceasing vituperation of the editors of this scandal sheet, I have been placed in the position of being our ASCIT social chairman for next year.

There are two things I would like to express. First I would like to thank you for your tremendous vote of confidence. After waging such a brilliantly victorious campaign one can only question, "Is there something wrong with being ASCIT Social Chairman? Does he offend?"

Second, I would like to outline my policies for the ASCIT social programs of next year. The first organization to be instituted will be an ASCIT Social Committee to provide the communication between Houses that has been so sadly lacking.

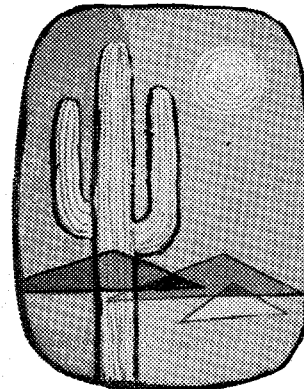
This committee will be formed at the beginning of third term in preparation for Lost Weekend. With this committee as a basis, the ASCIT social program will be the result of the desires of the students rather than the personal whim of the character who chose to run for the office.

George Sharman

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Duties, Write Qualifications

Young Runs For IHC Chairman

Perhaps the most controversial and delicate ASCIT office is the IHC chairman. The recent controversy over incorporation of the IHC into the ASCIT By-Laws points up the jealousies and resentments which exist beneath the surface between these two boards. Neither group can work to maximum effectiveness if it spends a good deal of its time struggling against the other. Most of the responsibility for producing harmonious relations and co-operation between the two boards rests squarely upon the IHC chairman. I feel that my two years of activity on the BOD have given me the necessary experience to carry out this important obligation.

Petty

I would be greatly aided in increasing the effectiveness of the IHC if Proposition Six of the By-Laws revisions were passed. By giving the IHC a constitutional rather than a traditional or functional basis, I feel that it can be more easily strengthened and maintained. Also, by clarifying the relative positions of the BDD and IHC, the proposition would eliminate the petty quarreling between these two boards.

Off vs. on

A great deal of noise was made this past year because the IHC chairman lived off-campus. It was felt that since he was off-campus he was generally not available enough in emergencies and was disconnected from the affairs of the Houses to too great an extent. However, I feel that being off-campus is a help rather than a hindrance to an IHC chairman. If he is off-campus, he is isolated from the pressures of his House, so will be more neutral in a dispute involving his House and will be more able to preside over the IHC without bias. Thus I feel that an off-campus IHC chairman will be more of a chairman than a second member from his House.

Eric Young

Flammang, Kubitz Seek Secretary

As almost everyone here at Caltech knows, student interest and participation in ASCIT is something less than overwhelming. Perhaps the unusual nature of Tech itself renders more student activity in ASCIT impossible, but the candidates for the BOD this year hope that this is not the case. In fact, the major goal of many of the present candidates, myself included, is to remove the alienation and apathy that the students seem to feel toward ASCIT. Don't ever forget, **you are ASCIT**; in a little while you will be electing **your** corporation's Board of Directors.

War on apathy

In order to help combat the tendency toward apathy, a few members of the BOD next term will be writing articles in the **California Tech** on subjects of general interest to ASCIT (you). The secretary will be one of those contributing to this effort. He is also responsible for publishing the proceedings of the BOD meetings and notices of pending legislation. He will therefore be in an excellent position to help (or to hinder) the effort that will be made to get people interested and active in ASCIT. Please keep this in mind when you mark your ballot for a new BOD secretary.

Richard Flammang

One part of the ASCIT secretary's job is informing the student body about the actions of

its elected representatives and representing ASCIT in correspondence with other groups. These duties are vital to the functioning of ASCIT as an administrative body. However, a secretary could competently perform these duties and these duties only and still fail in his position. For the secretary of the student body association represents the students in the legislative and policy-making function of the ASCIT Board of Directors. The position of scribe to an executive committee is not demanding, while the position of ASCIT secretary demands the willing expenditure of time and enthusiasm by anyone who is elected.

Studded jocks

The secretary assumes the unique responsibility for representing student interests and communicating the actions taken on these interests to those most directly concerned, the students. This means representing all the pressure groups; the beaks, the boors, the studs, the jocks, and the rocks and stones.

There is no commission for being secretary, nor is there a memorial award for acquiring the largest number of prestigious positions of power on campus. It must just be hoped by all concerned that someone will do the job. I am willing to attempt to the best of my ability both parts of the ASCIT secretary's duty. I would appreciate the opportunity to serve the student body in this office.

Kermit Kubitz

Dubious Duo to Wallow in Mire of Trollism, Irresponsibility, and Sloth

We candidates for the office of **California Tech** editors pledge ourselves to continue to provide the student body with a paper which best serves student interests. Our qualifications include two years of service on the news-

paper staff, writing denumerable inches of copy, and two weeks of intensive preparation under the aegis of present editors Berry, Greenfeld, and Hendrickson.

At present the **California Tech** enjoys both a freedom from censorship and a position of power rare in college newspapers. We can print what we like, and because the faculty is extremely concerned with the well-being of the students, what we print is an important vehicle of student opinion.

