

The California Tech

California Institute of Technology

Volume LX.

Pasadena, California, Thursday, May 14, 1959

Number 28

'Hi, Nancy'

Lasses Brighten Tech For Lost Weekend

Tomorrow the 1959 edition of ASCIT's annual Lost Weekend will get under way as 30 imported girls arrive from all parts of the country.

Residents of secluded alleys in Blacker and Dabney will vacate their rooms for the week-end dates. ASCIT Social Chairman Ken Casey has planned a full schedule of events, starting Friday afternoon.

FRIDAY, MAY 15

2:00 p.m. — Girls start to arrive on campus and check into their rooms.

7:00 p.m. — Candlelight dinners will be served to all visiting girls and dates in Ricketts

Tech To Hear Band Concert Thurs., May 21

The Caltech Band will present its second concert of the year next Thursday, May 21, at 7:30 p.m., in the Olive Courtyard between Ricketts and Fleming.

Highlight of the evening will be the presentation, in its entirety, of Gustav Holst's "First Suite for Military Band." Representing the modern idiom of band music, Vincent Persichetti has written another of the band's selections, "Pageant." The band will also play selections from several Broadway musicals by the two famous teams of Rodgers and Hammerstein and Lerner and Loewe.

Director John Deichman has announced that the Caltech Band will present the same concert at Disneyland on Saturday, May 23. This will be one of the first times that a small college band has been invited to play there.

ASCIT Play May 22 - 24

The annual ASCIT play, John Patrick's "The Hasty Heart," is scheduled for May 22, 23 and 24 in Culbertson at 8 p.m. each evening. Tickets are available from house representatives and are \$1 apiece for students and dates and \$1.50 for all others. Newly appointed director Mike Talcott will head the theater-in-the-round production.

dining room. The meal will feature steak and swordfish.

8:30 p.m. — Troy Oliver's Band will furnish music for a dance on the lawn in front of the Athanaeum. At the same time, a casino party will be running in Ricketts Lounge — with fake money.

10:30 p.m. (approximately) — Manolo Vasquez and two luscious (says Casey) female dancers will appear during the intermission.

SATURDAY, MAY 16

2:00 a.m. — This is the deadline set for all girls staying in the Student Houses to get back to their rooms.

7:00 to 9:00 a.m. — Student House breakfasts will be served in the Ricketts dining room.

9:00 a.m.—Big beach party at Little Corona Beach, near Corona Del Mar. Casey will have maps available, so no one will get lost.

2:00 p.m. — Lunch will be served at Heissler Park in Laguna. Hot dogs and all the trimmings will be the main course.

6:00 to 8:00 p.m. — Dinner will be up to individual couples, at any place and time they choose, as long as by

8:30 p.m. — Everybody arrives at the Ash Grove, a coffee house on Melrose Avenue, which ASCIT has rented for the night. All Techmen and dates are welcome to hear Barbara Dane, Buddy Collette and Lynn Gold provide music and entertainment.

SUNDAY, MAY 17

2:00 a.m. — Back home from the Ash Grove for all girls staying in the Houses.

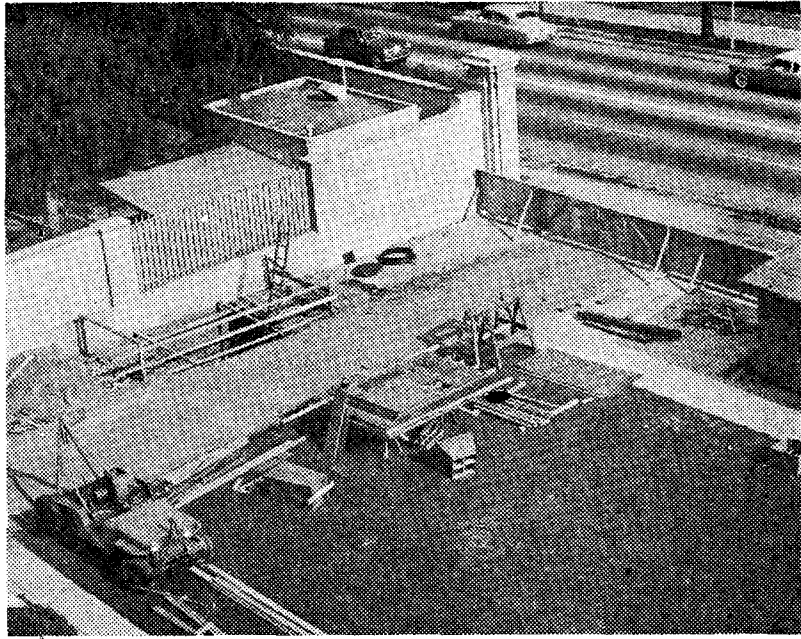
8:00 a.m. and on—Breakfast at Rand's in Arcadia. Get up when you get up, and go at any time.

10:00 a.m. — Girls start leaving after a beautiful Weekend.

The traditional contest for the bit part — this year to be an orderly — will be tonight after dinner in Dabney courtyard. Karen Beach, the play's lone actress, and other female stage help will pick a promising actor from each house.

Personal relationships between people of different races and nationalities is the central subject

Tech Expanding Rapidly; Building Begins On Campus



Construction crews are beginning work on new high voltage particle accelerator.

Fortune Editor Gathering Info

George Boehm, assistant editor of *Fortune* magazine, has spent the past two weeks on campus gathering information for an article on Caltech for the September issue.

"We are going to try to explain why Caltech is good," he stated.

"Sometimes we tend to forget that the aim of science is not to land a rocket on Mars," he explained. Faculty and student opinions have been liberally sampled. Over 60 people have been questioned.

The article will describe all phases of Caltech — research, graduate work and undergraduate life. A *Fortune* photographer will follow Boehm.

Jim Sorenson, Carl Hamilton, New Prexies

Jim Sorenson was elected president of next year's senior class last Thursday as class election runoffs came to a close. Carl Hamilton defeated Geary Younce for the sophomore prexy job. Stan Sajdera was named junior president in the initial voting last Tuesday.

