



At The Sound  
Of The Glissando

# The CALIFORNIA Tech

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The Time Will Be  
Exactly 7:05 A.M.

Volume LXXI

Pasadena, California, Thursday, March 12, 1970

Number 21

## Low-Pollution Car Underway

by Jim Henry

Caltech's Low Pollution Car Race entry has recently taken several strides closer to reality. After some delays in getting official approval for the project, the Graduate Student Council agreed to be the sponsoring group and things got moving again. The big breakthrough was the support offered the group by the alumni and commercial suppliers of the needed materials.

The planned conversion still uses an internal combustion engine. Natural gas has become favored over the originally planned liquid petroleum gas in an effort to cut pollution even more. In contrast to the 1968 Electric Car Race, the 1970 race promises to have many entries with a great variety of vehicle types. With the threat of stiff competition, Caltech students are exploring all avenues in emission reduction.

The alumni has pledged a nest egg which got business operations under way. Orrin Fox, an American Motors dealer in Pasadena, has offered a car for conversion as the race vehicle. Southern California Gas Co. has expressed willingness to help with race expenses, arranging refueling depots, and with the engineering to use natural gas as a fuel. Suppliers of gas carburetion equipment have also shown interest in supporting the project.

With support now becoming available, design and planning are going into the final stages. The group hopes to have its car ready for final testing by the end of June, to allow time to achieve race readiness for the September race.



Author Ray Bradbury will visit third term.

## Y Officers Plot

by E. Gansner

Last Monday saw the occurrence of the Caltech YMCA's election of new officers. Tom Carroll was elected president by acclamation, and in absentia. But he wanted the office anyway.

The other offices were filled as follows: John Bean, vice-president; Dennis DiBartolomeo, secretary; Rich Short, treasurer; and Dave Dixon and Arvind Virmani, representatives-at-large.

Following the elections, a meeting was held between the new officers and Y director Jerry Glashagel concerning some of the events being planned for third term under the auspices of the Y. After many months of effort, it appears that Ray Bradbury will again visit the campus for an afternoon seminar and an evening party. His visit is scheduled for May 16.

### Spring Brings Thing

Two other activities, although not as definite, are in the planning

Please turn to Page Two

## Spring Social Plans Sprung

by Craig Broskow

Despite the title, don't get all worried that your new social chairman is going to abolish the Lost Week-end and use the money saved to buy himself a new car. Rather, I sincerely hope that all changes in the social program at Tech, and there will be some, will be for the best. Some of the things coming next term are outlined below. There will be other things to keep your busy little hands busy, (including, hopefully, girls), but these events are those that have been definitely decided upon for the immediate future.

Probably the most long lasting part of the third-term social program will be the bi-weekly showing of movies in Culbertson. Five Fridays have been arranged for. These are: April 10, 24; May 8, 15, 29. The films tentatively planned for screening are: *The Sand Pebbles*, *Rosemary's Baby*, *Alfie*, *Where Eagles Dare*, and *Planet of the Apes*. The price will be \$.50. Due to rental arrangements, people outside of the Caltech community cannot be admitted. (This does not include, of course, dates, etc.)

### Lost Week-end to Be Abolished?

Contrary to certain rumors float-

ing around campus, the Lost Week-end shall not be abolished, although it will probably be changed to some extent. According to the results of the poll I distributed just recently, (to which almost 200 Techers graciously responded), approximately 50% of the student body want to see Lost Week-end changed, a little more than 30% want to see it abolished, and a little less than 20% would like to see it preserved exactly as in past years.

Therefore, the current plans are to leave the Lost-Weekend concept, but to change the Catalina boat-trip and beach party to an all day, (and all-night for some horny Techers), beach party at a rented private beach. My major objectives are to decrease the total cost to A.S.C.I.T. and to increase student participation by decreasing per Techer cost.