Policy

As editors we promise to strain every nerve to insure that interviews will be as scrupulously accurate as possible. Our editorials may range from humorous to serious, keeping in mind that the greatest editorial power is best realized when the editorials are most responsible.

Since the **Tech** editor candidates usually run unopposed, and this year being no exception, we really don't give a dang about your vote. What really is needed are writers, particularly in sports.

Since the paper serves the whole student body, writers from all Student Houses would be desirable, if only to protect the image of their own Houses in a local-color sports story.

Mammy and Middleditch

Five Frosh Battle For Rep-at-Large

In the prevailing atmosphere of apathy which surrounds Caltech politics it is difficult for a candidate to run on a platform of enthusiasm and sincere interest—but this is my aim. Uncontested offices form the majority of this year's ASCIT ballot and this flaw in our student government needs to be mended by officers who are willing to devote an extra effort to their positions, and who will consequently draw an increasing interest in ASCIT.

Great spirit

Perhaps the best source of information about my enthusiasm which I can reveal concerns an avid interest in House competition. I have participated (at times with little overt success) in Interhouse softball, swimming, football, and now track. But the real backbone of a House lies in willing workers, and to this end I believe my spirit has been "gung-ho."

Expanding into a wider realm, participation in intercollegiate track and campus-wide student affairs (the Scripps Conference, for example) has given me at least a partial insight into general student body likes and dislikes.

Seeks job

It is now my wish to transfer this concern and enthusiasm into ASCIT government. The job I seek is representative-at-large: a post important for a representation of underclass opinion, and the responsibility of a vote on the BOD. Through participation in social, athletic, and cultural events I believe I have shown possession of the time, desire, and responsibility to work for you as representative-at-large.

John Cummings

provided me with valuable administrative experience and, even more importantly, experience in person-to-person contact. Tech must change; I will try to insure that it changes intelligently.

Mike Farber

The duties of ASCIT representative-at-large are better defined than those of any other BOD member. They are: overseeing the blood drive and charities drive, maintaining the bulletin board on the west end of the Olive Walk, and, most important, voting as one of the nine BOD members. The first three of these duties require no great ability, but the willingness to work however much is necessary. Voting intelligently at BOD meetings requires a good knowledge of the questions at hand, an interest in good ASCIT government, and the ability to resist pressure on the occasional controversial issues.

Active troll

There are several qualifications which indicate my ability and willingness to make this major commitment. In high school I had considerable experience sitting on the governing councils of school and extracurricular groups, and am an assistant section leader this year. My extracurricular activities include water polo, swimming, Interhouse football, band, chorale, and honors work. I have contributed my share of troll work to Interhouse and to Dr. Huttenback's art contest.

Besides listing these qualifications, I only promise to contribute the necessary work, to keep myself suitably informed on BOD questions, and to vote responsibly at its meetings. I was subjected to no pressure to run; I really want this office. I would appreciate your vote for ASCIT representative-at-large.

Greg Lutz

The ASCIT representative-at-large is the officer responsible for the ASCIT Charity Drive and Blood Drive and for keeping up the campus activities calendar. But more importantly he is a voting member of the BOD, the only voting member from the freshman and sophomore classes. This is his greatest responsibility.

I think I have shown my interest in Caltech affairs by being on our intercollegiate water polo and swimming teams and by being one of three people to attend the BOC's open meeting. I was also in student government in high school. This experience and interest will stand me in good stead if I am elected, and I promise to do my best for the interests of the student body.

Barry Keller

Many of you have undoubtedly seen a radical leftist running around campus with such buttons as "Freedom Now" and "Ban the Bomb." Now this leftist is running for the post of ASCIT representative-at-large. I have not been sponsored by the Communist Party, the Socialist Party, or the Young Republicans. I am running for this office because I can fulfill the requirements of the office and effectively contribute toward improving this campus.

Advocates breakdown

My specific responsibilities, concerning the ASCIT Charities Drive and the posting of activities notices, while important, are perhaps less significant than my voting position on the BOD. As a member of that body, I will try to promote change at Caltech by supporting such programs as a coffeehouse near the campus, and, in cooperation with the YMCA, a further expansion of our successful tutoring program. I feel that Tech is far too isolated from the California student community. To help break down that isolation, I will support more cultural events sponsored jointly with other schools, as well as inviting some really stimulating and controversial speakers to Tech.

I feel that I am especially well-qualified for this post. My previous service in the Y's tutoring program at Jordan High School, as well as being the manager of the varsity baseball team, have

ASCIT Rep-at-large candidate Charles Fischer did not show up for the candidates' picture and a did not submit a campaign statement.

The brightest flashes in the world of thought are incomplete until they have been proved to have their counterparts in the world of fact.

—John Tyndall

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DuBridge Sue Martin for ASCIT BOD Honored By "Time"

by Firestone

Dr. Lee A. DuBridge, Caltech President, was recognized this week by *Time* magazine as one of the 14 most active and influential college presidents in the nation. DuBridge was recognized not for being the head of a leading school such as Caltech but rather for what he has done for Caltech, the community and the country.