The final BOC results list Pedro Bolsaitis over Bob Wax for the senior slot along with previously elected Bob Thompson.

Carl Pool edged Tom Tisch for the second junior post, joining Don Forrest.

Dean Gerber and Bill Howard won the sophomore jobs, defeating Roger Noll in a final contest on Tuesday.

In other races, Dick Chang defeated Dick Tuft for sophomore vice-president.

Art McGarr will be the new sophomore secretary. He outpolled Larry Kugler and Allan Bernstein.

Dick Harris retained his post as treasurer of the class of '62, defeating John Russ.

Fund Drive Has \$5 Million To Go

With construction starting on two new buildings, completion nearing for a third, and donations passing the three-quarter mark, Caltech's development campaign this week enters a new lap.

Slightly more than \$5 million remains to be collected toward the financing of 15 new buildings and a \$2.5 million increase in faculty salaries.

Sloan, Alles Begun

Construction began last week on two new labs — the Alfred P. Sloan Laboratory of Mathematics and Physics and the Gordon P. Alles Laboratory of Molecular Biology. Sloan will replace the old High Volts lab and Alles will be built between Kerchoff and Church.

A 10 Mev static accelerator will be included in the new physics and math building. The \$1 million machine will be financed by the Office of Naval Research and will be housed in a 150-foot long, L-shaped underground room now being built between California Street and the quad in front of Throop. (See Griffen, page 3.)

Completion of both new labs is scheduled for next spring.

The Physical Plant Department will begin to move into their new facilities north of San Pasqual sometime this week. An open house for the new building, first to be completed under the campaign, will be held early next month.

Houses in a Year?

Construction schedules for the other new buildings, including the three new undergraduate houses, are still in the planning stages. Charles Newton, Assistant to the President, told the California Tech: "The Institute realizes the importance of the new student houses. We plan to start construction at the earliest possible moment and are hoping to find a donor who will underwrite the costs." Preliminary plans call for construction of the houses to begin sometime this summer, with occupancy tentatively scheduled for fall, 1960.

Campus parking difficulties will be increased during construction, but future plans include a TP-style parking lot on Michigan Avenue, north of the new Keck Engineering Laboratory.

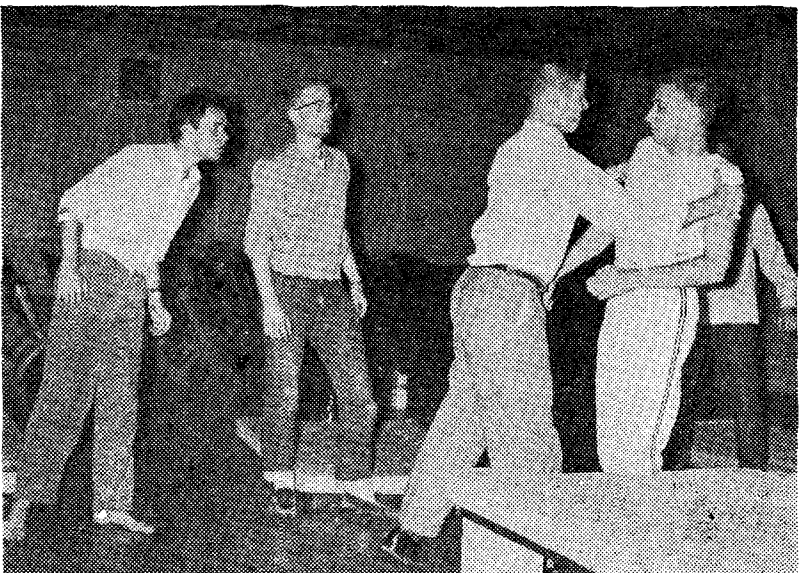
Announcements

CRIME AND PUNISHMENT

The YMCA will present "Crime and Punishment" Sunday night in Culbertson at 7:30. Cost will be 50 cents. The French-made movie is part of the Spring Film Series.

PRE-REGISTRATION

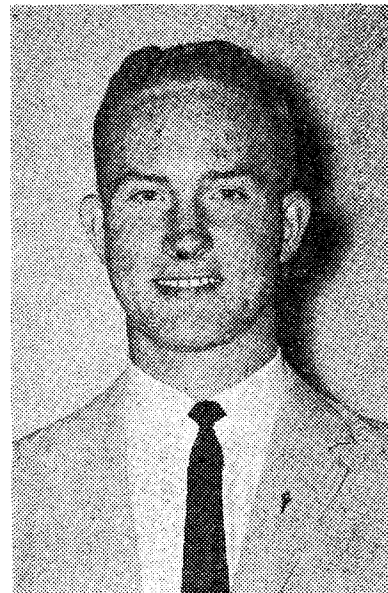
Pre-registration for first term of 1959-60 will be held from May 18 until 22. Freshmen must make final option decisions then.



Action scene livens rehearsal of "The Hasty Heart."

Rovainen New Cheerleader

Carl Rovainen was named head cheerleader by the Board of Directors Monday night. Rovainen's selection completes the ASCIT appointive office list.



Carl Hamilton



"Still at it, eh, Donahue"

Editorial

Ye Shall Find

Every year about this time somebody starts worrying about the advisor system. The Student-Faculty Relations Committee took their turn the other day and came up with some interesting points.

First of all, the advisor's job, as defined by the administration, is to provide professional counseling. He is there to give general insight into questions like "What does a physicist do?" and "How can I become a good EE?". This point of view came as a surprise to most of the students on the committee who were complaining because their advisors didn't know the difference between Math 31 and 33. The advisor's participation in pre-registration is only a gimmick to bring him and the advisee together.

The Deans and Departments claim that any more inclusive policy than this is impractical. Most curricular and social contact must be made on an individual and voluntary basis.

Both students and faculty can do more toward making the advisor system valuable. One suggestion was that students not wait until the last day of pre-registration week to get their card signed. Another was that the advisors could, more often, be prepared to just sit back and talk for a while.

The selection of advisors is a problem. The math department allows the frosh to request a certain advisor. It's something the other departments might try.

