

Dear Lee A.,  
Please don't  
call me.

# California Tech

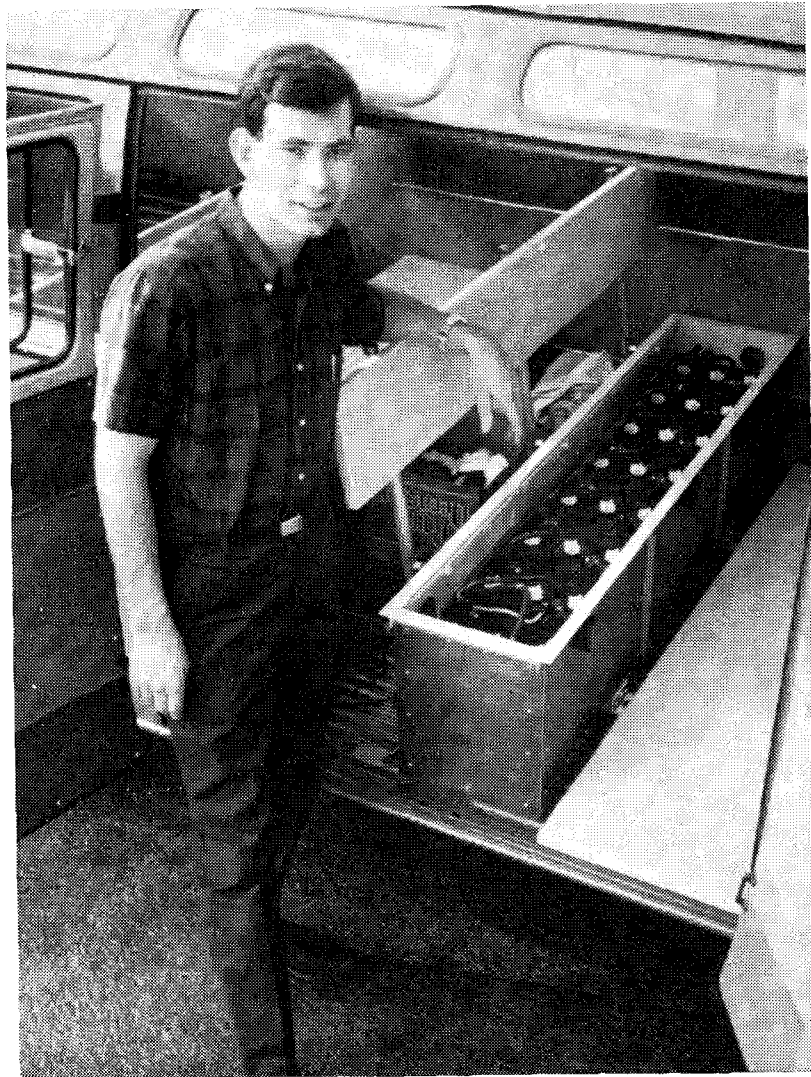
Associated Students of the California Institute of Technology

I'll call you.  
Lyndon

Volume LXIX

Pasadena, California, Thursday, April 4, 1968

Number 22



Is this any way to run a Volkswagen? You bet it is!

## British to Enter Electric Car Race?

by Br\*nd\* St\*rr  
Girl Reporter

The Caltech vs MIT race is common knowledge, but how about Caltech vs Britain? British builders of electric cars are being prompted by the British Engineering Magazine to enter the electric car race.

On March 26, an electric car meeting occurred. At this meeting, Wally Rippel explained the design of the car's engine, the purposes and rules of the race, and some exciting research which must be done in order to perfect the car. This engine is a complete unit as opposed to the MIT engine which is four units built into the wheels. The engine is a D.C. engine, weighs 220 pounds and has about 20 h.p. The new batteries arrived recently and must be tested for performance.

The car was built with the idea that the first electric cars won't have D.C. charging stations, so they must be able to plug into existing A.C. outlets. The existing chargers, if they are adequate, would weigh entirely too much, so a new charger must be developed, and must be a part of the engine. In addition, the control system

charger must be developed and must be perfected. Caltech students must team up to solve these great problems in time for the Great Race.

There are many reasons behind Wally's decision to work on an electric car and to race this car. He and others believe that this kind of car has tremendous potential for solving the air pollution problem. He also feels that this car will accelerate the transition from steam to atomic power plants, and that the car is very economical since it has fewer moving parts than a gas engine.

The race with MIT, and now, possibly with England will accomplish several goals. Wally does not want to be the builder of this car. He hopes to get more students interested in this project so that he will be a member of a group which is working towards a common goal. Hopefully, this work will promote student interest in the development of batteries and in electrochemistry and related fields. In this way, students will develop the theoretical tools which industry needs but hides from its competitors through patents. Wally also hopes that this work

will change two images, the image of the electric car as a fantasy, and the image of the college student as blindly striking out against the establishment. These goals reveal Wally as a person who is very aware of the context in which he is working and living.

The rules of the Great Race were set up in the hopes that the winning car would be the best in terms of public use. The rules are as follows:

1. The component value of the prototype car should be no more than \$5,000. From this figure, the production cost can drop to a figure which compares with the cost of a gas engine car.

2. The charging system must be a part of the car and must use National grid power i.e. the existing power companies to charge up. No animal power may be used unless the competitor is willing to accept the penalty for this.

3. The driver is defined as someone who is in the vehicle at the start and finish of the race and who travels either in the car or on foot from start to finish.

4. The competitors must follow the state traffic regulations.

5. The cars must pass the state safety requirements.

## Senator McCarthy to Speak

by Roger Goodman

At the invitation of the Caltech YMCA, Sen. Eugene J. McCarthy (D-Minn.), candidate for the presidency, will speak here tomorrow morning at 10:00 on the Olive Walk in front of Winnett. This is his first appearance in the Los Angeles area since Tuesday's Wisconsin Democratic primary, in which McCarthy garnered over 50 percent of the vote, though Sen. Robert F. Kennedy (D-N.Y.) was not on the ballot.

