

What is purple  
and under 18?

# California Tech

Associated Students of the California Institute of Technology

Statutory  
Grape

Volume LXV.

Pasadena, California, Thursday, April 2, 1964

No. 22

## DuBridge To Give History

"The Story of the Caltech Idea" will be the subject of an address to be given by Institute President Lee A. DuBridge during assembly hour next Wednesday in Beckman. The talk will be accompanied by pictures, some of them taken as long ago as 1892 and dug out of the Archives expressly for this occasion, never before having been seen publicly.

"This will be the first time we've brought together a pictorial summary of the past," says DuBridge. However, the presentation will not be, in the words of Charles Newton, Director of Development and Assistant to the President, "just a superficial history of buildings and faculty." Instead, DuBridge says that he will attempt to trace "the background, development, present status, and future of Caltech."

This will be the first time, outside of Commencement exercises, that DuBridge has had an opportunity to speak specifically to the undergraduate student body. Apparently, there is no reason for this exclusion, except that he has never been asked before. He comments, "I would like to have the opportunity to address the student body once a year."

## Agnes Moorehead Entertains At Pi Kappa Delta Banquet

BY STEVE MORSE

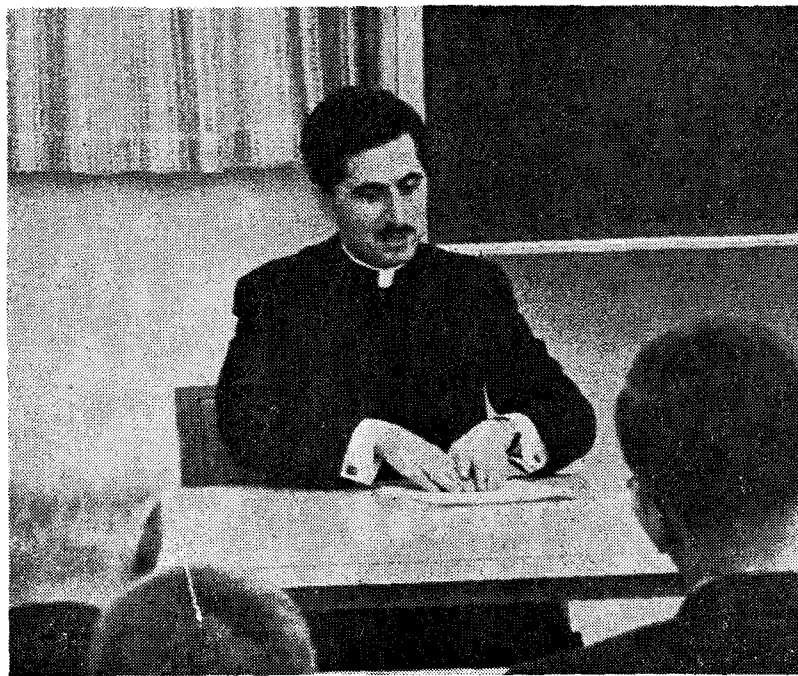
Miss Agnes Moorehead, celebrated radio, television, screen, stage, and concert artist, entertained 150 delegates at the forensic fraternity the Pi Kappa Delta's biennial banquet, held in the Athenaeum dining hall Friday evening. Her audience was held spellbound as Miss Moorehead performed excerpts from her current concert tour, "Come Closer, I'll Give You An Earful." Selections included the Devil's speech from *Don Juan in Hell* by Shaw, Robert Frost's "Stopping by Woods on a Snowy Evening," and "Nancy Hanks" by

## Tech Fourth In Putnam Exam

Caltech beat out MIT to place fourth in the national William Lowell Putnam Mathematical Competition, held December 7 last. The team, consisting of senior Al Hindmarsh, junior Ken Kunen, and freshman Vern Poythress, won \$20 for each of its members and \$200 for the Institute.

The three schools placing ahead of Tech were Michigan State University, first; Brooklyn College, second; and University of Pennsylvania, third. With respect to individual scoring, no one from Tech captured any of the first five places, but Kunen placed somewhere — only the gods in the MAA know where — between sixth and eleventh, thereby enriching his pocket-book by \$35. Honorable mention, unfortunately without pecuniary reward, went to junior Norman Camien, defunct sophomore Martin Cohen, Poythress, and sophomore Richard Stanley.

The contest, sponsored by the Mathematical Association of America, involved 1260 people from 199 universities.



Rev. Peter Kallelis speaks on Eastern Orthodoxy at the YMCA American religion series.

## Model GOP Convention Thrives on Hullabaloo

Representing Virginia and Louisiana, a Caltech delegation of eight unshakable Republican stalwarts were present at the 1964 Model Republican Convention sponsored by the California

College Republicans at the Sheraton Palace in San Francisco from Friday, March 20 to Sunday, March 22.

The group consisted of Richard Karp (chairman), J. C. Simpson, Gerry Steiner, and Ray Woolsey representing Virginia, while Tom Williams (chairman), Ed Bauer, Mark Satterthwaite, and Sean Solomon represented Louisiana.

### Shades of Bobby Baker

In general, the convention consisted of two independent parts: meetings and sessions; and co-ed drinking parties, termed "caucuses". In the opinion of most of the delegates, both parts were equally successful.

Friday night featured hearings of the platform committee, which were mainly devoted to anti-civil rights bill diatribes that in turn were mainly ignored by the platform drafting subcommittee. After the hearings, the delegations adjourned to their rooms, to everyone else's rooms, and to running down the halls yelling (glasses in hand).

### Ain't We Smart!

Early Saturday morning, about three hours after the caucuses were silenced by the assistant manager, the platform committee assembled to discuss the platform proposed by the draft.

## Former ASCIT President Killed In Car Collision

Robert Koh, former ASCIT President, was killed in a head-on collision with an oil truck near Boston, on Thursday, March 12, at about 10 p.m. The truck had seemingly pulled across the road in front of Koh.

While an undergraduate at Tech, Koh served as the first President of Page House and was active in reorganization of the Beavers. He was presently attending the Harvard Business School.

A special Robert Koh Memorial Fund is in formation at Harvard. Those interested in contributing should contact: Robert Koh Memorial Fund, c/o Richard Chapin, Harvard Business School, Boston, Mass.

## Kallelis Explains Eastern Orthodoxy

BY TIM HENDRICKSON

Rev. Peter Kallelis of St. Sophia Greek Orthodox Cathedral in Los Angeles spoke on "Eastern Orthodoxy" at the April 1 YMCA "Varieties of Religion in America" lecture. The lecture series is held Tuesdays at 7:30 p.m. in Club Room No. 1 of Winnett Student Center.

Kallelis began his program with a descriptive film — produced and directed by himself — made at the beautiful St. Sophia Cathedral. The film explained that the goals of the Orthodox Church were to "maintain the doctrine of Christ, administer the sacrament, and spread the holy gospel."

Kallelis elaborated by stating that the formal purpose of the church was "to sanctify the

people." This sanctification would be accomplished by the administration of the seven sacraments.

### Baptized Five Times

The most important of these sacraments were confirmation; Holy Eucharist, in which the bread and wine is considered to have been actually converted into the flesh and blood of Christ; baptism ("My son had to be baptized five times to get that picture shown in the film," disclosed Kallelis); and confession, always performed in darkened, meditative solitude "so that the confessor will not notice the other's blushing."

Several other features of the Greek Orthodox Church were pointed out by Kallelis. First, the Patriarch, head of the church, is "only the spiritual leader, not an absolute representative of the church." Second, the Greek Orthodox "veneration" of the saints "is not because the Greeks still believe themselves to be gods . . . but to remind ourselves that the saints offered something that may be emulated."