General conclusions: Most people, both students and faculty, aren't aware of the general purposes of the advisor system and could do more towards making it valuable.

The ASCIT Cornucopia

Editor, The California Tech

Item on the proposed ASCIT budget: Office Expenses, \$1050. That's out of a total budget of 14½ thousand, ten thousand of which is absolutely fixed expenditure (Athletic awards, Big T, etc.). It means we're going to spend one-fifth of the fun-money (five times as much as two years ago) on paper clips and two-tone erasers.

Perhaps it would be fairer to consider the breakdown on the Office Expenses: Supplies and Miscellaneous, \$600; Secretary,

\$450. That old miscellaneous really adds up. What do we get for the money? Reams of committee reports, committee proposals, committee evaluations, and 225 hours of paid secretarial labor to type them up. What would we do without this information? Probably go back to Sears-Roebuck catalogs.

For \$1000 the YMCA brings us a leader-of-America, the Houses put on 40 social events, and ASCIT mimeographs its paper work. Boy will be boys.

BRAD EFRON

Secretary's Report

A great deal of emphasis has been placed recently upon the importance of New Student Camp as the entering freshman's first introduction to life here at Tech. Although the importance is certainly well placed, the categorization is not strictly true.

The first real contact that a frosh has with Tech and the people with whom he'll be associating during his college career comes sometime during the summer preceding his entrance here. This introduction comes, hopefully, in the form of some upperclassman who has volun-

teered to go out and meet one or two freshmen who live in his area.

The purpose of arranging these meetings is twofold: to attempt to clear up any preliminary questions or uncertainties which the entering student may have, and to allow him to establish an initial personal contact with life here at the Institute. The importance of these summer meetings is difficult to generalize; certainly they mean something different to each freshman.

One quality, however, they usually have in common: the frosh is ready and willing to listen to what the person visiting him has to say. And, what is more, in most cases he's ready to believe it.

This places somewhat of a greater burden upon the visiting upperclassman than he is usually willing to admit. He must be prepared to tell the frosh about Tech life, and he must be prepared to answer the inevitable questions, many—perhaps most—relating to academic matters.

A personal interview is an absolute necessity; a mere letter or telephone call does not suffice.

Next Monday, and for the following two weeks, sign-up lists will be posted on all the house bulletin boards, in Throop Club, and in Lower Throop. Anyone who is interested in meeting a new student during the summer should sign up on one of these lists, and the necessary infor-

(Continued on page 3)

Y Schedules Loyalty Talk, Board Vote

Attorney Discusses Loyalty

Hugh Manes, prominent attorney and member of the American Civil Liberties Union, will speak on security, the un-American Activities committee and the FBI, Tuesday at 8 p.m. in Dabney.

Manes' visit will be sponsored by the YMCA's Public Affairs Commission. The commission has also scheduled a discussion of the loyalty issue for 6 p.m. Wednesday at the training table.

Y Board Election

Elections for new members of the YMCA Board of Directors will be held at 7:15 p.m. Monday at the training table.

A Y cabinet meeting will proceed the elections at 6.

Beavers, PKD Elect Officers

Beavers

Bob Thompson was elected president of the Beavers at a meeting held at Dr. L. A. Du-Bridge's home last week. Other new officers include Frank Greenman, vice-president; Doug Shakel, secretary, and Gary Zimmerman, treasurer.

Debate

Dave Jefferson was elected Pi Kappa Delta president at a meeting last week. Other officers in the honorary forensics society are Cleve Moler, vice-president, and Kip Thorne, secretary.

SATURDAY. When you make your plans for the weekend, remember: where there's life, there's Budweiser.



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The California Tech

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**BRIGHT LIGHTS ...
COFFEE ...
... AND SHOES**

by griffen



At first everybody thought it was a joke. They looked at the little green outhouse on California St. and they laughed and wrote dirty words on it like "EE 2" and "Men" and "Women" in white paint. Then they saw these big, dirty guys putting asphalt on the steps of the campus and they poked each other in the ribs and said how they were probably going to put a huge 707 in the middle of the campus one night and leave it there. A big joke.

And then two trucks with "B. A. Gorham of Temple City, Sewage Disposal," written on the doors, came right up alongside the arcade next to Throop and started drilling tremendous holes next to the columns. It was great — a cesspool right in front of High Volts. I went up to this small wiry guy with glasses sitting on the drill on the back of one of the trucks and I asked, "Whatta ya doin'?"

"Drillin' a hole," he shouted over the roar.

"Whatta ya drillin' a hole for?"

"Put pilins under the foundation of this hea arcade so's it stays up when we tunnel under it. These hea holes are thutty-two foot deep."

"How long does it take to drill a hole like that?"

"Well, I could back off and drill one in about 45 minutes if I didn't have to watch out fer these hea foundations." I looked down and there was a man in a hole about 15 feet down hacking away at the dirt underneath where I was standing. After some further conversation with two reinforcing rod specialists I found that these men were planning to dig a hole 34 feet deep from the flagpole all the way to California St. end of the high volts building, underneath the arcade. Fantastic. Then they are going to put a building into the hole and cover it up with dirt and put all the gardens and everything back over it. I walked over to the two carpenters who were putting up the fence around the school. "How come you're building such a classy fence?" I asked the first carpenter.

"To keep the crowd away," he mumbled sagaciously.

"With plywood?—that's pretty expensive stuff." I thought that there was a good chance of exposing a graft in this whole setup.

"Well, son, it's gonna be up fer a whole year." He walked away to a post that needed some pushing, so I approached the second carpenter.

"You gonna build across that path, there?" I said, pointing to the hole in the fence toward East Bridge.

"Yep—whatta ya wanna know fer?" He looked at me suspi-

ciously. After I explained, he went on. "Yeah, we'll finish this up this week. In a couple of weeks they start excavating.

"You ganno be around after you finish the fence?"

"Yeaeah, we'll be making forms fer the concrete."

"Boy, wow. On a building this size that must be a lot of work."

