Monday night's BOD meeting saw the introduction of a petition initiated by Joe Rhodes, to the effect that over 270 members of ASCIT, plus several students, be allowed to work for the offices of ASCIT president and vice-president. The petition requests a revision of the By-laws of the institution so that the Corporation can ratify a vote by the Corporation at large. The petition was posted in the Student Houses on Monday afternoon and was collected only four hours later, but more than 270 signatures quickly surpassed the required 250.

The petitions were handed over the names of the seven presidents present, as well as other student notables and Meo. When interviewed, the three presidents gave varying reasons for signing.

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Brown-nose Awards

Four Caltech students who have shown strong potential for leadership are the first recipients of the newly established Donald S. Clark Alumni Awards. The winners are juniors Sam Logan and Ed Seguine and sophomores Linus Martin and John Cummins.

It always warms our hearts to see Teckers receive awards; perhaps they ought to get medals, all of them, for valuable service while under fire, just for attending Caltech. But we would like the Administration either to better define the requirements for these D. S. Clark awards or to choose more qualified recipients for the $250 prizes.

Who springs to mind as a potential leader at Caltech? Fred Lamb, that’s who, and then Martin Smith and Joe Rhodes. In second rank come Eric Young and then the House presidents. These are the people that have shown qualities of leadership—are the campus formers of opinion, the men of action. Admittedly, they get honor keys for their troubles, but then what’s this D. S. Clark affair?

It worries us to see an ambiguous prize awarded to nice people for no special reason. Could you please elucidate us, Dr. Clark?

—Michael Moe
John Middleditch

Party at Arden House

After the regular channels were tried, and they failed, Dr. Huttenback promised to score up some money to send Pete Cross to the Boston marathon. Yet one more example of the responsiveness of the present Master of Student Houses.

As for the Athletic Department, maybe it would be better not to mention those tight-fisted, itchy-palmed, stone-squeezing penny-pinching, money-hoarding misers. Perhaps we shouldn’t mention those uncharitable, rapacious, niggardly tightwads. So we won’t. The Genial Abbot has promised to hold a charity party for Cross, the profits to go towards his plane fare. We’ll report further developments as they arise.

—Michael Moe
John Middleditch

Death Valley Days

Ronald Reagan’s hip-fired shots at the University of California have followed his election hard on. The result of his “desert-mind” tactics are already known by most innocent bystanders, no doubt. Economically, it is, many more people will now notice outside the campus. As the free public education, if it is, many more people will now notice outside the campus. As the free public education, if it is, many more people will now notice outside the campus. As the free public education, if it is, many more people will now notice outside the campus. As the free public education, if

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EDITORS' NOTES

Engineering Opportunities

for Seniors and Graduates in

MECHANICAL
AERONAUTICAL
CHEMICAL
CIVIL (structures oriented), ELECTRICAL, MARINE,
and MECHANICAL ENGINEERING

ENGINEERING MECHANICS, APPLIED MATHEMATICS,
CERAMICS, PHYSICS and ENGINEERING PHYSICS

CAMPUS INTERVIEWS

WEDNESDAY, FEB. 15

Pratt & Whitney Aircraft

Specialists in Power…Power for Propulsion—Power for Auxiliaries

Current Utilizations Include Aircraft, Missiles, Space Vehicles, Marine and Industrial Applications.
BOC Faulted
Editors: The primary goal of the Ameri- can judicial system is to protect the rights of the defendant. The right to be present during the ex- amination of witnesses, the right to call witnesses, and the right publicly to protest the verdict of those passing judgment are some of the prerequisites of the defen- dant. We believe it unthinkable that these rights are both just and necessary in democratic so- cety.

The Board of Control judges alleged violations of the Honor System and tenders recommendations which are usually followed by the Deans. These recommenda- tions can seriously affect the status of a student at the institu- tion, and thereby his future ca- reer. An Honor System violation is a transgression against the so- cietal code of the Caltech student body; the analogy between the BOC and a court is thus evident. Hence it is the duty of the BOC to allow, indeed even encourage, the use of all means available to

plead his innocence.

Har chamber

The BOC is negligent in this duty. The BOC holds meetings with an aura of secrecy and mys- tery. Before a person is in- formed even of the accusations against him, he must swear an oath not to reveal the proceedings of the meeting to anyone. The accused is not present dur- ing the examination of witnesses, he does not know their identi- ties, and has no access to any records of the inquiry. He can only present his own testimony and cannot offer rebuttal to the testimony against him. He en- trusts his fate entirely to the judgment of the Board, and while we are not impeaching this judgment, the situation is far from equitable. Under the pres- ent system the investigation is conducted; if the defendant can call witnesses of his own, he be- certain is not made aware of this right.