Referring to DuBridge as "mild-mannered, soft-spoken and enormously proud of his school," *Time* called him "a skilled broker between Caltech's scientific resources and the nation's ever-expanding demands for scientific knowledge." Dr. DuBridge is an adviser to NASA, a director of the National Merit Scholarship Corporation and chairman of the board of KCET, channel 28, the local educational television station.

Controversy

It was this latter post that has also brought DuBridge into the news recently. In what the *Los Angeles Times* called a "policy split of major proportions" two directors of KCET tendered resignations to Dr. DuBridge. Complaining that the head of programming refused to try out new ideas, 23 members of the TV station signed a petition asking for the programming director's resignation.

DuBridge replied that if there was unappiness over policy the dissatisfied persons could quit.



—Trask Theatrical Agency

"I'm appalled!" — Fred Lamb.

With that, Jim Case, director of special projects and well-known personality in educational TV, and Russ Burton, director of public relations, resigned.

Case's final comment was that he believes "at a station like this . . . there must be permissiveness and laissez-faire policies. This is not the case at KCET and I found myself going around in ever smaller circles."

Write in Sue!

Sue Martin's ample qualifications for ASCIT BOD are overwhelming and obvious, as revealed in her campaign statement above. We strongly urge all red-blooded Teckers to write in Sue Martin next Tuesday on the ballot.

Unopposed Veep & BOC Sec'y Explain

As unopposed candidates for ASCIT vice-president and Board of Control secretary, we would like to use the opportunity available to us to express a few of our opinions on some matters concerning the Honor System and some difficulties that arise with regard to it.

Libraries

Institute libraries are operated under the Honor System. Freedom of entry and exit and the unsupervised use of library materials are advantages that accrue to this. Removing material without checking it out or keeping books out beyond the due date jeopardizes these privileges and tarnishes the effectiveness of the Honor System in the eyes of Institute personnel. This matter becomes increasingly significant with the advent of Millikan Library. A little thought and care on the part of library users will insure the retention of these privileges.

Free flow

Communication between the Board of Control and the student body has always been difficult, because of the secrecy with which the Board of Control must act. In order for the BOC to effectively express the sentiments of the student body, however, it is necessary that suggestions and complaints about the Honor System flow freely from the student body to the Board of Control. Board members are distributed around the seven Houses partly with this in mind.

Outer limit

It is within the Board's responsibilities to periodically clarify, so far as possible, those areas of the Honor System about which

uncertainty exists. There is no clearly defined outer limit to the Honor System. Some individuals are reluctant or unwilling to extend the Honor System much beyond the sphere of academic matters. In order to maintain the integrity of the Honor System, we must be willing to apply its principles to all phases of life within the Caltech community. Carelessness in this area creates very difficult problems for the Board of Control and hinders the effectiveness of the Honor System. We hope you will bear this in mind. The Honor System is Caltech's most venerable tradition. We are grateful for the opportunity to work with the Board of Control.

Martin Smith
Jim Pearson

Rhodes Wants More Activation

N-score years ago our forefathers (?), paying no heed to the proponents of Planned Parenthood, gave birth to CIT, the unwelcomed child of MIT. What do the victims of this unfortunate miscarriage do between H5 and Ph 129? Clearly, they activate. Hence the need of an activities chairman. His duties are simple: (1) to provide good activities and (2) to get more activators.

Why activities?

Caltech needs a spirit. A spirit is a necessity for survival; you know that as well as I do. Activities build our personal spirit and mold what "a gung-ho frosh" might call school spirit. I will try to procure events that

(Continued on page 7)

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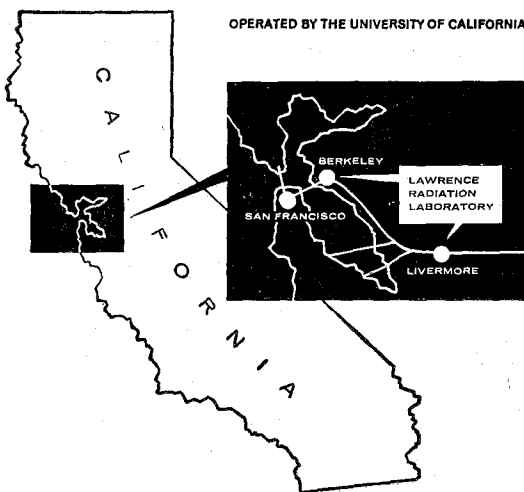
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Athletic Manager

(Continued from page 4)
dent body opinion included. The athletic manager provides this representation. For example, the athletic manager is the official representative of the embryonic rugby team on both of these committees. The last of the major duties of this office is not the least. You students, especially the athletes, deserve efficient representation and voice in athletic affairs.

These are the major requirements of the athletic manager as I see them. I think I can fulfill them at least adequately. I have represented my House as athletic manager for a full year now; I know the organization and problems of Interhouse and Discolobus. I am also a varsity athlete—I recognize the sentiments on that level of athletics. More important, I have the ambition to do a good job as athletic manager for you. I want to be your athletic manager because I believe in myself, and in your trust. Vote for McALLISTER for your Patron Jock.

Craig McAllister

"I wonder who's kissing her now?"

