# Physics (?), Biology expand

# he California Tecl

Volume LVIII

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Number 24

# High-volt generators

Construction planned a possibility for Tech Church-Kerckhoff annex

There is a strong possibility that Caltech will get two new high-voltage Van de Graaf generators, a highly reliable source revealed recently.

The information was not verified officially by departmental heads, who were non-committal, revealing only that something

is in the offing.

The present difficulty is of a financial nature. One proposal presented to the Atomic Energy Commission has been turned down for this reason. A new proposal is now being consid-

The physics department, it is rumored, is asking for a ten million volt generator for high energy research. The second generator, a two million volt one, is being asked for by the mechanical engineering depart-ment for metals testing pur-

The institute now has a small Van de Graaf generator in the high-volts building. It is speculated-that the two new machines also be housed in this building.

### Cadets set annual ball

Tomorrow night, Friday, April 26, the Southern California AFROTC cadet corps will have their first annual joint Military

Caltech, Loyola, Oxy, UCLA, and USC are combining their efforts into one big affair this



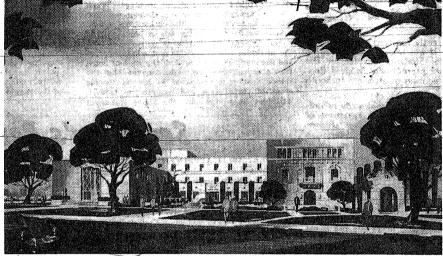
Queen Ziva Ro-Dann

The Ball Room of the Beverly Hilton is the place and 9 p.m. the time. Johnny Grant, KMPC disc jockey, will be Master of Ceremonies for the evening. Ceremonies for the evening.

Music will be provided by Karl

Jaeger and his band.

The Byron Jackson Division of Borg-Warner Corporation, Douglas Aircraft Company, G. M. Giannini and Company, Inc., Hycon Manufacturing Co., International Business Machines Corporation, and Ramo-Wooldridge Corporation, and Wiancko En-gineering Company will be spon-sors. Even with this financial aid the cost of the dance is such that hids are \$3.00 per couple.



Architect's drawing of proposed addition between Church and Kerckhoff for Biology dept.

Cuba

# Model U. N. reps return

Caltech's five-man Cuban delegation to the model U. N. re-turned this week after a fourday session at Stanford Univer-

Cuba's representatives were: Don Meyer, delegation head; Ike Haissman, who served on the Security Council, and Howard Bloomberg, Walt Peterson, and Mike Talcott, who served on three standing committees of the general assembly.

Meetings attended by the delegates were three General Assembly sessions, one extraordinary meeting of the Assembly dealing with the internationalization of waterways, and various committees and council meetings.

The Cuban delegates met with some success, as three proposals went through under the authorship of Haissman and two went through Talcott's committee.

# 1920 campus plan added to; major construction revealed

#### Announcements

CAP AND GOWNS

Those seniors who have not yet given their height and hat size for the cap and gown graduation can still do so by leaving this information plus their name in the X box in Ricketts or Lower Throop. The extension of the time limit is for the beenefit of those who were on the econ-

FROSH OPTION MEETING

There will be an option meeting for freshmen on Monday, April 29, at 4:00 in Room 22, Gates. Profs. Langmuir and McCann will discuss various aspects of a career in Electrical Engineering. Following this general meeting, students who wish to do so may arrange individual con-ferences with Profs. Langmuir and McCann.

# Class dances set for May 4; sophs to pay for Mudeo loss

FROSH-SOPH DANCE Earl Williams's dance band will play for the Freshman Sophomore Dance to be held Saturday, May 4, from 9 to 12 p.m. in Dabney Hall.

will soon be available from freshman and sophomore class officers. Refreshments will be served at the dance.

John Kelley of Blacker is in charge of decorations and will welcome the assistance of any interested persons.

The sophomores will do penance for having lost the Mudeo by paying for the dance.

JR.-SR. PROM

Bids to the Junior-Senior Dinner Prom, priced at \$5.00 each, are now on sale and may be bought from the house social

chairmen or at the bookstore.

Bids must be bought in advance since they will not be sold at the door. The event will be held at the Hollywood Roosevelt Hotel in Hollywood and dinner will be served at eight. This will be followed by piano music and dancing to the music of Carol Wax's band, which will have a vocalist. The dancing will be from 9:30 to 1:00.

A ten-man faculty committee, created in November of the academic year, has for six months been quietly studying problems making recommendations that, it is conjectured, will affect thousands of Techmen in the next twenty or thirty years.

The Committee for Campus Planning, headed by Dr. Joseph Koepfli, and including such men as the nationally famous indus-trial designer Henry Dreyfuss, was formed as a means of studying the myriad of pressing problems, both present and future, that the Institute must face in its program of expansion

Although naturally reluctant to discuss in detail the many specific problems it has dealt with since its appointment by Institute President Dr. Lee A. DuBridge, it is unofficially assumed that the committee has provided in its long range plans for an expansion of the campus to include the area north of San

The reasons for the commit-tee's reluctance to discuss spe-cific plans is obvious; it was cific plans is obvious; it created in a purely advisory capacity—it has only the power to recommend, and all final decisions will rest with Dr. Du-Bridge after his return from the Orient, which, incidentally, is scheduled for today.