We know the procedures to be as we have stated from personal experience, and also we do not feel that the decisions in our particular cases were unjust, we do feel that the system could easily lend itself to injustice. We invite members of the Board and other students to express them- selves on the subject of BOC procedures. To this end the system is the key to a solution of the problem.

Tom Haze
Martin David

Offices Vacant
Editors: Every undergraduate pays twenty-odd dollars a year for the privilege of being a member of the Associated Students of the California Institute of Techno- logy. Incorporated, but relatively few of them are actually aware of the functions of this organiza- tion, save when an incident such as a dramatic clash between the Excomm and the Tech editors occurs.

In addition to providing occa- sional melodrama, the Associated Students publishes the California Tech, the Big T, and the Big T Totem. All athletic and service awards are given, and paid for, by ASCIT. ASCIT provides the en- tire financial support for the Model United Nations, the Drama- club, the Band and various smaller organizations, and a sub- substantial part of support for the Debate Team and Glee Club.

Snow your date ASCIT supervises the gateto- room, produces the Alumni Ser- vices (Wednesday at 11), runs many of the student-oriented af- fairs in Beckman, and provides social events such as Lost Week- end and the Snow Party.

The Eliminators

Sense of ASCIT’s subcommi- ttee on Student Government and the student council is a major role in the decision to elim- inate freshmen grades. The Board of Control, the body re- sponsible for enacting the full scope of these tasks, is in- cluded within the framework of ASCIT. The Chairman of the In- gerous ASCIT officer. ASCIT provided the or- ganization with a structure in which the Coffeehouse project finally got rolling.

The individuals who bear the prime responsibility for ASCIT’s activities are the elected officers. These officers are responsible to the entire undergraduate body— all seven Houses and off-campus students and act as the primary interface between the students and the rest of the Institute. The scope and nature of these tasks, as well as their rewards, are greatly undercurrents from the House offices with which most students are familiar. These offices—for which nomina- tions are now open—are de- scribed below:

PRESIDENT: Chairman of the Board of Directors and the execu- tive head of the Associated Stu- dents. Duties are not specifically defined, but the office is the most difficult and demanding of those here.

VICE-PRESIDENT: Chairman of the Board of Control and the execu- tive head of the Associated Stu- dents. Duties are not specifically defined, but the office is the most difficult and demanding of those here.
Chorale Planning Future Concerts

The Chorale is going strong this year, according to its director, Mr. Drey. Formed as a low-pressure singing group, the Chorale is planning to sing on three occasions this year.

Consignment

The first concert will be this Sunday at the Redondo Beach Methodist Church and will feature a program consisting of "Frostiana," the suite of numbers from Robert Frost's "Stopping by the Woods on a Snowy Evening," and "Sleepless." May Safely Graze," another of our favorites. Another of the numbers included in this program is "The Sheep," which will be sung by Ms. Clark, a member of the student body.

Another concert will be held on February 17th, at 8:00 p.m. in the Redondo Beach High School auditorium. It will feature the New York City Symphony Orchestra under the direction of Mr. Donald Martin Smith. The program will consist of works by Mozart, Beethoven, and Tchaikovsky.

The final concert of the season will be held on May 16th, 1967, at 8:00 p.m. in the Redondo Beach High School auditorium. It will feature the New York City Symphony Orchestra under the direction of Mr. Donald Martin Smith. The program will consist of works by Mozart, Beethoven, and Tchaikovsky.

Dolphin Talk

(Continued from page 1)

Dolphins are highly intelligent creatures, indispensable, however, from both an anatomical and a behavioral standpoint. If brain size is plotted against body length for infant and adult men and women, you will find that they all lie on the same straight line. Both the computing components and the input/output components of a dolphin's brain are almost as complex as or more complex than man's.

Lilly concluded with the comment that he and his group are not trying to teach dolphins English. They are merely attempting to establish a means of communication with what he considers another intelligent species.

Canadian Students Operation Retrieval

A team of Canadian University, Civil Service, and Government Management personnel, working with 11 members of the student body, will be going to the United States to attend the conference.

The conference will be held in Washington, D.C., on Thursday, April 16th, 1967. It will provide an opportunity for a private interchange on the problems of women's college education. There will be a dinner at the White House, and the group will have the opportunity to meet with several government officials.

Canadian students interested in attending should contact their university's Office of International Affairs or the Canadian Embassy in Washington, D.C. The cost of the trip will include airfare, hotel accommodations, and all meals.