Not NRA'S

Page's Faculty Fellows

Page House has become the first House on campus to abolish the office of non-resident associate and instead has started the Faculty Fellows of Page House. This new program will feature faculty members from different departments and will allow the students to become associated with someone from the House and at the same time with someone in the individual's field of interest. The first five fellows are Dr. William Corcoran (Chemical Engineering), Dr. Norman Davidson (Chemistry), Dr. Marshall Hall (Mathematics), Dr. John Petruska (Biology) and Dr. Leon Silver (Geology).

Faculty-student contact

Charlie David, Page House RA, felt that faculty-student contact at Caltech was not as great as it should be as there is such a low student-faculty ratio. The idea of the faculty fellows was to give the students a closer contact with faculty members. According to David, these faculty members were chosen because they

"were known to be interested in the problem [of student-faculty relationships] and personally aggressive enough to carry the battle to the students."

Under the new system, students will find someone connected with their option that they can talk to without becoming involved in school problems. This should encourage the students to become more interested in the faculty, and, if the system spreads to other Houses, it would lead to the faculty becoming more interested in the students.

This first group of "Fellows" will reign until the end of first term, 1966, making this a year-long job. They will have a standing invitation for lunch and will also be invited to dinner with their wives at various times throughout the school year. In addition, a major dinner is planned for next term to celebrate the innovation of the new system.

Sperry Reasserts Conscious Force

by McCord

"What have been the major impacts from the humanist standpoint of recent developments in the sciences of the brain?" This is the question that Dr. Roger Sperry, Hixon professor of psychobiology at Caltech, attempted to answer Monday night at Beckman, "a citadel in the heart of scientists."

Spokesmen of an antiscience nature have enumerated various complaints that science is dehumanizing man, reducing him to a biological machine that lacks emotion. Sperry admitted that 99 percent of his colleagues eliminate the conscious mind as a determining force in their research. This is done out of necessity since any considerations including the conscious mind would make study by the scientific method highly difficult, if not impossible.

No free will?

One of the major consequences of the "creeping materialism" is the destruction of any human free will. If life is reduced entirely to cause and effect then any decision a person makes is

predetermined by some cause. Free will then becomes only an illusion.

Sperry did not accept this mechanistic, materialistic viewpoint, however. Instead he proposed a model in which the conscious being of man is a determining causal force, reinstating man's free will and giving more meaning to his ideas.

Patterns

The concept by which Sperry was able to make the conscious idea part of a scientific explanation of the human body was through patterns. Of course the atomic structure and even the single neuron exert no conscious determining force upon the being. Sperry suggested that it is the patterns which a large group of the neurons continually form and reform that make up the substance of a conscious idea. In this manner the conscious mind is independent and able to consciously exert a determining force.

In conclusion Sperry left the audience with this parting thought: "Never underestimate the power of an ideal."

Activator

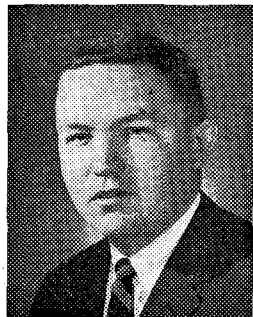
(Continued from page 6)

you want, but I sure as hell won't try to ram activities down your throat. That is not to say, however, that I won't try to get you to want them. I've got a feeling that we're in for an exciting year. Case stated.

Joe Rhodes

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Larry Moore
B.M.E., Univ. of Kansas

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of the most capable people in industry. One of many young men who believes he has gained tremendously from this exposure and experience is Larry Moore, a Product Design engineer.

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Currently, Larry Moore is on leave of absence, studying to acquire his M.B.A. degree at Michigan State. He feels—and rightly so—that we're 100 percent behind his desire to improve his educational background. Young men with talent, initiative and ambition can go far with Ford Motor Company. Think about it—and talk to our representative when he next visits your campus.



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Students Pass Pass-Fail System For Fresh

by Berry

Results of the Educational Policies Committee's poll on the pass-fail system for freshman grades were presented to the Faculty Committee on the Freshman Year Tuesday night. Student opinion was overwhelmingly in favor of a pass-fail system in some form or other: only 8.3% wanted it terminated immediately, while 26.3% wanted to extend the system to upperclass courses as well.

Response

Student response was good with 425 of 670 polls returned, and the Faculty Committee noted that considerable thought and care must have gone into students' answers. Cross-checks of several questions revealed an encouraging consistency of answers. For example, students' estimates of outside hours spent on courses compared very well with results of previous polls by instructors.

Some of the reasons Teckers like the system are that it re-

duces pressure (89.6% thought so), that it gives frosh more free time (89.1% concurred), and that it eases the transition from high school to Caltech (79.5% agreed). Many people noted that lack of grades is the great equalizer; it gives the student from a poor high school a chance to catch up with the well-prepared troll who idles away his time.

Response to the question, "Do you consider yourself happy at Tech?" was about as would be expected. Of the frosh, 74.0% are happy, while only 64.7% of the sophomores are still grinning after the shock of grades, and 67.2% of the upperclassmen are inured to the place.