The final plan adopted by Dr. DuBridge will add to the original Goodhue Associates Plan, circa 1920, which included provisions for most of the present buildings on campus and some few still to be built or under construction

The immediate or nearly im mediate building activity

be the following major additions (Continued on page 6)

#### \$477,000 given on matching basis

Construction of a new laboratory for biological research is planned to link the existing Norman W. Church biology lab and

the Kerckhoff Biological Lab.
The United States Public Health Service has made a grant on a matching basis of \$477,000 to pay 42% of the cost of constructing the new building and equipping it. Part of the grant has been made available to complete the chemistry wing of the Church Laboratory and to provide general services for the laboratories. The Institute has already provided \$85,000 for the program, and work to complete Church has started.

The new laboratory, construction of which depends on the Institute's finding the matching money, will provide more space for the expanding research programs under way in the division biology in chemical genetics and biochemistry, immunology, psychobiology, biophysics, ani-mal virology, and nucleuc acids. The new laboratory will link Kerckhoff and Church at all floors, and will be 90 feet long and 52 feet wide, with a basement, sub-basement, and three floors above ground.

### Directors appoint campus officers

Last Monday the Board of Directors unanimously (there were no contested offices) appointed the following: Reed Saunders, election committee chairman; Brad Efron and Dave chairman, Brad Efron and Dave Nissen, co-editors of the Little T; Tim Harrington, Instituters president; Don Nierlich, Walt Petersen, and Stan Baker as a group to edit the summer sup-plement of the Big T.

### Tech engineers enter reports

Student members of the ASME from Caltech who attend this year's conference, to be held at the University of Nevada in Reno Friday and Saturday, will have a chance to win up to \$50.00 cash for presenting the best technical paper of the many expected to be presented.

Free transportation to and on Reno and a relaxed type of informal gathering are the main features of this year's regional-conference.

#### SCOREBOARD SWIMMING

Pomona-Claremont 49, Caltech

Pomona-Claremont 55, Caltech 27 (Frosh) COLF

Pomona-Claremont 30, Caltech

University of Arizona 43, Cal-

### California Tech

Editor-in-chief — Bob Walsh
Editorial Board: Jim Coe, Steve Emanuel, John Lango, Dave Leeson, Mike Milder, Jim Wilkinson.

Wilkinson.
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Editorial

# U.S. collegians lack interest in global problems

A recent article in the Notre Dame **Scholastic** takes issue with the modern American college student. The author points to the European student's intense interest in current affairs in contrast with the American collegian's narrow outlook.

"The students are the lifeblood of Europe; they present the new ideas. Here we do not make demonstrations. We do not even talk."

As if in example, the Tech recently received another of its "letters with the funny stamps." It was from the Coordinating Secretariat of National Unions of Students (mailed in The Netherlands), announcing both an International Student Conference and the dispatch of a delegation of students to South

"The delegation expects to observe the present state of university autonomy in each South American country, structures of student organizations and their contacts with other student groups both inside and outside South America. The delegation also hopes to examine possibilities for expanding student travel opportunities and bring South American students into interna-tional student relief programmes as operated by World Uni-versity Service "

The United States is not without its union of students, but our National Students Association (NSA), although an active organization, operates without the support of the vast majority of college men and women. Few are the students who realize that there exists such an organization, and fewer still are those who are our of its activities. who are aware of its activities.

Somehow college seems to make the European student more intensely aware of life around him, such that he develops a personal interest in all world affairs. But the American small college acts as a buffer against the "outside world," and its young men and women live in an unreal, idealistic environment.

It is fortunate that America's domestic problems are few, but those who bury their heads in the face of the present international situation may well be committing suicide.

We do not need to stage a bi-monthly revolution, nor should our May Day demonstration become an annual affair, but stu-dents should certainly be sufficiently interested and sufficiently informed that current events can be a common topic in bull sessions and at meals. Politics has not become such a specialized field that there is no place for the vigor and spontaneity of youth.

These considerations have prompted the Tech to begin organization of some new departments. We will attempt to present a comprehensive review of the week's world news in every issue. Bob Blandford will soon begin a regular column designed to tease our thoughts into new lines. The Tech will also try to keep up-to-date on the activities of NSA and other organizations related to colleges and students.

Of more value would be an expansion of Caltech's participation in NSA. The western region of NSA has been relatively inactive and Caltech has not even sent representatives to the more recent meetings.

But most important of all is the dearth of "outside world" ntacts. This is the fault of the administration—they will not listen to repeated pleas for a review of the present, inade-quate humanities program. It is also the fault of the students— they will not take the time to participate in this type of activity on an extracurricular level.

And it is the fault of the California Tech—we have not brought the issue to a head. But we will.

Editorial

# lech phones removed

We quote from the Rensselaer Polytechnic, March 20, 1957:

"Local Troy Area Telephone Company manager, Mr. Richard Killeen, announced Monday the reason for his removal of the eighteen coin-box telephones on campus. According to Killeen, the situation of students' tampering with coin boxes reached a climax on the night of March 10, when eighteen of twenty main trunks in the Troy office were disabled, and had an emergency occurred it might have been impossible for help to be obtained via telephone.

"Grand Marshal Dave Murphy, in commenting on the action said: 'I don't believe that there is any doubt in anyone's mind about the Telephone Company's being justified in removing the phones. It is unfortunate that all dorm residents have to suffer for the actions of a few.'"

