



Walter Karabian on the Olive Walk.

Photo by Ctein.

Where's YOUR Bike?

Bike Ring Smashed

by Jeff Mallory

An anonymous phone call Monday evening precipitated the demise of yet another bike theft ring by campus security. The call, received by Officer Ted Wiley, warned security that three males, two tall and one short, were headed for Tech intending to rip off some bikes. The informant also said the trio would be driving a green Oldsmobile convertible and that he was calling because they had his bolt cutters and he didn't want to get involved in a crime.

Officers Wiley and Daniel

Stevenson found the car in the undergrad parking lot, and followed two subjects who fit the phoned descriptions. After observing them with the bolt cutters, the two were apprehended, questioned, and turned over to the Pasadena Police.

Some interesting facts came up during the questioning: They gave the name of the third person; all three were from USC and the same fraternity house; they said they've taken 44 bikes from Tech; and somewhere in Pasadena there is supposed to be a garage full of stolen bikes.

Harcourt Fenton Mudd III?

Geophysics Ground Broken

by Peter W. Beckman

Following the "Old Caltech tradition of starting a little bit late" ground breaking ceremonies were held Tuesday for the Seeley G. Mudd Building of Geophysics and Planetary Sciences. Although the sky looked somewhat foreboding, about 200 persons attended the ceremonies which were held just west of the gaping hole that formed the sole reminder of the glory that was once Culbertson.

President Brown opened the ceremony with a welcome to those who had braved the sudden cold spell to attend. This was followed by some remarks by Dr. Arnold O. Beckman, Chairman of

the Board of Trustees; a short speech on the importance of "Geophysics and Planetary Science at Caltech" by Dr. Eugene M. Shoemaker, Chairman of the Division of Geology and Planetary Science; and one about seismology at Caltech entitled "Departure from Donnelley" by Dr. Clarence R. Allen, Professor of Geology and Geophysics.

Expensive Seismometers

At the end of these remarks, President Brown introduced members of the Mudd family and presented them with souvenir seismometers. He also recognized the gift of Mrs. Roland W. Lindhurst which provides funds for the Helen and Roland W.

Karabian Tells Of Prisons, Candidates

by Etaoin Schroedlu

"There is no way that President Nixon is going to get more than 44% of the vote in 1972. Everyone who could possibly vote for him at all voted for him in 1968. The Democrats will win in 1972." "Do you really think that Scoop Jackson for Vice President would make a ticket more likely to win? I think that either Muskie or Humphrey could win with a vice-presidential candidate more liberal than they are, and that's what the people want."

Do the above sound like comments of a politician? Maybe not, but they are; Walter Karabian, the speaker, does not fit the stereotype political image. Karabian was on campus last Friday for an Olive Walk Talk on

Prison Reform, and his discussions in the Caltech YMCA Lounge and on the Olive Walk covered the penal system, politics, Caltech, and other topics. (Other aspects of the single topic?)

Prisons and Other Strangers

Karabian has been very concerned about the penal system and penal reform in California, and is a member of the California Assembly's Select Committee on Prison Reform. "When I was Assistant District Attorney in L.A. County I was responsible for sending a considerable number of people into our penal system, and I wanted to find out what was happening there." The Committee "didn't just hold hearings in Sacramento and call in the various prison

officials to hear about how much progress was being made," but went out to the State prisons, such as Folsom, and took testimony from prisoners, medical personnel and employees; as publicity grew, various former prisoners and employees also volunteered to testify. What motivated Karabian's concern for the prison situation? "I believe that when a court sentences a prisoner it takes away his civil liberties, but the law does not state that the prisoner is also to be submitted to insufficient medical care, a homosexual sort of environment, or forced rapes or beatings," so there is no legal, let alone humanitarian, basis for these other activities. "We put people

Continued On Page Four

The CALIFORNIA Tech

Volume LXXIII

Pasadena, California, Thursday, March 9, 1972

Number 21

Lear And Steam Car At Ramo

by Phil Neches

Bill Lear, "the man who not only invented the impossible, but made it pay," spoke about the progress his firm is making in developing a steam turbine car to a capacity crowd at Ramo on Monday. He said that his goal is to "develop a smog-free automobile—even if it takes the last of my wife's millions."

Lear's goal is not just to build a steam turbine car which pollutes less than internal-combustion autos, but one which costs less as well. Several breakthroughs may bring his dream closer to reality.