Supporters may greet McCarthy at 8:30 at the Burbank airport, where he will arrive on

a PSA flight from San Francisco. After a press conference there, he will proceed to the campus.

In case of rain, the talk will be moved to Beckman. Dr. DuBridge has released all employees from 10:00 to 11:00. A number of students from other colleges is expected to come, because of McCarthy's limited speaking schedule.

His visit was made possible by much effort on the part of the Caltech Y. For a while, it was not definite that he could come, and his talk here is subject to last-minute changes.

## "Silent Power" Conservative Tool

The following is a release from CHOICE 68, the National Collegiate Presidential Primary, under the sponsorship of Time Magazine. CHOICE 68 balloting, under the supervision of EXCOMM, will take place on the Caltech campus on April 24.

—Eds. Note

If anyone makes a killing through CHOICE 68, the National Collegiate Presidential Primary, it could be the campus conservatives. Although caricatured endlessly as dedicated young fascists obsessed with the mirage of exterminating insidious communism and related socialist end products, the fact remains that as a semi-professional political machine in the narrow, conventional sense of the word, the student right is unequal.

This professionalism has developed, paradoxically enough, as a result of the incredible publicity that student leftists have received from the national press. Their large and usually garish demonstrations have rudely thrust the less flamboyant conservatives far into the background — where, in the leftist scenario, they vegetate in deserved obscurity.

Actually, this guise of conservative anonymity is deceiving, for the vitality of the student right rests in its dedication to the democratic process. Student power for conservatives does not entail the leftist course or direct and militant social intervention regardless of law and order. It involves instead power gained and administration through accepted formulas as established structures — student government, for instance, and national student organizations such as the Young Americans for Freedom.

So while the leftists picket, agitate, and alienate, the student conservatives try to pack the polls and churn out the vote. It's a simple, direct process, almost mechanical in fact. But that, after all, is how election are won — and campus conservatives are out to win CHOICE 68.

Their chances of doing so are not as minimal as some liberals would like to believe. For the politics of the right today are more the politics of charisma than any other political wing on the American scene. In '64 it was Barry Goldwater who hypnotically swayed campus con-

(Continued on page 3)

## Blood Drive Soon

The annual Bloodmobile Drive will be held on Friday, April 19, from 11:00 a.m. to 3:30 p.m. in Dabney Lounge. Sign-up slips will be distributed to all staff members and students. There is a great need for whole blood (or plasma) as evidenced by the large number of requests processed since the last Blood Bank was held here a year ago. It is therefore essential that we replenish our supply at this time. There is also a great need expressed by the Red Cross to replenish their supply used as a result of the war in Vietnam.

Over the past several years the phenomenal population growth of the greater Los Angeles area — along with increased production and economic expansion — has brought with it an increase in community responsibilities which must be shared by us all.

Among the more vital community services to experience an ever-increasing demand has been the Red Cross Blood Program. As population figures became larger, the calls for blood became greater. To accommodate the growing patient load, hospitals were expanded and new ones built — and blood began to be used routinely with almost every operation.

And along with meeting the needs of a mushrooming population, more pressures were added with each discovery of a new use for blood.

Cure-all

Blood derivatives were unheard of 15 years ago. Today Red Cross has seven available for the treatment of anemia, hemophilia, nephrosis, hemorrhage, shock, burns, and smallpox vaccination complications.

Open-heart surgery, unheard

## Charities Drive Begins

by Nick Smith

ASCIT Rep-at-Large

The ASCIT Charities Drive is now starting. It is late, but there really is one. There are three charities involved: Westside Study Center, Multiple Sclerosis, and the World University Service.

You have heard a lot about the Westside Study Center and its job training and tutoring programs in the past, and you will hear more about it later. We will not dwell on that now, but it is important, for Westside helps people who want to help themselves.

The Multiple Sclerosis Society does research on the causes and cures of this disease which cripples young men and women. Again, we will not dwell on this.

There is one charity, however, that most of you probably never

heard of before you came here. The WUS is sponsored by major student organizations in the United States and overseas. It is basically an organization that helps students in underdeveloped countries. In the past it has aided refugee students in countries ravaged by war or national disasters; countries such as South Africa, Angola, and Red China, where students are fleeing. The WUS provides food and housing where none exists. Health clinics have been built at colleges from Chili to Hong Kong. All in all, the WUS helps students in 60 countries and deserves our support.

To put it bluntly, these charities need our help in order to continue their work in helping others. Therefore we hope that you will give whatever you can, to help others.

of 10 years ago — now requires over 14,000 pints of blood annually for more than 800 operations in the two countries. And surgeons in Los Angeles and Orange Counties depend upon Red Cross to supply freshly drawn whole blood for the delicate operation that restores patients to normal health.

From a production of 4,000

pints in 1946, last year Red Cross was called upon for more than 190,000 pints. To fulfill its obligation for this year, Red Cross should collect in excess of 200,000 pints.

A big Red Cross responsibility that everyone must share is the care and treatment of hospitalized children Every fifth pint

(Continued on page 3)

## Party-Party

Miss the frat parties you thought you'd find in "college?" Try Culbertson at 8:30 tomorrow night. Do your thing to the sound of the **Shivering Bones**. Ask a Fleming Social Chairman if you have questions. Admission to all Teckers with dates.