Citizens Commercial Trust & Savings Bank of Pasadena

Perhaps you like dates that start later in the evening. Or perhaps you'd like to take a "bli­

killed" meal to see something unusual. You're going to like this one. It will be held on Tuesday, June 20th, at 7:00 p.m. The event will be held in the auditorium of the City College of Los Angeles. The program will consist of a lecture on the history of the United States, followed by a movie about the history of the United States.
VISTA Visits Next Week

Members of Volunteers In Service to America (VISTA) will visit Caltech next week. On Thursday and Friday, February 9 and 10, attractive young recruiters for this domestic peace corps will set up a table on the Olive Walk to recruit Tecmarkers to altruistic service. It is possible to sign up either for the year-long program or a summer tour of service.

VISTA's here Information about VISTA can be obtained next Thursday, February 9, at the YMCA Grad Sack Lunch. The color film "A Year For Tomorrow" narrated by Paul Newman, will be shown.

On Sunday, January 29, the famous Julliard String Quartet performed at Beckman Auditorium in front of a near-capacity audience. The group played three pieces: Quartettsatz, C minor, by Schubert, Quartet No.6, by Bartok, and the B Flat Major Quartet, Opus 130 with Grosse Fuga, Opus 155, by Beethoven. The performance of all three works was a masterpiece. Intonation, ensemble, and musicianship were of the highest caliber.

Typical of the professional New York concert, the first piece commenced immediately without the usual on-stage tuning. The first violinist vigorously led the group, his choice of strings for the Grosse Fuga flawlessly. This was a truly outstanding performance, lacking in no respect. The next piece played was the Bartok Quartet. This superb work of the Hungarian composer was performed with equal vigor and enthusiasm. The Quartet beautifully displayed Bartok's many technical inventions for strings. All the members of the group showed an awareness and sensitivity for Bartok's melancholy: so much so that the work sounded almost bitter.

Beechovnen The Quartet's rendition of the B Flat Major Quartet was exceedingly fine. Very rarely does one hear the famous Grosse Fuga performed so well. The audience received this final piece with cheers of "Bravo, Bravo" attesting to the high quality performance of the Julliard Quartet.

One criticism can be raised about the Quartet: there is nothing unique about them, nothing by which they can be truly identified. They are indeed excellent musicians, but not special or unique. Each group as the Budapest String Quartet or the Pacific Trio are representatives of individual and distinct groups. One can easily identify others as the High quality performance of the Julliard Quartet.

Their performance last Sunday was a most thrilling and splendid experience for the musically inclined.

The Critical Ear

Why become an engineer at Garrett-AiResearch? You'll have to work harder and use more of your knowledge than engineers at most other companies.

If you're kind of engineer, you have some very definite ideas about your career.

For example:

You've worked hard to get a good education. Now you want to put it to work in the best way possible.

You will never be satisfied with run-of-the-mill assignments. You demand exciting, challenging projects.

You not only accept individual responsibility - you insist upon it.

Does that sound like you? Then AiResearch is your cup of tea.

Our business is mainly in sophisticated aerospace systems and subsystems.

Here, research, design, and development lead to production of actual hardware. That means you have the opportunity to start with a customer's problem and see it through to a system that will get the job done.

The product lines at AiResearch, Los Angeles Division, are environmental systems, flight information and controls systems, heat transfer systems, secondary power generation systems for missiles, electrically and space, electronics, and specialized industrial systems.

In each category AiResearch employs three kinds of engineers. Preliminary design engineers go to the analytical and theoretical work, then write proposals. Design engineers do the layout; turn an idea into a product. Developmental engineers are responsible for making hardware out of concepts. Whichever field fits you best, we can guarantee you this: you can go as far and last as your talents can carry you. You will make as much money as any engineer in a comparable spot - anywhere. And of course, at AiResearch, you'll get all the plus benefits a top company offers.

Our engineering staff is smaller than comparable companies. This spells opportunity. It gives a man who wants to make a mark plenty of elbow room to expand. And while he's doing it he's working with, and learning from, some of the real pros in the field.

If the AiResearch story sounds like opportunity speaking to you - don't fail to contact AiResearch, Los Angeles, or see our representative when he comes to your campus.

We'll be happy to talk to you - about you and your future. And put this in the back of your mind.

In a field where meeting challenges pays off in rewards...

AiResearch is challenging

An equal opportunity employer

AiResearch Manufacturing Division Los Angeles

Page Five

Thursday, February 2, 1967

C A L I F O R N I A  T E C H

Do Go-Go Girls Play Go?

The beginners' class in Go will continue with a meeting this Friday at 4 p.m. in the Y lounge. Usually instructions are given from 4 to 5, and games are played from 5 to 6. All undergrads, grad students, faculty, and staff are welcome.