Honors work

Grades had a drastic effect on Honors Work. Although 59.1% of this year's frosh are in the Honors program and 49.5% think they would continue even with grades, 46.9% of last year's frosh were in the program and only 22.0% of them have continued this year. Furthermore, only 19.2% of the disillusioned sophs

said they would have done frosh Honors Work if they had had grades.

The math faculty's suspicions were confirmed in the section dealing with outside class work, as the frosh spent only an average of 4.0 hours a week on math. They spent 6.4 hours snaking physics, 5.9 hours on humanities, and 4.7 hours on chemistry, for a grand total of 21.0 hours. On the other hand, last year's frosh only snaked 20.7 hours a week — 3.4 on chem, 5.4 on physics, 5.9 on math, and 6.0 on humanities. They made up for it as sophomores, however, spending 21.3 hours a week. Math 2, appropriately enough, took up 6.9 hours, while they slaved for 5.3 hours in physics, 5.0 in history, and 4.1 hours in organic chemistry.

Motive for crime

"To what extent do you feel that you are motivated by grades to learn?" On the average, 20.3% of you are heavily grade motivated, 56.4% are moderately

so, and 22.4% acknowledge little or no grade motivation.

There was a fairly wide division of opinion on what to do with graphics. Only 18.2% thought it should be required, while 29.0% thought it should be abolished, and 48.0% thought it should be an elective. The last suggestion was kicked around at Tuesday's meeting, and although no conclusions were reached, the idea of making available additional three-unit "skill" electives, such as computer programming or

technical instrumentation, was discussed.

While the questionnaire clearly indicated student approval for the pass-fail system, the Faculty Committee emphasized that this is only one of many factors that will influence the faculty's final decision when they decide the fate of the system in April. Other important factors will be the opinions of advisors, instructors, and TA's, as well as strictly objective data, such as GPA's.

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Robin loves Batman

(Continued from page 1)

"Holy waveguides, Batman; if we don't get a real wiggle on, we'll never get to the end of this." "Holy omega's, Batman; we're going in circles."

"Holy entropy, Batman; he's striking at random." "Holy Intermediate Value theorem, Batman; he must have crossed this street somewhere!"

THE DRAFT BOARD CAN'T MAKE THE CHOICE FOR YOU

"All I ask is that, in the midst of a murderous world, we agree to reflect on murder and make a choice."—Camus

Anyone who accepts military induction becomes part of a system designed for killing people. Before accepting induction he should consider what he is being asked to do.

A small Asian nation is now being pulverized by the concentrated violence of the strongest, technologically most advanced military power ever to exist. We are trained to believe that the litany of Anti-Communism will transubstantiate an underfed peasant, a work-worn woman, or perhaps a gracefully delicate child — that it will make of them sacrifices acceptable to the Freedom and Democracy invoked by our leaders. We are told it is our duty to accept the final solution to the Vietnamese problem now undertaken by the national militarism which has come to dominate American society.

Refusal to be inducted will not bring a halt to the killing. It will only mean a man has refused to be a killer. This, at least, would be a beginning to the resistance necessary if murder is neither to be supported nor condoned.

Is it enough?

There is no adequate response to the screams of a child sizzling in napalm.

According to John F. Kennedy (in Schlesinger's *A Thousand Days*, p. 88), "War will exist until that distant day when the conscientious objector enjoys the same reputation and prestige that the warrior does today." Anyone who would, under any circumstances, openly refuse to obey his government's command to help kill a human being is a potential CO. Some COs are opposed to all war. Others believe wars are sometimes instruments of justice and that only in such cases should a man participate in them. Although the US insisted at the Nuremberg trials that men are punishable for failing to take the position of the "just war" CO, US draft law provides legal recognition only for COs "opposed to participation in war in any form."

The non-pacifist who believes participation in a particular war would constitute collaboration in murder is, concerning that war, as wholly obliged to reject conscription as is the person who believes all war is murder.

From the time of Constantine most Western religious leaders have supported the state by means of the doctrine that a war is permissible if and only if it is an instrument of justice. In practice this doctrine has functioned to legitimize whatever military action a nation might undertake — not to assure a person's right and duty to refuse to collaborate in what he honestly believes to be murder. If just war priests, ministers, and rabbis were to act on the implications of their doctrine, legal provision would soon exist for the just war CO. As it is, many spokesmen for Christianity and Judaism appear to have nothing relevant to say about participation in war, apart from their dutiful blessing.

The Fellowship of Reconciliation has discovered no reason to believe any man will ever exhaust the possibilities of reconciliation open to him — just as the warrior can never exhaust the possibilities of violence. Matters of war and peace have to do with a person's ultimate commitment, not with last resorts.

The person who honestly commits himself to violence does, at least, live his choice. The one who just waits as part of the mass available for whatever molds society may see fit to impose has no part in life — only time to be served.

The Los Angeles Fellowship of Reconciliation provides a place where those subject to the draft can learn about their options and can examine their position; but in a society that devotes more economic resources and intellectual energy to militarism than has any other in all history, potential draftees are not alone in deciding whether they will serve the way of life or the way of death. At the LAFOR there is an opportunity for everyone to enter into genuine dialogue, to raise questions of meaning and value often suppressed by our educational and religious institutions, to search for new dimensions of being human, to make choices that can be lived.

