Doctor, Students Discuss ASCIT Research Project

by Roger Goodman

The Caltech-MIT electric car race and the ASCIT Research Project (ARP) received a boost last week. Warren M. Dorn, a Los Angeles County Supervisor whose district includes Pasadena, visited Caltech to discuss the race and to give his support for both. Other participants were Wally Rippel, building contractor in La Canada, and the ARP coordinating committee, and Alan Bennett and this report of the Tech staff.

The meeting was arranged through the offices of Dr. Robert Oliver, Associate Professor of Economics and a Pasadena City Director, in the hopes that the support which MIT students have received in their locality could be duplicated here. Dorn, who has long been concerned with air pollution in this area, is eager for further research on battery-powered vehicles. He expressed hope that Caltech’s role in the race and the ARP would receive backing and cooperation from the County Board of Supervisors and the Air Pollution Control District. (APCD), a county agency.

Rippel reported on the progress of the race. MIT has a department of vehicles and has built a streamlined body for its electric car, which also has the ARP's sophisticated electronic equipment, permitting charging time to be 20 minutes instead of Rippel’s 40. He is looking on the reliability of battery-controlled vehicles as a basis for further research on battery-powered vehicles. He expressed hope that Caltech’s role in the race and the ARP would receive backing and cooperation from the County Board of Supervisors and the Air Pollution Control District. (APCD), a county agency.

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Harris Critizes Selective Service

by Lewin

In the wake of recent changes in draft policy, between seventy-five and a hundred students of the Caltech community attended a talk Monday night by David Harris, ex-student body president of Stanford, and presently a member of the California student group organizing noncooperation with the Selective Service System.

Harris, who is presently awaiting trial for refusing induction spoke on the conscription system and the basic tenets which make it possible. He upheld the view that young men between the ages of 18 and 26 are the people on whom a war is fought for all practical purposes. The present system, he said, is run through a lottery system, the fear of being drafted forces many young men to choose their future occupations on the basis of their interests, but by what skills will they keep them out of the military.

Reiterating the thesis that the end justifies the means, Harris demonstrated that the United States, presently is highly undemocratic, due to the lack of cooperation in order to protect it. He said that the only real way to rectify the situation was to build one’s life around humanitarian principles. This was why he decided to fight the draft by noncooperation with the system.

Harris looks forward to a more successful and structure, and progress of the ARP, emphasizing that the race and the ARP are not merely for publicity but to involve the public in the battle against smog. Noting that cars account for 80 percent of Southern California’s smog, Garet told of the ARP’s efforts in gathering existing data on smog from sources such as the AICD. It is theoretically possible to eliminate smog very soon, but community support and a change of public thinking are required. He mentioned other aspects of the ARP, including cooperation from other colleges, the student research associates, and the training of lab technicians.

(Continued on page 2)

Putnam Exam CIT Second

Caltech placed second in the 28th annual William Lowell Putnam Mathematical Competition. The winning team was from Michigan State University.

Three seniors comprise the Caltech team: Gregory L. Schwenk, George K. Bohrenblust, and Alfonso Garet of Stanford, and presently a member of the California student group organizing noncooperation with the Selective Service System.

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Sein Oder Nicht Sein

The boom has finally been lowered. Selective Service is here. The masses of middle class white America, previously safe in the hallowed of undergraduate and graduate institutions, and thereafter in "essential industry," must now make a decision. And, just as it has done, in proportion to the power structure and large numbers of young people is occurring. The National Security Council, for President Johnson, has decided that first-year graduate students, undergraduates, and those under 26 years of age working in American industry, will no longer be guaranteed draft deferments. Furthermore, since the policy of Selective Service is to draft the oldest first, the above-mentioned individuals will, in a large proportion, be inducted into the United States' Armed Forces.

Three choices are available to them. The young people can follow the dictates of their elders and continue the war in Vietnam; they can put on some facade of conformity, or they can resist. In short, today's young liberal generation has the opportunity to put its principles on the firing line. This is why the current situation is good.

Dave Harris of Stanford and draft resistance fame spoke to the third alternative on the Olive Walk Monday. Though his ideas might be termed impractical, and though his notions of world history might be a bit muddled, his philosophy and aims rang out clearly.

The United States Government, meanwhile, offers the alternative of helping further this country's foreign policy. There is no amount of help.