Go is a two-person game with about 3 to the 361st power possible games. It ranks with chess as an intellectual endeavor requiring foresight, intuition, subtlety, and "keen analysis."

The regular instructor, Dr. Richard Dolen, is a skilled amateur player, one of the best fifty in the LA area. Dolen will not be present this week, but he has promised a guest instructor for the class.

Go-go-go

Go is played on the intersections of a 19×19 rectangular grid; black and white pieces, called stones, are placed alternately on the board. The object, besides displaying one's virtuosity, is to surround the most territory.

Series Go players are ranked according to their ability. The Japanese professionals' highest rank is 6-dan, down to 1-dan. Amateurs range from 6-dan down to 1-dan, then 1-kyu down to 5-kyu. The ranking indicates the number of handicap stones the weaker player may place before the stronger player places his first stone. Dolen, the usual instructor, is a 5-dan amateur.

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on

MONDAY, FEBRUARY 1967

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Hoopsters Set Scoring Mark

In a single week the Caltech basketball diving from the heights, a new scoring record, to the lowest of the low, a miserably played game against Whittier. In trouncing Pacific Christian 117-50 on Wednesday, January 25 the Beavers set a new school record for most points scored in a game. This erased the old mark of 112 set in 1954 against LaVerne when Caltech won the SCIAC championship.

The second string started the game; Ed Ha, George Fox, Cliff Teder, Bruce Threewitt, and John Frazzini, with help from the first string, could manage only a 20-point lead at halftime. In the second half the lead fell to 68-62 with nine minutes left in the game. Then Caltech went into a full court press and turned on their power. Led by Jim Pearson and Jim Stanley, the Beavers stole passes, forced numerous turnovers by Pacific Christian, and scored at will. It was an impressive fourth quarter as Caltech outscored their opponents 49-3. Seven Teckers scored in double figures; Stanley led with 26 points.

On Saturday night, Caltech lost one more conference game to the Whittier Poets 101-66. Playing without Threewitt and captain J. Pearson, the Beavers appeared spirited and weak. The game showed how vital Pearson is not only to the team's effectiveness but also to its spirit and posture. Whittier bothered Caltech with a full court press, but it was the Poets' tremendous board strength, especially that of 6'8" center Reckmier, that killed the Beavers. Tech was out-rebounded 49-45 in the second half alone.

Whittier led by 12 at the intermission and the proceeded to run away in the second half.

The coaches voted Terrry Bruns "player of the week" for his scoring and all-around fine play during the week.

Basketball action continues through the week as Caltech played Oxy yesterday and travels to Redlands on Saturday to face the conference leading Bulldogs. Next week sees Tech play LaVerne at home on Tuesday and Biola away on Wednesday.

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SHOP DAILY 10-6 MON.-SAT. EVENINGS TO 9
50¢
This coupon entitles bearer to an additional 25 cent discount off our already discounted prices on all long-playing albums around $1.25 and over. (Expires February 16.1)

Far from stereotyped
but close to graduation?

The man from Ford Motor Company would like to talk to you if you have a yen to join the people who come up with better ideas in almost everything from automotive marketing to steel-making to basic research. Whatever your major—arts, science or business—if you want to work on a better idea team, we may have a place you'll like at Ford Motor Company.

Call your placement office right now for an appointment.

Dates of visitation:
February 24, 1967

At Ford Motor Company we're always breaking molds . . . when we find a better way to accomplish our objectives. If you like the idea of finding better ways, want to apply your imagination to the sort of problems that haven't even been faced till now—you might be our kind of man!

You know, of course, we build cars and trucks and tractors. But did you know we're also the nation's third largest producer of glass, a leading manufacturer of steel and paint? Our subsidiaries include a credit company, a leasing company and an insurance company . . . and we're even working on a special electric car project.

Whatever your interests, see our representative when he visits your campus. (Or write: College Recruiting Dept., Ford Motor Co., Dearborn, Mich.) He's always looking for better people with better ideas.
Discobolus Tale Told

Discobolus competition has gone slowly this year after several delays first term. Perhaps things will go more smoothly this term as competition has picked up somewhat. Last week’s contest saw Fleming preserve its hold on the book by defeating Black Rock in bowling. The team of Terry Warren, Ken Ya­no, Jack Wilschke, Larry Water­land, and Rich Touton took an easy two-game victory as they scored an aggregate total of 747 and 807 in the two games.