Los Angeles Fellowship of Reconciliation,
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(Draft counselling may also be scheduled for other hours.)

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The following organizations also provide draft information and counselling in the Los Angeles area:

American Friends Service Committee, 980 N. Fair Oaks, Pasadena
(681-7651)

Los Angeles Area Committee for Conscientious Objectors
(NO 2-1184)

Students for a Democratic Society, 702 W. 27th St., Los Angeles
(748-9045)

Valley Peace Center, 13456 Van Nuys Blvd., Pacoima (899-9067)

War Resisters League, 1046 N. Sweetzer, Los Angeles (OL 4-4491)

—paid ad

Space program

(Continued from page 3)

placed up for competitive bidding.

No further plans

Congress has authorized no plans for any long range space program to follow Apollo. Once a man is placed on the moon NASA's programs end. Hibbs stated that any really large scale program would require about ten years to achieve its goal. If no new programs are instituted soon there may be a drop in aerospace activity once Apollo is completed.

Hibbs feels that any further space efforts would not have the impact and consequently would not have the prestige value of the first man on the moon. This, he feels, is the main reason for Congress' reluctance to support further space efforts.

The YMCA thought about bringing the Aman singing and dancing group to Beckman this year in place of the Yale Russian Chorus. This group specializes in Middle Eastern and African music and folklore, with some excursions to other parts of the world. But last week the cabinet sat back and began reconsidering. What's wrong, fellows—don't you like authentic belly dancers?

Architect Retained

Mr. Robert E. Alexander, a fellow of the American Institute of Architects, and a planner of university campuses and cities, has been retained as consulting architect for Caltech, announced Robert B. Gilmore, Caltech vice president for business affairs.

Alexander's duties will be advising the trustees on future campus development, and the selection of and consultation with architects on individual new buildings. He also may design selected buildings.

"His appointment will assure the continuity of attention to design and aesthetics in the development of the Caltech campus," Gilmore said.

Presently the head of the firm of Robert E. Alexander and Associates, Architects, Los Angeles, Alexander earned a degree in architecture from Cornell University in 1930. He completed his

training in New York and California architectural offices.

In 1951 he resigned as president of the Los Angeles Planning Commission to go to India as consultant on planning and housing for the United Nations. He has served as consultant to several US federal agencies and on numerous national committees on urban design and housing.

Alexander has prepared long-range plans for the development of six college campuses including the University of San Diego campus and the first increment of its school of Medicine. He is currently working on a long-range plan for the Claremont Graduate School and University Center, and Associated Colleges.

Author of *Rural City*, a new concept of city planning, and co-author of *Rebuilding the City*, an early treatise on urban renewal, he has contributed many articles to national publications on the planning of colleges, schools and communities. Alexander is a founder member of the International Center for Regional Planning and Development. He is also a member of Governor Brown's committee on good design.

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TECH Sports

Rugby Team Loses, But Shows Promise

The Caltech rugby team, playing its second game, lost to Loyola 9-8, but only on the scoreboard. Tech lost the toss and began play against a fresh breeze. In the first ten minutes Loyola, using the touch line (the sideline) well, bore down on Tech's line, which was held intact only by desperate tackling. Then on a scrum at the 15 yard line Tech won the ball, but the backs fumbled momentarily. Mick Mortell picked up the loose ball and ran through the Loyola defense for a touchdown under the posts. John Gallivan converted easily. This gave the team more confidence, and with the forwards getting the ball cleanly from the lineouts and scrums, the back handled the ball well in some very fine open field running.

Early lead

With about 25 minutes elapsed, Ed Cline, Jim McWilliams, Phil Karlton all handled the ball before passing to Bill Wright, who touched down in the corner for three more points. The conversion failed, so the half-time score was Caltech 8, Loyola 0.

The team seemed all set for victory, but something went wrong in the second half. The lineout play (in-bounds play) broke down. The ball, when Tech managed to win it, just dribbled back with Loyola forwards on top of it. The backs had no chance to move and were forced to kick out of bounds. Loyola kept up the pressure, and a wild kick was blocked down, giving them their first score. The conversion failed, so the score was 8-3.

Poor second half

Very loose binding in the forwards hampered all of Tech's efforts to get going, and they found themselves on their own end-line again. From the line-out, Loyola tipped the ball forward, and Gallivan had apparently touched it down safely, but the referee ruled a touchdown for Loyola.

With about five minutes left in the game, Tech was caught off-side, and Loyola kicked a

goal to go ahead 9-8. On the final whistle, a drop goal effort by Mortell was wide.

This was the first real test of the team, and the results were very encouraging. The backs displayed plenty of talent for running and ball handling; the forwards were ably led by Mike O'Sullivan with Gallivan, Ward, and Karlton well to the fore in the loose rucks (free-for-alls) and foot rushes. More players can still be used, so anyone who relishes the sheer animal excitement of running with a ball should contact Mike O'Sullivan at extension 1161.

IH Field Performances Impress

Interhouse track has attracted very little interest this year. Few people are willing to put in the required number of days to qualify for the events. Monday's preliminaries were a good example of the apathy of several

Houses—only one preliminary was required to bring the number of contestants down to manageable size; one person had to be eliminated in the 220 yard dash. Fleming, Page, and Rud-dock had somebody entered in

each event, but there was almost nobody from the other Houses.