Cuts Costs

For example, the rotors used in the prototype engines cost something like \$90 each, and the engine design calls for two of them. Using a new manufacturing technique, Lear hopes to produce the rotors for 96 cents a pair — "That's what I call a reduction,"

he said. Also by using air bearings at 50 cents each in place of ball bearings at \$3 to \$4 a throw, Lear hopes to produce the entire turbine for under thirty dollars.

Lear's engineers are working incessantly to improve the efficiency of the engine. For example, the turbine will have an efficiency of 0.74, compared with 0.60 for more conventional designs. The condenser (radiator) fan was redesigned to boost its efficiency from 40% to 65%. Every bit of efficiency gained in the engine means less horsepower used running the auxiliaries and more horsepower delivered to the wheels.

Conquer Pollution

One of the problems Lear reported consisted of simultaneously minimizing emissions of hydrocarbons, oxides of nitrogen, and carbon monoxide. A design which minimized two of them caused the third to skyrocket. Finally, Lear's engineers hit on schemes for burning the fuel

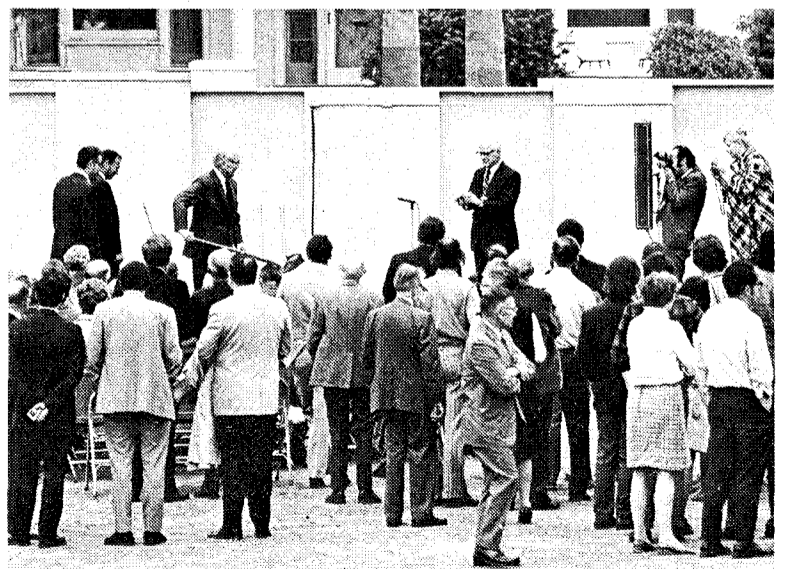
below 2000 degrees F., which resulted in emissions well below the 1975 standards.

Another engineering problem arose in the design of a water pump which had to run at variable speeds, circulating fluid at over 1000 degrees at 1100 psi pressure, and use no oil. (Oil would form a thick insulating film in the pipes, and thus ruin the engine's efficiency). Lear's men solved the problem, producing a pump which is 85% efficient in the process. Lear indicated that the pump would have applications in the chemical industry, where pumping fluids without polluting them with lubricants is often vital.

And Noise

Lear will deliver a prototype steam bus to the San Francisco Muni sometime in April for a month's testing. He said that one of the major advantages of his bus is that it is much quieter than conventional diesel buses (69 dB as opposed to 91 dB from the

Continued On Page Four



Dr. Arnold O. Beckman turning dirt into Mudd.

Photo by Ctein.

Lindhurst Laboratory of Experimental Geophysics, and the Department of Health, Education, and Welfare which gave the Institute a million dollar construction grant for the building.

Finally, everybody who was anybody got a chance to do some superficial damage to the soil with the conveniently provided gold painted shovels, and the affair gradually broke up as everyone began drifting away for lunch.

More Mudd for Your Money

The new building is intended to help consolidate some of the closely related activities of the Geology Department that are

Continued On Page Four

Later Drop Day?

by millikan troll

Acting on a proposal from the Undergraduate Academic Standards and Honors (UASH) Committee, the Faculty Board voted to recommend to the faculty that Drop Day be moved back to one week before the last day of classes. The UASH proposal presented at Monday's Faculty Board meeting originally called for pushing both Drop and Add Days to the last day of classes of the term.

The Faculty Board passed an amended version of the UASH Committee's recommendation on Drop Day, apparently deeming it easier to set Drop Day a week earlier than the UASH proposal rather than worry about dealing with the many cases of finals handed out during the last week of classes. However, they did not pass the proposal to move Add Day.