Long story

In case you haven’t followed the trail of the Discobolus book during the year, here is a brief resume of its progress. Lloyd picked up somewhat. Last Wednesday, the team traveled to remote Cal Lutheran to meet one of the better opponents of the season; their wrestlers in the 123 lb. and heavy­weight classes being undefeated this season. The bulk of CLC’s strength was in the lower weight classes, and including the two forfeits they took the first 25 points before Dick Thornberry

held the trophy at the beginning of the year, but Fleming beat them in pool and billiards. Page beat Fleming in badminton, then kept the book by beating Ruddock in soccer and Dabney in pool and billiards. Blocker finally beat Page in swimming, then lost right away to Ricketts in football. Lloyd beat Ricketts in basketball. Fleming won from Lloyd by forfeit and kept winning in the aforementioned bowling match.

This week Dabney has challenged Fleming in tennis, pool, and bowling with the match to be contested in bowling this weekend.

Beagle Rolls On

As Matmen Lose

In their recent matches the Caltech wrestlers have shown further signs of their continuing improvement, and, had it not been for their two forfeits, they might have won Saturday’s contest.

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won by decision at 160 lb. Alan Beagle, wrestling at 177, came through with his usual pin and five points to bring Caltech’s total to eight against Cal Lutheran’s 28.

UC Riverside wrestled here on Saturday, and although they won 28-11 this was one of Caltech’s best matches of the season. Doug Mason got five points by pinning Dave Dewitt of UCIR in the third period. At the time he was enjoying a safe 161 lead. Alan Beagle, this time wrestling heavyweight, had to settle for a decision since at 177 lb. he was outweighted by 70 lb. By his oppo­nent. The rest of Caltech’s points were provided by Joe De­vin­ney, the only sophomore on a team of freshmen, in what may have been his best match of the season. He took a wrest­ling decision, then wrestled later in exhibition and won again by de­cision.

The next few matches will be at home with Caltech battling Pasadena College on Saturday at 4:00 p.m. and Cal Lutheran again on Wednesday at 7:30 p.m.

Wrestler of the Week

Dick Thornberry, a freshman from Lloyd, is this week’s “wrestler of the week.” Coming into the season late because of illness, Dick has improved rapidly. On the mat he exhibits a natural instinct and poise that place him above the average wrestler.

About Thornberry, Coach Gut­man says, “As a freshman, Dick shows great promise in his athletic endeavors. In football he played first string defensive half­back and did a fine job. Dick came to wrestling with very little experience, and as the season progresses he is improving at a great stride.”

“He has won several matches this year, and I’m sure, with his type of determination, he will become one of the better wrestlers in our league. I classify Dick, in all respects, a true ath­lete.” Thornberry won a decision last week in the match against Cal Lutheran.
Electric Autos To Cure Air Pollution

by Wally E. Bippel

People usually lose the right to pursue happiness, or run a free press, or bear arms, a little at a time. So it is with our air — until one day, perhaps a day too late, we’ll look around and wonder what happened. Little good will be our national parks if we can't see the trees and animals, and what little we do see looks a sickly gray. Even today, low density air pollution obscures distant mountain views and other scenic wonders.

Were we willing to stop burning things, we could easily have clean air again. The only catch is, we want to remain industrialized. Fortunately, there are several conceivable ways out, including liberating energy with nuclear, solar, and hydro-electric systems. Finally, where chemical processes must remain, we can enforce the use of filtering devices. Collect active gases, we can finally, gain wide acceptance. Were it not that space is limited, we would do so.

Expensive juice

Clean heat will be the easiest solution, let us take a little closer look at the problem. Our burning problems may be resolved into three components: Transportation, industry, and heating. The relative weight of each is a function of geography, and in some cases, season.

Excellent wave

If, with potentially 60 per cent of the American air pollution removed, the toughest knot remains — transportation vehicles. The problem is rough, since any solution, in all aspects, must be economically feasible; about 30 per cent of our economic output is at stake. The most obvious approach is to try cleaning up the internal combustion engine. After spending several millions, California and the nation have learned the futility of this approach.

A second solution is engine redesign. According to several authorities, the nitrogen oxides can be reduced by changing the time of air and fuel intake. Another aid would be the use of a constant speed engine, driving a generator, whose output is electronically controlled, and then fed to electric motors on the wheels. This would kill the excess hydrocarbons and nitrogen oxides produced during acceleration and deceleration.

A battery-powered vehicle would provide the complete answer. If someone would just know how to make a decent battery. First of all, the land transportation system would be zero, second, an electric mile at present costs on one-cent that of a gas mile. Mechanically electric vehicles can be ridicuously simple, with as little as six moving parts: the power train, including the four wheels. This, of course, would cut down maintenance costs.

In my next article, I would like to talk about electric cars in a little detail, including my own progress in building a 20 hp, 3500 lb. converted VW.