### No Purgatory

And third, at death the body returns to the earth. There is, however, an "intermediate state" — not purgatory — in which the deceased receives a partial judgement and taste of his eventual fate.

The Great Schism in 1054 between the Greek Orthodox and Roman Catholic Churches occurred when the Greek Orthodox Church "excommunicated the Church of Rome." The Greeks were unwilling to yield to Roman pressure to alter the original church and interpretation of the scriptures. As Kallelis stated, "Tell a Greek what to do, and he'll tell you where to go."

(Continued on page 5)

## Dave Close Takes First At Debate Meet

Sophomore Dave Close received a first place award and two other Tech debators also received honors at the Pi Kappa Delta Pacific Tournament held last weekend at California State College in Los Angeles.

Close received a gold medal for his first place in extemporaneous speaking. He was the only speaker ranked first by all judges. In debate, Close and Gary Scott compiled a record of three wins and three losses to obtain a rating of "good". Steve Morse received two ratings of "good," in both oratory and discussion.

Debators Close and Scott posted wins against California Western University, Redlands, and Orange State College. Their three losses were against teams that eventually placed first, second, and third.

## Stern Translates Book to Spanish

Dr. Alfred Stern, professor of philosophy and languages at Caltech, has translated his latest book into Spanish. The work, *Philosophy of History and the Problem of Values*, is now available in English, French, and Spanish, and will soon be printed in German as well. Editions in other languages may follow, as the author has received requests for rights of translation into Japanese, Italian, and Urdu (the language of Pakistan).

Stern originally wrote his *Philosophy* in French for his lectures as a visiting professor at the University of Paris. He then translated it into English and partially into Spanish for similar work at the University of Buenos Aires. Now he is translating it into German. The French version was printed in Paris, the English in the Hague, Holland, the Spanish in Buenos Aires; the German edition will come out in Munich.

An earlier book on Sartre's philosophy was published in Japanese, English, and Spanish.

## Notices

### WIN LOOT FOR ESSAY

An essay on the topic "A Student Views 'The Victors'" can win the writer \$200 cash or an electric portable typewriter if it happens to be the best one among those submitted by college students all over the country. Columbia Pictures is sponsoring the contest about the philosophy of Carl Foreman, who produced the movie, which is based on World War II. Full details may be obtained at the Tech office.

### CCF MEETS

The Caltech Christian Fellowship, in continuing its Friday luncheon series for third term, will present Dr. Robert Mannes, professor of mechanical engineering at USC, who will speak on "The Second Law of Thermodynamics." The meeting will be held this Friday noon in Chandler. Undergraduates may transfer their meals without prior sign-up.

### DEBATE WITH PCC

The Caltech debating team will meet the PCC team in Winnett next Monday, April 6, from 4 to 5:15 p.m. Anyone interested is invited to attend.

### CONTRIBUTE TO SCIENCE

Those interested in donating sperm for biological studies of human DNA should contact John Kiger, 202 Kerckhoff, for details.

## Editorials

## Egad!

The plotters and schemers—or for that matter the erectors and fabricators—of mechanical tools, pertaining to the science that treats the composition of substances, or its powers to affect events, its continuous operations, treatments, and so forth, may be characterized in a certain way. Figuratively, these individuals are a mucky, nasty, dreggy, filthy, obscene, and monstrous, yet gossamery, diaphanous, and sheer, efflorescence—more precisely eschar, crust, or scale—which is awaft, natant, fluctuant, and buoyant upon a freely flowing substance. In actuality, they are a tumultuous crowd of inferior, nether, subjacent persons regarded merely as forming an aggregate of human beings of a special type, to wit, those that occupy as a place of residence or habitation the “wandering” celestial body which is fifth in order of physical magnitude, extent, or bulk, and third in order of the measure of separation of place with respect to the luminary center of our planetary system.

We can summarize this by saying that designers or constructors of engines pertaining to chemistry, or its forces, processes, etc., are like a foul, filmy covering floating on a liquid—actually a rabble of low people—among the people on the planet which we inhabit.

Said more simply, Chem E's are the scum of the earth.

—J. C. Shrdlu

“Corky” Yirbofski

## Hitchhike Through Europe

## Burgess Continues Report

A natural partner of hitchhiking is Youth Hosteling. By sacrificing a little privacy and luxury one can stay in a Youth Hostel in any country in Europe for about 25c a night. Aside from the tremendous savings on room and board expenses, you gain admittance into an exclusive cult, made up of student travelers from everywhere in the world. There is an active exchange of valuable travel information, experiences and customs which results in one of the most exciting aspects of a trip like this. By the way, you find some pretty nice girls staying in Youth Hostels. And talk about romantic settings, like a medieval fortress overlooking the Rhine at Koblenz, a chalet in the high Alpine town of Grindelwald—sigh, what am I doing back here in Pasadena.

## Language Problem

Did language barriers stand in my way? Yes, for the intimate knowledge one gains by being able easily to converse with the common people in their native tongue was lost to me. But I feel that this loss was merely in depth, and then by no means complete, for most European students can speak English quite well. With one year of Caltech German and an eagerness to learn and improve (and frequently to make a complete fool of myself), I had no trouble at all getting along where German was spoken.

By the time I reached France, Italy, and Greece I had made a list of absolutely necessary phrases which I soon learned from other students, people with whom I was riding, etc. Such phrases as: “Thank you very much,” “Excuse me,” “Where are you going?,” “I’m going to.....,” “Where is the.....?,” “How much?,” etc. I learned to count in French, Italian, Danish, Swedish, Greek, and even Serbo-Croatian. With only one day’s experience in Italy I got a 500 mile ride from Brindisi to past Naples. We talked the whole time, neither of us speaking the other’s language. You can’t overestimate the power of gesticulation.

## Vile Staff

Thus with my ruck sack, camera, sink-washable wrinkleproof clothing, an American flag, and a copy of *Europe on \$5 a Day* (total weight 21 lbs), I arrived in Dublin. The most vivid memory of Dublin was the bottle of Guinness Extra Stout I drank in

a little old pub. It was black, dreggy, and revolting (Yeechh!) and sent me hurrying to buy some candy to remove the vile taste from my mouth. My ten days’ stay in England proved to be valuable as a breaking-in and conditioning period of living by myself and getting around on my own. This period of readjustment, while exciting, was also difficult, and not having to worry about the language was indeed helpful.

I remember the feeling the night before I left for France of the pending adventures to be found in a non-English speaking land. I certainly wasn’t disappointed, for on crossing the channel and landing in Dunkerque I found myself in a different world, surrounded by people all speaking French. It was that night that I was first really struck with the reality that I was in a foreign country—me, not some friend or character in a book, but me.

## A Wet Night

And what a night it was! The boat landed at 1:30 a.m. and after a two-mile walk into the city, a British fellow I’d met on the boat and I decided to sleep in a park on some nice soft green benches, the hotels all being closed. Well, this would have been fine but it started to rain about 2:30 and so we spent the night huddled in a very shallow doorway, cold and sleepless. Every so often a drunk would come staggering down the street towards us, ducking from one doorway to the next until he came to ours, at which time he would jump, frightened, back into the rain and stagger on. We were certainly glad when the rain stopped and we got a ride towards Brussels.

## One Way Confusion

I traveled quickly through Belgium, Netherlands, Northern Germany, and then to Denmark. Two funny language incidents occurred during this time. In Hamburg I had found a nice little place to eat and carefully noted that its address was #14 on Einbahnstrasse. That evening in my attempts to find the place I asked several people, “Wo ist Einbahnstrasse?” After several very confused and perplexed replies I finally realized to my humiliation that “Einbahnstrasse” meant “One Way Street.”