The other path, "coping out," is the one which most individuals seek. They talk about leaving the country, becoming conscientious objectors, or just hoping that their local Selective Service Board will grant them over. Regardless of the legality or each of these procedures, we cannot avoid saying that those who follow them are avoiding the basic problem of directly advocating support or non-support of United States foreign policy, and also of the Military Manpower Act of 1967. We should say, though, that if a sufficiently large number of individuals follow the path of leaving the country, the net effect politically would probably be one of passive and open resistance.

This is the first time in our memory that a huge segment of the college-educated people in the United States will have had to defend its views to the hilt. We hope that the decision of the liberal young people will force the Administration to its knees. The young people can support or non-support of United States foreign policy, and also consider such a move. ASCIT's moves are made with an eye towards politics rather than towards the good of the student body. ASCIT's functions, however, cannot be abolished along with the political body. What follows is a proposal to do just ASCIT's functions under a non-political organization.

The only body which truly represents the vast majority of undergraduates is the IRC. Since it is composed of the seven House presidents, it has a diversity of opinion that ASCIT cannot gain. No single member can dominate the IRC, and so each House member will receive fair representation. The members of the IRC are more sensitive to student feelings, and are more able to judge (and be influenced toward) what the students really want, instead of what someone who serves on ASCIT, as we propose that the primary duties of ASCIT be under the IRC, and that ASCIT be obliterated.

The primary objection towards the IRC serving in this capacity is that it does not represent all the students. This is true, but it represents all House members, on and off campus. The number of undergraduates who are not House members and who devote interest in the campus is small indeed. With ASCIT abolished, one, and only one group would be representing the students.

The IRC would take over the majority of ASCIT's duties, including representing potentiential candidates such as putting on some sort of social program. This program would be run by the House social chairman, thereby reducing the amount of work each man has to do, insuring that the campus social program would not interfere greatly with the House programs, and, above all, insuring that there would be a social program. Other functional members such as an activity chairman, comptroller (to handle finances and budgeting), secretary, games chairman, etc., would be appointive, non-voting members attached to the IRC.

The SOC chairman would be elective, but would be independent of the IRC, and would be the EPC. These bodies could then function, as they should, free of any external political influence, sensitive to only the desires of students and faculty. The research project would be relegated to what it actually is, merely a club, and not something which truly represents the vast majority of undergraduates is the IRC." —Ed.
McMaster Set For Discussion Of Scientology

"Scientology Examined: A Valuable World View for Scientist?" is the title of a Scientology lecture to be presented Thursday, February 29 at 12:00 noon in Winnett Lounge. The same subject will be the topic of an open student-faculty discussion at 4:00 p.m. in Winnett Lounge.

Johns McMaster, the first Scientology "clear," will be the speaker, under the joint sponsorship of the Caltech YMCA and the Caltech Scientology Group. His lecture will be an examination of the Scientology view of modern man and his world with (Continued on page 4)

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USPSA Editors Wreck Parley In Washington
by Tom Carroll
USPSA's Annual Editors' Conference for this year (see Feb. 1 issue) was not so much a blot upon the Association as it was an illuminatory commentary upon the maturity of the delegates who attended. This recognition has in part been the result of a more stimulating program than that adopted at the conference last year. But the usefulness of the deliberations was cut short for most of us when the event present caused the conference's collapse. They were not "irreparable losses," but supposedly mature campus editors.

I spoke briefly with the conference's coordinator, David Lloyd-Jones, Saturday night. By then, I had convinced myself that the expectations I had before the conference concerning the goals of the deliberations were the intended ones. I had also spoken to a few of the delegates who more or less produce a conference that would help me explore my ideological motives for sitting in several hours a week turning out the Tech.

Director preceptive
This year the conference's director intended to meet my requirements. Yet, I was not preceptive enough to realize that the objective he had in mind was an analysis of the actual condition of the world as it is today and the discussion which will be had around it concerning the theme "Alternative Futures and Present Choices." It is obvious, however, that such a devastatingly broad topic could not have been completely covered in a four-day parlance. But a basically unstructured event at which were accumulated all the necessary raw materials could have easily set any reasonably intelligent man thinking in the right direction. It would have provided an excellent springboard from which an editor could have drawn his own conclusions.