Maybe we've been lucky

# Vice President's Message

One need only to sit in for a couple of hours on the typical Tech bull session to realize that the character of the Tech student is in a state of constant flux. A great number of good and bad concepts are presented to the student to be kicked around by him. Four years is the usual length of time alloted for the individual to become well-rounded, a term which includes maturity, responsibility, social finesse, honesty, as well as almost any other abstraction one might care to list. Failing to acquire a fair degree of mature character places the new feb degree of mature character places the new job holder at a serious disadvantage in his chosen field of endeavor. To the scientist or engineer no aspect of character is more important than that of honesty for no trait is more demanded of men in these professions by society. In addition the honesty of the individual with himself is an indispensable part of final maturity.

It might be well to reiterate the fact that honesty is not a part time job. It is a character trait acquired slowly and only with realization of the ethical considerations involved. offers as fine an opportunity to develop personal honesty as any college in the nation. We possess a twenty-four hour a day lab in honesty—The Honor System—which reflects with credit both the attitudes of the faculty and administration and the maturity and ability of the student body. In a practical sense we might conclude that the Honor System is restricted to several specific areas of jurisdiction and extends no farther. Attitudes in accord with the above statement

violate in large part the spirit of the Honor System which is to be the fundamental code of behavior for all Tech students in all activities on and off campus. The question "Does the behavior for all rests students in an activities on and off campus. The question "Does the Honor System cover it?" is a meaningless one. If it is a question of ethics, the answer must almost invariably be in the affirmative although the individual concerned may not be subject to prosecution by the Board of Control. The person who obeys only the letter of the Honor System, disregarding the spirit, has failed to either grasp the significance of the Honor, System or to develop in himself a proper ability at selfdiscipline.

Our Honor System can continue to be successful only if the student body desires its jurisdiction and respects its decisions. This requires merely on the part of each student desiring to be treated as an adult the realization that he will be regarded as such only if he behaves as a responsible member of the student society. Such behavior precludes either the Honor System evolving into a faculty rubber stamp or a student sacred cow. Only on the realization that the Honor System is not basically a regulative and punitive code, but a way of thinking that must ultimately affect the behavior does the full significance of this system become clear. No student is so sophisticated that he cannot profit by an occasional look "indoors" to see if he really understands and practices the meaning of the Honor System.

Gene Cordes

# Secretary's Report

#### ASCIT APPOINTMENTS

The following presented themselves as candidates for ASCIT appointive offices: Reed Saunders, election committee chairman; the team of Brad Efron and Dave Nissen, co-editors of the Little T; Tim Harrington, Instituters president; Don Nierlich, Walt Petersen, and Stan Baker as a group to edit the summer supplement to the

As there were no contested offices, the Board appointed each of the above unanimously.

#### EDUCATIONAL POLICIES

Jerry Swedlow gave a preliminary report of his subcommittee on educational policies. The subcommittee is planning to work toward an overall report on the philosophy of education at Caltech and curriculum revisions which will implement the effective persual of this philosophy. The subcommittee plans to work in close contact with the student body. The complete report by this subcommittee should be very important in improving the efficiency of our curriculum.

#### OPEN FORUM

Don Pinkerton stated that the Open Forum subcommittee was working on lists of possible speakers. At this point they needed the assurance that ASCIT would pay reasonable traveling expenses for speakers who they may invite. It was finally realized that on the appropriation of money rested the whole future of the Open Forum program. The Board unanimously passed the motion that money would be authorized at the same time the speakers are approved by the

Every speaker on the Open Forum program must be approved by the Board before his appearance in order to protect the student body.

#### BIG T ASSESSMENT

Nierlich immediately threw the whole issue into hopeless confusion by stating that we may have \$850 more dollars than we expected for the ensuing year. The layman's mind cannot conceive of the havoc this may cause. This issue will be rediscussed when the final, disastrous outcome of the audit is made clear. The audit should be finished by next Monday.

#### MONEY

Though this may seem an incredible admission of failure in these days of big spending, the Board would be undyingly grateful to anyone who can suggest a good constructive endeavor into which we can channel the financial resources which continue to be heaped upon us.

The latest report from Don Nierlich revealed the crushing fact that we may well have an \$850 surplus from last year's California Tech. The Board will struggle for one more week in the attempt to find a proper home for this Albatrosslike surplus.

It was noted in passing that Brad Efron had neglected certain particulars of his job. Some members of the Board were particularly incensed by the fact that Efron's name did not at all times appear at the bottom of the list. A careful brainwashing of Efron will surely clear up the situation, however.

Michael Godfrey ASCIT Secretary

# CARL'S CALTECH BARBERS

906 E. California

SYcamore 3-2554

#### COLORADO

Wait Disney's "CINDERELLA"

"Friendly Persuasion"

#### **UPTOWN**

"ANASTASIA"

"BUNDLE OF JOY"

#### **UNITED ARTISTS**

ANTHONY PERKINS

"FEAR STRIKES OUT"

# STATE SY. 2-7136 RY. 1-0385

"WEE GEORDIE" "THE GREAT MAN"

#### **AERONAUTICAL ENGINEERS** MECHANICAL ENGINEERS ELECTRICAL ENGINEERS

(Electronics majors)

Find out about the advantages California Aircraft offers you!