### "The Hex" Be Upon You!

After returning in third term all Techers will be able to participate right away in the new social program. On Friday, April 3, there will be a sort of combination concert and party-party in Culbertson. A new English group, "The Hex" will be making one of its first American appearances. Although a new group, all the members of "The Hex" have been in big name bands. As with past Party-Parties, "refreshments", etc. will be available and everyone, (including dates), will be welcome. There will be no admittance charge. There will also be dancing for those who do bring dates, and for the others, (most Techers), seating will be available.

Well, that's about it. You will undoubtedly hear more about the above in third term, in addition to other events we're wrangling money for. The social program next year will be for all Techers to enjoy. It's my job to find things you'll enjoy; it's up to you to enjoy them.

We wish to appologize to all of our contributors whose articles we could not publish this week. The only limitation has been number and, need we say, availability of staff.

Over the vacation, we plan to assemble a special entertainment section, which will include reviews of numerous recent plays, movies, and records. Contributors are requested to turn in material by Wednesday, March 25.

We will be back April 2nd with another of those CALIFORNIA TECHS you like so much.

Good luck to you all, and enjoy your vacations.

—Phil Neches  
Editor-in-Chief [at last]

## Photo Finish

### Photo ID's On Their Way

by Glen Spain

The long awaited plastic cased photo ID cards are indeed at last coming through. This was much talked about in past years, but for the usual obscure reasons nothing much had been done. Now however, thanks to the work of Mr. Richard L. Mooney and the purchasing department, all that remains is to work out the small details.

In a recent meeting with Mooney, the Registrar Mr. Weldon and other administrators, the student requirements for the card were discussed and the procedure developed to replace the now-existing ASCIT ID cards. At registration for third term you will find, tucked in

an obscure corner in Dabney, several of the camera gadgets that will be used. Each student will have his picture taken then, and they will be processed with a standard form card, cased in plastic on the card and one week later will be distributed in all the houses and in Winnett for the off campus students. The pictures will be in color and should be more than satisfactory for check cashing and credit from the local merchants, who unfortunately have grown to mistrust the old cards.

### Validated

Ordinarily the cards will last one full year and will be validated by either stamps or raised characters in the plastic for each term of the year. Color coding for on and off campus members was discussed also, but discarded for obvious reasons, since so many people move off during the year.

Next September, the old cards will be kept by upperclassmen, but of course freshmen will have theirs done just before leaving for Frosh Camp. In years following, they will probably all be renewed at the same time, and changes added as we become more skillful at this sort of thing. Later the format may be changed to another type of card, similar to an embossed credit card, or possibly even a computer-typed assembly for easier and faster processing. In April, however, they will probably be pretty much like described.

Anyway, be sure to have your picture taken at Registration, and don't forget to pick up your cards a week later. Also, if you come in late or register late, see the Registrar for help, and he will have your card made.

## NEWS BRIEFS

### Uncle Ronnie Wants You: EcoMime

Students will be appointed to certain state commissions, Governor Reagan's office announced. The commissions include the Parks and Recreation, Arts, and Design Award Commissions, the Air Resources Board, the Veterans Board, and the Scenic Highway Advisory Committee.

Nominations for appointments should be forwarded to Miss Sue Sullivan, 14431 Chase Street, Suite 3, Panorama City, California, or to Mr. Ned Hutchinson, Appointments Secretary, The State Capitol, Sacramento, California. According to Reagan, "Your nominations will receive careful consideration."

Think about it.

### Controversial Mime Troupe Returns with Ecology Play

The San Francisco Mime Troupe will appear this Saturday (March 14) at 2 p.m. on the Athenaeum lawn. Admission to this event, which is being co-sponsored by ASCIT and CEAC (Caltech Environmental Action Committee), is free.

The controversial group played to appreciative audiences here last year and the year before. This year, they will present a one-hour "ecology play."

### Graham and Litow Chosen BOC Representatives-at-Large

As usual, reports Bob Fisher, outgoing BOC Chairman, the number of qualified applicants vastly

exceeded the number of positions. Ralph Graham of Fleming and Bruce Litow of Lloyd were selected from a field of about 20 applicants.

