

Professor Feynman makes a point in the Y Dinner Forum. Feynman supported the atheistic viewpoint, while ministers Ganse Little and John Baker argued the opposition.

Dinner Forum Argues God

"Theism: Is It Necessary?" was the topic debated by Dr. Richard Feynman, Professor of Physics, Dr. Ganse Little, minister of the Pasadena Presbyterian Church, and The Rev. John Baker, minister of the Neighborhood Church at the Y Dinner Forum, Wednesday, October 31 in the Winnett Lounge.

Little began by stating, "this is not the kind of question you prove or disprove." He defined himself as a Theist or "one who believes in a God who reveals Himself supernaturally." According to Little, the ultimate reality is unknown to man until God reveals Himself. In explaining the usefulness of the Bible, he said that the Bible is not "literally true", for example in the creation of the universe and of man, but tells "the relationship of God and man." Little's argument became that the

(Continued on page 3)

Beaver Grids Down L.A. Pacific Team, 22-13

BY STEVE BLUMSACK

In a game played at Tournament Park, the Caltech varsity football team beat L.A. Pacific College by the score of 22-13 last Saturday afternoon. A fine running game and alert defense resulted in the Beavers' first victory of the season.

Jon Evans spearheaded the offensive drive by running over, around, and through L. A. Pacific tacklers for the amazing total of 193 yards and three touchdowns. Bob Liebermann, Larry Ruff, and Lee Peterson contributed most of the remainder of Caltech's 313 yards in total offense. The line did an outstanding job in opening up holes for the ball carriers. Although the Beavers concentrated mainly on their running game, several pass plays were instrumental in setting up two

touchdowns.

The defense contained L.A. Pacific's fine passing attack remarkably well. Before the game, the L.A. Pacific quarterback was sixth in the national standings for small colleges in the passing category, averaging approximately two hundred yards per game. Their right halfback was high in the standings for pass receiving and scoring. The Beaver defense held the quarterback to only 130 yards passing on 29 passes. The halfback gained only 50 yards on pass receptions, very much below his average for a game.

L.A. Pacific scored twice in (Continued on page 6)

New Telescope More Accurate

Drs. Bruce Murray and James Westphal of the Caltech Geology Department have recently developed a telescope capable of measuring the temperatures of comparatively cold celestial bodies to an accuracy 20 to 50 times better than before possible. This unique device makes use of gold-plated mirrors which reflect infrared heat radiations of about a hundred-thousandth of a meter in wavelength, approximately 20 times the length of visible light.

The main operation of this telescope depends on the reflection of infrared heat rays from gold mirrors to special germanium crystals. Throughout these crystals are mercury atoms which give off electrons upon being struck by the infrared rays. The telescope can cover the visible surface of the moon in about five minutes.

Murray, working with Dr. Robert L. Wildey, used their new telescope to discover that the coldest lunar temperature is at least 30 degrees lower than previously thought. Other measurements of lunar temperature, taken at intervals after lunar sunset, yield these results: after six hours, -206 degrees; after 12 hours, -220 degrees; after 24 hours, -242 degrees; after 48 hours, -260 degrees. After five nights, the temperature dropped below -270 degrees.

Interhouse Plans Set by Houses

The Student House section of the campus has begun to disappear in a mountain of construction materials as building of Interhouse Dance decorations proceeds in six of the seven houses.

Dabney House courtyard has begun to acquire the look of a Lost City as a raised dance-floor projects into the courtyard and a soon-to-be idol in the form of a B & G scaffold hulks in a corner. Construction of interior decorations has already taken over the lounge.

A framework of telephone poles represents the skeleton of a mountain as part of Blacker's Norse theme. Lounge construction has not yet begun.

The Ricketts House courtyard has begun to fill with fan-shaped frames which are to be the body of a 30ft. high dragon with two heads. It will curl around Milikan's pot in the courtyard, then rear its two heads, complete with flames and smoke shooting from the mouths.

Construction of a half-scale model of the Sphinx has started as part of Ruddock's Egyptian Interhouse theme. When finished, the replica will stand more than thirty feet tall. In addition, a pharaoh's sarcophagus is underway in the lounge which will spring open periodically amidst a wall of flame. Most of the other projects have also been started early, as Ruddock expects a particularly elaborate lounge scheme this year.