Party-Party . . . Twice the Fun

Editorial

# Vote Yes on By-law Change

In the recent ASCIT elections, an amendment to the ASCIT By-laws involving the commission paid on national advertising only in this paper was defeated by the student body. Undoubtedly, the major reason for this amendment's defeat was a lack of understanding on the part of the student body. Next Tuesday, the student body will again be called upon to vote on a similar amendment. The amendment would change the By-laws involving the advertising commission on national advertising payable by the **Tech** from the present 35 percent to 40 percent. Now, you ask, exactly what does this mean and why is it necessary?

Let us take a company who wishes to place \$100.00 worth of advertising in the **California Tech**. This company first goes to its own advertising agency, which then goes to the National Advertising Services (NEAS) to request a placement of the ad within these hallowed pages. After the company's own advertising agency has extracted its commission, the original \$100.00 has dwindled to \$83.30, which is passed on to NEAS. NEAS, which is the **ONLY** national agency serving colleges, then extracts its own commission and passes the ad copy and the rest of the money, which is at present \$66.64, on to the **California Tech**. The business manager then takes a commission of \$1.64, which leaves the **Tech** with \$65.00 of the original \$100.00, or a total advertising commission paid of 35%. This is perfectly acceptable under the present By-laws.

However, starting next September, the NEAS is raising its own commission. Thus, instead of receiving \$66.64 for a \$100.00 advertisement, the **Tech** will be receiving only \$62.47. Under the present By-laws, this is unacceptable since the commission is limited to only 35 percent. Thus, unless the allowable commission on national advertising is increased to 40 percent the **Tech** would be unable to accept any national advertising from the NEAS. Whether you realize it or not, it is the national advertising which supports this paper. Without it, the **Tech** would be unable to support itself financially, and the printing of this paper would certainly have to be reduced, if not stopped altogether. We, the editors of the **California Tech** certainly would not like such an event to come to pass. Nor, we believe, would a majority of Teckers. Thus, we ask your support to enable us to continue our efforts to provide you, the student body, with a newspaper. Hopefully, you will think it is a good newspaper. Vote "Yes" on the upcoming amendment to the By-laws.

—Jim Cooper  
 Alan Stein  
 Dave Lewin  
 Jeff Hecht, bus. mgr.



After a mysterious absence the Caltech Stuffed Beaver has reappeared, in strange new garb. Could it be that we've misjudged him (her?) all along? She (he?) is temporarily residing in the student research associates' apartment.

## Choice '68: Johnson Evasive

President Johnson has declined a request by the Executive Office of CHOICE 68 to comment on the primary's three referendum questions. The President's Assistant Press Secretary, W. Thomas Johnson, explained that "Since the President is not an announced candidate, we have some questions about the propriety of his making the statement that you request."

Two of the referenda deal with the country's current involvement in Vietnam, and one with the priorities of government spending in confronting the "urban crisis."

The President did, however, express support for the CHOICE 68 project. "I hope the public service TIME is performing," he said, "will really be one — because if there is one thing disappointing to me about young people, it is that they don't use all the opportunities available to them to make their government a better government."

He cited the fact that "young people have a smaller percentage of those who are eligible to vote actually voting than any other age group."

"In 1964," he continued, "only half the young people took the trouble to express themselves when they had that opportunity. It ought not to be that way. Those who are going to live the longest and be most affected by the government, for a longer period, really have more at stake."

stead of The Byrds, Dvorak instead of the Doors. These measures are a temporary method for individuals to try to retain their sanity in the midst of acoustic chaos, but do not go far enough, chasing many up-campus at night, to the Grad Houses, or Off-Campus entirely. **Shallow**

Howsoever, back to the immortal question, "Why?" How can they think with that noise? The answer is obvious... they can't. In fact the real reason that many of the undergrads seek all-pervading sound in their lives is to avoid those awkward silences which often turn to introspection. Afraid of themselves, or of what they might discover about themselves, the noise-lover immerses himself in loud music, yelling, and similar sounds to save himself from the fate of discovering what he really is.

**WANTED:** Money-hungry graduate student in physics or electrical engineering to help me with a solution of a problem involving the practical application of an inhomogeneous magnetic field. Please contact **TODAY:** Jerry Bickon at 634-9179 or 750-7711 any time. If not there please leave number.



by Fishbone

by Randy

The record jacket of "God Bless Tiny Tim" Reprise 6292 says of him, "The world is wide/ with many things within/ but few so rare as he/ God Bless Tiny Tim." And it would be fitting very well with the general mood and level of the record to say "thank goodness" to that.

Tiny Tim is trying to be camp — so bad that he can be considered good. He certainly can't be considered to be good, and it's tempting to say he has passed the point where his badness can be considered to be good.

He does not compose his own music, but rather takes old songs which were probably quite bad in the first place (at least they were sufficiently obscure that the reviewer had never heard of them before.) Some of his renditions are merely mediocre, like that of "Welcome to my Dream," were his wavering voice leaves the listener unconvinced as to whether or not his intent was satirical, just rather disgusted at having wasted good time listening to it. In other cuts, like "Tiptoe thru the tulips with me," he uses sickening falsetto which grates on your nerves at best, and leaves you bent over a toilet relieving yourself of your last meal at worst. The musical back-

ground is provided by a group of musicians (if the term may be used that liberally) who very wisely chose to remain nameless.

**Amen**  
 The best thing to be done with TINY TIM'S first record, "God Bless Tiny Tim" is to launch it as a flying saucer from the roof of Millikan Library, or find some other method of using it to relieve your frustrations, should you by some mischance come into possession of a copy of the record. Otherwise just ignore it, if people wouldn't buy stupid records like this, then record companies would have no excuse to publish them, and stupid reviews like this would never have to be written.

In the same bath of records from Warner Bros.-7 Arts came a pearl hidden among the swine, the soundtrack of the new flick, "The Fox". This excellent disc has on it some of the most melodious sounds to reach this reviewer's ears from a movie since Eisenstein's "Alexander Nevsky", or if pop music is your bag, since the Beatles' movie Lalo Schifrin had outdone himself with this set of compositions, and above all through the song "Roll It Over", one of the funniest, bawdiest ballads in many a day.