Elections for new House Representatives will occur toward the end of third term; however, Ruddock's position on the BOC will shortly open up as Leonidas Guibas moves up to BOC Chairman.

### Stranger Than Fiction Department

Figures released by the Department of Health, Education, and Welfare on some 593 Southern school districts faced with desegregation orders show that most of them use school busing as a means

Please turn to Page Three

Editorial

The Ides Of March

Beware the Ides of March, for evil times are upon us. The food is terrible. The middle east seems on the verge of open war. America's own war in Vietnam continues without end or hope.

Oh woe, ill begotten earth, for dark days are upon us.

Throop Beat

Confunding Powers That Be

by Etaoin Schroedlu

The new, revised Pollution Project is apparently going over very well with our Administration and the funding powers that be.

Deano the Dinosaur

Dr. Huttenback is pushing for a program for loosening the frosh year, for a few selected trolls, by removing requirements currently existing for that year.

H Bar, Now R Bar

The Arbor Day, last Friday, was a success. A large number of people came, and many even helped with the planting of the two trees and the clearing of the area for the People's Park.

things which individuals can do in environmental action. For further knowledge, use the coupon from page eight of the Tech from last week, and get in on the Sierra Club action.

Bod Limitation Talks

I hear of a proposal being circulated among the faculty for the limitation of the number of students to be permitted to serve on any faculty committee to four.

So They Tell Me Dept.

The committee for studying the parking facilities still hasn't gotten off the ground. . . In addition to the points I made last week, it would be very nice if those individuals and organizations who litter the campus with posters would assume responsibility for taking them down after the fact.

The Third Wing

Souphanouwho?!

by Nick Smith

Do the names Souvanna Phouma and Souphanouvong mean something to you? If not, you'd better do a little studying, because they may soon be as important to you as the names Ky, Thien, or any of the others involved in the Vietnam war.

In the late Fifties and early Sixties, if you had asked an Asian expert where the United States might get involved in an Asian war, he would have snapped back "Laos."

During 1962, there was a Geneva conference assuring the neutralization of Laos. The subsequent conflict in Vietnam eclipsed the fact that the Laotian problem had been sidestepped, not settled.

In point of fact, the North Vietnamese withdrew about 1% of their troops out of Laos, and the United States eventually replied by giving impressive amounts of military aid and direct air support to the Loyalist troops.

The Pathet Lao are much like the Viet Cong, including many holdovers from the old war of liberation from France. Led by the Leftist Prince Souvanouvong, the Pathet Lao have long been in control of a large part of the country.

there is a spring Pathet Lao offensive, backed by a few North Vietnamese regulars. This offensive gains moderate ground until resistance by government troops stiffens.

Unfortunately, Souvanouvong has started putting rocks on his end of the see-saw. Almost two full divisions of North Vietnamese troops are now involved in the main fighting, and they brought tanks and heavy artillery with them.

Public feelings in the United States are running against intervention now, but the Nixon government may have to choose between what the people want and what is best for the country.

MORE Y PLOTS

Continued from Page One

stage. One, called a Spring Thing, would involve fifty to sixty guys and girls at a UCSB beach conference. With no strict leadership planned, it should prove to be a time to relax and have fun.

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Thursday, March 12, 1970
Volume LXXI Number 21

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Notice how cleverly the Look photographer portrayed the scholarliness of Dr. Jeniroy LaBelle, Caltech's first female professor. A feature on Dr. LaBelle graces the current issue of Look. In case you are looking for the photo which should accompany this caption, try the far right-hand column of this page. -Photo by Douglas Jones

Advertisement for the movie 'Oliver!' featuring Columbia Pictures, 'Best Picture of the Year!', and 'Winner 6 Academy Awards!'.

Advertisement for 'Carmen McRAE AND THE FOURTH WAY' featuring Paul Butterfield Blues Band and Doug Weston's Troubadour.