Water, and the equipment

Goldwater Will Speak At Tech

Barry Goldwater, senator from Arizona and leading spokesman for the current conservative movement, will be at Caltech November 27 and 28 to participate in the YMCA "Leaders of America" program.

According to present plans, Goldwater will eat lunch at Fleming on November 27, after which an open discussion will be held in the Winnett Student Center Lounge. He will eat dinner at Ruddock and will give an address that night on an unannounced subject in Culbertson Hall. The following day Goldwater is scheduled to be questioned by a panel of undergraduates, graduates, and faculty. He will be the guest speaker at the Athenaeum Luncheon Forum and will hold a discussion period in the Y lounge that afternoon. In the evening he will eat at Dabney.

Goldwater has written two books on his political beliefs. *Conscience of a Conservative* is an explanation of present conservative philosophies and *Why Not Victory?* is an attack on the current "no win" policy towards Communism. Goldwater is the center and leading exponent of a trend towards conservatism and moderation which has aroused much controversy among liberal factions.

Goldwater's visit is arranged by the Caltech YMCA with funds provided by an endowment. (Continued on page 3)

for handling it, including pipes, pumps, hoses, and even a small sailboat, is the conspicuous part of Page House's preparations. The planned waterfall is reported to be a success. Set up also is scaffolding which will be the dominant part of the courtyard in the Exotica Aztec theme.

The "Arabian Nights" theme of Lloyd House will be taking shape from an assortment of frames and culverts which as yet present no finished pattern.

Traditionally, no construction has yet begun on Fleming's "Latin Quarter of Paris" theme.

Composition of Moon Sought

Two Caltech scientists hope to find out the moon's composition to a depth of about 500 feet, using seismic experiments.

Francis E. Lehner, senior project engineer on lunar seismology at the Caltech Seismological Laboratory, and Dr. Robert L. Kovach, geophysicist at JPL, disclosed plans today for the development of an automatic system of geophysical oil exploration for surface data gathering. The system would be flown to the moon in an unmanned instrument package.

The scientists propose to obtain subsurface information about the moon by touching off a series of small explosive charges on the lunar landscape, and then, with one or more (Continued on page 5)

CORRECTION

The notice in the California Tech of two weeks ago stating that the YMCA tutor pool is to be run for profit was incorrect. The Y tutor pool is a free service provided for those Pasadena students who cannot afford to pay a tutor for educational help.

Notices

FALL SPORTS BANQUET PLANNED

This year's annual Fall Sports Banquet will be held Monday, December 3, at a restaurant in the Pasadena area.

Tickets will be put on sale next week and will be obtainable from a representative in each House.

For further details on time, place, and cost, check next week's California Tech or contact Bob Liebermann in Ruddock.

BIG T PICTURES

Club presidents and heads of campus organizations who have not been contacted by the 1963 Big T with regard to group pictures should get in touch with Bill Meisel in Ruddock. Pictures must be taken by November 25 to be included in the annual.

VICEROY CONTEST WINNERS

Lawrence Hall and Dennis Oberg each received \$63 for their tie for first place in the Viceroy Football Contest No. 2 for games played on Oct. 20th. The runners-up were Dick Burgess, Nick Ojen, Paul Hu, Wayne Huber, Alan Limpo, Larry Rabinowitz, Frank Schultz, Bill Stalley, and Alvin Young, each receiving \$10.

Outcome of Mudeo Still Much in Doubt

BY KEITH GILLEN

As of this time, the outcome of the Mudeo is still very much in doubt. This annual Frosh-Soph mud brawl will be held at 3:15 p.m. on Tuesday, November 13, on the south side of the football field. The junior class, who will judge the contest, has not decided as yet which class will be victorious.

It is, however, entirely possible that the freshmen will amass such a numerical superiority at the contest that it will be to the judges' advantage to let them win. This is because the sophomore contestants must have a physical checkup (same as interhouse sports physical) before Friday, November 9, at 12 noon, while the freshmen need no such physical. One junior judge even suggested that the team which has the larger number of contestants should be automatically declared the winner; but surely no such unfair method of judging shall be used.

The five competitive events will be a tug of war, a sackrace, a wheelbarrow race, a horse and rider brawl, and a tire spree.