In Copenhagen on looking at the menu under “soups” I noticed “Dagensuppe” and while I had no idea what it was, I decided to try it. It was delicious mushroom soup, and the next day I eagerly reordered it—only it wasn’t mushroom, it was split

pea. It turns out that Dagensuppe is the “soup of the day” in Danish!

## Rural Family

From Copenhagen I hitched up into Sweden and then back south to Hamburg. Here I had a particularly rewarding experience. I spent a whole day in the very small rural farm town of Ammelinghausen with some distant relatives. The tears which came to their eyes when they realized they had a “Besucher (visitor) von Amerika” and the homey hospitality they lavished upon me was indeed touching. We got along fine considering they couldn’t speak a word of English. They lived in a 300-year-old building, part of which housed some of the farm animals, with a moss-covered thatched roof and half-timbered construction. The beauty of the countryside and the life here, so very peaceful and quaint, was typical of the genuine traditional life you find when you jump the tourist track and leave the hectic modern cities.

I then hitchhiked with Joe Weis from Hamburg to Berlin where I found an almost electric tension on the air. West Berlin is very dynamic and active with few scars remaining from the war. On visiting East Berlin I was at first slightly disappointed for I had expected it to be empty and desolate, but instead I noticed that people and cars were on the streets and that although the reconstruction wasn’t as far along as in West Berlin, it was being undertaken. The contrast began to appear when we got hungry and headed toward the “center” of East Berlin for lunch. The striking thing was that there was no center, at least not in the same sense as we saw in West Berlin. Little advertising, Russian cars, and signs on building greeting N. Khrushchev who had recently been there, brought home the fact that this was a communist dominated city. The main “show street” of East Berlin was lined with monotonous rows of new apartment buildings.

## Lunch in East Berlin

After an hour of hunting we found a grocery store, where we bought a lunch of crude bread (spec. grav. — 13), crude milk, and some “kunsthonig” (artificial honey left over from WWII). The lack of any advertising appeal and beauty in the complete drabness of the products being sold was certainly one of the most striking contrasts with West Berlin. Every attempt was made to impress

(Continued on page 4)



## LIDO DE PARIS

Tireless in its pursuit of uplifting entertainment, your column journeys to far Las Vegas to take in the *Lido de Paris*. The *Lido* is theoretically a French review, imported piece by piece from Europe, like the Hearst castle. Unlike what is generally called a “revue” in this country, it is not a simple affair, devoted to songs and satire; rather it is the apotheosis of the vaudeville show, playing, one might say, the same role with respect to vaudeville that Beckman plays with respect to an auditorium. One is forced to admit that judged for what it is—a spectacle—it is an immense success.

## No Padding Here

Assembled in the *Lido* are the following: an excellent dance company; costumes to shame the court of the Sun King; feats of staging such as can never be approached in ordinary theater; tastefully naked young ladies of scarcely believable perfection; trained seals in real water; skaters on real ice; a live horse; three live tigers; and some other things. One tableau is a Pacific island scene. As it starts the lovelies are doing a ritual dance, and preparing to sacrifice a virgin to the gods. For some reason, the gods are not impressed. A storm rises. Rain falls, lightning flashes. The palm trees sway and bend. The dancers redouble their efforts. Then there is an earthquake, and a volcano begins to erupt. The buildings collapse, lightning flashes, the earth heaves. The dancing rises to a frenzy, and as the scene ends the entire stage appears to be demolished. How they manage to molish it again and do the show two or three times nightly is beyond me. As a *tour de force* of the stage designer’s art, the *Lido* is definitely worth seeing. It will give you the right to pooh-pooh New York musicals ever after.

## Dirty Old Men

From the light-heartedness of the *Lido* one emerges into the gayety of Las Vegas; the show is not yet over. It is not too far-fetched to say that all this desert pleasure dome is a large, extravagant show, and one, moreover, in which you the visitor are a participant. Vegas is a self-contained world not a part of the real world, with its own set of rules and values. In most civilized places, a man is re-

## By Steve Schwarz

spected according to his dignity, his accomplishments, his value as a human being. When one arrives in Las Vegas, there is an eerie feeling that these qualities no longer count. The happy folks are interested in food, gambling, and sex, all of which are pleasures to be purchased for oneself and enjoyed; one has come, after all, to buy pleasure for oneself. *Esquire* magazine told recently of an instance in which an elderly man at a dice table was suddenly interrupted in his pursuit of pleasure by a heart attack. As the man lay under the table, dying, the dice game continued as though nothing had happened.

## A Neon Jungle

A jungle might be defined as a place where civilized values do not count. In a jungle what matters in physical strength. However, reaching a stage of development only a little elevated from the jungle, man learned to replace physical strength with the power of money. Thus it is not surprising that in Vegas one feels that the value of each person or thing is based on how many dollars it is worth. By Las Vegas standards the *Lido* is the best show in the world. Just as Jack Ruby is the best man in the world, if he’s brought enough money with him.

## Caltech Glee Club Performs In Midwest Concert Tour

## BY CHUCK SMYTHE

While the average Techman was being victimized by finals two weeks ago, the renowned Caltech Glee Club (vulgarly known as the Men of Science in Song) was taking its annual all-expense-paid spring vacation.

This vacation, cleverly disguised as a concert tour, has in past years traveled about California, but this time—thanks to the generosity of many groups such as the Caltech Service League and the Board of Trustees—the club left the state for the first time, and gave nine concerts in Illinois and Southern Wisconsin.

## Women, Girls, and Our Boys

The first of these, held at the Edgewood College of the Sacred Heart in Madison (a women’s school!), included dinner with the girls and a party afterward, at which a few of the Hot

Throbbing Larynxes were taught a barbaric new dance. The second concert, at Haven Junior High School in Evanston, featured an amazing new instrumental solo: Staley and his biting yoyo. Further concerts were the National College of Education in Evanston (more girls, more party), Mount Morris High School (Bob Sweet day), and Rosary College in River (yet more girls).

## A Good Audience

The Tuesday night concert, at Beloit College, was attended by the largest, the most enthusiastic, and one of the most critical audiences the glee club has ever drawn. After the inevitable party given by one of the sororities (more girls again, the Blacker House quartet, Staley and yoyo, etc., etc.), several of the men lounging around the kitchen of

(Continued on page 3)

## California Tech

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated.

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California Tech, 1201 East California Blvd., Pasadena, California.

Member of The Associated Collegiate Press

Second Class postage paid at Pasadena, California

Printed by Bickley Printing Co.

Represented nationally by National Advertising Service, Inc.  
Subscriptions: \$1.50 per term, \$4.00 per year. Write: Circulation Manager.



# Geophysicists Search For Volcano Secrets

Caltech geophysicists have installed a very sensitive strain seismometer on the Hawaiian island of Oahu to study an active volcano. Oahu is about 200 miles northeast of Mauna Loa and Kilauea, the only remaining active volcano on the Islands.

Dr. Frank Press, director of the Seismo Lab, explained: "Mauna Loa is ideal for the study of volcanic activity. It is a nice volcano in that it gives plenty of warning in the form

of tilting and small earthquakes. Its eruptions can be predicted and no one gets hurt."