SEE REX FINNEY of

### RYAN

Aeronautical Company San Diego, California

ON CAMPUS TUESDAY, APRIL 30th

RYAN, San Diego's pioneer Aircraft Company, builder of Lindbergh's "Spirit of St. Louis" is now developing these important aviation firsts:

#### Vertiplane

Jet Powered VTO

Self-Contained Automatic Navigator

Jet Drone Target/Missile

Supersonic Missile Guidance Systems

You'll be glad you checked the advantages offered at growing, progressive RYAN. Information and application forms are available now at your placement office. Make the most of your future — with RYAN!

### Campus Brewins

Beak has been betrayed

The Beak swaggered down to the Tech office, late as per usual. "Copy's all written, Dad" said Milder. Beak." "Breaking in a new

"Let's see," said Beak, sus picion in his voice. "What's this 'Fleming sent two men to do a boy's job' bit? What's this 'very' poor taste on the part of Mr. Kloke' thing? Heresy! Heresy!'

"No," smiled Milder. "Revenge." Anyway, here's the expurgated version of what happened in Ricketts House this

#### Opportunity knocks Pierre

The following attracted the attention of that alert frosh,
"Lucky" Pierre: "CAN YOU USE SOME EXTRA MONEY? Capable and intelligent woman can easily earn substantial income in spare time. We are appointing exclusive representative for unusual, very useful and inexpenusual, very useful and inexpensive item every home should have . . not sold in local stores . . splendid opportunity . . . no investment required . . be your own boss. Write for details, mention your qualifications P.O. BOX 936, BEVERLY HILLS, CALIF." That? . . . door.tdoor? door-to-door?

#### Cherry loses signs

David "The Chief" Groce and his boys mounted their second Cherry Lane sign of the term. Twelve hours later, with two members of Cherry Lane study-ing in their rooms, the Men of Clod Alley skillfully and swiftly removed the offensive sign, that had been said to be "impossible to remove.

#### Calloway abandons sheep

Calloway, erstwhile Throop Club social chairman, arrived at the Throop Dinner Dance at Switzer's Camp with his date,

#### Pjerry fumbles through

It is a rare opportunity for the Bill to boast of the social prowess of his adopted nest, Caltech. However, here are the facts. At Blacker's off campus party this imported stuff, a dyed in the wool playboy from the University of Colorado, was with a real curvaceous babe. In walked our Hero, dyed in the wool physicist Jerry Pjerrou to wool physicist Jerry Pjerrou to intervene and suavely wipe out the U. of Colorado man. Your bill was flabbergasted\_at\_this progress and later asked Jer how it all happened. This David among Goliaths replied. "I just acted sorta natural, heh."

#### Farcey visits Boormans

Gallantry, medal of the week must go to Al Farley, whose noble action at the party was indeed gallant. His date had been weaned on champagne and been weaned on champagne and frozen daquaris. Since no cham-pagne was readily available at a reasonable price, he responded to the call of duty and rushed to the nearest lime orchard and brought back fresh limes for the fair maiden's drink.

#### Stern loses marbles

Don Stern, at Blacker's Casino Party was rolling in it, with pile of twelve thousand. He asked Defeyes how much he had, and Bob replied, "Fourteen, thinking Don meant how many drinks. Stern proceeded to bet like mad and inevitably lost all his mar-bles in the TS story of the week. Defeyes won the bottle of champagne, and Stern copped the booby prize.

#### Deleted from other articles Dept.

"A new feature of the Run this year was the addition of duplicate cars, driven by women. duplicate cars, driven by women. The majority of the women were professional . . . and the Techmen riding with them had the highest praise for their abilities."



Dee Walker

### DOUBLED AND REDOUBLED

by Gary Breitbard

North-South vulnerable

-A K J 9 3-2 H-Q 10 8 D-Void C-K 10 9 8

West -10 7 6 4 -A J 9 -Q 10 9 8 5 East (dealer) \_K 4

South H-7 6 5 3 2

The bidding:	East	South	West	North,
	1 C	Pass	1 D	18
	-3-D	Pass	3 H	Pass
	4 C	Pass	4 D	Pass
	5 D	Pass	Pass	Pass

This is another of the hands which appeared in the recent National Intercollegiate Bridge Tournament. I don't know if this bidding sequence actually occurred, for it is the one which is "suggested" by the tournament committee as being reasonable. However, the final contract is certainly a sound one and can be made "If declarer keeps his head."

In most cases North leads his top two spades, the second one being ruffed low on the board. Now West must carefully analyze the play of the hand. Should he come back to his hand with the ace of hearts and then try the diamond finesse? Should he attempt to set up clubs? In this case it would be mandatory to pull trumps.

The experienced player notices that if clubs split 3.3 it will be possible to develop the suit; but if anything worse than this split occurs, there will be too much difficulty in communicating with the dummy and pulling trumps. Even without this foresight, Joe Average-Player should see in this hand an ideal set-up for a

A cross-ruff is simply a line of play whereby the declarer utilizes his own and the dummy's trump suit for trumping out losers in both hands. In involves finding a void in each of the hands and trumping these suits back and forth. The cross-ruff can also be a rether ruther.

also be a rather murderous weapon in the hands of a skillful defense. In this case, after trumping the second spade lead on the board. the ace of clubs was led and a small club trumped in the hand. The board was re-entered with the king of hearts and another little club ruffed by the declarer. In this way he took advantage of all possibilities, that is he would have been immediately informed of a favorable club split.

Finding that this was not the case, he took his ace of hearts and trumped his remaining heart on the board. In cross-ruffing it is always important to take your high card winners immediately so that the opponents will not be able to slough these suits. If South, in this hand, is given the opportunity, he will slough his long hearts on spade and club leads, leaving West's heart honor exposed to a ruff.