Complete rules for each of these events and general rules for the Mudeo have been posted in the student houses. Anyone interested in competing must sign up with one of these officers before 11:00 a.m. Friday. The complete lists of competitors must be turned in to Don Terwilliger, Junior class President, by 12:00 noon, Friday. Members of either class who are out for a varsity or frosh sport that is underway at the time of the Mudeo are ineligible to compete. Hence the Mudeo truly measures the depths of athletic talent in the competing classes.

All undergraduate classes should be called off at 3:00 p.m. for the event, but organic chemistry lab will undoubtedly remain open. The competitors will get P.E. credit for the day, so there is even motivation for competing.

Finally, an urgent warning is necessary. If the number of bribes given to the Junior judges does not increase tremendously in the next few days, the winner may have to be decided on the basis of the contest alone!

Editorials

Dig Down Deep

Twice each year, Caltech students are requested to dig into their wallets and come up with donations to support campus and off-campus groups. In the spring, ASCIT holds its annual Charities Drive to support charities such as the Pasadena Community Chest. This drive has usually met with little success.

The other is the Caltech YMCA's annual finance drive, which begins next Monday.

Although student donations make up only about 5% of the total YMCA income, prospective donors have a tendency to measure student interest in terms of student financial interest. As a result, outside donations seem to rise or fall as student donations rise or fall.

The Y has carried on a complete program of activities to fill the void left after humanities and science courses are subtracted from everything. As a brief reminder, the Y originally brought Brown and Nixon to campus this year (and has not been reimbursed anything by ASCIT for it); sponsored the Y Dinner Forum series, including the provocative discussion on religion last week; will bring Senator Barry Goldwater to campus in a few weeks; and will sponsor programs on many other topics in the fields of religion, public affairs, and arts.

We feel that the Y deserves all the support possible in its single attempt to raise funds for this year. The Y you save may be your own.

—Richard Karp
J. C. Simpson

Improve Totem

A couple of weeks ago the **Tech** printed an editorial encouraging some changes to save **Totem** from joining in the fate of its predecessors. Since that time some progress has been made; an editor has appeared who has some experience with past **Totems**. After an enormous amount of effort and pleading to the students, he will probably produce an issue toward the end of the year.

This, however, is not enough; **Totem's** troubles are much more serious. Each year this magazine is met with increased apathy on campus. And also, each year there are fewer and fewer people willing to contribute in any way to its composition.

Caltech is not a school which has a large interest in literary topics, and material to fill a purely literary magazine will always be difficult to obtain. Even if ample material were available, however, it would be very unlikely that more than two issues could be published, because of the present policy of no advertisements and the consequent high expense which must be supported solely by subsidies.

There is, however, plenty of room at Tech for a magazine, and a more than adequate audience. If **Totem** changed from a purely literary magazine to a humor, satire, and literary one, it could solve a lot of its problems. The interest on campus would be considerably greater, and contributions should be much easier to obtain, as there are quite a few students who would be more than eager to write humorous or satirical articles, especially pertaining to Caltech.

In addition, **Totem** should incorporate advertising and become at least partially self-supporting. Advertising would not be difficult to obtain for a regularly appearing publication and with this additional income, an enlarged and improved **Totem** could appear once (or maybe even twice) a term. Organized along the lines of the other campus publications, the new **Totem** would be a welcome and popular addition to Caltech.

—J. C. Simpson
Richard Karp

LETTERS

Rumor has it that about 250 Caltech students "heard Feynman" last Wednesday night in Winnett Lounge. This is a strange tale, for if I remember correctly, two other gentlemen appeared there with Dr. Feynman. Did no one "hear" them?

Of course it happened that the other two gentlemen were ministers, so I suppose that we can be excused from having not "heard" them, although, again if I remember correctly, they spoke about as many words as did Prof. Feynman. Everyone knows that ministers and other such superstitious persons are not worthy of being "heard," for anything which they might have to say can clearly be adjudged, in advance, to be nonsense.

It occurs to me that this is a strange attitude for scientists to take, for Dr. Feynman himself said that one of the basic attitudes which scientists have is humility before truth and before any claims made about truth or before any sources from which it may come.

Associate Secretary, YMCA
Tom Huff

Editors:

Last week's editorial, "Lock-out," contained several implications about the Parents' Day campus tours which I would like to correct. The Parents saw far more than "the Winnett Center, . . . and Throop Hall" mentioned by the editors. In fact, through the cooperation of a large number of people, they actually saw more than any other group of visitors in the past year. The most spectacular addition was the Synchrotron; Dr. Walter arranged the lab work schedule so that the parents could walk onto the main floor, up the stairs beside the machine, and out past a portion of the controls; regular visitors have not even been allowed in to the old visitors' gallery for over a year.