## Eighty Five Foot Rod

The seismometer was designed and installed by James L. Blaney and Ralph Gilman of the Seismo Lab. It is a modification of the instrument invented by Dr. Hugo Benioff of Caltech. The heart of the instrument is an eighty-foot quartz rod, anchored to the rock at one end and free at the other. Quartz is used because it is affected very little by temperature changes. At the free end is an electronic detector which converts any difference in movement between the two ends of the rod into an electric current and amplifies it. The seismometer is located in a long tunnel in a lava flow about 200 feet below the surface. It is so sensitive that it can record a stretch or squeeze in rock of one-fifth of an inch in 3000 miles.

Press said the instrument is designed to measure the squeezing of the rock as conduits, believed to extend thirty miles down, fill with magma. The first objective of the project is to determine if there is any correlation between the compression of the rocks and volcanic activity. The dimensions of the conduit system can then be estimated, and the length of time required for the magma to be forced from bottom-most conduits to shallow ones measured.

## Unanswered Questions

The Oahu instrument can be used in conjunction with others to study additional problems. For example: Why are there volcanoes in that part of the world? Is there a zone of weakness below the islands? Where does the lava come from? The instrument is in a good position to study the earth's crust beneath the ocean. Teamed with instruments in Peru and California, it can be used to observe earthquakes that produce free oscillations of the earth.

Drugs Sundries Cosmetics Tobaccos  
**CALIFORNIA REXALL PHARMACY**  
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 Breakfast Lunch Dinner

## More Glee

(Continued from page 2)

the Sigma Chi fraternity were approached by an overjoyed student. It seems he had been dating a girl for months and having a hard time with her. They attended the concert, and when the quartet sang "Blue World," she melted in his arms. The Institute has made another friend for life.

## Hallelujah!

The tour ended with concerts at Mount Morris Methodist Church, the Redeemer Lutheran Church in Hinsdale, and the University of Southern Illinois (George Brackett day). Special thanks are due to Jerry Dessinger for his noble work with the women of Edgewood, to George Preston for his impromptu solo work at Edgewood, and to Art Johnson for his fixes, his religious services, and his efforts with the girls of Mount Morris.

## Future Plans

Thanks largely to the devoted talent of the director, Mr. Olaf Frodsham, the tour was an enormous success and very effectively propagandized both the club and Caltech to the outside world. The Glee Club has a very heavy schedule for third term, highlighted by the annual home concerts. This year's concerts will, of course, be held in Beckman, and will feature much of the tour repertoire plus, hopefully, additions, such as selections from the "Carmina Burana." The concerts will be held on May 1 and 2, and Caltech students will be admitted free of charge. Everybody come and bring friends, for the glee club needs the money.

## Model G.O.P.

(Continued from page 1)

ing subcommittee. The committee spent about forty minutes discussing a proposal by Caltech that any action regarding cigarettes and cancer be postponed. This motion, proposed by Virginia, was finally defeated and a health plank rejecting Medicare was finally adopted. In short order, a plank regarding agriculture, calling for a gradual end to supports and an extension of the land grant college program, was adopted.

## Not \$100 a Plate?

After dinner, which was a rather poor \$4.50 banquet, both the platform committee and the general session met. The platform committee rather hurriedly finished with relatively non-controversial planks on foreign affairs and labor. In the general sessions, Techman Bauer spent about two hours arguing, and finally defeating, a unit rule requirement that had been initiated by his fellow Tech delegates. Both meetings then adjourned and caucuses proceeded until early in the morning, featuring again many rounds of paid-for-by-candidates drinks and several assorted drunks, fights, and visits by the assistant manager.

The next morning, the Caltech delegation cooperated with the chairman to adopt the platform in the general session in record time. The floor was cleared for nomination of candidates.

## Caltech Aids Scranton

On the first ballot, Goldwater and Rockefeller showed strength but did not come near to nomi-

nation. On the second ballot, Caltech helped spearhead a motion toward Lodge which saw Lodge and Rockefeller as front runners, with Goldwater dropping. The third ballot began equally indecisive, but ended in a landslide, primarily from Goldwater and Rockefeller, toward Scranton. The Caltech Louisiana delegation finally changed its 20

votes from Lodge to Scranton and that nominated Scranton, with Lodge second. In vice-presidential candidates, Governor Harfield of Oregon won on the first ballot.

This closed the convention, but the closing opinion was probably equally shared by all who attended. The convention was a blast.

**UNITARIAN PUBLIC FORUM**  
**Prof. Joseph P. Morray**, College Instructor, Traveler, Author  
 Speaks On "STILL ON THE BRINK"  
 Friday, April 3, 1964 8 P.M.  
 First Unitarian Church  
 2936 W. 8th Street, Los Angeles  
 Student 75 cents Question Period  
 Donation \$1.50

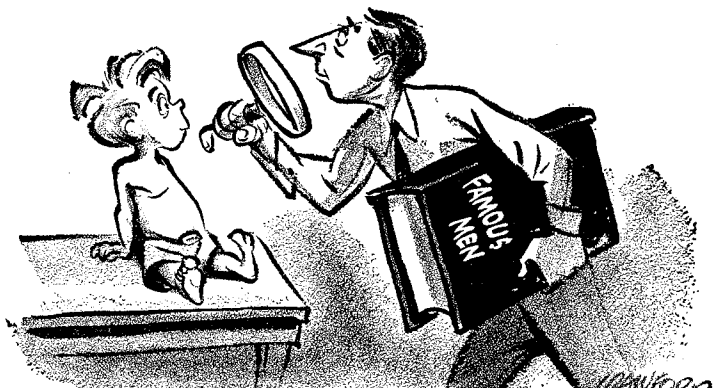
**On Campus with Max Shulman**  
 (Author of Rally Round the Flag, Boys!  
 and "Barefoot Boy With Cheek.")

## WELL-KNOWN FAMOUS PEOPLE: No. 1

This is the first in a series of 48 million columns examining the careers of men who have significantly altered the world we live in. We begin today with Max Planck.

Max Planck (or The Pearl of the Pacific, as he is often called) gave to modern physics the law known as Planck's Constant. Many people when they first hear of this law, throw up their hands and exclaim, "Golly whiskers, this is too deep for little old me!"

(Incidentally, speaking of whiskers, I cannot help but mention Personna Stainless Steel Razor Blades. Personna is the blade for people who can't shave after every meal. It shaves you closely, cleanly, and more frequently than any other stainless steel blade on the market. The makers of Personna have publicly declared—and do here repeat—that if Personna Blades don't give you more luxury shaves than any other stainless steel blade, they will buy you whatever blade you think is better. Could anything be more fair? I, for one, think not.)



Max Showed no indication.....

But I digress. We were speaking of Planck's Constant, which is not, as many think, difficult to understand. It simply states that matter sometimes behaves like waves, and waves sometimes behave like matter. To give you a homely illustration, pick up your pencil and wave it. Your pencil, you will surely agree, is matter—yet look at the little rascal wave! Or take flags. Or Ann-Margret.

Planck's Constant, uncomplicated as it is, nevertheless provided science with the key that unlocked the atom, made space travel possible, and conquered denture slippage. Honors were heaped upon Mr. Planck (or The City of Brotherly Love, as he is familiarly known as). He was awarded the Nobel Prize, the Little Brown Jug, and Disneyland. But the honor that pleased Mr. Planck most was that plankton were named after him.

Plankton, as we know, are the floating colonies of one-celled animals on which fishes feed. Plankton, in their turn, feed upon one-half celled animals called krill (named, incidentally, after Dr. Morris Krill who invented the house cat). Krill, in their turn, feed upon peanut butter sandwiches mostly—or, when they are in season, cheeseburgers.

