Many Vie In Elections

The nominations for the 11 ASCIT offices were officially closed as of last Monday night. Final nominations were placed in the ASCIT meeting in Winnemott as the number of candidates ran up to 22. The elections will be held next Tuesday, Feb. 23, to be followed by necessary runoff elections.

Five of the 11 offices are a sure bet for the candidates running unopposed on their tickets. These candidates are Eric Young for treasurer; Jerry Yudelson for activities chairman; John Walter for athletic manager; Martin Smith as R.O.C. secretary; and the team of Bob Berry, Norton Greenfield, and Tim Frickerdick for editors of the Tech.

Are you ready for the campaign season? This is your last chance to register. Student Houses or phone Ext. 541.

A S I S T

Asm. Speaker-elect John Walter is the only one of the 11 candidates running for position in this season who is not a sophomore. Bill Broster, IHC chairman; John Walter, athletic manager; Dave Close, secretary; Jerry Yudelson, activities chairman; Eric Young, treasurer; Martin Smith, BOC secretary.

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Shuttlesworth To Speak Here

The Reverend Fred L. Shuttlesworth is the President of the Southern Conference Educational Fund, and has worked closely with Martin Luther King Jr. as Secretary of the Southern Christian Leadership Conference, the organization.

(Continued on page 3)

Honor Keys Given To Tech Leaders

The seniors receiving honor certificates were Steve Blumack, Doug Gage, Terry Harkness, Vance Hirsch, Bob Levin, Gary Morgan, Bob Scott, and Mike Rosbash. Junior recipients included Doug Gage, Mike Cunningham, Ed Johnson, and Sam Solomon. Sophomore recipients were John Dyer, Dick Hackworth, Fred Lomb, Mark Satterthwaite, and John Wallis.

The awards will be presented at the spring awards banquet at Tournament Park.

Shuttlesworth To Speak Here

The Reverend Fred L. Shuttlesworth, described by CBS news reporters as "the man most feared by Southern racists," will be speaking at the ASCIT meeting in Winnett Center on February 5th. The topic of the talk will be "The Problems of Negroes in the South." Shuttlesworth is the founder of the Southern Christian Leadership Conference, the organization.

(Continued on page 3)

Notice

NEW HOUSE MOMS

Looking for a son or daughter to keep their interest and a willing spirit, or otherwise interested in applying for the position of Resident Associate in the Undergraduate Student Houses for the academic year 1965-66, should contact the Master of Student Houses before March 5. All applicants must be upperclassmen (in their second year of graduate study or beyond), or members of the Faculty. For further information call at the Office of the Master of Student Houses.

T O K I L L A M O O K I N G R I D E R

will be shown in BECKMAN Sunday night at 7:30. All are invited—friends, parents, and everyone is invited to the Continental Baseball.

Coltech's Cricket Team, under the leadership of the winning Tech Cup, is in need of new blood. Every member of the Tech cricket team is a man who feels comfortable being called a "cricketer" and is ACSIT's main hope on and off the pitch.

...and nineteen honor certificates are given to Tech leaders.

To new students, Dennis McCreary, Bill Smith, John Walter, Ted Jenkins, Doug Josephson, Steve Garrison, Dave Jackson, and nineteen honor certificates were given to Tech leaders.

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In a month or two construction will begin on the Millikan Memorial Library, destined to be a narrow glass-and-steel structure nine or more stories tall and consol idating all present library facilities. At the choosing that it is hard to tell where to put the blame. If the building is not intrinsically ugly; but more construction would be the central site of the future; and re- maining students of the library will serve under those future conditions more than half its life. Even if all teaching is still done in the block of old buildings west of Throop, the people doing research, who use the library more and who will be spread all over the future campus, and the students, who will go to study often directly from the residence Houses, would welcome a true central location for something that everyone hopes will become a true central location for something that everyone hopes will be useful.

Granted that another acceptable design would cost another pile of money to produce, the easy resolution is to build the thing where it will look respectable. We feel that good taste and a (sometimes squelched) desire to be proud of our campus demand that Millikan go north of San Pasqual.