Advertisement for 'THE MUSEUM' at 103 So. Fair Oaks Pasadena, an international folk dance cafe.

**The Tech**



**About Town**

This is the last look into the Magic Mirror for a while, so look harder than usual. Otherwise, just useless letting it emanate, doubtless. Club type stuff follows, no age limits.

Ash Grove, at 8162 Melrose Ave., has Ramblin' Jack Elliot until the 15th. Co-featured are the Morris Brothers, campaign singers for the ill-fated Yablonski.

Golden Bear, at 306 Ocean Ave. in Huntington Beach, has the Dillards and Buffalo Nickel until Sunday, the 15th.

The Ice House, at 24 N. Mentor, has Denny Brooks, Bill Sandiford, and Dunn & McCashen until Sunday. See Frets and Frails for the review.

Shelley's Manne-Hole, at 1608 N.

Cahuenga (down with Cahuenga jokes) has Bill Evans until about the 22nd, with Eddie Harris starting on the 24th.

Doug Weston's Troubadour is at 9081 Santa Monica Blvd. Carmen McRae is there, and also check out their ad nearby (below?) somewhere.

The Whisky A Go Go has Renaissance and Salt & Petter until the 15th, and if you don't read The Ear Speaks, you will never forgive yourself.

The following are presumably all concert-style events, and in order of location.

Royce Hall, at UCLA, has a busy schedule. Tonight, Yuji Takahashi gives a recital. On the 14th, Pete Seeger is in concert, and on Sunday, something different. The California Chamber Symphony is featuring Bill Cosby as guest soloist in a memorial concert for Dr. Martin Luther King. After that, things are quiet until the 26th and 28th, when Marcel Marceau appears.

San Fernando State College Gymnasium has Savoy Brown, the Flying Burrito Brothers, and Linda Ronstadt in a pillow concert on Friday on Friday the 13th for four bucks a ticket.

The Pasadena Civic Auditorium is also busy, with Burt Bacharach and Lou Rawls in a benefit concert on the 14th. The Pasadena Symphony presents an Easter choral program on the 18th. Peter, Paul, and Mary appear on the 21st, followed by a triple-header on the 28th, with the new Righteous Brothers, Belland & Somerville, and Casey Anderson.

Cal State Fullerton has the Paul Butterfield Blues Band, Savoy Brown (demoted to second feature) and Elvin Bishop in concert on the 14th.

The El Camino College Auditorium has Andres Segovia in concert on the 18th, near the intersection of Redondo Beach Blvd. and Crenshaw Blvd. Les Danseurs Africains follow on the 20th.

The Dorothy Chandler Pavilion of the Music Center features Andres Segovia on the 20th and 22nd, with Van Cliburn on the 29th.

The Santa Monica Civic is strangely quiet, except for the appearance of Jose Feliciano on the 20th.

The Long Beach Arena features Glen Campbell on the 20th, along with Jackie de Shannon. On the 21st is a spectacular, with Chicago, the James Cotten Blues Band ("Cut You Loose") Norman Greenbaum ("Spirit in the Sky") and the Grand Funk Railroad. The echoes from this last until April 4th, when the Moody Blues, Poco, and the Steve Miller Band appear.

The Long Beach Auditorium has Peter, Paul and Mary on the 20th.

The Olympic, at 18th and Grand, has another Fillmore-style dance-concert, with the Quicksilver Messenger Service, Ten Years After, Smith, and Eric Mercury. It's all on the 21st.

Finally, Led Zeppelin drops into the Forum in Inglewood on the 27th.

The Mirror has gotten blurred, so that's all for now, but remember, from the other side of your mirror, you may be a reflection.

**The Ear Speaks!**

by Nick Smith

This is a new column, to be devoted to spot news and stuff that doesn't fit anywhere else.