But I digress. Back to Max Planck who, it must be said, showed no indication of his scientific genius as a youngster. In fact, for the first six years of his life he did not speak at all except to pound his spoon on his bowl and shout "More gruel!" Imagine, then, the surprise of his parents when on his seventh birthday little Max suddenly cried, "Papa! Mama! Something is wrong with the Second Law of Thermodynamics!" So astonished were the elder Plancks that they rushed out and dug the Kiel Canal.

Meanwhile Max, constructing a crude Petrie dish out of two small pieces of petrie and his gruel bowl, began to experiment with thermodynamics. By dinner time he had discovered Planck's Constant. Hungry but happy, he rushed to Heidelberg University to announce his findings. He arrived, unfortunately, during the Erich von Stroheim Sesquicentennial, and everyone was so busy dancing and duelling that young Planck could find nobody to listen to him. The festival, however, ended after two years and Planck was finally able to report his discovery.

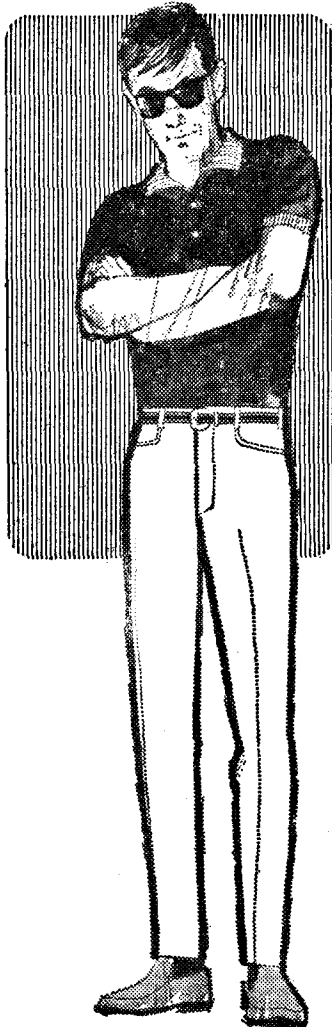
Well sir, the rest is history. Einstein gaily cried, "E equals mc squared!" Edison invented Marconi. Eli Whitney invented Georgia Tech, and Michelangelo invented the ceiling. This later became known as the Humboldt Current.

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\* \* \*

Mr. Shulman is, of course, joshing, but the makers of Personna Blades are not: if, after trying our blades, you think there's another stainless steel blade that gives you more luxury shaves, return the unused Personnas to Box 500, Staunton, Va., and we'll buy you a pack of any blade you think is better.

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### Burgess Reports More

(Continued from page 2)

visitors, however, including two guided tours of the city daily, timed, oddly enough, in the morning and in the evening when the streets are filled with workers going to and coming home from work.

From Berlin I traveled to Cologne, down the romantic Rhine by steamer, and finally to Munich in the heart of Bavaria. I'll always remember Munich as my home in Europe, for here I spent eight glorious days absorbing the culture and tradition which makes this part of Germany the most loved by American visitors. I was extremely fortunate to have met, through my project, a truly remarkable woman Doctor here, whose great love for culture, art, and humanity, coupled with her devotion to research and medicine served as a strong inspiration to me. I reluctantly left Munich, but soon was confronted with the sheer beauty of the Bavarian Alps, the Tyrol, and the Swiss Alps as I traveled through Austria, Switzerland, into Northern Italy, and finally to Venice.

#### Yugoslav Thought

Departing from Venice, I traveled by boat down the coast of

Yugoslavia with Joe Weis and Terry Mast, to Greece, and back to Italy. This phase of the trip was the high point of my summer. Not only was the physical aspect perfect as far as the weather and scenery were concerned, but the experiences in traveling were very much different than during the rest of the summer. Yugoslavia, a com-

munist country, offered a situation of special interest. We were lucky to have a Yugoslav law student in our room at the Youth Hostel. We talked with him for hours in order to try to satisfy our curiosity. These people, for example, have a fanatic fear of the German National Spirit and feel that if Germany is ever

(Continued on page 8)

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# A Child's Guide To The California Institute Of Technology

Kallelis

(Continued from page 1)

BY  
UNCLE WALLY JERBOWSKI

Hello.  
Welcome to the California Institute of Technology.  
See all the pretty buildings.  
See. See. See.  
That one right there is Throop, and that one is Bridge, and that is Gates there, and next to that is Crellin, and . . .  
That one over there? Uh . . . let me think a minute.  
Oh. Heh. That is Dabney. No, I don't remember what they use it for.  
See all the people walking around. Look how smiling and happy they are.  
What?  
Well, you have to use a little imagination.

And look over there, we have . . . What? A circus? No, the California Institute of Technology does not have circuses. Why?

Oh.  
I see. Those are not side show freaks. Those are grad students. They are merely showing how intellectual they are by ignoring convention.

Intellectual means the same thing as unsanitary. But it's better.

Let us walk over this way and you can see more of the campus.

**Around It Goes**

That is Beckman Auditorium.  
No, it does not turn around; and you cannot ride on it. And those are just for decoration,

they aren't really growing. That is Booth Computing Center. It has millions and millions of dollars worth of machinery inside.

Who bought it for us?  
We have a rich Uncle.

These are the Student Houses. Here is where California Institute of Technology students spend their carefree youth.

Dr. Huttenback? No, the student houses do not tremble when he speaks.

Just maybe sometimes a government falls.

**Splendor in the Grass**

Look at all the happy students sunbathing on the grass.

Happy. Happy. Happy.  
The one in the shade? He is not sunbathing; he is uncon-

scious. He has severe food poisoning. See how he retches.

Retch. Retch. Retch.

Those are the SAGA kitchens. Let us look in the windows and see them prepare our food.

Snoop. Snoop. Snoop.

Look at all the exotic ingredients that go into our food. That white stuff? No, that is not salt. It is potassium nitrate. It lets people sleep better.

No, not the students. The administration.

I guess that is about all there is to see. What?