After trumping his heart on the board, West led back a club which he again trumped in his hand. He then led a spade and made the crucial play of trumping with the ace. He must make sure that South does not over ruff with his king of diamonds, for a trump return would ruin the cross-ruff and leave West with a losing spade.

If he sees this play, the declarer has eliminated his distress, for no matter when South decides to take his king of trump they can get no more tricks. Of course West must continue his cross-ruff

can get no more tricks. Of course west must continue his cross-rul and never at any time lead trump.

You may wonder why South did not take his trump king at an earlier time on a club lead. But this cannot do him any good, for on the same play West can slough a little spade and he is then no longer afraid of a trump lead.

# **Charming lasses** delight reporter

by Mike Talcott

This week the California Tech introduces two of the most charming actresses ever to grace an ASCIT play. Entitled Dear Charles, the play this year is a hilarious comedy dealing with the tribulations and misgivings of three children who think they have but one father, and of Denise, their delightful, adven-Denise, their dengition, determined ture-loying mother. The truth and the three real fathers reveal themselves as the play uproariously develops.

The two lovely ladies are Penny Poole and Dee Walker.

Penny who plays the part of Martine, one of the three crazy, mixed-up children, describes her self as pertrified and enchanted with the play, the director, and Caltech. She is an exceptionally talented and imaginative Westridge student who is an assistant editor of the paper and is interested in drama and debate.

In the play Penny's father is the great Polish, piano playing, philanderer Jan Letzaretsko

played so ably by great philan-derer John Conover. John de-scribes his daughter Martine as, "The prettlest of his seex no, five daughters. We wholeheart edly agree.

Dee Walker is perhaps the most spectacular, statuesque blonde ever cast in the part of an eccentric old maid. Dee, whose lovely face is quite familiar around the campus, is Martha, the maid who feels that she must run the household and solve the crisis of three reap-pearing fathers. Dee when asked her opinion of Tech, replied, "It's a passing grade in chemistry." This tall beauty is quite outdoor ish, with her major interests including skiing, swimming, boating and such activities as relaxing in the hot springs after skiing with her bathing suit. Dee is a student at San Marino and is number one scholastically in her class; however, unfortunately, she is leaving this area for Stanford to major in "men."



-Photo by D. Groce

Penny Poole



#### The Barfly

by Kay Sugahara and Ed Shuster With summer coming on and

the large number of parties that can be expected, this week's column is devoted to a party punch

#### SPORTSMAN'S NECTAR

Juice of 15 lemons (15 oz.) Juice of 25 oranges (25 oz.) 2 quarts gin

5 jiggers grenadine

1 can pineapple juice (8 oz. frozen concentrate) 1 fifth vodka

20 mint leaves

Pour over large pieces of ice (or three trays of ice cubes). Add two large bottles of club soda. Mix together. Crush mint leaves into mixture. Decorate with fruit slices. This is sufficient for approximately 15.

This is a very versatile punch The ingredients can be varied slightly according to what's on hand. The lemons and oranges can be replaced by an equivalent amount of frozen juice.

This punch is very refreshing after coming in from a strenuous round of golf or an exhaust-ing tennis match. The citrus juices make it tart enough to quench your thirst while the pineapple sweetens it and adds an exciting flavor. The other ingredients give the punch that essential zip that is needed to make it a winner.

# The Bull Pen

by Fred Holtzman

Whenever I hear that a theologian, or a professional religionist of any kind is going to be on campus, I shudder. So few religious people, professional or not, are able to explain the ideas with any semblance of reason to critical minds.

In the past such visitors to our campus have tried to impose their poorly thought out ideas by uttering pretentious dogmas and throwing fits of praying. This approach does not go over well with Techmen. In fact, most Techmen are induced to spew out their own ill-conceived thoughts in the form of equally pretentious dogma. The bad sides of both are brought out. And, as a result, dogma. The bad sides of both are brought out. And, as a result, the pious souls depart thinking science to be a barren field, one for infidels, while we smugly sit back and compare religion with opium. No good is accomplished for either religion or science.

Happily such was not the case with the theologians who were here last week. Before I push my foot irretrievably down my throat, let me say I am referring to the one who stayed in Ricketts —a fellow by the name of Roger Wood. Roger is a man of medium size, thirtyish, with close-cropped and thinning hair, with very large and gentle eyes, and very friendly manner.

Most important of all, Roger came here willing and able to learn as well as teach. Techmen seem inherently mistrustful of any thought that does not proceed directly from the noteworthy fact that F doth equal ma. We seem afraid that the humanities snakes will try to put over some mystical concept on us. The fact is Techmen do not think much, and when we do think our thoughts are usually practical and easily demonstrable. We are significantly unwilling to let our imagination range in fields of knowledge outside our limited scientific experience. Consequently, when somebody gets up to express a religious or a philosophical idea, he is often met with caustic criticism and incredulity. Or at best he is apt to be met with a neurasthenic reaction from his audience.

Much of the trouble in the past has stemmed from the intoler ance of our religious guests as well as our own unwillingness to consider something that can not be readily substantiated. We do have some valid points, and when our points are not explained away or accepted, we do have some cause to be critical. That is why it is so necessary that we all, the preachers as well as the congregations, be willing to learn as well as teach.