He looked me over for a second. "Yeah, if ya nevva dunnit before," he remarked subtly. The carpenter's helper came along and using various interesting adjectives (some of which I hadn't heard since the old construction days in New York, and they brought back a twinge of memories), he somehow conveyed the fact that he didn't have any matches. I felt unwanted, so I went up to the Physical Plant.

Nobody seemed to know exactly what was going into the excavation. I was shuttled from secretary to secretary, each one more beautiful than the one before. I didn't question their tactics, and way back somewhere I had the faintest premonition that perhaps I would finally be ushered into a pastel green office, and there she would be, sitting behind that big mahogany desk with the two jaguars at her side. But it didn't happen. Instead, I got to the chief engineer and before answering any questions, he made me take a security test. "Have you been checked out by Boss Cheney?" he asked. "I took my Wasserman last week," I answered quickly and decisively. It was conclusive—he could speak with safety.

"Well, Dr. Lauritson is the sponsor of that thing. It's a 10-megavolt electrostatic generator and accelerator for nuclear research. The accelerator is next to High Volts — the earth will be used for shielding. In addition, the building will house shops and offices for the accelerator. The old High Volts building, which is a shell already, will have five stories. The three top ones will be mathematics, and the bottom two will house the cyrogenics department under the direction of Dr. Pellam."

Bill Benisek: All I want to do is make the world safe for democracy.

Secretary Report

(Continued from page 2)

mation will be sent out over the summer.

Everyone is encouraged to sign the list; but it must be remembered that signing up means accepting an obligation; an obligation not only to see a new student if requested, but to make a real effort to do an effective job.

William R. Bauer
ASCIT Secretary

Grads Chase Cosmic Rays From Antarctic To Thule

BY TOM TISCH

"Wanted: Graduate student traveling partner to go the other direction." Signed "Dr. Nehrer, Physicist."

Hugh Anderson, Caltech grad student, could aptly fill the qualifications for an advertisement such as this.

Last year, while Nehrer made cosmic ray measurements in stationary New Zealand, Anderson was bound for the Antarctic on a Navy ship, measuring cosmic ray variations with latitude.

This year, while Nehrer goes to Moscow, Anderson and Ralph Miles, another Caltech grad student, will go to Thule, Greenland, for another series of measurements.

Although the underlying purpose of the previous trips has been to prove that physics research is fun (see cut), they hope to make some measurements this summer, which, when finally evaluated, will answer questions in the minds of many physicists.

Just exactly what is the sun "doing?" What causes the sun to be more active? What happens in the sun's atmosphere which extends many hundreds of thousands of miles into outer space? These are some of the questions which it is hoped will, at least in part, be answered.

Nehrer instituted the cosmic ray study in 1951 and hopes to continue it until 1962 — an 11-year period, which will correspond to an average sunspot cycle.

This year's trip to Thule is one in a series of trips made there every other year. On the in-between years, measurements from a moving station and readings from a fixed land-based station are made simultaneously.

The evaluation of this data lets one correlate the fixed station readings with the moving



After reaching the Antarctic on last year's ship journey, Hugh Anderson (shown here) and Hudson Holloway were the fourth party ever to climb 13,000 ft. active volcano, Mt. Erebus.

data. One trip to Thule, then, is all that is needed to predict the cosmic ray variations with latitudes, for a particular year.

Thule is ideal for cosmic ray and outer-space particle measurements. It is one of the closest points to the geomagnetic north pole. Here particles of extremely low energies, in addition to those of high energies, can come very close to the earth's surface. Data can easily be gathered using simple balloons and ionization chambers.

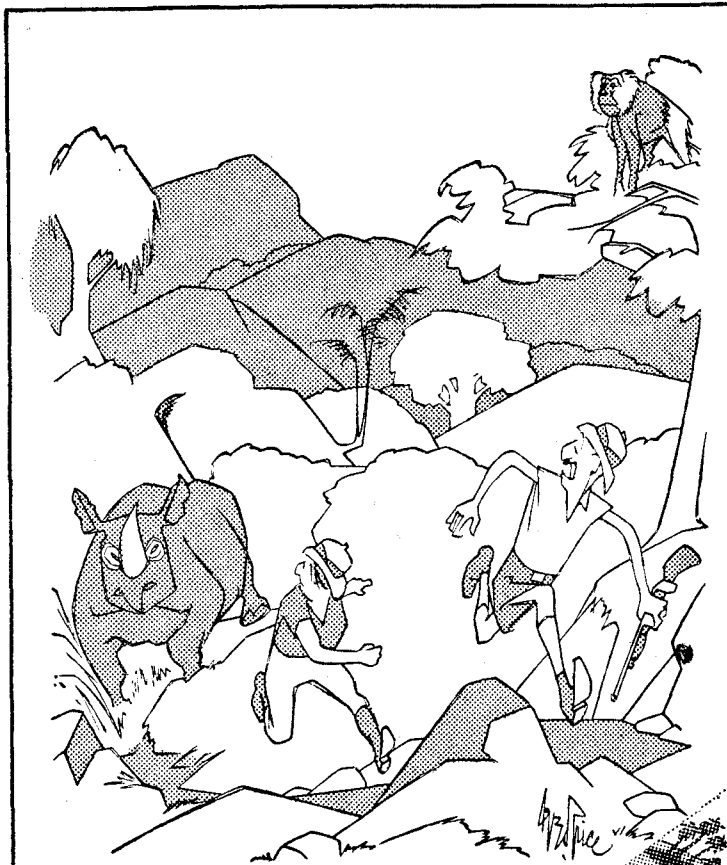
Anderson and Miles will spend about three weeks at Thule, beginning early this July. They will be based at the U.S.A.F. Base there.

An interesting bit of Caltech's philosophy toward graduate students is embodied in their program. It is conceivable that they

could set up a year-round program to measure cosmic rays, then sit back and direct operations.

Instead, the Caltech program provides for graduate students to do their own research individually, and become research directors later.