## Notices

### OCEAN BIRDS, ANYONE?

The Pasadena Audubon Society is organizing a pelagic bird trip for Sunday, May 12, 1968, leaving Newport Beach at 6:30 a.m., visiting open ocean south of San Clemente Island and returning at 8:00 p.m. The cost is \$12.00, or \$8.00 for a limited number of students. If interested, contact Ralph Mancke, 23 Spalding, extension 1670.

### AMATEUR RADIO CLUB MEETING

The Caltech Amateur Radio Club will meet Tuesday, April 9 at 7:30 p.m. in Clubroom 2 of Winnett Center. Results of Collins proposal to be discussed. Everyone is welcome.

### GRADUATING SENIORS: ORDER ANNOUNCEMENTS NOW

Place your order for graduation announcements at the Bookstore by April 15th, and order class rings by April 22 to assure delivery by commencement.

### KEEN GENE NEEDS YOU!

Persons interested in supporting or discovering Eugene McCarthy please contact George Tucker

(449-3738) or the Pasadena headquarters at 29 S. Garfield (792-2049). Hurry! April 11 is the deadline for registering for the primary.

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## California Tech

Published weekly during the school year except during holidays and exams by the Associated Students of the California Institute of Technology. The opinions contained herein are solely those of the newspaper staff.

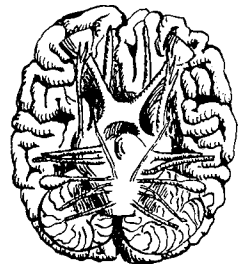
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**Photographer:** Stephen Dashill

**Business:** Jeff Hecht, Manager; John Walters, Circulation Manager; and Bob Abarbanel.

California Tech, Publication Offices: 1201 E. California Blvd., Pasadena, California, 91109. Second-class postage paid at Pasadena, California. Represented nationally by National Educational Advertising Services, Inc. Subscriptions: \$1.50 per term, \$4.00 per year. Life subscription: \$100.00. Printed by Bickley Printing Co., 25 South Fair Oaks Ave., Pasadena, Calif. Volume LXIX, Number 22, Thursday, April 4, 1968.



# from the cerebrum

by Lewin

A few Sundays ago I was walking down the Arroyo Seco, north of JPL, listening to the churning-gurgling of the waters swelled by recent rains. My escape to these sylvan glades lasted only a few hours, but the quiet and peace imparted by the still, calm wilderness lasted me for only a short while after my return to campus. Later that day I wandered through the student houses, on what must have been a masochistic impulse, and was once again assaulted by the very thing which caused me to flee those hallowed walls... noise, noise in unbelievable quantities.

Why do the undergrads here insist on living in decibel levels far and above that found in the average foundry? Well, one reason harks back to the structure of student life at Caltech. The undergraduate society at this institution is essentially a primitive tribal culture. Like the Sioux, the students pride themselves on their ability to bear pain and discomfort, and on their talent of inflicting pain to others. The most easily generated source of discomfort available to the undergrad is a stereo system.. Contrary to popular belief, the average student here does not enjoy music, but is a member of the Society of the Snake, a mystic order devoted to self-

flagellation through sound.

### Deep down

The status of a tribal warrior (House member) is determined by his ability to endure the Doors at 80 watts per channel. He gains even more status by leaving his stereo on full-blast, the door open, and himself elsewhere. At native fertility ceremonies (also known as Exchanges) the young brave pits his endurance and deafness against others of his tribe, or against members of other tribes, in a mad scramble for the sacred seven-digit nomograms which confer manna upon the brave. These rites produce more noise than a stereo, and hence can bring more status to those members of the tribe who dare attend them.

The Caltech student, like any self-respecting bacterium, comes in a culture, the culture I described above, though not in detail. But he is also an individual and as such must be treated as a unique being with an internal logic of his own.

### Inside He's

I've often wondered how anyone could think in the noise-saturated environment of the Student Houses. Even the silent-tropic types dwelling therein have radios or stereos for their own protection. If they cannot have quiet, at least they can generate sound that they like — Bach in-

# Jazz Concert

The West Study Center will be presenting its third annual jazz concert on April 10 at the Pasadena Civic Auditorium. The concert will begin at 8:15 p.m. and will feature Mongo Santamaria, Bobby Hutcherson and the Harold Land Quintet with vocalist Spanky Wilson. Tickets are available at the Y. For further information, call 684-0595 or 798-0958.

## FIRST POPULARLY PRICED SHOWING

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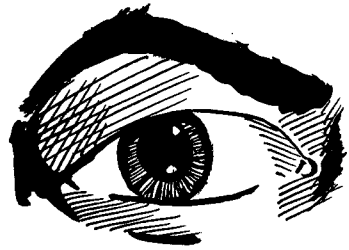


# Towering Eyeful

by Jim Cooper

Can a group of people hold the interest of an audience merely by sitting on a stage and reading to them? If the people happen to be members of the State Repertory Theatre group, the answer, surprisingly, is "Yes!" At least, this was the case last Saturday night when this group presented their production entitled *Those Mad Victorians* in Beckman Auditorium.

The first half of the program consisted of Lewis Carroll's famous story, *Through the Looking Glass*, which was narrated by Bret Adams. Although starting rather slowly, the readers soon gathered up the audience in the embrace of Mr. Carroll's classic fantasy. With almost flawless execution, the members of the company showed how much one could accomplish merely by reading a story. Especially enjoyable were the performances given by Miss Olive Dunbar and Miss Treva Frazee, who read the parts of the Red Queen and the White Queen respectively, as well as other sundry roles. In fact, the entire reading was done with as much life and vividness as that contained in the 1933 movie



of *Through the Looking Glass*, and the manner of characterization appeared to this reviewer to be almost identical with that employed in the movie. Perhaps the only fault one could find with this section of the performance was that the narration at times slowed the progress of the story too much, and one became anxious for the narration to end.