The matter now goes before the faculty, probably to be voted on at the regular faculty meeting next term. In any event, the policy probably will not go into effect until next academic year.

They What?

The Academic Policies Committee presented the case for greater encouragement of student research to the Faculty Board. Some concrete proposals ranged from instituting a "research major" to allowing substitution of research units for some required courses.

Unbeknownst to many (and ahead of the announced schedule), the Registrar's office has quit Throop for Dabney. They now occupy a niche on the first floor. The Alumni, Graduate, and Deans' offices are still expected to move over term break, while there is some speculation that the Admissions office will wait until some of the dust of the admissions season has settled before moving.

Grant Talks

This year's Haynes Foundation Lectures will be given by the famed educator and psychologist, Dr. Jerome Bruner. Dr. Bruner's recent work in perception, learning, memory, language acquisition and problem solving in infants up to two years old has attracted national attention.

Not surprisingly, his lecture topic will be "The Nature and Uses of Immaturity."

The lectures are paid for by the John Randolph and Dora Haynes Foundation, which supports research in social sciences. In the past, the Haynes Foundation lectures have brought such luminaries as John Kenneth Galbraith, Barbara Ward, Joseph E. Johnson, and Elting Morrison to campus. The current set of lectures will all be in Ramo Hall at 8:15 p.m. next Tuesday, Thursday and Friday. Admission is free.

The Winnett Center Committee held one of its rare meetings last Tuesday, and some changes came out of it. First, Clubroom Two will be converted into a TV lounge, and the color television now in the Lounge will be shipped upstairs. Secondly, the Committee is seeking a young faculty member to act as a coordinator for the various activities in the building (and as a liaison between the building users and the administration). Also, we hear that the Big T and ASCIT will swap offices in the near future.

Some longer-range plans were discussed, including creation of a Coffeehouse, possibly in what is now the gameroom. The gameroom would, under such a scheme, be consolidated with the Fleming gameroom.

Top of the Week

A plan to keep the Bookstore open late one night a week with student labor on an experimental basis is in the works... Campus Security nabbed a ring of bike-stealers the other night... a paint-in to adorn the rather stark fence around the upcoming Geophysics building may materialize early third term.

This column bids farewell to a Tech editor of two-year's standing and a good friend, Paul Levin. He enters the Navy this coming Monday for six months of active duty, followed by grad school. The best wishes of the entire newspaper staff were conveyed to him, along with the Perpetual Order of the Etaoin Shrdlu (with oak leaves and clusters).

ASCIT Of Hugg

TV To Clubroom Two

by Jim Hugg
ASCIT Secretary

The BOD is on the move and so far the action has been hot and heavy. The ASCIT Coffee Hour is being resurrected. Early in third term this popular event will be reborn as a meeting place for faculty and students, an occasion of stimulating discussion, and a source of infinite donuts, coffee, tea, hot chocolate, etc.

On Tuesday afternoon the Winnett Student Center House Committee met for the first time in almost four years. Representing ASCIT on this committee are Morin and Hugg. The committee heard ASCIT proposals and ruled favorably on all of them. First, the committee agreed to meet once per term, or more often if necessary. Second, the committee approved ASCIT's plans to move the TV to clubroom 2. Meetings may still be scheduled in that clubroom during the day and until 5 p.m. The TV watchers will take over the clubroom at that time. This move will permit a more active use of Winnett Lounge. Teachers may play the piano, use the record player, or just discuss without fear of invoking the wrath of the hard core boob tube crowd.

Another ASCIT proposal which received approval is the planned move of the ASCIT office. ASCIT will trade offices with the BIG T—little t staffs. The BOD will establish some reasonable open door policy for the new office which will permit

you to have more direct contact with the BOD.

Perhaps the most significant decision of the Winnett Committee was to reactivate the administrative post of Coordinator of Student Affairs. The BOD will submit to Lyman Bonner three or four names of young, enthusiastic faculty members as candidates for the post of Coordinator of Student Affairs.

Today's agenda (4 p.m. Winnett):

1. Bookstore. The BOD will appoint a committee to work with the Director of Financial Services to set up student jobs and establish more reasonable hours for the bookstore. The committee will also submit proposals for long range improvements of the bookstore, including a study of the feasibility of a co-op system with student controls.

2. Co-op Housing. Dave Smith is the invited guest and will report to the BOD on his recent investigations into the feasibility of establishing co-op housing near the campus. A committee will be appointed to work with him on this plan.