All these ingredients were present at the opening of the discussions. The raw materials were clearly there. But the usefulness had to be determined wholly by the active inquiry and participation of the delegates. Here the program failed.

Not business
Understand, the delegates apparently wanted to play the different popular American game of doing things without a motive brain. The delegates apparently produce newspaper for the sake of producing newspapers, not for the sake of informing the public by elucidating facts behind occurrences. Don Porter from Tulane and his followers gave me the impression that they just didn't have enough to realize that the obloquy because of the affair. This reporter does not think that was a particularly bad idea, because it is a blot upon the Association.

There were claims that USPSA had been hotly debated recently because of the affair. This reporter does not think that was necessarily a good idea, but he can envision a few administrative headaches for the Association. Besides, for example, I can certainly think twice in the future about allowing USPSA to hold a convention in their meeting halls. Senator McGovern in the future would hesitate before accepting an USPSA invitation to speak. But USPSA is too big a dynamic to diagnose with the application of a few mallevolent forces.

Towering Eyeful Death Be Not Proud
by Creaney
The National Shakespeare Company's production of William Shakespeare's Romeo and Juliet presented by the Orange County Performing Arts Foundation at the Carousel Theatre (West Covina) was far from extraordinary. The intrinsic beauty of Shakespear's tragic love story was present, but the passion, the intensity, the exuberance of love, of sorrow, of hatred were lacking.

Romeo (Stephen Coleman), son of Montague (Michael Aronson), could have very easily made known his wish to marry Juliet (Joan Weisberg), daughter of Capulet (Terry Terheyden). If the Montagues and Capulets had not been disposed to violent hostilities toward each other.

The joy of their secret marriage was shortlived though, as subsequent developments had severe consequences.

First of all Tybalt (Stephen Harrigan), the bitter nephew of Capulet's wife (Elaine Salka), who had become involved when Romeo attended the Capulets inner party, sought the revenge of Rome's blood. Romeo tried to avoid conflict, but Tybalt was set on it.

Here Mercutio (Michael Aronson) intervenes on his friend Tybalt's behalf, but is only killed by the blade of Tybalt's rapier. Romeo becomes enraged and kills Tybalt in madcap vengeance. Meanwhile Capulet has planned Juliet's marriage to Paris (Arthur Hofstot), Kinsman to the Prince. When Juliet learns of Tybalt's death by her lord's hand and of her father's plans for her marriage, she is overcome with despair.

Hoping to escape the planned marriage, Juliet takes a potion which simulates death. Romeo goes to the vault and finds Paris there. They fight and Paracelsus is killed. Thinking Juliet dead, Romeo drinks a fatal potion. Juliet awakens to find Romeo dead and takes her own life with Romeo's knife.

Mr. Aronson is superb as the interpretive and gallant Mercutio; Martha Mills stands in her role as Juliet's nurse. The leads are not extraordinary.

Scientology
(Continued from page 3)
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Loyola Captures Debate Crown; Tourney Survives Computer

by Dock

It is generally thought that a computer just does what it is told; it is the human element that causes all the mistakes. The Fourth Annual Caltech Computer-Controled Debate Tournament was a perfect example of just such a situation.

The decision regarding which teams compete in the elimination rounds is determined by a mathematical formula rather than a straight win-loss record. This formula takes into account not only a team’s win-loss record, but it’s opponent’s win-loss record, it’s speaker ratings, and the difference between the team’s and it’s opponent’s speaker ratings.

In past years teams that would not have competed in the elimination rounds if the decision had been made on the basis of win-loss records have made it into the elimination rounds of the Caltech tournament simply because they met better competition. This year was no exception. Nor was it expected to be. Louise Speak and Cal-State Fullerton entered the elimination rounds while Cynex and Bridges of the same school didn’t. Normally the exact opposite would have been true.

Until this year the computer had determined the outcome of the elimination rounds after the preliminary rounds and had done so accurately for at least 15 of the 16 (final) teams. This year the computer was correct for only six of the 10 teams.

First place went to Jim Silles and Jeff Schwachman of Loyola. Second place was taken by Clate Fisher and Elden Rosen- tental of UCLA. Eric Hansen and Brian Berni of Loyola tied third place with the team of Ron Cotter and Bob Cory of Stanford.