I dare say many of us were surprised to find a theologian as open-minded, if not more so, than scientists. Probably nothing Roger said had a better effect than his admission to some honest doubts about the existence of God.

Fortunately too, Roger is a fairly intelligent person. To say the least, Techmen are just plain snobbish when it comes to con-sidering another person's intellectual capacities. Many of us find it difficult to respect somebody with an IQ less than 130. The acknowledgement of the existence of intelligent Christians was enough to make a much needed dent in resistant minds.

All in all the visit of Roger and the other theologians afforded this campus one of the healthiest experiences it has undergone in a long time. Not because any heathens were converted to Christianity or vice versa; I dare say the atheists are more devoutly atheists and the Christians are more devoutly Christians than they were before. The collision of Christianity with atheistic thought can convert, to one side or the other, only those who were not committed in the first place—which group, by the way, includes a majority of the people here.

Despite the attempts of St. Thomas Aquinas and his little friends, no one has proved the existence of God to the satisfaction of philosophers in general. And most Christians, certainly most Protestants, will admit the existence of God is a matter of faith if you push them far enough. And atheists must admit that their disbelief in God is a matter of faith also. After all when we speak of an almighty God we are speaking in terms of something we do not really understand and probably never will be able to understand. How then can a belief or an absolute disbelief in an almighty God be more than a matter of faith? You might be able to demonstrate the usefulness or lack of usefulness of the concept, but that is all.

As I said before, the value of the theologians visit did not lie in the number of conversions that were made from one side to the other. It lay in the fact that several scientists and religionists were able to see each other as honest and sincere people with the same goal in mind—an understanding of the essential nature of the world in which we live.

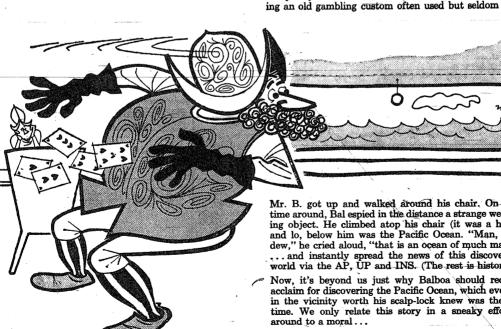


You can find most anything if you know where to look

A long time ago there was a grade A explorer named V. N. Balboa. Like a pogo stick with a hot foot, he hopped from place to place, discovering this and that.

One day, paging through an old copy of the National Geo-graphic, he became intrigued with the idea of discovering the Pacific Ocean. He set sail for Laguna Beach and landed one night in Panama (his navigator was left-handed and a little heavy on the stick).

Next morning our hero found himself out at the inn . . . and out plenty. He was in a heavy-stakes poker game. Employ-ing an old gambling custom often used but seldom effective,



Mr. B. got up and walked around his chair. On the third time around, Bal espied in the distance a strange wet undulating object. He climbed atop his chair (it was a high chair) and lo, below him was the Pacific Ocean. "Man, that ain't dew," he cried aloud, "that is an ocean of much magnitude!" ... and instantly spread the news of this discovery to the world via the AP, UP and INS. (The rest is history.)

Now, it's beyond us just why Balboa should receive such acclaim for discovering the Pacific Ocean, which every Indian in the vicinity worth his scalp-lock knew was there all the time. We only relate this story in a sneaky effort to get

MORAL: When you discover Budweiser, you'll discover that Budweiser

is to beer as the Pacific is to oceans . . . the most!

Sudweiser anheuser busch, inc. - st. louis - newark - los angeles

### Tech mermen lose to Sagehens; conference chances are dead

Caltech's swimming team was forced to accept third place in the conference as they dropped another big one to Pomona-Claremont Friday, 49-37.

Record breaking performances by Rees and the medley relay team were not enough to counter the depth of Pomona's enthusiastic sophomores. Pomona took at least a second in every individual event; and their one-two finishes in backstroke and butterfly finished Record breaking p off the Beaver swimmers.

Frosh swimmers

swamped by P-C

Friday, 58-28.

were lost.

Caltech's frosh swimmer

went down to defeat at the hands of the league-leading Po-

mona-Claremont Sagechix last

Pete Rony picked up Tech's only first in diving and Bill Mc-Lennan came in second. Bob

Thompson swam his fastest race

in the 220 butterfly, but still lost by sixteen seconds. Wally Stolz

by sixteen seconds. Wally 50012 won second in the 200 back-stroke. Dave Tucker took seconds in the 220 and 440 free-style. Phil Brooks edged out

Don Voet for second in the 200

Things looked promising at the beginning of the meet as the Tech medley relay team of Smoak, Owings, Blandford, and Brown set a new school record 4:15.3. Clarke Rees followed with a new school and conference record in the 220 yard free His time was 2:17.4. From then the Beavers steadily lost ground, though the meet was still in doubt at the final relay.

The team travels to WSC Friday and hosts Long Beach State the following Thursday.

Results of the meet were: 400 yd. medley relay—Smoak, Owings, Blandford, Brown (C), 4:15.3. 200 yd. freestyle—Rees (C), 2:17.4, Booth (P), Mills (P). 50 yd. freestyle—Brown (C), :25.2, Greenberg (P), Huemer (P), 200 yd. butterfly—Lynn (P), 2:31.7, White (P), Blandford (C). Diving—Brown (C), Ford (P), Pjerrou (C). 100 yd. freestyle—Rees (C), :55.0, Green berg (P), Huemer (P), 200 yd. backstroke—Wain (P), 2:30.0, Mills (P), Smoak (C), 400 yd. freestyle—Booth (P), 5:24.1. Velinty (C), Mills (P). 200 yd. breast stroke—Lynn (P) 2:31.1, Owings (C), Martin (C). 400 yd. free style relay — Lockabey, White, Greenberg, Huemer (P),

# Ricketts routs Fleming, 19-6; race near end

Last Monday, the Discobolus race was essentially finished for the season as the men of Ricketts successfully challenged Fleming in football, 19-6, giving them thirteen points for Fleming's eleven.