3. Coffee Hour. Director of Student Life, Jim Price, will report on the details of the coffee hour, which will be coming soon.

4. Faculty Board Report. Joe Morin and Sharon Spivak will report on the vote of the faculty board concerning drop/add days.

5. Winnett Student Center Housing Committee report. Joe

Letters:

Baxter Art Complaint

Dear Editors:

The Tech's letters column has recently been embroiled with a discussion of public obscenity. To my mind the object of that discussion was less important than another example of public obscenity on campus.

I am referring to the current exhibit in the Baxter Art Gallery. I have seldom seen such a revolting display of "art" as is down there now. To my mind the best thing that could happen to the exhibits would be to have them burned.

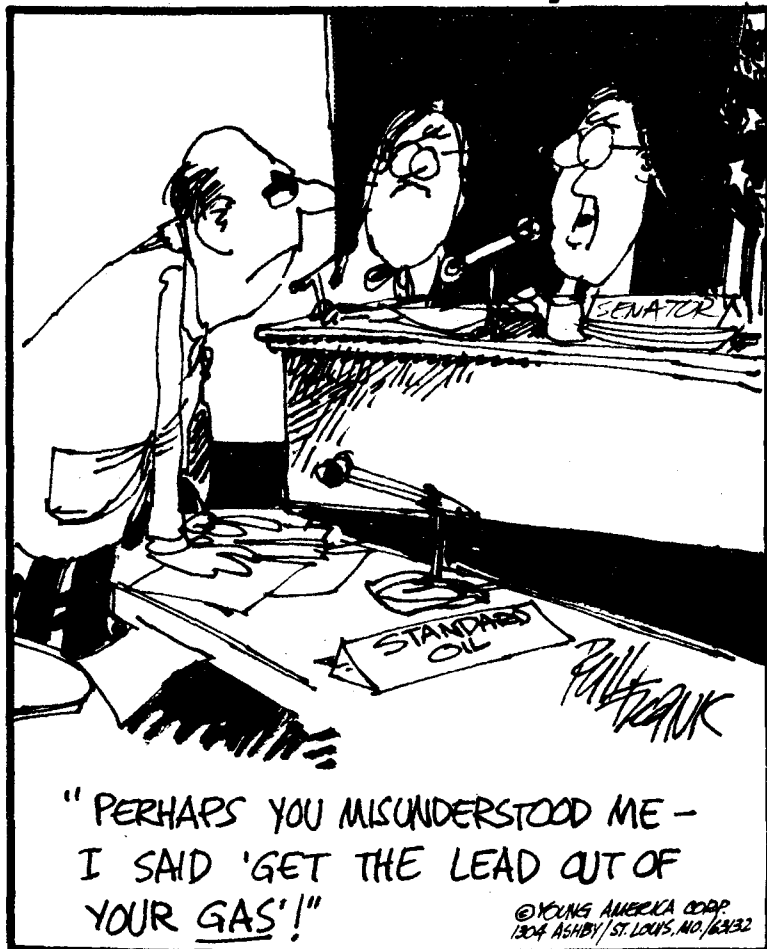
I have always been under the impression that Caltech strove for excellence in everything it did. I can not believe that the contents of the gallery are excellent, let alone tolerable. If nothing better can be found for the gallery I strongly suggest that it be left empty or given to some group that needs the space such as Campus Security or the telephone room.

Sincerely,
Paul A. Levin

Morin & Jim Hugg will report on the details of the decisions reached at the committee's meeting. The BOD will set a date for moving its offices and nominate three or four faculty members for the post of Coordinator of Student Affairs.

FRANKLY SPEAKING

by Phil Frank



WHAT CAUSES COINCIDENCES?

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NEXT TERM'S FIRST MOVIE (3/31):

THE MAGNIFICENT SEVEN

The California Tech

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Volleyball Championship: Fleming, Ruddock Fight

Fleming House will try to complete its perfect season in volleyball against Ruddock this afternoon, in the final Interhouse contest.

If Ruddock wins instead, a three-way tie among Fleming, Page, and Ruddock will result. Page, with only a loss to the Flems a mar on their record, has clinched second place.

Dabney has improved greatly over last year, finishing fourth as compared to last in 1971.

Discobolus

Fleming ended Page's streak at twelve successful defenses of the Discobolus trophy, sweeping 4-0 in badminton. Page leads the Flems by 26 points in the year's competition.