Expert Considers Project

(Continued from page 1)

spend some time with, say, one’s girlfriend or be involved in cultural events. One needs recreation. There is one cushion, the lack of time.

“Here there is another cushion. The students make certain rules or set up certain policies. One idea is to involve as many students as possible. That is always very difficult, of course, because if one has a little project, it is usually carried out by one or two or three people.

“Making a study is a third cushion. Just to start out by throwing something together might make a good science fair project, but the day of reckoning comes when one has to show that he is a little more than a science fair student.

“A fourth cushion is the idea of training the so-called ghetto students. The situation is not too well thought out; sometimes a person does more harm than good by sticking his nose into another problem. Are they going to do some type of thing be taught to make an analysis of the air, or what? What are the students going to do with these people if the Project ends too soon? They are not very sure. And they do not know any chemistry, they do not know any physics, they do not know any mathematics. I am not at all sure just what the students are going to do with these boys. The Project has combi- nated two problems, both of which are worthwhile, but they have compounded their problems by attempting both which is an inher- ently difficult job.

Detachment required

“One has to take a look at the project with a detached view. That is what the students should do. That is why they are scientists, and that is why they are here. One must not be afraid to say, ‘I was wrong here; I made a mistake.’ The students have something that they want to make work, and that is a chal- lenge. If one has to play all four cushions maybe the problem should be simplified. Maybe the training of some young boys should be dropped. Maybe the opposite approach should be taken, with more of the social aspects emphasized, and some of the technical aspects dropped.

“The students might decide that it would be best just to spend a certain period of time studying the pollution problem, then they would be able to con- structively participate in discus- sions on the city or state or even the federal level. Students can shine at this sort of work.

“When one does that, one has the right, or at least the reason, to ask for money. One cannot start out by asking for, say, $1000 to go to Washington, D.C. The money would be discussed with people who know about such matters. The Rosenberg Foundation refused to grant any money; any such re- quest is very closely scrutinized. I am not surprised that the Rosenberg Foundation refused to grant any money; any such re- quest is very closely scrutinized. I am not surprised that it wants to be at the Project with a detached view.

“ ‘Making a study is a third Cushion maybe the problem will blow over in a year; there is plenty of hard work involved. Many of the students will have a number of years to work on the problem.”
Gutman Named Head Gridiron Man

Tom Gutman was named head coach of the Caltech varsity football squad today, replacing veteran coach Bert LaBrucherie, who held the post 23 years, as athletic director Warren G. Emery added.

"We made this move at the request of Coach LaBrucherie," Emery added. "It is a step we have been discussing for a year or so. As Bert says, the change at this time will give a new man a chance to work with a rapidly improving group of players."

Gutman, 31, joined Caltech in 1946 as wrestling coach and assistant football coach after serving three years at Beverly Hills (Calif.) High School. He is a UCLA physical education graduate, and played end on the UCLA squad that battled in the Rose Bowl against the University of Minnesota.

Gutman, who lives in Beverly Hills, said: "I am very anxious to get to work with the men returning from last season's squad. Caltech lost only two men through graduation, thus giving the coaching staff the opportunity of starting with a more experienced group of young men.

Next year we anticipate continuing the improvement shown by this year's team."

LaBrucherie, 63, who becomes cross country coach in the change, said, "I'm getting along in years, and a change like this is desirable. Since we think we're going to have some pretty good football players next season, this is a good time to turn the team over to Tom Gutman, who is an outstanding young coach."

LaBrucherie joined Caltech as head football coach in 1919. He also spent four years at UCLA as head football coach, and took the Bruins into the Rose Bowl in 1947. Earlier he served 16 years at Los Angeles High School. In addition to becoming cross country coach, LaBrucherie will continue as track coach.

Many Protest Tennis Costs

The students of Caltech are opposing the plan engineered by the athletic director involving the summer recreational use of tennis courts. The plan involves the paying of a fee to use a tennis court. Letters were paid for. The following letter was sent to the Tech, addressed to Dr. Dibworth, with a petition signed by 230 students and Tech personnel:

"As you described them, the reason for proposing the summer tennis program were twofold. First, there had been an interest expressed by members of the Caltech community that tennis facilities should be made available. Second, because of increased crowding at the courts during the more favorable playing times, efforts should be made to discourage use of the courts by non-Caltech individuals and to assure priority for Caltech personnel. Let us make it clear that we agree with these objectives; it is with the implementation that we disagree.