The situation was better in the field events; because of a lack of a practice requirement, plenty of people showed up to compete on Tuesday.

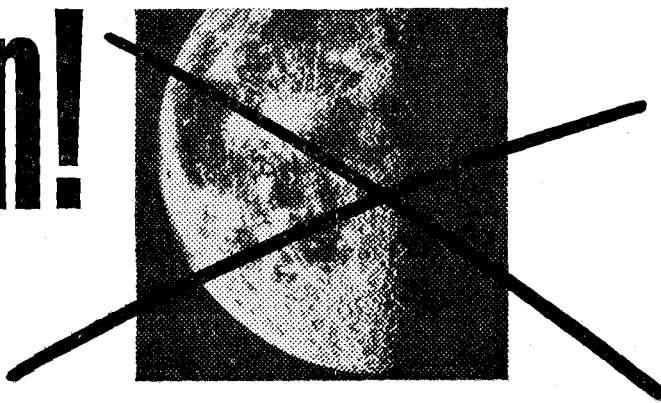
Because of the number of competitors, performances were good in all the events. Competition started with the high jump, in which Ron Peterson was the favorite, and he came through in high style. After winning easily at 5'6", he continued to jump first over 5'8" and then clearing record-setting 5'10-1/2". Peterson bettered the old Interhouse mark of 5'10-1/8" set in 1948. He then continued to help Lloyd's chance by taking a second in the pole vault. Richard Wright of Fleming won that event at the height

(Continued on page 11)



Ron Peterson displays fine form in going over the bar in the IH meet. He sets new record of 5' 10 1/2". —by Gleason

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Field Finale

(Continued from page 10) of 9'6".

John Frazzini of Page won the javelin with a fine throw of 150'7" to beat the nearest opposition by almost eight feet. Frazzini was high-post man of the day, collecting 13 points with his first, plus a second in the discus and a third in the high jump.

Tom Wilson also turned in an impressive performance by winning both the shotput and the discus with throws of 36'11" and 115'6-1/4" respectively.

Dave Goodmanson got off a tremendous effort in his first try in the long jump and won easily at 19'6-3/4". His one jump was over a foot over the second place distance, so he quit, went back to the polevault pit and took a third.

The field events finished with Fleming having 28 points, Page 26, Ruddock 13, Lloyd 13, Ricketts 12, Blacker 4, and Dabney none.

Matmen Lose Sailing Team Opens Season Green

The Caltech wrestling team traveled to Pomona only to lose by a 24-11 score. After Tech forfeited at the 123 lb. class, Larry Gorbet, wrestling at 130 lb., was decided. Mike McLeod, for the second match in a row, pinned his opponent in the first round. At 145, John Stevens was pinned by Pomona's best man, while Russ Crenshaw at 152 and Jim Woodhead at 160 won easy decisions. Rich Sacks, wrestling an ex-CIF champion and football player, was decided and so was Joe Devinney. Heavyweight Rich Griest was pinned.

The team hopes to do better when they take on Claremont-Mudd here on Saturday at 2:00 p.m. They will also wrestle at LA City College next Wednesday.

The Caltech Sailing Team began the PCIYRA Spring Southern Series at Santa Barbara and Newport Harbor February 5 and 12. Caltech used inexperienced sailors in both regattas and consequently did not do especially well. The Santa Barbara regatta, sponsored by UCSB, was a strong argument for federal pollution control. Santa Barbara Bay was filled with kelp, detergent, and other substances usually mentioned in "Brewins." The Tech team usually sails in water and was out of its compound, so to speak. In "A" division, Randy Cook, making his debut as "A" skipper, and Larry Ruzzo, making his debut as a sailor, beat 3.6 boats, on the average, out of a field of nine.

In "B" division, Dave Hammond, crewing in the stern for a change, and Jon Romney,

skipping from the bow out of necessity, beat 2.2 boats. All but 1.2 of those boats were beaten when Hammond legally forced three boats to collide while remaining unscathed himself. One of them fouled out, and the other two wasted five minutes swearing at each other and at Hammond. However, a five minute lead is not enough for Hammond, and one of the boats quickly passed him. Overall, Caltech finished seventh out of nine, beating UCLA and Oxy.

Harbor Patrol wins

The real winner of the regatta, however, was the Santa Barbara Harbor Patrol, which beat the UCSB Sailing Club two falls out of three. They kicked everybody off the docks and forced one person to move his car, but they never noticed that nine boats

were launched for the price of one.

The regatta at Newport Harbor was held under much better conditions. The wind was quite steady, although a little strong in the morning. This was Caltech's first strong-wind racing this season, and the lack of experience was apparent. Don Radcliffe and Jim Brooks, the regular "A" team, started out poorly but improved steadily, showing that they were merely out of practice.


In "B" division, Hammond and Ruzzo just tried to stay afloat and considered beating any boats to be gravy. However, their confidence increased during the day and they began to sail more competitively. Overall, the Caltech team came in ninth out of eleven, beating UC San Diego and Cal Poly Pomona and losing to UCLA by two points.