Similarly, Dr. Waser arranged for both frosh chem labs to be open, and the astrophysics office gave us two keys to the 1/10 scale model of the Hale telescope on the roof of Robinson. Finally, the Physical Plant employed an extra custodian to open the outer doors of these and other buildings.

In spite of these preparations, the stories of locked doors were not entirely unfounded, but neither were they as frequent nor as serious as might have been inferred from the editorial. They can be split into two cases: buildings and labs. The labs are the most quickly disposed of: due to the fact that the Athenaeum luncheon broke up fifteen minutes early, the first two tours starting down the north side of the campus arrived at frosh chem lab ahead of the custodian. No other previously arranged-for lab was found locked by the guides, and the other seven tours did visit frosh chem lab. The locked building situation is more complicated. Due to incomplete communication, not all side doors were unlocked; moreover, ever-vigilant occupants of the buildings relocked some of the doors that had been unlocked (the custodian unlocked Bridge three separate times). The obstacles thus raised were surmounted in various ways. In at least one instance, a guard let a group in; other times doors were opened from the inside by grad students or technicians; finally, two guides were equipped with sets of keys to certain buildings (these keys are normally used to give Saturday guided tours to the general pub-

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From Other Campuses
by Richard Karp

It is about time to return to the paper of our so-called "sister" institution, the MIT **Tech** for October 17, 1962. The **Tech** has been noting the terrible situation with regard to bikes parked on sidewalks. In fact, the paper notes that "The Cambridge Police removed 40 bicycles from the Harvard Square area last Thursday morning. The raid was a result of a safety drive by the police."

"The raid was conducted by Sgt. John E. McCarthy using a pickup truck and an eight-man task force . . . When Capt. Edward Tierney was asked where students should park bikes he answered, 'That's their problem.'"

"According to the Harvard **Crimson**, Tierney also plans to crack down on Radcliffe girls who 'make a game of trying to stay on the white line in the middle of the road' while riding along (Arden Street. From now on, claimed Tierney, 'Girl, bike, and little green bag are going to get a free ride to Central Square, via paddy wagon.'") It seems to us as if the honorable police captain may have discovered a new way to get dates.

Dirty Songs at MIT

The same issue of the **Tech** reported on a song book issued by the "East Campus Social Committee." The **Tech** noted that "Those who desired copies of the book were permitted to choose from two versions. Version A was intended for use in mixed company; Version B included a section of additional songs for all-male gatherings."

"The song book became an object of controversy as soon as Dean Fassett obtained a copy . . . Objections to the book were twofold: First, it was felt that such a publication might create

a bad impression of the Institute among outsiders; second, the taste of any student-government organization in printing such a book was questioned.

"On the other hand, Dean Wadleigh pointed out that many members of the administration had sung the same songs when they were undergraduates."

Shades of "Songs of Raunch and Ill Repute!"

B & G At Georgia Tech

The Georgia Tech **Technique** notes in its October 19 issue under a picture of a street sign bearing the names "Power Plant Drive NW" and "Sub-Station Dr. NW" that "What ever happened to names like 'Uncle Heinie Way' and 'Brittain Drive'? (Of course there well may have been a Dr. Simon Sub-Station or a Professor Powell Power Plant.)"

Ugly Buildings?

The Stanford **Daily** does not necessarily believe in long term planning. Rick Seifert writes on the new Physics building: "Nestled between the 'tank' and a wasteland turned weedpatch, the new Varion Physics Laboratory is perhaps the worst single piece of architecture to blemish the Stanford Campus since Stern Hall."

"The color of the building making a completely ineffective attempt at matching the Quad's sandstone hue . . . a color that falls somewhat between an infectious yellow and a nauseous orange has been swabbed on the exterior of the building. Hence the feeling conveyed to the viewer is not aesthetic but rather anesthetic."