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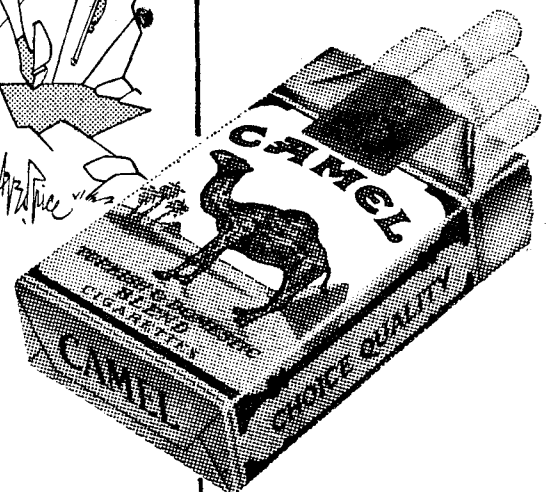


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The Tarnished Ear Columnist Concludes Controversy

By PIERRE SUNDBORG

This week we'll clean up the subject begun last time, record cleaners and record wear. First, a couple of new observations on the ESL Dust Bug. The liquid in the little bottle is principally ethylene glycol. It might be interesting to try cheap glycol instead of the \$1.50 per ounce goo. Secondly, the best way to hold down the rubber suction cup is to moisten it with glycerin. This will hold for a few weeks, after which time more glycerin will be necessary.

Lektrostat

Another popular record cleaner is the "Lektrostat." It is a small circular felt brush which is moistened with the liquid supplied, and then wiped over the record. The liquid, which comes in a squeeze bottle, appears to be glycol. The whole affair sells for \$2.00.

I have two reservations about this device. First, a record should be cleaned before each playing. Because the Lektrostat has to be applied by hand, this means extra time and work every time you play a record. Secondly, I think I detect a whitish residue on the record after the cleaner has dried. It appears to be a white powder, and may be abrasive. At any rate, it gums up the stylus, making it necessary to clean it after each playing. My own conclusion is that the Dust Bug does the job just as well, and is far less nuisance.

Discharger

A metal or diamond stylus slipping over vinylite products an excellent static charge, with the result that a well-played record will attract hair, paper, and dust. The latter is a problem, as it sits down in the groove and acts as an abrasive, leading to rapid disc and stylus wear. Elimination of the static charge would go a long way toward reducing record wear. A tricky little item called the "Discharger" has been designed to meet this problem. It is a small plastic capsule which has embedded in it a piece of radioactive cobalt. The capsule is attached to the end of a tone arm with a spring clip. The radioactive field produced rather effectively neutralizes the static charge generated by the record.

I have used one of these gadgets for about two years. It works. At the end of a playing there is a big job of dust clinging to the stylus which may be brushed away. If you have a good hairy arm you might try an experiment. Play a new record and then hold it near your arm. Your hair should stand on end. Now clip a Discharger onto the arm and play again. Repeat the hair test. There should be no static attraction.

The big problem with this method is that all the dust collects around the stylus where it can abrade most effectively. I would suggest that perhaps use of the Discharger in conjunction with a constantly wiping brush, such as the Dust Bug, might be the best way of keeping dust away from the stylus. This method is for the serious addict, though, as a Discharger plus Dust Bug setup will cost around \$10.00.

One other thing. A Discharger clipped onto your arm looks slightly Mickey Mouse. A more pleasing approach is to remove the cobalt slug from the capsule and cement it to the underside of the cartridge, next to the stylus. This way it will be clos-

est to the record surface, and will be out of the way permanently. By the way, half life of the cobalt is 1600 years, which should result in high resale vaule.

Lubrication

A stylus of 1-mil radius operating at 2 grams tracking force produces a contact pressure best measured in tons per square inch. The result is a lot of friction and wear, a problem best met by lubrication of the contact surface. This is a thorny problem, and would require several pages of comment, something which the editors are not anxious to see in the copy basket. I suggest that anyone interested read the article in the January issue of *Audio* magazine titled, "Record Lubrication Has Con-

siderable Effect!" The author pretty well covers the subject on non-technical grounds. Bob Pailthrop has been trying the silicone lubricator mentioned in the article. See him for details.

Chemist's Corner

One of the best ways of removing dust from a record is to wash it in soap and water. Although this sounds crude, it is effective and highly recommended. Just wash with a clean rag, as if the record were a dirty plate. There is only one problem. Remember why we didn't use Pasadena tap water for cleaning things in frosh chem lab? The same reason applies here. All that solid stuff will settle into the records and gum up the works. If you want to wash records, use distilled water only.



BY JOHN BARRY

The drink of today's columnist has been described as "a Martini with Mickey Mouse punch added." This is a very apt phrase, but somewhat unjust. Properly made, it is a joy to consume and a definite improvement over the Martini, in my mind.

THE GILROY

- 2 parts Dry Gins
- 2 parts Cherry Brandy
- 1 part Dry Vermouth
- 1 part Lemon Juice
- 1 dash Orange Bitters

Let me warn that fresh lemons are incomparably better than any bottled or even frozen juices.

Often when your writer is bartending at a blast, one of his neighbors will stop by and try to cadge a drink from him. As he has usually had a few himself by then, he's in a good mood and usually acquiesces. He has

the quaint habit at such times of taking 1 oz. of everything handy, putting it in a glass with ice and calling it a drink. Heretofore, whatever it was he indiscriminately called it either a DOA or a RIP, standing respectively for "Dead on Arrival" and "Rest in Peace." However, by so doing, he has accidentally concocted a quite good drink, which, hereafter, will be known as the D.O.A.

THE D.O.A.

- 1 oz. Vodka
- 1 oz. Apricot Brandy
- 1 oz. Cherry Brandy
- 1 oz. Lemon Juice

Pour it over ice cubes in an Old Fashioned glass.

If you think it should have it, decorate with a cherry or a twist of lemon peel. Be sure to use fresh lemon juice. Fresh lime juice is also worth a try if you feel experimentive.