What little fault there was in the first half of the performance, however, was more than made up for the Groups' interpretation of Daisy Ashford's novel, *The Young Visitors*, which constituted the second half of the program. As perhaps could be deduced from the misspelling in the title of the work, Miss Ashford was not a very capable speller when she produced the work in the 1890's. As a matter of fact, she was only nine years old at the time.

Working with lines such as, "And taking the bull by the horns, he kissed her passionately upon her lips;" or, "I must take her out of the city to the green of the country and the smell of the cows;" the Repertory Group

did a beautiful tongue-in-cheek interpretation of material which certainly would have shocked the elders of the time for its frankness and keenness of observation. In modern times, however, the material is hilariously funny; and it was taken full advantage of by Allan Lorie, who read the roll of a rather stout, coarse commoner with high aspirations both as to women and to social prestige. Bonnie Franklin, as a seventeen year old "ward" of the commoner who falls in love with Harold Stassen, too did a fine job as did Bret Adams who read the part of Bernard. Maurice Hill was as noble as nobility can be as the Lord Chicham; and Miss Olive Dunbar as narrator increased the humor in many scenes merely by raising an eyebrow.

The adaptations of the two works were both very good, and Miss Diana Maddox who adapted them as well as directing the production certainly should be praised for shortening the works in such a manner that not only were they short enough for a production of this sort, but they still managed to capture all of the flavor of the originals. Also credit for this production should be given to producers Molly Dodd and Robert Laning.

The only great fault of the evening was the fact that the program only listed the names of the readers, and did not identify

(Continued on page 5)

## More Notices

(Continued from page 2)

### SCIENCE AND FOREIGN POLICY

All students, wives and dates interested in exploring the implications of this topic can meet with Professor Elliot in an informal discussion, YMCA Lounge tomorrow night: 9:00 'til whenever. No holds barred; part of a continuing series on social implications of Science and Technology.

### M-C-C-A-R-T-H-Y

The Caltech Young Democrats, until recently in mourning for the death of President Kennedy have revived with a new candidate. There will be a meeting tonight at 8:30 in Clubroom 2 to discuss organization and make signs for McCarthy's address on Friday. All members and interested people should try to come.

### VIVA CHAVEZ!

Talk on Mexican-American community problems, "Barrios, Boycotts, Brown Berets, Chicanos, & La Raza: Mexican-Americans Direct their Discontent" Wed., April 10, at 11 A.M. on the Olive Walk. Walk-in Seminar at 2 in the Y lounge.

## Transylvania

(Continued from page 1)

of blood Red Cross collects goes to a child. Red Cross provides the total supply to City of Hope, Childrens, Orthopaedic, and Shriners Crippled Children's hospital.

One advantage of donating blood through Caltech's Blood Bank is the added protection gained for you, whether or not you have donated previously. There is **no limit** to the number of pints of blood that can be received from the Caltech Blood Bank, should the need arise. By donating, you establish a Blood Insurance Plan that not only protects yourself and your family, but also makes it possible for the Red Cross to provide all types of blood in quantities needed for surrounding areas as well as for our armed forces.

You will be hearing more about this blood drive, and those who were here last year should know something about it already. If you have any questions concerning the Caltech Blood Bank Program, call Mrs. Joyce Remsberg, Extension 2374.

## Humphrey (?) '68

(Continued from page 1)

servatives, and this year the prophet's mantle rests on the shoulders of Ronald Reagan. Any sizeable student mobilization behind Reagan will do the liberal cause severe damage, and most campus conservatives know it. A glance at the CHOICE 68 ballot would tend to justify optimism. Those liberals dissatisfied with Lyndon Johnson's performance as Chief Executive have several extremely attractive candidates from which to choose. Predictably enough, the liberal vote for president will probably be extensively fragmented with

no overriding numerical superiority being enjoyed by any single individual.

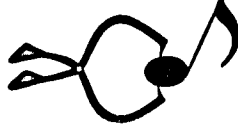
Conservatives, however, can rally in convincingly heavy numbers around Reagan. True, some extremists will back Wallace, and more moderate conservatives will support Nixon. But the bulk will vote for Reagan. The result could be a surprisingly authoritative conservative victory, one that would rock the leftists more than anything else.

If the liberals and moderates go their usual stumbling ways and fail to mobilize, than the conservatives will do handsomely in CHOICE 68 — for the conservatives, at least, care enough to vote. Do the liberals?

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Good grief, I wish he'd never heard about togetherness



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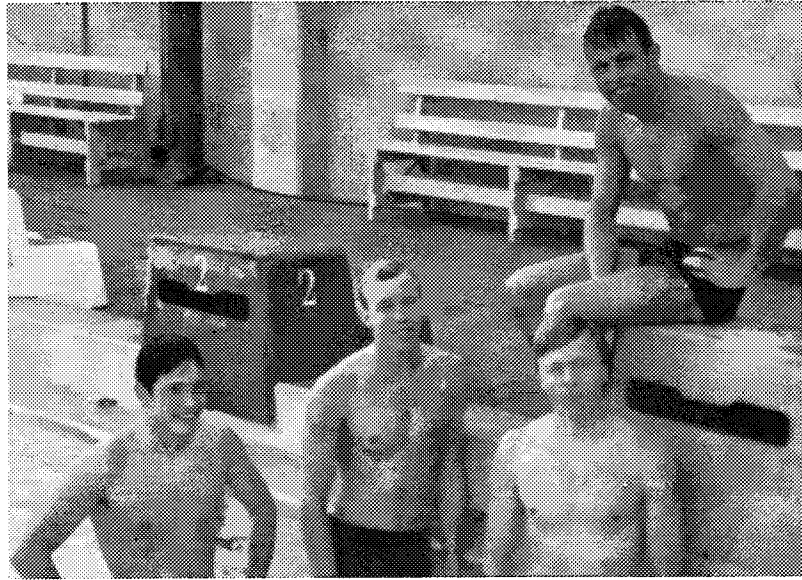
# Ducks Are 7 at NAIA