Movies Worst

Another issue of the Georgia Tech **Technique** reports on a
(Continued on page 4)

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Editors-in-Chief

Richard Karp, J. C. Simpson

Managing Editor

Alan Hindmarsh

News Staff

Buzz Bernstein, Walt Deal, Don Green, Ken Kimball,
Wally Oliver, Dave Price

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Gene Fellner, editor

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Steve Blumsack, Dennis Holt, Dave Ollis, Hal Petrie,
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Business Staff

Lee Molho, Manager

Circulation: Howard Monell

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graduate rattle

BY FLETCH MURPHY

The Marxist Socialite Revolution is still rolling at high speed with parties and organized athletics every week—activity unheard of in a grad house. One of the explanations offered is that the house is composed mainly of first year graduate students and that there will probably be a return to general apathy toward extracurricular affairs after the first term grades are posted. Many observers would like to see them do very well on the grades, however. Enough action isn't being taken to encourage curve-breakers out of their rooms on week-ends.

More Goldwater

(Continued from page 1)

ment to Robert A. Millikan. Its purpose is to bring interesting personages to the Campus. Past "Leaders of America" include Bishop Pike, Margaret Mead, and Martin Luther King. Other programs will be presented later in the year.

Dinner Forum

(Continued from page 1)

existence of God must be believed by faith.

Baker prefaced his remarks by saying, "I assume that most of you are either atheists, agnostics or indifferent or consider yourself so." He stated that God is an inadequate symbol of the power of justice and love in the universe.

In opposition Feynman argued that Theism is not only unnecessary but detrimental to man's understanding of the universe. He stated that Theism in some cases limits the search for reality by providing a too simple solution, which relies upon supernatural powers, to a problem.

Each speaker was allowed about ten minutes to give his opening remarks, which were followed by a rebuttal period and questions.

Letters Concluded

(Continued from page 2)

lic). If all else failed, it was necessary to walk around to the main entrance of the building in question.

In general, however, the buildings were unlocked, and the few locked doors resulted primarily in inconvenience, rather than the severely circumscribed tour implied in the editorial. The tours, taken in their entirety, succeeded quite well in giving the parents a more than adequate view both of the campus as a whole and of those parts which are intimately connected with the freshman year, and I would like to take this opportunity to thank those who helped make arrangements for it.

Don O'Hara
Head Guide

Editors' note: A request to investigate the nature of the "Graduate Committee on Political Education," which is sponsoring a William Buckley speech, is being worked on. A letter on this committee will be in next week's Tech.

Charmack the Magician
P. O. Box 118
New York 9, New York

Professor Millikan last week-end held his annual reception for the aeronautics faculty members and graduate students at his hilltop palace, and you can bet everybody came. Caltech doesn't need aero students, but I'm sure they could double the applications if this affair were described in the catalog.

Hats off to the victorious football team and the bonfire builders and the fireman who trained the hose on the crowd and let the fire burn. Hats are off to the fireman because he provided entertainment for a lucky few of us who happened to be on the side of the street he didn't spray.

Every few years men come along whose presence ruins carefully laid plans to abolish woman suffrage on the grounds that women are too emotional and not logical enough. A number of signs were seen about Pasadena which read "Vote NO for Governor".



Brewins



While on a midnight trip to get some edible goodies last week, Beak happened to reach the SE corner of Boor-man's Pantry (Fair Oaks and Orange Grove). There he noticed arrayed in stately order soups, pickles, instant coffee, canned sardines, and various punch bases. The remarkable part of it is that all this was crammed into a space not much bigger than the elevator to the Pit in Robin's Egg. Beak is totally mystified by the psychology that

would produce such a permutation of the goods in a grocery store. From other Tekstaffers, Beak understands that the same store possesses two (2) packages of Brandon nicotine sticks; these are carefully rotated from checking stand to checking stand in an effort to cause some hapless customer to buy them. Good luck, Boor, in all your undertakings.

Beersteins Sunk; Rhine Totally Blocked to Navigation

While at an orgy at Cool Peter's Pad Saturday night, several

of the residents of Ratlick House took to the thalassic joy of the swimming puddle; among these hardies was beloved Tek-editor Krap. Upon observation of House Nothing Shtienblinger being forcibly towed to the middle of that Oh! Most joyous! body of water, TeK cannonballed his chubby little bod along after it. The shock wave thus formed swamped Stypopper of above repete, causing him to take a slow, slow, elevator-like ride to the bottom of the puddle.