This means that during rotation next term, the Discobolus trophy probably will rest in Ricketts' lounge.

The Rowdies got off to a slow start, not scoring until the last minute of the first half. By that time Vic Johnson had already passed to Glenn Converse Fleming's only score. The Kloke-men moved up the field by using one general play, a double pass from Johnson to Converse back to Johnson. A pass interference penalty put Fleming on the one, and on the next play they pushed the ball over for the score.

With less than two minutes to go, quarterback Jim Mebust began connecting with his right end, John Price. From mid-field, Mebust hit Price twice in succession. Price scored on the second catch, tying up the score at the half, 6-6.

In the third quarter, Art Ta kido broke loose on a long run and was finally tagged by Con-verse on the five. Two plays later, the Mebust to Price combination clicked again and the score was 12-6, Ricketts.

The final score came late in the fourth quarter after a disputed pass from Mebust to Takido put the ball on the twenty. On the next play, Me-bust tossed to Frank Childs in the left hand corner for the score. Ricketts made the conversion and the game ended with the Rowdies ahead, 19-6.

### Interhouse Sports

The interhouse football season ended last week as Fleming walked away with the honors, leaving Ricketts, Dabney, and Blacker in the next three posi-

On Monday, Converse's and Johnson's long passes wrecked Dabney for Fleming, 36-6. The Big Red rolled for three touch-down in each half before Dabney could make its lone score late in the game.

The Dabney-Blacker encounter proved the thriller of the campaign. Dabney rebounded from a twelve point deficit to edge the blueshirts 13-12. A Leonard to Magdeleno extra point pass in the last quarter proved to be the necessary mar-Fleming tied Ricketts 0-0 on Friday to gain the title.

The second secon	
INTERHOUSE	
Fleming	97
Dabney	
Blacker	85 1/2
Ricketts	681/2
Throop	50¾
DISCOBOLUS	
Dickette	13

Fleming



Shown above is Tech's sophomore high jumper, Larry Kraus. Kraus is fairly consistent at six feet.

# Beavers clash with Pomona for second place in SCI

Bert LaBrucherie's track team has a good chance to take second place in the SCIAC, depending on this Saturday's meet with Pomona-Claremont at Paddock Field.

Both Tech and Pomona have one win and one loss aplece. This meet will be the last dual meet of the season and will decide the final standings. Strangely enough, Oxy cannot win the championship this year as they have not met any league opponents.

The Sagehens have an edge in the track events, especially in the longer races. Brain Shannon and Hermans are both consistent point getters in the mile and two-mile. Shannon, however, might be in the quarter-mile since Hermans can get under 4:30 in the mile.

The field events, except for the

high jump and shot put, could go either way. Pomona has three high jumpers over 6 ft. 2 in., and a sophomore who can put the shot 48 ft. Otherwise, the Sagehens' best marks are pretty much the same as Tech's.

#### CALENDAR

Thursday, April 25

TENNIS University of Ari zona at Caltech, 2:30 Friday April 26

GOLF Southern California Tournament at Paim Springs, 9:00 a.m.

SWIMMING Caltech at USC, 4:00 (Varsity and Frosh)

Saturday, April 27 TRACK Pomona-Claremont, at Caltech, 1:30 (V. & F.) BASEBALL Caltech at Pomona-Claremont, 2:15

BASEBALL Pomona-Clare-tmon at Caltech, 2:15 (Frosh)

# Tech triumphs; beats Broncos

A ten hit barrage off the bats of Caltech's ball club frustrated the Broncos from Cal Poly on Tuesday of last week.

The Beavers won in 7 innings Howell and Nelson pitched, with Howell getting credit for the win. Cal Poly also collected 10 hits but was able to score only 2 runs as pitching tightened up in the chitch and the Beavers made only one error. The Bron-cos committed four errors. Ed Nelson hit safely three times, while Howell and Newman each hit twice

The double header which had been scheduled in Whittier last Saturday was rained out. Games were to be played Tuesday against Cal-Baptist and Wednesday against Whittier, both on the Beaver home field. Pomona is scheduled to play here this Saturday.

> Beat Pomona



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## Mobilgas observers greeted by band in S. F.; run over

Petroleum with the sanction of

the USAC, which acts as the

governing body and certifies all

the competing cars as stock pro-

duction models. The cars are

entered by dealers and dealers'

associations in the Los Angeles

area both with and without fac-

tory backing. This year, as in

the past, all the entries were

four door hardtops or sedans and

were equipped with automatic

transmissions and accessories

found on at least 50% of the

models produced to date or

otherwise approved by the USIAC. The cars were broken

in under the surveillance of the

Caltech observers for 2000 miles

and then impounded for final

checks the week before the run.

competing car on the four-day

run, switching cars each day. The Techmen's duties were to

lights and safe driving practices were observed by the drivers

and to record all violations of

them.