Four of Caltech's swimmers gave up part of the past vacation to represent Caltech at national swimming meets and produced a seventh place finish at the NAIA nationals. Henry DeWitt successfully defended his championships won last year, while Gregg Wright gained 3rd and 4th place finishes in the 100 and 200 yard backstroke events. Wright also gained 9th place in the 200 IM and Mabry Tyson won 10th place in the 100 yard breaststroke. The three teamed with Maarten Kalisvaart to produce places and new school records in the 400 free relay, (3:26.0, 8th) and the 400 Medley relay, (3:49.0, 4th)

the free reay with a 48.2 100 to pu the team from 12th to 8th pace after the team had qualified 11th with a time of 3:26.6. In the medey relay, Wright lowered his record in the 100 back by leading off with a 57.5 leg. The team was close to the lead after the third man, but Kalisvaart was not able to hold off the rush of three other teams and finished a close 4th behind the winning relay from Claremont-Mudd.

The following weekend, DeWitt traveled alone to the NCAA college division championships, where he tied two and broke

one of his school records. In the 50 free, DeWitt swam to a second place finsh in 21.9 seconds, tying his mark of last year. The next day he went 1:52.4 in an effort that did not gain a place but equalled his school record. Finally Saturday he bettered a record by going 48.2 in the 100 free during a swimoff for twelfth place qualifier. In the evening finals, he slowed down to 48.9 to gain 11th place. DeWitt's 15 points did not put him higher in the team standings, but did outdistance MIT who also attended the meet but did not place a single man.



This is the Caltech swimming team that went to the NAIA Nationals and placed 7th. They are from left to right; Maarten Kalisvaart, Mabry Tyson, Gregg Wright and sitting, Henry DeWitt.

## Harriers Squelch SCC

The Beavers track team came back from vacation and downed a weak Southern California College (SCC) 105-39. Caltech took the four jumping events.

The weight team put forth its usual strong performance as Blaschko, Ruth and Levinson swept the shot put in that order. Blaschko won with a toss of 43'4". Burton won the javelin with a toss of 180' and Petrie was second. McDonald heaved the discus 125' and Levinson took a close second.

The Beaver distance runners also ran well as they swept the 2 mile and the half mile and took first and third in the mile. Smith won the two-mile in 10:36 with Tardiff and Graham following. The 880 was won by Meo in 2:04.3 who beat Antaki by over two seconds. Graham was again third. Tardiff won the mile in 4:40.9 with newcomer Mason in third.

In the sprints, Caltech performed admirably as they took all firsts and the two relays. Butterworth nosed out Schultz for first in the 100 yard dash in the time of 10.3. The Engineers swept the 220 with Tarjan, Stanley, and Butterworth finish-

ing in that order. Tarjan's winning time was 23.3. Tinally Tarjan again beat Stanley in the time of 50.9 to win the 440. The Beaver 440 relay team of Butterworth, Andrew, Tarjan and Stanley won with 44.6. Caltech also captured the mile relay in 3:33.9 with the team of Antaki, Andrew, Tarjan and Stanley.

Gagliani led the Tech hurdlers as he won both the 120 yd. high hurdles and the 440 intermediate hurdles with times of 16.4 and 58.3 respectively. Burton was third in the high and Cummings was second in the intermediates hurdles.

Southern Cal. College had a strong jumping team and swept the triple jump. They allowed Caltech only the third which Fox gained in the long jump and his second in the high jump. Lomeli was second in the high jump.

This meet proved that the Heavers had stayed in shape over the vacation and also that they are ready for future meets.

Dut to the nature of the pool, slow for freestyle swimmers, DeWitt did not equal his record setting times of last year in the 50 and 100 yard freestyle; but Kalisvaart, who did not place, did succeed in improving his personal best times in those events, with 23.5 and 52.2 respectively. Wright lowered all three of his standards in his events with 57.8 in the 100 back, 2:07.5 in the 200 back, and 2:10.2 in the 200 IM. Tyson lowered DeWitt's 100 breaststroke record by neary 2 seconds to 1:05.1.

In the reays, DeWitt anchored

## Oxy Ducks Beavers

Caltech's swimmers suffered their fourth defeat of the season at the hands of Occidental this past Fri., 60 to 53. Prior to the meet, it was hoped that if things went well, Tech could pull out another close meet and at the start things went even better than planned as Steve Johnson produced an upset first place in the 1-meter diving. After Caltech won the medley relay, things proceeded to go downhill as Oxy took first and second in the 1000 and first and third in the 200 to even the score. Henry DeWitt

then won the 50 to regain the lead, but Al Nishimura touched out Gregg Wright in the 200 IM to give Oxy the lead which they never lost.

Over the weekend, DeWitt lowered two more of his school records while swimming at PCC. He swam the 100 fly in 58.5, still slow compared to some of his relay times but one second under the old mark. In the 400 IM, DeWitt outswam Wright in lowering the record by more than 20 seconds to 4:48.4. Wright swam the event in 4:56.6, also well under the old record.

## Fraz Hits 5-5

One of Caltech's finest athletes added another achievement to his illustrious Beaver sport career. John Frazzini went 5 for 5 in the last game of the previous term Coach Priesler commented on the fact, "This is one of John's finest performances in baseball here at Tech. Also this is the best batting performance that anyone at Tech has ever had. His timely hits helped us to victory."