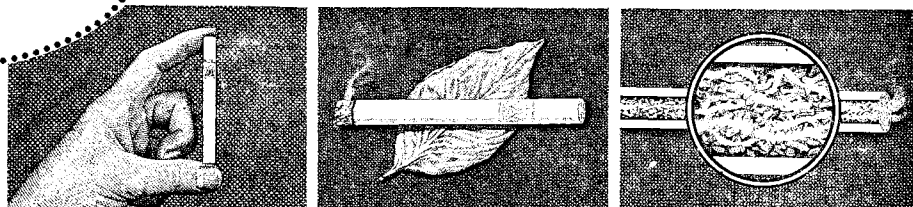
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Brewins



Foryer, Foyer, Fourier
 in keeping with her policy that "Nothing is too good for the troops!" Marvelous Marge has provided the Student Houses with a new and better source of amusement in the form of bright, shiny new trash cans. The past week has seen a feverish hum of activity, as research into the capabilities of the new devices proceeds at breakneck speed.

Preliminary data reveal several fascinating properties, with

the likelihood of new revelations high. As a public service, here are a few of the more useful results of recent experimentation:

Flammability: In contrast to the old trash barrels, the new galvanized jobs show a commendable reluctance to being totally consumed by fires of a trivial nature. However, tests conducted with gasoline show them to be vulnerable to a limited extent. At moderate heat, the tar lining goes up in a dense

cloud of foul smoke; increasing the heat causes the galvanizing to run, producing esthetically interesting flow patterns. The results for thermit are still pending.

Capacity: The new barrels will hold, by actual measure, one helluvalot of water or one slightly compressed frosh, with air, for 10 minutes.

General durability: The new barrels will not tear, and are more or less immune to broken bottles. Sadly, they dent with ease under slight pressure. The results of the tipping, dropping and kicking tests were uniformly unsatisfactory.

Items of interest: The height of the cans is almost the same as the width of a staircase. The tops sail nicely until shapeless. A force of one strained shoulder is required to remove the top. Spinning produces a resonant rumble for at least 30 seconds. Replacement cost is high.

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Jazz Beat

by Lloyd Kamins



Bird — Now's the Time — The Quarter of Charlie Parker. Verve MGV-8005, featuring: Charlie Parker, alto; Al Haig, piano; Percy Heath, bass; Max Roach, drums.

Perhaps this isn't Bird at his absolute best, although I've rarely heard better . . . but who cares about degree when you get off the scale?

That's just it, I suppose . . . Bird is off the scale. Others have blown well and made their own name, but no one has ever been able to compare with Bird, although thousands try through imitation. For the moment, let's say Bird was first. There may have been others, Lester Young, for example, who made significant contributions to the formation of modern jazz as we know it, but for all practical purposes, it was all Yardbird. Since 1940 very few men have come up

with new ideas or manners of attack or expression that have proven to be of any worth.

Bird was so versatile. This album portrays him at his swinging best, but such albums as **Bird with Strings** document his sensitive and delicate treatment of ballads. His tone varies with the nature of the song, coming out with a harsh strident shout on swingers, and using just the most gorgeous sound on ballads. When he blew on something down and funky, that's just what it was, whereas, something way up called for a totally different conception. The same style wasn't superimposed upon all varieties of moods and tempos.

Control Marvelous

Bird was a craftsman, a technician incomparable. His control of his horn was marvelous. No phrase was too fast or too complex. I've never even heard him sound as if he was working. Most good to excellent horn men are not able to play the written notes of old Bird solos without much practice, while the old master just came out with these things, these beautiful, intriguing, imposing little phrases strung one after another with marvelous interrelation.

But Bird was far more than a technician. Perhaps his greatest asset was his lyricism. He was always playing melodies, melodies that hung together, that made sense, and that were, in general, far superior to the great bulk that had been laboriously composed. Many a new song was born in the middle of a Bird solo . . . many a phrase was copied down hurriedly on a matchbook cover, to be expanded into some new riff. If Bird plays at a reasonable tempo, and he often plays slow enough for the listener to catch what's happening without undue concentration, it is obvious that the line hangs together all the way, and at the final product, the finished solo is a unit.

Bird Lives

Bird never repeated himself. He could blow dozens of choruses on the same simple chord changes, and still come up with new and increasingly beautiful ideas. He tended to embellish ideas that he had already stated earlier, just as in any classical work. Perhaps a good example of this is his treatment of successive takes on the same song, only one of which supposedly being for cutting. Here, without any restrictions, Bird seems to be playing another song, while his companions borrow the better ideas of earlier takes.

Most of all, though, Bird had soul, that old undefinable thing. Nobody has been funkier, nobody has been more down. And happiness — well, Charlie Parker blew many an ecstatic note in his day. His lines all had depth . . . they came from deep down inside.

Bird was an artist. Bird was a genius. Bird was a man . . . and he died.

THINKLISH

English: TOUGH INTELLECTUAL

Thinklish: YEGGHEAD

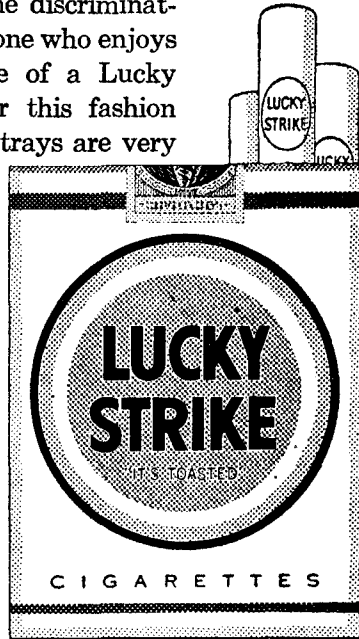
JUNE CASTLEBERRY, LONG BEACH STATE COLL.

English: WEIRDLY SHAPED ASH TRAY

Thinklish translation: In modern circles, the plain round ash tray is considered square—no butts about it. Today's ash trays resemble anything from a Ming vase to a coach and four—the only word for them is *deceptacle!* To the discriminating smoker (anyone who enjoys the honest taste of a Lucky Strike), we offer this fashion note: 25-lb. ash trays are very big this year.

MAKE \$25

Start talking our language—we've got hundreds of checks just itching to go! We're paying \$25 each for the Thinklish words judged "best!" Thinklish is easy: it's a new word from two words—like those on this page. Send yours to Lucky Strike, Box 67A, Mt. Vernon, N. Y. Enclose name, address, college and class.