High hopes

It is encouraging to note, however, that Tech has finished every race in the southern series so far this season and has yet to be disqualified because of a foul. Caltech is probably the only school in the PCIYRA that can make this claim. This fact, combined with the rising level of experience caused by using green sailors, is an indication that Caltech should do rather well in the forthcoming regattas of this series and next year. The next regatta will be sponsored by USC on February 26. The location has not yet been announced.

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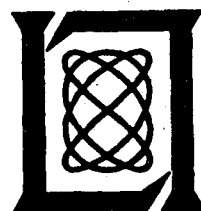
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Strong Redlands Beat Racquetteer

Although the varsity team took a drubbing from Redlands, the frosh held up a little better under the pressure of playing the league's strongest team. The varsity is weaker than in the past few years, and the only other school that should be weaker than last year is Claremont-Mudd, so it looks like a long season. Each man out for the team is working hard and is dedicating himself to improvement over the the season rather than becoming discouraged with individual match results.

The top frosh handled themselves well even in defeat and will obviously strengthen the varsity next year. As the frosh from other schools are an unknown factor, the scores against Redlands indicate that the freshmen team might be capable of winning several matches.

Next games will be against the USC junior varsity and frosh today and Pomona Saturday.

Blacker Wins In Discobolus

After two weeks of rainouts, it looked as if the Discobolus challenge might never be played off. But finally, Dabney and Blacker finally managed to get together to play off their softball game. Blacker was able to defend the trophy by scoring two runs in the bottom of the fifth inning to win by a hair, 6-5. Terry Allen was the pitching hero of the game and also aided his own cause with several fine fielding plays. Hitting was sparse, but that might be due to fine pitching.

Page succumbed much more easily in softball, as they forfeited by failing to turn in their eligibility list on time. Ruddock was next to challenge, and did so in swimming volleyball, and handball. Blacker accepted in volleyball, to be played off this weekend. Ruddock will presumably be more careful with their challenge than last time.

Basketball Stars Shine in Defeat

The Caltech basketball team dropped three more games to Pomona, UC Riverside, and Redlands. This was the 15th consecutive loss for the luckless Beavers, bringing their record to four wins and fifteen losses. John Tucker and Ed Hsi are still suffering from various ailments. However, all is not bleak in Beaversville, for two sophomores, Terry Bruns and Jim Stanley, have been playing their best, showing promise for the future.

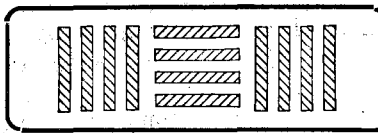
Bruns improves


Bruns scored 18 against Pomona, 24 against Redlands, and 25 against UCR, with 17 points in the first half. He was regarded as a poor shooter as a frosh, but has now developed into a real offensive threat. He can now drive as well as any center in the league and is also a fine outside shooter. Bruns, who currently leads the Beavers with a 50 percent field-goal and rebound average, has developed gradually rather than suddenly. Coach

Priestler attributes Bruns' improvement to much hard work and tremendous desire.

Stanley, the other sophomore in the starting lineup, suddenly found the touch last week, scoring 21 points against Pomona and 17 against UCR. Stanley started slowly this year, but he has finally showed indications of turning into an excellent shooter and playmaker.

DISCOBOLUS			
HOUSE	Won	Lost	Points
Lloyd	6	1	19
Blacker	3	1	10
Fleming	2	2	8
Ricketts	0	2	2
Dabney	0	2	2
Page	0	2	1
Ruddock	0	1	0





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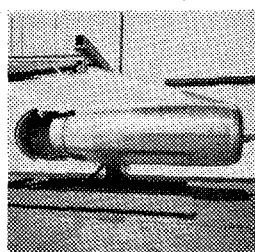
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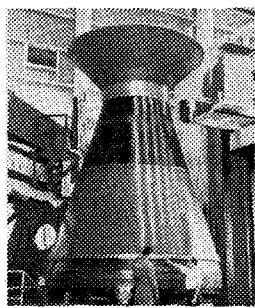
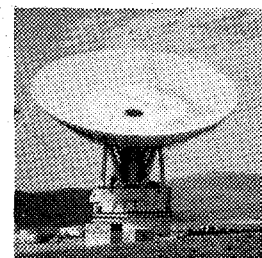
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On February 25, 1966

we'd like to hear yours.

RESEARCH AND DEVELOPMENT: Technical staff work on aerospace materials and processes and aero-thermo problems with such components as engine nacelles, thrust reversers, noise suppressors, and rocket nozzles. MS or BS in Aeronautics, or Mechanical Engineering with Jet Propulsion or Physical Metallurgy option.

TECHNICAL SUPPORT: BS in Mechanical Engineering for Plant Facilities and Equipment Design, or for Manufacturing Engineering.

Arrange your interview through your Placement Director. See interview date above.

AN EQUAL OPPORTUNITY EMPLOYER



MAIN PLANT HEADQUARTERS: CHULA VISTA, CALIF. / PLANT: RIVERSIDE, CALIF. / ASSEMBLY PLANTS: WINDER, GA.; AUBURN, WASH.