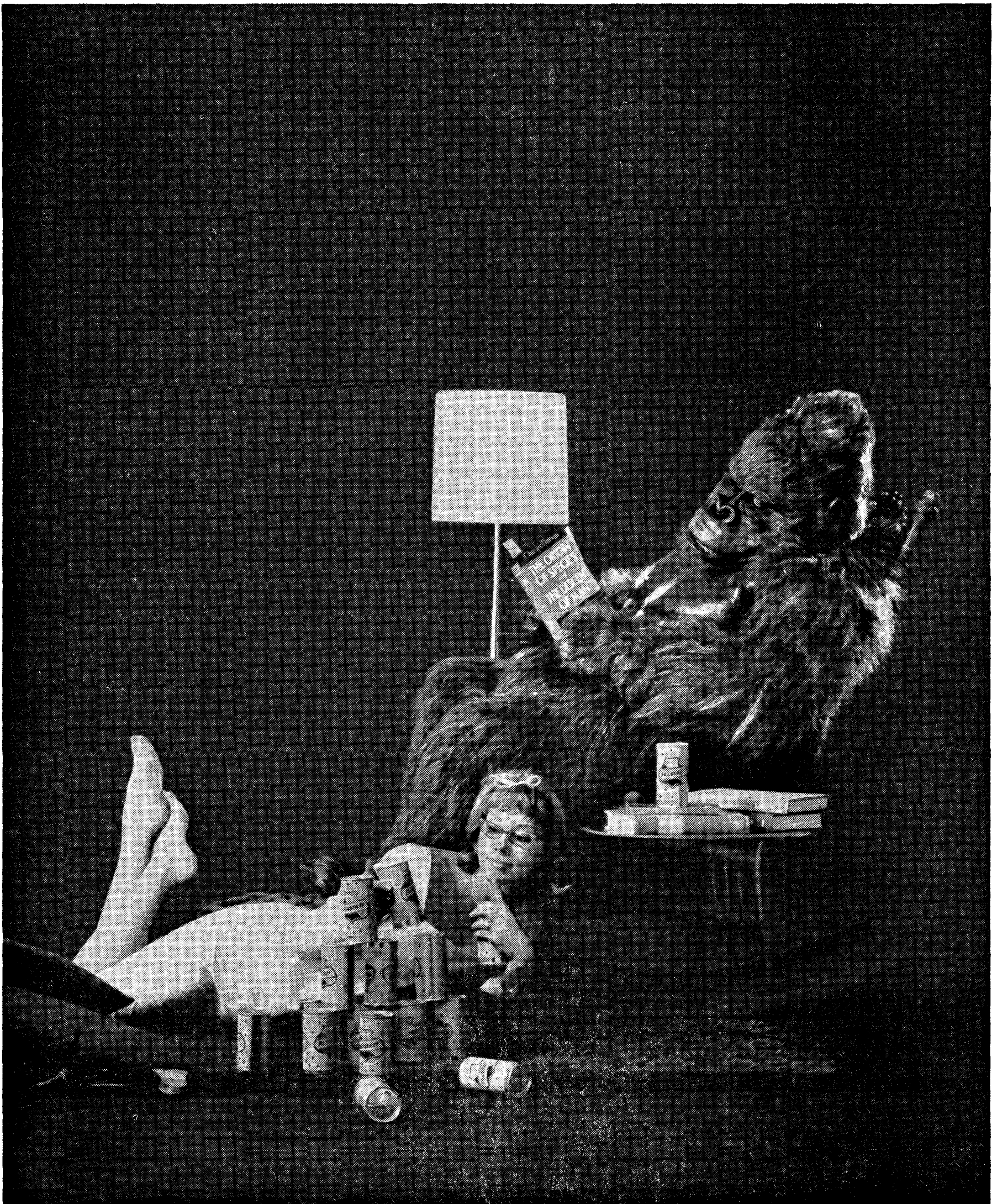
That guy over there in the corner eating it raw? He's a Chem E.

**Unfiled Faith**

After the schism the two churches grew apart; the Church of Rome soon added the requirement of celibacy for its clergy, and altered the original sacrament with such things as the stipulation for unleavened bread in the Communion. In this sense, Kallelis concluded, "the Greek Orthodox Church is the unfiled, original faith of the early apostles."

GARF!

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# Tech Downs Azusa In Ten

The Caltech varsity nine continued to look impressive as they downed Azusa, 6-4, in ten innings, Monday. This victory was their fourth in their last five outings. The Dodgers haven't even done that well.

For the first time in the school's history, the team took the field wearing uniforms that actually looked like baseball uniforms. The game they played was certainly worthy of these new additions.

## Antidisestablishmentarianism

The game started off with a bang as number two hitter, Bill Weber, slammed the first pitch offered him onto Foothill Boulevard for a home run and a one-run lead. This gained Bill an RBI and many additional hamburgers and milk shakes. This Foothill Boulevard is not unfamiliar to Tech baseball players as Tech fielders have chased down many long drives and long overthrows in this vicinity in the past years. This year tells a completely different story.

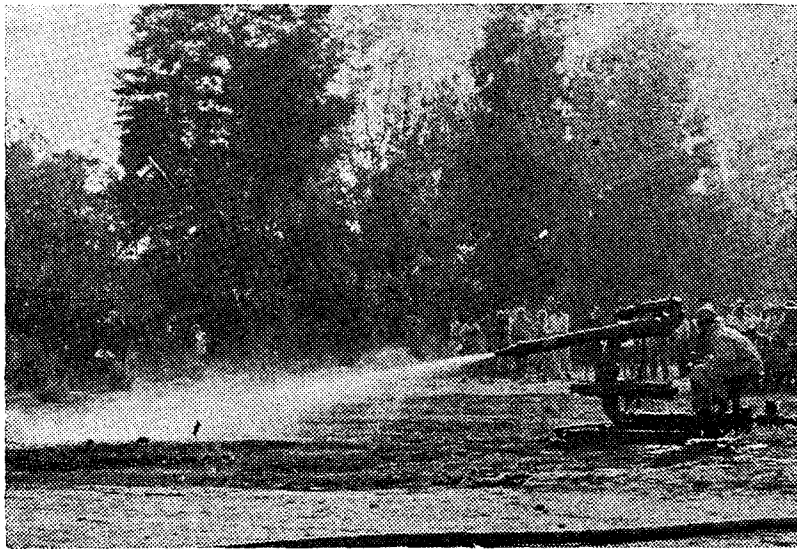
## Deoxyribonucleic Acid

Starting pitcher Bill Ricks left the game in the fifth inning after each team pushed across one additional run. Reliever John Diebel took over with the score 2-1. Diebel opened his stint with some shaky hurling as he served up a gopher ball early in the sixth. The Azusa slugger caught a fat one with his three wood and hit it so far that it took five relays to bring the ball back into play.

The Azusa bench started the cry that Diebel's "stuff" consisted of a gopher ball and a wild pitch as they pushed across two more runs in the seventh to make the score, 4-2.

## Alpha-phenoxy Naphthoic Acid

With the decision safely out of his reach, Ricks brought Tech back into the game late in the eighth. With two out, Weber and Resney lashed singles. With



—photo by R.I.P.

**Fearful machine sent by Upland College to ensure postponement of last Tuesday's baseball game is caught in the act of hydrating the Beaver diamond. Seconds after taking picture, our camouflaged photographer was drenched to an untimely death; the film was rescued by a friendly red-breasted rococo.**

two ducks on the pond and a meatball served up, Ricks crashed a long, 400-foot double. Two runs scored on the clout and the score was tied at four all. Ricks was stranded on the basepaths as the inning ended.

## Dedekind Cut

Diebel regained his magic touch as he held Azusa scoreless in the next two innings. With the game into extra innings Tech seemed to have run out of steam as two quick outs were made. Tom Resney, intent on not having to play one more inning under the threatening skies, took it upon himself to win it for the old alma mater. Resney slashed a single and stole second base to place him in scoring position. All he needed was a long single to score him with the lead run.

Gary Dahlman obliged Tom as he belted a long 100 foot texas leaguer between eight Azusa fielders madly scampering to reach the hard hit drive. None of the speedsters could reach it

and Resney scored. Badly shaken and rattled by the keen base running of Dahlman, Azusa allowed Gary to score on an error. This sent Diebel into the last inning with a two run lead to protect.

## Triphenylphalderal

Diebel protected the lead well but allowed a man to reach base in the inning. This put the tying run at the plate. A hush fell over the crowd as Diebel worked the hard-hitting Azusa hitter. The duel was over quickly as Diebel forced him to go after a low  
(Continued on page 7)

## Trophy On Line; Lloyd meets Red

The Discobolus trophy resumes its wandering again this weekend for the first match of the third term. Fleming, holder of the trophy for most of the last term, meets Lloyd in a tennis match. The trophy book has been gathering dust on the Fleming mantel for the last several weeks.

Lloyd means to change that situation right here and now. According to the records, they have a good chance of doing just that in the tennis match. Lloyd has a powerful team that finished second only to Ruddock in last year's interhouse tennis meet. Fleming should have a fight on their hands.

man of this year's interhouse track meet. Walt has shown a lot of promise in the pole vault, the most exciting event in track. Walt and Steve Garrison of the varsity have been working out with the new fiberglass poles. Both men can make the poles bend like spaghetti, and when they learn to control the bend and take advantage of the push, they may be a threat to a few of the old Caltech field event records.