Get the genuine article
Get the honest taste of a LUCKY STRIKE

English: INDIAN BAR

Thinklish: SWIGWAM

HENRY KLAPHOLZ, CCNY

English: THIN STEAK

Thinklish: SLENDERLOIN

RICHARD COLLINS, WILLIAM & MARY

English: SUAVE PORTER

Thinklish: GRIPLOMAT

PAUL LE VASSEUR, BROWN

English: PAPER FOR BOXING FANS

Thinklish: JABLOID

DAVID TUBBS, ITHACA COLLEGE

Drugs Sundries Cosmetics Tobaccos
CALIFORNIA REXALL PHARMACY
 555 S. Lake SY 2-3156
 Breakfast Lunch Dinner

Tankmen Picked To Win Crown



As I See It

by Russ Pitzer

Swimming Prospects Look Great

From the Caltech fan's point of view, the conference championship in swimming promises to be the best athletic event of the year. The trials were held yesterday, while the finals will be held tomorrow at the Caltech pool.

The varsity team has an excellent chance to win, while the frosh are a sure bet. Occidental will provide the closest competition in the varsity meet; Oxy's poor showing in Saturday's meet was due to the fact that two of her best men were missing.

A lot of credit for this year's success should be given to the hardworking triumvirate of Keith Brown, Don Owings and Gary Tibbetts, all of whom have made great improvements this year under the guidance of Coach Webb Emery. Gary Tibbetts has cut a very creditable 28 seconds from his 440 freestyle time, and has set a new conference and school record of 4:57.4. He also has a 2:17.3 time in the 220 freestyle, which is just barely over the conference record. There is an excellent chance he will surpass both marks tomorrow. Incidentally, Gary is only a sophomore.

Keith Brown, just last Friday, set a new record for both school and conference in the butterfly with a time of 2:27.0. He also holds the school record in the 50 yard freestyle, with a time of 24.3. In the conference meet, the only man even close to him in the butterfly will be Don Owings.

Don Owings set the school and conference records in the breaststroke last year with a time of 2:36.8, and then this year whittled the time down to 2:30.8, as well as setting a Southern Pacific AAU record. He will be gunning for this record again tomorrow, and has a great chance to top it.

The medley relay team of Roger Bland, Don Owings, Bob Blandford and Doug McLane, unbeaten in league competition, is a sure first place winner, while divers Bill McLennon and Pete Rony will probably nail down second and third spots behind Oxy's Harris. In an attempt to top Oxy's freestyle relay team, Brown and Tibbetts have been withdrawn from the 100 yard freestyle in order to swim on the relay team.

Frosh Will Win, Too!

The frosh team has recently been greatly strengthened by the addition of freestyle sprinter Russ Russell, who has done very well, despite lack of practice. He has a good chance to win both the 50 and 100 yard freestyle. Marshall Buck has turned in an excellent 2:37 time in the breaststroke, which is a school and conference record. Teammate Bill Hogan will probably finish second behind Buck.

Gary Turner is a good bet to win the backstroke, his time being better than anyone on the varsity, and Gary Mitchell may do equally well in the 220 freestyle. The medley relay team is a sure winner, while the freestyle relayers are probable winners, as well.

All in all, tomorrow ought to be a fine day for Caltech sports, and if you miss the meet, you'll miss a great show.

Fleming, Dabney Win Basketball Openers

Led by tight defensive play and timely baskets, the Fleming basketball team notched a win in the first Interhouse play this Monday. The Klokemen held Blacker to but four points in the first 17 minutes of the game, while Al Laderman, Dave Resnick and Bob Wax poured in points to build up a big lead. Impressive for the Blacker men was Rick Lindeman, who was effective in pulling down rebounds.

Dabney House also grabbed a win in the opening round of play by dropping Throop Club, defending champions, by a score of 40-35. Former varsity players John Munson and Larry

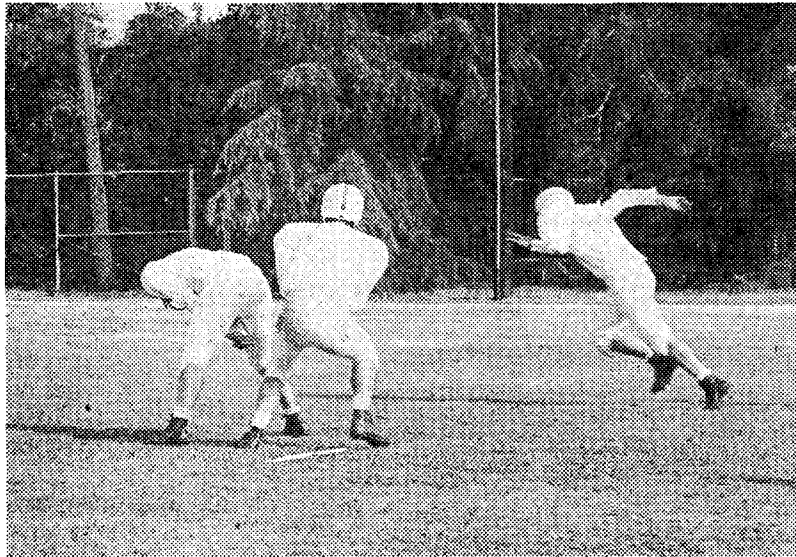
The game was played tightly by both sides, with Dabney's balanced offense providing a lost-quarter surge that gave the Darbs the lead for good. Both teams looked sharp, and will be tough to beat in future games.

Discobolus

Fleming and Ricketts failed to complete their scheduled Discobolus bowling match last Tuesday. After two lines, both teams had one victory. The match will be completed sometime this week end.

Top game of the match so far was turned in by Klokeman Bob Gershman with a score of 195 in the first game. Ricketts captain Judd Haverfield turned in games of 190 and 187 to lead in total pins.