"Would you like to offer several suggestions which we think are necessary for a workable summer tennis program.

1. Caltech personnel (especially registered students) should not have to pay for recreational use of the courts. If the program can not be funded with the income from lessons and from charges made to non-Caltech individuals, then the program should be jeked. The availability of free tennis courts is a "good" which outweighs the "good" of the availability of tennis lessons.

2. No more than four of the eight courts should be taken up with instruction at any given time. This is pretty much constructed the schedule calls for instruction every morning, Monday through Thursday. The idea being that if any courts are not filled with classes they would be available for recreation. Clearly this won't do, in Pasadena during the summer and early evenings are the only times one can play.

3. The courts should be made available for as many hours as possible. Why should the courts remain locked until 6:00 a.m.? If someone wants to start playing at 6:00 a.m. in order to get to work by 8:00 a.m., then why not let them? Why should the courts be locked at 5:00 p.m. on Saturday and Sunday?"

Netters Downed by Oxy

Caltech's varsity and junior varsity tennis teams were defeated by identical scores, 8-1, by the varsity and junior varsity teams of Occidental College last Saturday afternoon.

Both matches, which were threatened by impending rain, nevertheless proceeded under drifted weather and tennis conditions. At nearby Occidental, many close matches were played by the varsity. Pete Youn, playing tough Jack Acheson, came up with a close second set in his 62, 75 loss. Dave Beiser and Holly found the fast games of their opponents too much, losing 61, 66, and 64, 61, respective.

Dudleiski at fourth position was outlasted 87, 75, and Larry Brown succumbed 61, 63 in sixth. Singles. Saving face for the Caltech seven was Greg Evans, who dug out a win of 76, 64 over his opponent in the fifth spot.

Doubles, as usual, went poorly. Youn and Brown were treated 61, 62. Dudiiseker and Holly fared even worse, 61, 60. Even Martin Fryst, who had not previously been in a losing doubles match this year, lost a 64, 46 match with the help of Dudleiski.

Meanwhile, back on the home courts, the junior varsity was performing proportionately as well as their varsity teamates. The sole win came from Pete Zasannah, who socked a 66, 66, 64, 62 comeback victory. Close sets were played by Craig Tyser and Mike Sperry in the singles, and by Tyser and Glenn Prestwich in the doubles.

Those interested in seeing a good match should pass by the tennis courts today at 3:00, when U.S.C. send its tennis team to Caltech.

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Our representative will be at Caltech on MARCH 5, 1968

See your placement officer to arrange a personal on-campus interview with our representatives, or write to Mr. J. J. Tanomio, Supervisor, Professional Placement and Personnel, Convair Division of General Dynamics, 11666 Saticoy Street, Los Angeles, California 90034.
Ducks Take 2 Meets

Led by Steve Johnson and Henry DeWitt, Caltech swimmers extended their winning streak to four meets and a 5 and 2 record for the season. Johnson, a diver who has improved greatly last year, won both diving events while DeWitt won the 50 and 100 free to help Caltech narrowly edge Santa Monica City College, 55 to 53, and San Fernando State College, 61 to 52. While the meet with Santa Monica was won in the breaststroke, it took a win over San Fernando by the 400 free relay, to win that meet.

Tech got off to a good start when the 400 medley relay easily best both teams. Most encouraging is that the first two men, Gregg Wright and MyRoy Tywon, both improved on their sprints from last year's record setting team, a team which is back but has not yet swum together. After the usual drubbing in the 1000, Marken Kaisarvart pulled out third in the 200 free to maintain Caltech's scoring lead. DeWitt next won the 50 free in 25.31 second off his school record. Wright placed third in the 200 intermediate and Santa Monica was now tied with Caltech. After Johnson won the diving, Tom Davis came up third in the 200 fly, and DeWitt then won the 100 free in 49.3. Wright next won the 200 back in an easy 214.2. After the 500 the scores were Caltech 47 to 45 over Santa Monica, and 50 to 47 over San Fernando. With victory now at all once, Tywon and Bob Hall came thru with second and third in the 200 breast to tie the Santa Monica meet and left it to the final relay to kill off San Fernando. Tywon's and Hall's times were 232.6 and 232.4, both less than 4 seconds off the school record and excellent for this time of year.