Anyway, the reason for the mention in the Tech About Town is because of the group, Renaissance. Basically, it is a new idea based on the Yardbirds, (remember them?) because it includes what was left of the Yardbirds once Jeff Beck, Eric Clapton, and Jimmy Page left to form their own groups. Keith Relf, Jim McCarty, and Paul Samwell-Smith are the former Yardbirds, and added are Keith's sister Jane Relf, Lou Cennam, and pianist John Hawken (formerly of the Nashville Teens who did a hit version of "Tobacco Road" which some of you may remember). Keith and Jane do most of the vocals so far, and Keith does the lyric writing. From what people are saying, it's good.

For record lovers, there are two major announcements. The first is that by the time you read this, the new Crosby, Stills, Nash and Young album should be at your nearby record store, since it is being released today. The second is that the Juarez (Baker Street Irregulars) album may be at record stores by now, if Decca's schedule hasn't changed again.

**News Briefs**

Continued from Page One

of enforcing segregation. Only seven of the districts would have to increase busing to desegregate: the remainder would either have the same amount of busing as they do now, or, in the cases of almost 300 of the districts, would do less busing.

**The SCUBA Club Exists! Glub.**

The Caltech SCUBA Club reports that not only has it been formed, but is seeking and accepting new members. If interested, see Alan Breakstone (45 Fleming) or Chris Bajorek (305 Steele). A series of beach dives awaits members in the coming term.

**Guitar Mass**

The Caltech Newman Club will hold a guitar mass in the Y Lounge (upstairs, Winnett) this Sunday, March 15, at 7:00 p.m. All are invited.

**Notes and Comments Department**

Power of the press: we will have photo I.D.s. - All ASCIT elective offices have been filled. It took only three elections. - As far as we know, there are still no plans to put

Please turn to Page Four

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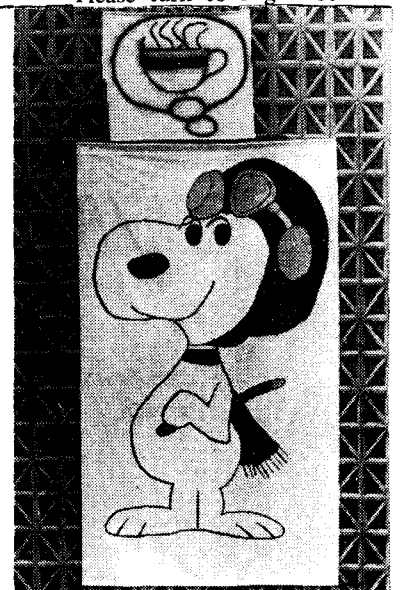
THINK

COFFEEHOUSE !!!

The Coffeehouse will be open through this Saturday, and will close for finals and spring vacation.

We will re-open the Sunday before third term registration [the 29th].

-Friendly Coffeehouse Managers



**What's so special about Beechwood Ageing?**

We must be bragging too much about Beechwood Ageing.

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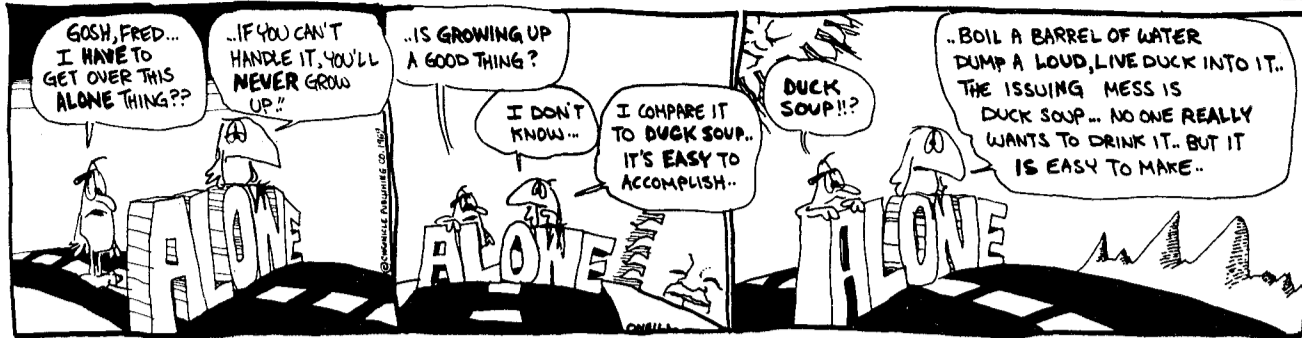
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**News Briefs**