Whether Fleming wins or not, they have almost certainly cinched the Discobolus trophy for this year, as they will receive one point, at least, just for participating. This gives them a one-point margin over Dabney, who will not get a chance to challenge before next Monday's deadline, unless both Blacker and Throop pass their challenges.



Quarterback prospect Frank Marshall is shown fading back to fling pass to lineman Mike Ruecker in spring football drill. A light turnout has been reported by Coach Bert LaBrucherie, but more players are expected out this week.

Baseballers Down Oxy, Split Pair With Cal-Poly

A single by Herm Hartung drove in the winning run in the last of the 10th inning to give the Beavers a hard-fought 5-4 victory over Occidental last Wednesday.

John Walsh, third Beaver hurler of the afternoon, entered the game in the ninth frame and picked up the mound decision, his first league win of the season.

The winners were holding a narrow 4-3 advantage going into the ninth inning, but three walks and a single pushed over the tying Oxy tally, sending the contest into overtime. This was the second extra-inning meeting between the two clubs this year and reversed a previous one-run defeat of the Beavers.

Third-sacker Mel Holland and catcher Dave Blakemore each clipped four singles to pace the lusty 15-hit Caltech attack.

Sunday, the Beavers split a double-header with Cal Poly on the TP diamond, taking the first tilt 7-4 behind the slants of Marty Kaplan, who went the route.

Five big Beaver runs in the explosive sixth inning sealed the win for Kaplan, who scattered only five hits in grabbing the win.

Holland, Walsh, Skip Stenbit and Dennis Kuli each blasted out a pair of hits to lead the batting column for the winners.

Bob Golden gave up only four hits in the second game, but lost by a resounding 6-0. Three

Frosh Ball Team Drops Two Games

Lack of a consistent mound staff, a glaring weakness all season, again proved fatal for the frosh baseball squad as the little Beavers dropped two lopsided verdicts over the past week.

Oxy bested the frosh by a 12-5 count, capitalizing on a big eight-run outburst in the third inning. Joe Blockage, husky infielder, cracked two hits in three at bats to top the losers. John Arndt and Bob Williams contributed a double apiece.

Whittier provided the defeat Sunday with a 12-1 decision, setting back the losers on only two hits. Don Nisewanger, who picked up the pitching loss, and Tom Creighton cracked the only Beaver hits of the game.

walks, a balk, three wild pitches and two hit batsmen marred Golden's effort and provided the margin of victory.

Only Beaver batters to get hits were Buzz Merrill and Walsh. Opposing pitcher Rogers fanned six against one walk in coasting to the easy win.

Beaver Sports

Thursday, May 14

3:00 p.m.—Conference Diving Prelims at Caltech.

Friday, May 15

1:30 p.m.—Golf vs. Claremont-Harvey Mudd at Brookside Park.

1:30 p.m.—Conference Tennis (varsity and frosh) at Oxy.

3:00 p.m.—Conference Swimming Finals (varsity and frosh) at Caltech.

Saturday, May 16

9:30 a.m.—Tennis Finals (varsity and frosh) at Oxy.

12:30 p.m.—Baseball (varsity) at Oxy (2).

2:00 p.m.—Baseball (frosh) vs. Oxy at Caltech.

Interhouse Basketball

Thursday, May 14—Fleming vs. Throop.

Friday, May 15—Dabney vs. Ricketts.

Monday, May 18—Blacker vs. Throop.

Tuesday, May 19—Fleming vs. Dabney.

Wednesday, May 20—Throop vs. Ricketts.

Thursday, May 21—Dabney vs. Blacker.

Friday, May 22—Ricketts vs. Fleming.

Tough Test Ahead From Oxy, Pomona

Conference finals will be held in the Alumni Pool tomorrow. Caltech should once more have a champion team — in fact, two of them. The frosh team, whose major drawback has been lack of depth, should win the conference crown since it is decided on individual places in the big meet.

The varsity is also favored by varying narrow margins to demonstrate their league dominance. Pomona and Occidental seem to be chief contenders, but all of you who long to see a Caltech team win a championship should plan to see this meet — rooters might just make a difference.

Down the Drain

The Occidental threat, minus two key men, failed to materialize Friday afternoon as the Beavers won easily, 59-26. Tech took firsts in everything but the 100 freestyle and the diving.

Both the medley and freestyle relay teams won their races. The reliable trio of Keith Brown, Don Owings and Gary Tibbetts again accounted for most of Caltech's scoring. Tibbetts posted his best conference competition time in taking the 440 as well as winning the 220.

Versatile Keith Brown tied his former school record in the 50 freestyle and copped the backstroke event. Brown also gave Caltech another conference record with a very fast 2:27.0 clocking in the 220 butterfly. Don Owings continued his dominance in the breast stroke.

The star-studded frosh also whipped Oxy 50-34. Buck, Mitchell, Russell and Turner, as usual, led the team to their victory.

Tennis Team Drops Final Dual Match

The Caltech tennis team dropped a close match to the Whittier netmen by a score of 5-4 in action at the Poets' courts last Saturday. The loss was number five for the Beavers, who have yet to nab their first win.

Although the score was knotted at the end of the singles play, timely wins in the doubles matches clinched the win for Whittier. In singles matches, Frank Cormia, Steve Hechler and Dave Butterfield garnered victories. The final Caltech point came in the first doubles match, with Cormia and Carl Morris picking up the win.

Editorial Comment

Sailing Club Recognition?

The Sailing Club recently applied to the BOD for official recognition as a full-fledged varsity sport. The latest action taken was to provide for a "study" on the situation, with a full report to be made by Carl Gotschall and Tom Bowman at the first of next term.

As far as we can see, the Sailing Club definitely deserves some kind of official status. They spend one day a week either practicing or racing, and travel up and down the Pacific Coast, once this year as far north as Berkeley, to engage in regattas. The sailors now stand third in a conference of six schools, and have gone so far as to sponsor their own invitational regatta.

With all they have done, they still have no official recognition as a sport from the Athletic Board or ASCIT. The members still do not receive school letters or awards.

It is the sincere hope of the California Tech sports department that the Sailing Club be made a "legal son" of Caltech.