Two observers rode in each

that all traffic laws, speed

WHAT'S A BEAUTY-PARLOR OPERATOR'S

Curl Girl

An all-girl Chinese band, playing cymbals, flutes, and many strange instruments, greeted 50 Caltech student observers in San Francisco last week after the first leg of the Annual Mobilgas Economy run.

Beginning at the Mobilgas garage in Los Angeles Sunday night, the cars reached San Francisco sometime Monday m ing. The first thing most of the Techmen did was to get some sleep-each day of the run started at midnight and reached its destination about noon. After this the main diversion for the observers was eating the most expensive meal available, on expense accounts, and touring the

#### To Winnemucea

From San Francisco the cars drove through Sacramento, -Taand Carson City to the sprawling metropolis of Winnemucca, Nevada, whose popula-tion of 4000 was swollen 10% by the Economy Run participants and officials.

Here the observers and officials played the slot machines, shot craps and walked to the park, the town's greatest attraction.

#### "Wish I were studying"

The next overnight stop was Ogden, Utah, where the cars were greeted by 15 contestants for the title of Miss Ogden and a brass band. These girls were so overwhelmed by the suntanned, bleary-eyed men from Tech that finally a party at the Hotel was promoted at which almost everyone drank cokes and danced except for one, who com-mented, "I wish I were back at Tech studying."

On Thursday morning the 23 competing cars pulled in front the Challenger Inn in Sun Valley, Idaho, and were greeted by a cheering crowd of General Petroleum executives, reporters and natives of the area. The majority of the Techmen were then flown immediately back to Los Angeles except for a lucky eleven who could not fit on the plane and stayed until Friday night. These men spent Thurs-day afternoon and Friday sleeping, attending a party and dinner-dance, riding the ski-lift in a snowstorm and swimming in one of the two heated pools at the lodge.

Each year the Mobilgas Economy Run is held by General

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# chosen as new Beavers

The Caltech Beavers met last Monday night at the home of Dr. Frederick Bohnenblust to elect 19 new members and the officers for the coming year.

Those selected for membership in the organization are Don Owings, Brad Efron, Gene Cordes, Tony Iorillo, Mike Godfrey, Clarke Rees, Don Stern, Dick Cooper, Mike Conrad, John Kielderer, Russ Pitzer, Bob Kleiderer, Russ Pitzer, Bob Walsh, Keith Brown, Bob Blandford, Bob Emmerling, Brent Banta, Andy Perga, Jim Weaver, and Tony Leonard.

The new Beaver president is Craig T. Elliott, who will be assisted by Dick Van Kirk, vice-president, Dave Leeson, treasurer, and Dave Gilson, secretary.

The Beavers, in addition to representing a high honor, is a relatively active service organ-ization, playing an especially large part in the planning and mechanics of Frosh Camp. Also commanding a large amount of Beaver attention is the annual Beaver Party, which is presently scheduled for June 1.

#### NEW CAMPUS PLANS (Continued from page 1)

to the campus (one of which may affect this year's freshmen and sophomores.):

A modern student union and new student houses, which will probably be constructed on the site of Temporary Buildings 1, 2, and 3. ~

A large general library, to be constructed between Bridge/and Crellin.

Another engineering building (Mechanical Engineering) will replace the campus coffee shop.

And a spacious new auditor-ium will be built near Culbert-

Probably the only major problem obstructing the expansion program, now that most others have been resolved by the faculty committee, is that of money, as soon as the necessary funds have been amassed, work will begin on the renovation of the Caltech campus.

The changes mentioned above are only those which will probably be made in the near future on campus; as has been mentioned, many more will come about with the acquisition of the areas off campus.

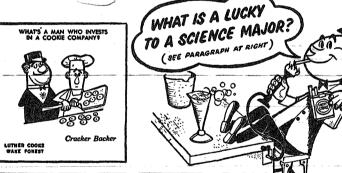
## China consul addresses air science

Dr. Mong-ping Lee, consulategeneral of the Republic of China, talked on "The Problems of the Far East" yesterday in rm. 206, Dabney Hall.

This talk was one of a series of four scheduled by Captain Leonard Zorne for his air science classes in world political geography. These talks are of such general interest that Captain Zorne has extended an invitation to anyone interested to attend the remaining three talks

The remaining talks are scheduled as follows: On Wednesday, May \_8, at 3:00 p.m., Colonel Nathanel Lorch, consul-general of Israel, will speak on "Israel's Problem in the Middle East." On Thursday, May 9, at 11:00 a.m. Dr. Heinrick Loewe, consulgeneral of Germany, will give his views concerning "The a.m. Dr. Heinrick Loewe, consulgeneral of Germany, will give his views concerning "The Problem of Germany and the Cold War." On Wednesday, May 15, at 3:00 p.m. Mr. Romain Gary, consulgeneral of France, will discuss "French Economic and Social Questions."



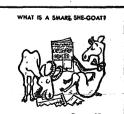


Flimsy Whimsy

LAB STUDENTS (and most folks with a flair for the scientific) know that one Lucky is an Ample Sample—conclusive evidence that Luckies are the finest smoking anywhere! Check this yourself. Try a couple—or a carton. You'll find that every Lucky tastes as good as the first one. You see, every Lucky is made of fine tobacco . . . mild, goodtasting tobacco that's TOASTED to taste even better. Light up a Lucky right now. You'll agree Luckies are the best-tasting cigarette you ever smoked!

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