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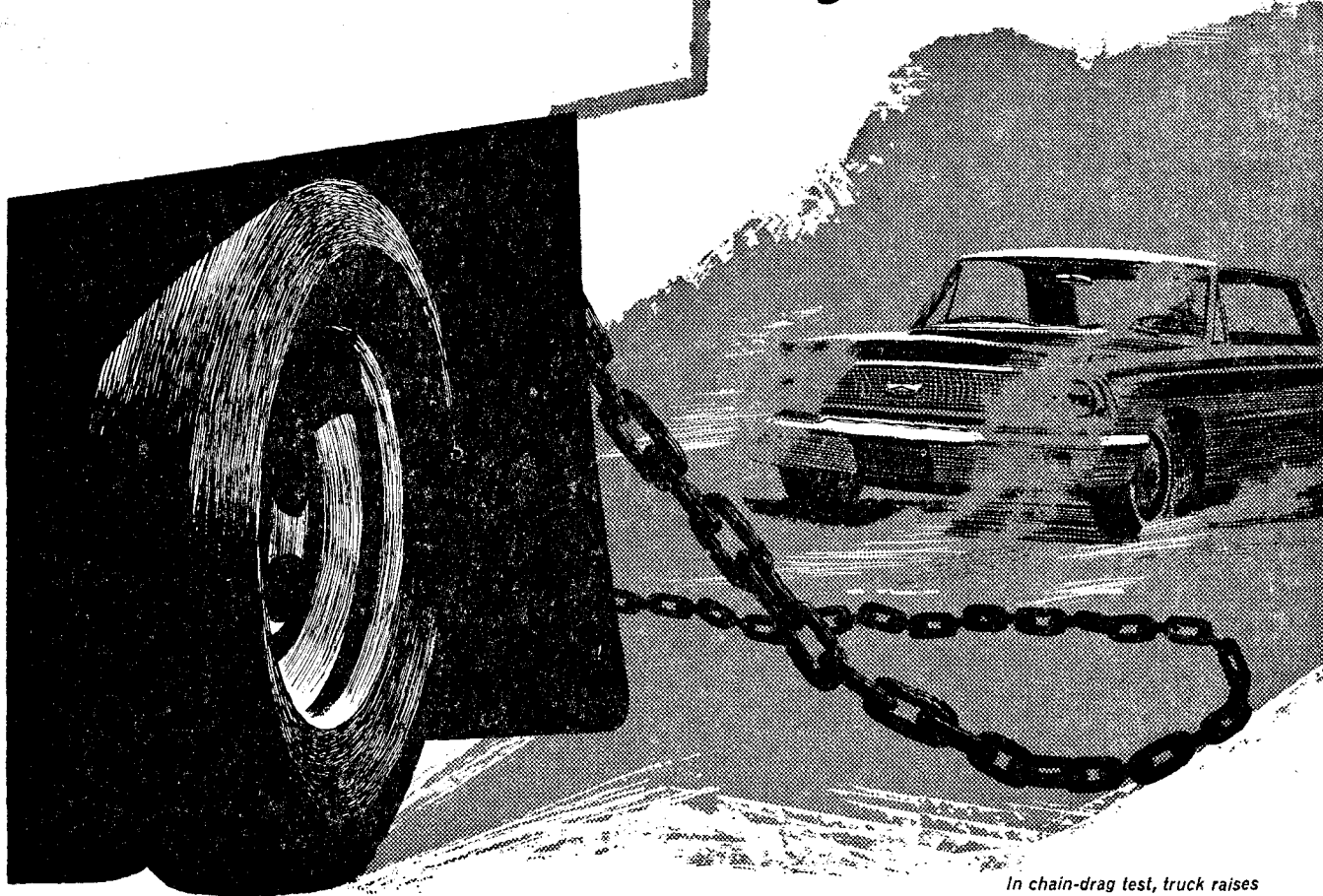
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More Campuses

(Continued from page 2)
movie reviewer who has developed an extraordinarily new method of rating movies—he awards more stars for a poorer movie. The review notes that a certain movie, entitled "Sweet Ecstasy," is a low-budget, poor movie. The rating is a total of 86 stars and 18 prescription Rx's on three pages. The reviewer seems to feel somewhat strongly against the movie.

They Lose!

For those interested, Rennselaer has now lost its 23rd football game in a row. Considering that we just won one, I don't feel so badly.

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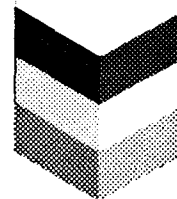
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