## High Jumps Too

In addition to his pole vaulting talent, Walt also broad jumps, triple jumps and high jumps. Already, he has eclipsed his own high jumping record with a jump of 5' 10" in a recent meet. Also a fine High jumper is Ron Peterson. Ron has done 5' 10" in his career, but he hasn't quite reached his peak this year. Look for Ron to be a real threat in the coming meets.

The track team this year has been hampered by a lack of time to work. However, with finals over and vacation through, the thinclads will be ready soon for the grind of the SCIAC schedule. With a few first places in these events, Tech may surprise a few schools in the dual meets. Redlands has entirely too much power, but the rest of the schedule might be pretty exciting. Watching these events might even be a worthwhile way to spend an afternoon.

# Thinclads Meet Pomona; Individuals To Shine

The Tech thinclads meet Pomona this Friday at Pomona, in a match which just may show some fine individual performances. Tech will be hurt by the fact that many men have missed almost all of the last week because of the vacation. However, this may be offset by the fact that the rest may help Tech in several categories.

Bill Schoene and Charlie Sawicki have had trouble in the past with their arms. This has effected the javelin throwing ability of both men. Schoene has been a fine performer for several years. Sawicki, you remember, was the sensation of Interhouse track last year as he set an interhouse record. Although he hasn't quite developed the flowing form of the expert, Sawicki gets by on pure strength. Unable to get much help from the run allowed the javelin thrower, Sawicki has still tossed the stick over 175 feet. There is no telling how far he can toss it when he learns how.

Doug Gage has also been a fine performer for the varsity for the past year. A fine hurdler, Doug also high jumps and broad jumps for Tech and he does a fine job all around.

## Frosh Shine

There is room for a little excitement in the frosh division, too. Pete Cross has shown a lot of talent in the distance running events. The man to watch, however, is Walt Innes, the super-

# SPORTS

## Caltech Golfers Meet Whittier; Improvement Seen This Season

The Tech golfers meet Whittier this Friday at Whittier for their first match of the term. This will be the second match of the season for Tech, but Tech coach Dave Hyde would rather just forget about that one. Tech was humiliated, 52-2.

The matches are scored by match play rules. Each team provides six men, with the match being played in three foursomes. Each man plays 18 holes of golf. He plays against one of the opponents in his foursome by match play, two points being awarded to the winner of the front nine, two points for the back nine, and two points for the entire match. In addition to this, each player teams up with his partner in the foursome to

play the other team by match play, best ball. Hence, in each foursome, 18 points are awarded. This makes a total of 54 points possible in the match.

This scoring system tends to cause the spectacular shots. When a player is behind on the hole, he has nothing to lose by trying for the tough shot. Hence, a lot of these spectacular shots have been seen in Tech matches since Tech players have been well behind on many holes in the past.

The match at Whittier should prove to be a good one. Tech split with the Poets last year. However, the Tech team is much improved over last year's team. Despite the CHM humiliation, Tech may win this one.

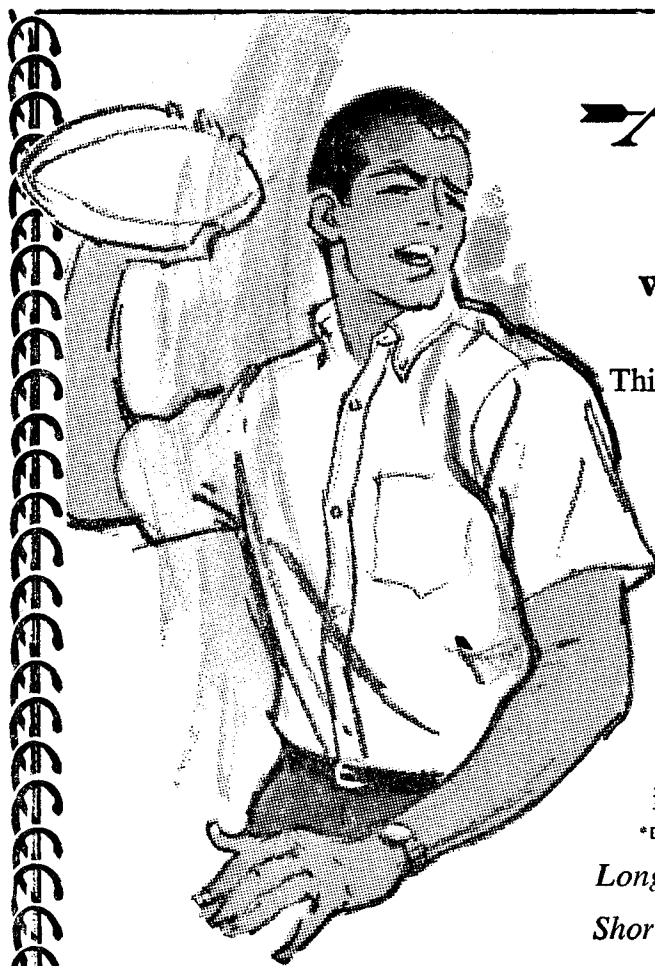
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**More Azusa Game**

(Continued from page 6)  
pitch and hit the ball into the dirt. The ground ball resulted in the game-ending double play. Tech left the field with a hard earned 6-4 victory and a lot more confidence to face the rest of the SCIAAC schedule.

A home game scheduled for Tuesday was rained out by the heavy downpour. The next varsity game comes on Saturday as Tech meets Whittier in a double-header. This is the first SCIAAC game for the varsity and should be a good one. Pitching depth may tell the story here as each team needs to coax 18 innings of pitching out of their pitchers. If Ricks and Diebel hold up and if the rest of the team plays as

it has in the last few games, Tech will have a good chance. **Fingerhutism Approacheth**

Tech's fielding has been a pleasant surprise this year. The team has come up with the double play several times and hasn't given away too many runs on miscues. In addition, the hitting attack has shown something new this year — hits. Gary Dahlman has been finding the holes and is hitting at better than a .500 clip this year. Resney has been hitting the ball, and several other hitters, including Christie, Ricks, and Weber, have shown good power as they have hit the long ball when needed.

**IH Basketball Starts; Close Race Predicted**

The 1964 Interhouse basketball season will be kicked off soon, and the individual houses are out practicing early. The race turned out to be a two horse race last year with Blacker and Fleming battling it out for the laurels. The race this year, however, may turn out to be a lot closer as several houses seem to have developed quite a bit of strength.

**Flem Jocks**

If one had to pick a winner, I'd have to go along with last

year's winner, Fleming. Fleming, although having lost a lot of talent in one year, should have the power and balance to lead the race. Blacker, however hasn't thrown in the towel yet, and may come on strong with Guthrie Miller leading them. A dark horse in the race is Ricketts. Ricketts has gained the hot hand of Frank Potter in a "preseason trade", and if they can come up with four other players to balance Frank's scoring threat, they may be in there.

All right, sports fans, here we are, bright-eyed and bushy-tailed, ready for another session on the man's sport of track. Today we will discuss sprinters.

In the old days, people used to think that sprinters had to be long and thin like race horses. This was largely a result of the fact that the greatest sprinter in the history of track before 1960 was Jesse Payens. He was long and thin like a race horse, being 6' 9" and weighting only 98 pounds. But the analogy did not stop there. Jesse ran like a race horse too. On all fours.