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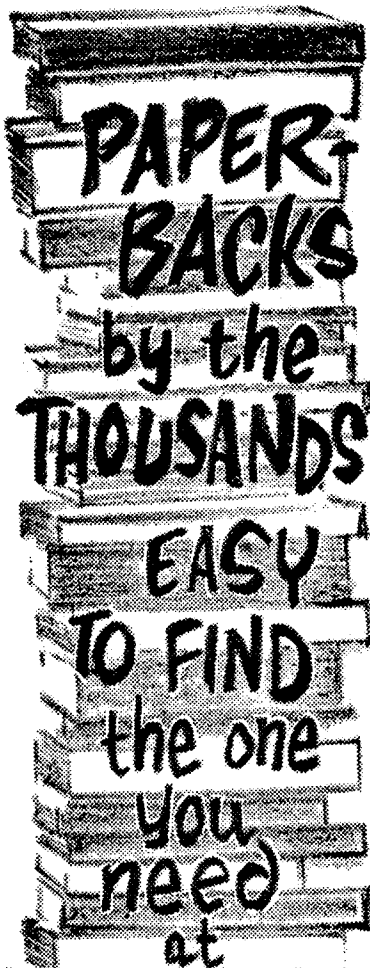
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## Netters Lose to Claremont

Last Saturday, outstanding performances by two of the members of the Caltech tennis team foiled Claremont-Mudd's hopes for a rout on Caltech home courts.

The two players referred to are not top-ranked varsity players: as a matter of fact, they are ranked fifth and sixth man, the lowest positions on the team. Nevertheless, Greg Evans and Martin Frost showed that the quality of the higher-ranked players is in no way the governing factor in deciding the overall quality of a team, but rather that overall quality is also determined by the caliber of the men ranked lower on the ladder.

Frost and Evans' individual wins in the singles division, and their combined win in doubles meant the difference between a possible 9-0 rout, which did not occur, and a reasonable 6-3 match, which did occur.

In the upper division, Pete Youtz lost a well-contested 4-6, 6-2, 6-3 battle, Roger Davidheiser was downed 6-1, 6-1, John Healy succumbed 6-3, 6-2, and Guy Duesdieker was vanquished 6-3, 6-2. Doubles scores were less encouraging, as Youtz and Duesdieker were annihilated 6-1, 6-1, and Healy and Davidheiser were trounced 6-2, 6-0.

The overall 6-3 score was a considerable improvement from Caltech's last 8-1 encounter with Claremont-Mudd, who obviously is endowed with a fine tennis team this season.

## Diamond Men Down CHM

The five-hit pitching of senior John Frazzini led the Caltech Beavers to their first conference victory to the young baseball season on Tuesday as they edged the Stags of Claremont-Harvey Mudd 3-2. The game was played at Caltech's diamond.

Frazzini went the distance for the Engineers, striking out nine Stags and walking seven along the way. Baird, the CHM hurler, pitched a fine game in losing. He also went the distance, giving up only two hits, striking out a dozen Beavers, and yielding seven bases on balls.

The Stags drew first blood by scoring one run in the first inning on three back-to-back singles. Caltech struck back in the bottom half of the first by taking advantage of three walks and a wild pitch to score one run. All the rest of the scoring



came in the third inning.

Claremont's King rapped a single to left, advanced to second on a wild pitch, and scored on an error by Helberg. Helberg led off the bottom half of the third with a double; Chapyak walked. Both runners advanced on a single by Savas, Beagle grounded into a fielder's choice driving in Helberg. Chapyak then scored what proved to be the winning run on a long sacrifice fly by Martin.

Tuesday's win almost has to encourage the Beaves who really took the short end last week against Redlands. The Bulldogs whipped them three times in three meetings, 14-7, 7-0, and 14-6. The Beavers' next outing is a doubleheader at Claremont this Saturday.

## Sportsman's Corner

by Eneinstein

With the coming of spring, a Tech man's thoughts turn towards baseball? Speaking of our national pastime, it's again time to pick a winner for fun and profit.

The countdown in the National League begins with the New York Mets. Any questions? In ninth will be the Houston Astros. Houston has some fine young pitchers and outfielders, and if an infield materializes, they could finish higher. With Richie Allen questionable, Philadelphia has no reason to place higher than eighth. A sick Rico Carty, an aging Henry Aaron, and an inconsistent pitching staff should keep Atlanta in the second division. Falling to sixth this year will be the Chicago Cubs. Ken Holtzman doesn't appear to have last year's form, and at least their previous year's performance.

Cincinnati will be the team to watch this year they could finish much higher or no lower than fifth place. Depending on team morale, and the performance of an inexperienced pitching staff, the longshot Reds could even steal the pennant. In fourth place will be Los Angeles. (What me, prejudice? So what if I live here!) The Dodgers made some excellent trades this winter, and Vincente Romo, Alan

Foster, and Bill Singer are pitching stars of the future. Pittsburgh's all-star infield, and Roberto Clemente should be enough to lift the Pirates into third place. If the pitching holds up, who knows? The San Francisco Giants have been hitting .315 this spring. Combine this with four pitchers capable of being twenty game winners, and Willie Mays and what have you got? A team that consistently manages not to win the pennant. That leaves St. Louis. Despite injuries, the draft, and numerous other possibilities, about the only thing that would keep the Cards from repeating as champions would be Bob Gibson and Orlando Cepeda being assassinated.

Along the line of predictions, here are my guesses for the upcoming Interhouse basketball campaign:

Page	5-1
Ricketts	5-1
Dabney	4-2
Lloyd	4-2
Fleming	2-4
Blacker	1-5
Ruddock	0-6

Most contenders have been hurt by the loss of key players by injury, second term graduation, or members participating in intercollegiate sports. Key players to watch are Ed Rehbein, Craig Maxwell, and Bob Vance.