Tennis Squad Breaks Even

The loss of Dave Beatty due to injury was a big factor as La Verne edged the Caltech tennis team 5-4, last Saturday.

The key match was the fourth singles, where Dave Dummit, Beatty's erstwhile doubles partner, lost 7-5 in the third set. Dummit led earlier in the set 4-1, and at one point was in position to force the tie breaker.

Defeat Pasadena

Two days earlier, the Beavers breezed past Pasadena College 6-3. Jeff Shellan, Ma Nakatsui, Pat McCrea and Bruce Eisenhart

were victorious in singles play, and the teams of Ken Pischel and Andy Chow, and Dummit and Bruce Jacobsen won their doubles matches.

Two annual tennis tournaments will start at the beginning of third term. The Scott Tournament is open to all experienced undergraduates. The Novice Tournament will accept entries from non-lettermen and non-Interhouse tennis team members only. All entrants should register with Coach John Lamb on the tennis courts.

Baseball Team Victorious Over L.I.F.E. College

by Furdick J. Furd III

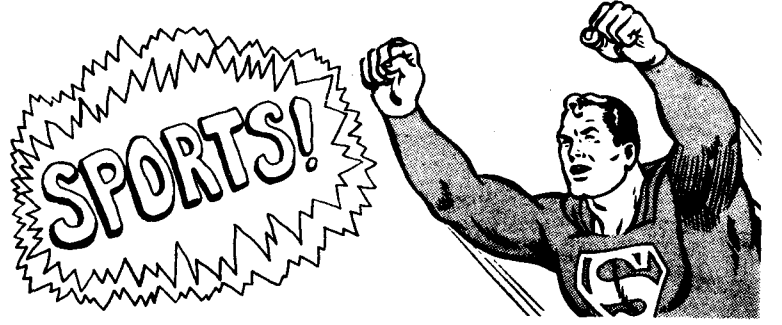
The baseball team ripped apart LIFE's pitching last Saturday, scoring 4 runs each in both the fifth and sixth innings to capture their first season victory. LIFE started scoring early reaching Tech for three runs in the first inning. Tech returned the favor ripping for 2 runs. LIFE scored a run in the second and another in the fifth to bring the score to 5-2 against Tech.

Runs, Runs, Runs

In the fifth Tech sent ten men to the plate, scoring four runs and giving Tech the lead. Pleva started the inning with a walk. Schladweiler reached on an error, Short singled, Smanski singled, Gschwend walked, Stemple reached on an error, and Schnetzer walked. The bases were loaded when the side was finally retired. In the following inning Tech, holding on to a narrow lead, broke the game open with Ellis, Smanski, Gschwend and Stemple all scoring.

Pitcher John Ellis held back the last inning rally of LIFE to preserve the Tech victory 10-8.

Other game results over the week were LIFE 6-0 and Occidental 20-0.



Swimmers Place Fourth In Conference Finals

by Bob Kieckhefer

Tech's swimmers placed fourth in Friday's all-conference meet, narrowly losing to Pomona in their bid for third place. As expected, the major battle of the afternoon was between Claremont and Occidental for first place, with Claremont's swimmers prevailing in the key races. Oxy and CHM swimmers placed first in every race and picked up most of the other top six places in their battle for the SCIAC championship.

Tech's swimmers made their best showing in the two relays. The team of Bob Coleman, Russ Desiderio, Jim Jakway, and Max Kay finished third in the medley relay; the freestyle team of Steve Bitondo, Bob Miller, Jim Jakway, and Steve Sheffield also placed third (in both cases behind Oxy and CHM).

Steve Sheffield led the team

with 25 points, based on a fifth in the 100-yard freestyle and a sixth in the 50 free, as well as being anchorman in the last relay. Russ Desiderio scored 20 points, with a fifth in the 200-yard breaststroke and a ninth in the 200-yard individual medley, in addition to swimming the breaststroke leg of the medley relay.

Team captain Tim Hight was the only other Tech swimmer to place in the top six, with a sixth in the 200-yard freestyle and ninth in both the 100- and 500-yard freestyles, to give him 17 points for the afternoon.

Greg Beall was Tech's other high scorer, with two fifths in diving (for 20 points). Pomona's three divers gave them 39 points in these events, however, and a 19-point lead which Tech's swimmers could not overcome.