**Unusual Diet**

Jesse used to have a very unusual diet: two apples and a sugar cube for breakfast, a little bran mash for lunch, and five quarts of oats and ten pounds of hay for dinner. He held the records for 100, 220, and 440 yards for several years and was never beaten. However, he met a tragic end: he pulled a muscle while running the anchor leg of a 440 relay and they had to shoot him. Couldn't even turn him out to stud.

**Short and Squat**

The old tradition of long thin sprinters was shattered by the advent of Bob Straws, who currently holds the world record at 100 yards. Bob is anything but long and thin — he is 5' 2" tall and weighs 384 lbs. This physical perfection is largely due to Bob's strict diet of potatoes. He has french fries for breakfast, hash browns for lunch, and mashed potatoes for dinner, with an occasional boiled or frittered snack thrown in.

Bob has just as much heart as Jesse. One time in the 1936 Olympics, Jesse stubbed his toe on the far turn of the 440 and ran the last hundred yards on three legs, still finishing third. And only last year Bob tripped twenty yards from the finish line. Did he give up? He did not. He rolled the last fifteen yards end over end. (He rolls as well that way as he does sideways.)

In the next few years we may expect to see the rise of several young sprinters, following in the footsteps of Bob Straws. The day of the slim racehorse is past; it is solid muscle that holds sway in these modern days.

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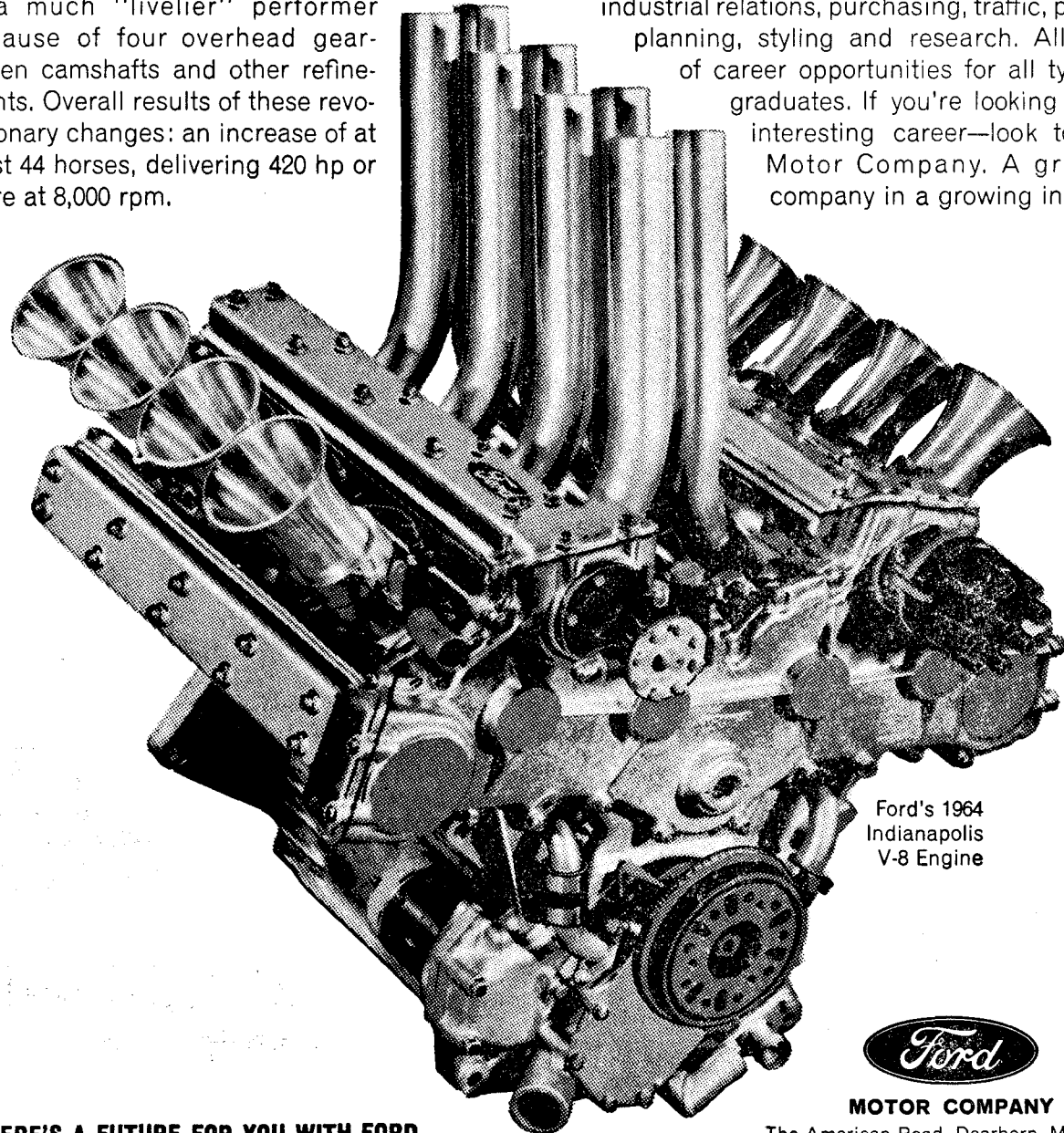
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## Not More Burgess?

(Continued from page 4)

reunited it will undoubtedly rise up and again attempt to conquer Europe and the world. This great fear itself is enough in the eyes of the Yugoslavs to give the Russians a very valid excuse for continuing their repression and domination in East Germany and for strongly resisting reunification.

The three-day boat trip from Yugoslavia to Athens was one of complete and welcome relaxation, sunbathing in the warm Dalmation sun as the boat glided through the ultraclear azure Adriatic. By going "deck passage" (sleeping on the deck at night) we saved 50% of the second class passage. The thrill was tremendous on arriving in Athens and seeing the Acropolis, the sacred rock, topped with the ruins of the 2500 year old Parthenon, rising from the center of the vast modern city. This mixture of new and old, while bringing home to me the realization that the ancient ruins did exist in my world and not just in the world of books and pictures, still gave an almost dream-like impression.

### History and Myth

But this impression was not nearly so strong as that of traveling to Thebes, Delphi, and then through the Peloponnesus. Here one can hardly distinguish mythology from reality. It seems completely believable when the guide at Mycenae tells you that this particular part of the ruins was where Clytemnestra stabbed Agamemnon, and that that hole in the wall is where Orestes escaped, and that down the road is Tiryns where Hercules was born; history and mythology are indistinguishably intermingled. My knowledge of Greek Tragedies certainly enriched my trip to Greece, for they virtually sprang to life and death before my very eyes.

I steamed across to Italy and after a culture-filled week in Rome and Florence arrived on the Riviera where I was so neatly robbed. On recovering my belongings I traveled quickly to Paris where for nine days I fell under the romantic influence of Paris in the early Autumn. I found Paris very intellectually and creatively stimulating, I began to sketch things, and if my plane reservation in London hadn't forced me to leave when I did, I might still be there with a couple of squeezed tubes of paint, a beard, and pile of unsold paintings.

In retrospect I feel that while my trip was centered around a scientifically oriented project, my main gains were my increase in the knowledge and apprecia-

tion of art, music, and history, a better understanding of the European people, and the experience of being completely on my own.

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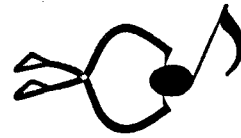
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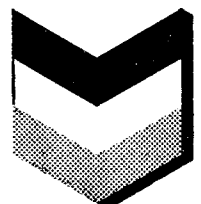
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