At the present state of events, it appears quite probable that all or almost all school records will be broken this year, so come out and watch.

Wrestlers Do Poorly

The Caltech Wrestlers did not do as well as expected in the Biola Invitational Tournament. Only three matmen were able to gain the third round in the tournament. Batchelder, 135 lb. class; Hornbeck, 147 lb. class; and Karp, 155 lb. class, were ousted after first round competition. Craig, 173 lb. class, and Sibino, 176 lb. class, made it through the first round but were downed in second round matches.

A great disappointment occurred when Higgin's failed to make the weight limit in the 130 lb. class and forfeited his third round match. Devlin, 195 lb. class, and Beagle, 177 lb. class, were also downed in third round competition.

In the upcoming NAIA District 3 meet this weekend, Higgin's, Beagle, and Devlin have good chances of performing well. The competition will not be as rigorous as three of the powers at the Biola Tournament were NCAA.

Roundballers Downed In Three Games

by Cruusy

Caltech's Varsity cagers won their fourth game of the 1967-'68 basketball season last week as they downed LIFE College 103-97 in a record-breaking performance by senior center-forward Terry Bruns. However, the Beavers dropped two other contests last week. They succumbed to Redlands 85-70 and were short-ened in an 81-76 overtime loss to Biola.

Last Tuesday night's game against Biola was tied 71-71 after the end of regulation play. So for the second game in a row the Beavers were forced into overtime. (They had tied L.A. 96-96 three days earlier; they lost that one 84-75.) Biola out-scored the Teckers 10-5 in the five-minute overtime for an 81-76 win.

CIT ruled the boards, out-rebounding Biola 59 to 52, but Biola cut the Ringo scores 41.5% to 31.8% from the floor and 90.7% from the line. Caltech's leading scorer in the game was senior guard Jim Williams who made 12 of 20 points. Other double-figure men were Bruns with fourteen and John Franconi with eleven.

The cagers' 83-75 loss to Redlands on Friday night dropped Caltech to 3-21 for the season. The Beavers are back in action this Saturday against Texas. The Bulldogs steady play coupled with the Cougars' inability to get inside shot told the story. In addition Redlands held in rebounds 56-44, in field percentage 45% to 33% and in free throw percentage 60% to 53%. Leading scorers for Tech were Stanley (12 points), Fyvem (11), and Bruns (10).

The following night the Teckers travelled to Los Angeles to challenge LIFE College. The Cougars won their second in as many meetings against the Lifers this season. LIFE didn't have a prayer as Tech, led by Bruns, dominated every aspect of the game. The Beavers pulled down an amazing 80 rebounds to 55 for LIFE. They also had the hotter hand in the shooting department as they shot 61% to 45% from the field and 79% to 61% in charity tins.

Mr. Bruns went wild as he hustled and muscled his way to a Caltech record-breaking 23 rebounds. Terry also set a new non-league scoring record with 36 points. He had ten buckets from the floor and a remarkable 16 consecutive free throws in the second half.

Frosh Tom Holz had his day two, as he played his best game to date, pulling down 20 rebounds and scoring 17 points. Stanir also had a productive evening, hitting for 16 points. (Note: This must have been the Teackers' night for heroics as, while his varsity school mates were having the time of their lives against LIFE, frosh Ken Hanson, center on the JV team, gathered in 24 rebounds to lead the JV Beavers to victory over Biology.)

Coach Preidler named Bruns and Stanley the "Players of the Week." Also, Bruns was "Free- thrower of the Week" and Bruns "Rebounder of the Week."

Ruggers Win

The Caltech Rugby team beat U.C.L.A. last Saturday by 3-2 in an entertaining game. In the first half, Caltech scored a push- over try and the capitals. Peter Dohle, kicked a magnificent 45- yard drop-goal to reply to a penalty goal by U.C.L.A. In the second half, Caltech played with spirit and for long periods dominated the game. They nearly scored a s e v e n t h occasion through clever running by the three-quarters, and only bad luck and some out-of-bounds by the referees prevented a really high score. Both sides were playing well and the Williams scored tries, while U.C.L.A. scored through a neat individual effort by their out-half. Caltech forwards played a robust game gaining good possession of the ball, and harassing the U.C.L.A. players into many mistakes in the loose. The team has now won two league matches and lost one.

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