The final score of the meet was:

Claremont	464.5
Occidental	427.0
Pomona	146.0
Caltech	138.5
Redlands	83.0

The overall standings for the season, however, show Tech tied with Redlands for fourth, due to Redlands' victory over Tech in their "we wuz robbed" dual meet three weeks ago.

The next event on the swimmers' schedule is the NAIA national meet March 23, 24, and 25. If you plan to be in Marshall, Minnesota that weekend you're invited to cheer on Oxy's team; don't expect to see any Techers swimming there, however.

Li'l Olde Sport Menu

Golf — at Redlands; March 9, 1:00 p.m.

Wrestling — NAIA National Wrestling Championships at Oregon Tech, Klamath Falls, Oregon; March 9, 10, 11.

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News Briefs

Tech Team Takes Putnam Contest

The team of Michael Yoder, Bruce Reznick, and David J. Smith placed first in this year's Putnam Mathematics Competition. They beat 1500 students from 300 colleges in the six hour exam designed to test originality and competence in problem solving.

In individual competition Yoder won \$250 for placing among the top six, Reznick won \$100 for placing ninth, while David J. Smith placed 28th. In addition the Caltech Mathematics Department will receive \$500 for entering the winning team, and each of the three will receive \$100 for being on the winning team.

This is the fourth time that Caltech has won the team competition. Last year the Institute team placed fifth.

ASCIT Offices

Nominations are officially open for ASCIT appointive offices and committees. The following positions are open: Executive Committee, Election Committee, Student's Day Committee, Educational Policies Committee, Game Room Chairman, Darkroom Chairman, Business Mangler for California Tech, Editor for Big T, Business Manager for Big T, Editor, little t, Business Manager for little t, Editor for Totem, Business Manager for Totem.

Nominations must be submitted in writing to Peter Davis (Dabney House) for the Executive Committee and to Jim Hugg (Page House) for all other offices. Nominations will close Thursday, 16 March.

Gay Discussion With Dr. Martin Field

Dr. Martin Field, staff psychiatrist with the UCLA Neuropsychiatric Institute and Chairman of the Board of Directors of the Gay Community Services Center, will talk with the Caltech Gay Discussion Group this Thursday at 7:30 p.m. in the Y Lounge.

Finals Crisis Center to Open

Got the "bends" from finals - help is available in the form of a crisis "decompression chamber" at the Young Health Center. Relax, rap, let off steam with people who understand. Faculty and student counselors will be on hand and refreshments will be served. Place: The lounge of the Health Center. Times: Next Monday, Tuesday, and Wednesday nights from 8:30 to 1:30.

Karabian

Continued From Page One
in jail to discourage other people from committing the same crime," not to make hardened criminals out of them.

Horatio at the Bridge

Karabian is also involved in Democratic national politics this year; he is southern California chairman of the Humphrey for President Campaign. "Assuming, as seems likely, that Senators Muskie or Humphrey are the only Demoratic candidates with a good chance to survive the Convention processes, who would you want to see as the vice-presidential candidate?" This question was not asked of Karabian, but by him of his audience. Several members of the audience suggested that Shirley Chisholm, the Brooklyn woman Congressman, was an ideal candidate on the issues, and was running very well with the people. Such a suggestion would no doubt cause 'regular' party members to cringe and mutter silent pleas to Mayor

Mudd Breaking

Continued From Page One
currently scattered about campus, and it will form a major addition to the Geology complex now composed of Seeley W. Mudd and Charles Arms Buildings.

Within the building will be the usual faculty offices, labs, and libraries, as well as a super-clean lab for the analysis and age-dating of rocks, a unique shock wave lab, one for the study of the high-pressure behavior of minerals, and shops for the fabrication of new geological instruments.

Daley; Karabian looked intrigued. By this time One O'Clocks had arrived, and Karabian ended his talk with the understanding of an old Tech friend: "I know you all have classes to go to, so we'll break it up now."



Lear

Continued From Page One
diesels).

How soon will steam cars be commercially producable? Given two or three more years and 30 to 50 more megabucks, Lear said, and it will be possible. He stressed the importance of continuing to improve conventional engines, however, since even if all new cars are steam cars, that will still leave 100 million internal combustion engines on the road.

Coming next from Bill Lear: a supersonic airplane.

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We challenge the lowest price you have on carpet and uraperies
R Hundreds E from car M size (Black N shag) to the A largest room N size T ALL COLORS S ALL SIZES
FINANCING NO PROBLEM. UP TO 36 MONTHS