Continued from Page Three

a burning cross on top of Throop for Easter. - For campus-wide uniformity, the Ride will be played at 7:05 on KFAC-AM (1330 kHz), immediately after the news. - The glee club escapes to Hawaii on Sunday. - A movie of the Glee Club tour is slated, and may eventually appear on television. - Caltech is now famous. See the current issue of *Look* for details. Thank you, Jenijoy.

**Postscript: Post Posts**  
**Notice of Poetry Reading**

"So, you missed Jon Post's fantastic poetry reading in Winnett on Tuesday because you were snaking? Don't despair, flick it in at

4:00 - 5:00 p.m. April Fool's Day (Apr. 1) for an instant replay, by popular demand. Also, bring \$1.50 for autographed copy of book." - Jon Post

**Hopefully, Everything Done, Smith Says**

Dr. David Smith, Master of Student Houses, told this reporter that the work of the Users' Group on the first increment of the Old Houses Renovation has been successfully completed. All of the plans have been drawn, furniture ordered, and details ironed out.

Construction will start just after the end of third term, and, if the outside contractors and suppliers stay on schedule and no unforeseen strikes or catastrophes occur, all will be ready before first term.

**The Merry Tales of Jacques Strop**

by Richard Short & Ghost

The Caltech varsity tennis team won a league match for the first time in four years by edging Whittier five to four last week. Coach Lamb called it a "fine team victory."

Many of the matches were so close that the match had to be continued Friday. The next day, they lost [9 0] to Pomona.

**Ghotis Finish Third**

Tech's swimmers ended their season on a successful note last Friday, finishing third in the SCIAC Conference Championships.

**Battered Rugby Team Loses**

The few uninjured veterans and the nucleus of next year's team were defeated 5-34 by the U. C. Riverside

team. The last Rugby game of the year will be here Saturday against Pomona.

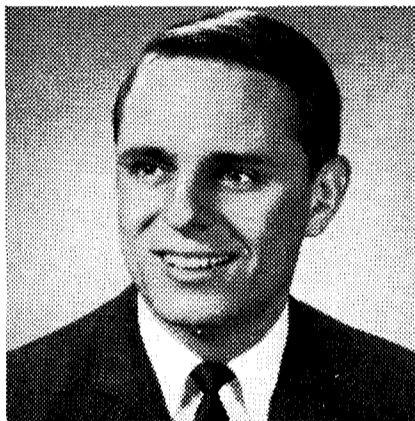
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**Bill Manser**  
graduated in 1967  
with a B.S. degree in  
Industrial Engineering.

After an intensive training program, Bill became an IBM marketing representative. His job: selling computer systems.

**His technical background is valuable**

Many of Bill's customers are involved in scientific and engineering applications. "That's where my engineering degree really pays off. I can come to grips with technical details without losing sight of the overall picture."

**Marketing is solving problems**

But, as Bill points out, there's a lot

more involved in marketing at IBM than just selling a product: "I sit down with the customer and learn what his information handling problems are. Then, I have to analyze his total operation in depth.

Only after weeks—sometimes months—of analysis do I recommend a specific computer system that will answer his needs.

"One of the best things about my job is that I get to deal with people at the top. Company presidents. Decision-makers. And my work helps them make multimillion-dollar decisions.

"I have a partner and we operate as a two-man team. IBM believes that small teams generate more and better ideas. So do I."

**Visit your placement office**

Bill's is just one example of the many opportunities in marketing at IBM. For more information, visit your placement office.

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**"My engineering degree helps me sell computers."**