## Towering Ctd.

(Continued from page 3)

the roles they read, which would have been a great convenience to the audience.

All in all, however, it was an excellent evening of entertainment; and if this performance was any gauge, I would most heartily recommend that should you have the opportunity to see a performance of the State Repertory Group, you take advantage of it. You will not regret it.

—First soccer game of the season is this Sunday. The L.A. Wolves are the current world champions (would you believe United States?), and thanks to Jack Kent Cooke's relations with Coliseum Commission, they play their games in the Rose Bowl.

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# CALTECH THIRD-TERM CALENDAR 1968

Sponsored by Beckman Auditorium -- Prepared by ASCIT

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>Legend: A—Athenaeum B—Beckman C—Culbertson D—Dabney</p>				<b>APRIL 4</b>	<p><b>5</b> YMCA Olive Walk Talk: Sen. Eugene McCarthy 10:00 A.M.</p> <p>ASCIT-Fleming "Party-Party" ASCIT Members with dates only 8:30—C—Free</p>	<p><b>6</b> Pianist Misha Dichter 8:30—B—5-4-3-1*</p>
<b>7</b> Coleman Concert: "Guarneri Quartet" 3:30—B—4-3-2-1*	<b>8</b> Lecture: E. A. Bayne, "America and the Israeli Predicament," 8:30—B—Free	<b>9</b> YMCA Luncheon: E. A. Bayne, A.U.F.S.  Silent film: "Steamboat Bill, Jr." 8:30—B—1.50-.50*	<b>10</b> YMCA: Mexican-American Program All day	<b>11</b>	<b>12</b> <b>Add Day</b> <b>YMCA</b> Film, Cinema-Tech: "La Strada" by Fellini 8—C—1	<b>13</b> <b>PME</b> Interhouse Sing 8:30—B—Free
<b>14</b>	<b>15</b> Start of one-week YMCA Program: Visiting VietNam Veterans on campus  Lecture: Dr. Peter Goldreich, "Spin-orbit coupling in the Solar System" 8:30—B—Free	<b>16</b>	<b>17</b> Lecture: Gene Shoemaker; "Moon Through Surveyor's Eyes." 12:30—A  Lecture: Jules Moch 8:15—D—Free	<b>18</b>	<b>19</b> Classical Guitarist: Alirio Diaz 8:30—B—5-4-3-1*  Film, Cinema-Tech: "Scorpio Rising," others 8—C—1	<b>20</b> Caltech Band Concert 8:30—B—Free
<b>21</b> <b>M</b>  Coleman Audition Winners Concert 3:30—B—Free  Goldman-Brown Sonata Duo 8:15—D—Free	<b>22</b> <b>I</b>  Lecture: Dr. James J. Morgan, "Particles, Polymers, and pol- lutions: New Approaches to Water Purification" 8:30—B—Free	<b>23</b> <b>D</b>	<b>24</b> <b>T</b>  YMCA Olive Walk Talk: Cal. Sen. Anthony Beilenson 11:00  YMCA Luncheon: Cal. Sen. Anthony Beilenson 12:00—A	<b>25</b> <b>E</b>	<b>26</b> <b>R</b>  The Electronic Rock Band: THE UNITED STATES OF AMERICA 8:30—B—2.50-1*	<b>27</b> <b>M</b>  Film, Cinema-Tech: Cocteau's "Orpheus" 8—C—1
<b>28</b>  Cantorial Concert: "Song of Songs" 8:00—B—3-1.95*	<b>29</b>  Lecture: Dr. Richard E. Dickerson, "Darwin and the Molecule," 8:30—B—Free	<b>30</b>  Exhibition of Contemporary Sculpture in Dabney Garden, until May 6 Free	<b>MAY 1</b>	<b>2</b>  "Barber of Seville," 8:30—B—5-4-3	<b>3</b> <b>Drop Day</b> Caltech Glee Club Concert 8:30—B—1.75-1*	<b>4</b> Caltech Glee Club Concert 8:30—B—1.75-1*
<b>5</b>  Pacific Woodwind 8:15—D—Free  Film, Cinema-Tech: "Alexander Nevsky" & "Potemkin." 8—C—1	<b>6</b>  Lecture: Dr. A. J. Haagen-Smit "Airs from Heaven or Blasts from Hell." 8:30—B—Free	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b> <b>LOST</b>	<b>11</b> <b>WEEK-</b>
<b>12</b> <b>END</b>	<b>13</b>  Lecture: Dr. Don Anderson "Seismology and the Struc- ture of the Earth's Inter- ior." 8:30—B—Free	<b>14</b>	<b>15</b>	<b>16</b> <b>YMCA</b>	<b>17</b> <b>Sensitivity</b>  ASCIT Musical, "The Castle" 8:30—B—3-2*  Film, Cinema-Tech: "World of Apu" 8—C—1	<b>18</b> <b>Confer-</b>  ASCIT Musical, "The Castle" 8:30—B—3-2*
<b>19</b> <b>ence</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>  Coleman Concert: Stery Istomin-Rose	<b>24</b>  Film, Cinema-Tech: Free show, to be announced 8—C—1	<b>25</b> <b>Senior</b>
<b>26</b> <b>F</b>	<b>27</b> <b>I</b>	<b>28</b> <b>N</b>	<b>29</b> <b>A</b>	<b>30</b> <b>L</b> Memorial Day Holiday	<b>31</b> <b>S</b>	<b>JUNE 1</b>
<b>2</b> <b>F</b>	<b>3</b> <b>I</b>	<b>4</b> <b>N</b>	<b>5</b> <b>A</b>	<b>6</b> <b>L</b>	<b>7</b> <b>Commencement</b>	<b>8</b> <b>S</b>