—Stuart Galley
Wally Oliver

Owens Valley -- Radio Telescopes

(Continued from page 1)

planned. The pedestal on which the antenna is mounted will be 66 feet high, as tall as a six-story building.

Rugged Construction

Each dish antenna and its pedest al must be designed to survive winds up to 90 miles an hour. The pedestal, supporting framework and radome will be self-propelled by five four horsepower electric motors and will move on a set of heavy rails four feet apart.

The system will form an inverted "T" whose stem will ultimately extend for three miles north of the Owens Valley. The east-west crosspiece will be 7500 feet long.

On the other hand, the dishes may be moved into a variety of positions, allowing the center of gravity to remain close to those of a much larger dish. The system will be able to resolve very small objects, down to a few arc seconds of arc in diameter, and increase the observatory's ability to detect very faint signals.

"The new antenna system will make the Owens Valley Radio Observatory the world's most powerful one for the study of objects in and beyond our galaxy that radiate energy in the radio frequencies," claims Observatory Director Gordon J. Stanley.

New Projects Proposed

"With the new antenna system the VLA will greatly expand our major re- search programs," Stanley said. "The primary purpose of the new equipment will be to observe many more radio sources and to detect more faint galaxies among their stars and shapes. It will be possible to tackle the cosmological problems of the farthest regions of the universe.

Other plans include a more detailed study of the hydrogen emission from clouds in spiral galaxies, along with additional planetary obser vations. We will also continue to monitor some of the planet's atmospheric phenomena. Impressive Accomplishments

Since its dedication in 1958, the Owens Valley Radio Observatory has had a number of important firsts. Among them were the first discovery of a radio galaxy and the first radio source detected in the Milky Way galaxy. It has also been instrumental in the study of pulsars and quasars, and in the development of new techniques for mapping the universe.

(Continued on page 3)
Thr... from hardheaded, important observations of CO/RP uses for future.

Thursday, February 18, 1965

Caltech public relations staff on radio and film activities.

Mrs. Rose Blyth will rejoin the Caltech public relations staff on Thursday, February 18, 1965. In her new position, Mrs. Blyth will concentrate on developing materials to commercial and educational television stations and to schools, colleges, and other organizations.

Since October 1963 she has served as Director of Community Development for Community Television of "Sono!", the non-profit corporation that determines policy for KCET.

Mrs. Blyth won the 1964 Robert Eastman Award as "Outstanding Woman in Broadcast ing." She serves on the board of directors of the Western Radio and Television Association and the American Women in Radio and Television. From 1961 to 1963 she was a director of the University Film Producers Association.

If this column, or some of the other superb features of the Tech, irritate you, you should consider writing a letter to the editor. Many Techmen are reluctant to do this due to a lack of experience in writing succinct pooh-pooh letters, so below are two examples of how to get your idea across as briefly as possible. First, from the Tulane Hula-bob:

"To the Editor:"

We must announce that our patience with your newspaper is already totally exhausted.

Michael C. Harry

Donald A. Martinetti.

Out as good, but still above average, is the following missive from the Antioch College Record:

"To the Editor:"

I had begun to worry that An­

toch would fail to pieces, me

being away so long, when at long

last I received the Record of Oct.

2 and spied the heading: 'Dimin­

ution at Tuesday assembly com­

pared (freshmen) to fraction.' Somewhere I know now that 'everything's O.K.'

On the lighter side:

From the George Washington University Hatchet: "Syra­

cuse women who have tried Col·

gate have found that their per­

sonalities have been changed by­

ond coed Syracuse and all-male Colgate. "Nine out of ten Syra­

cuse women who have tried Col·

gate prefer tooth decay."

Again from the Technique:

"People are always doing some­

thing about sex, but nobody ever
talks about it.

From the Santa Clara: "At the

University of Nevada there is a cer­

tain man on campus, Mr.

Goetting by name, who claims to

be Jesus Christ. Speaking at a

student rally, he (He) said he (He)

would speak on issues, but lost much of his following when he (He) refused to change water into wine."

From the MIT Tech: Seventy­

five years ago the following note was found in the Tech book: "To the Editor — Will you please
tell me where the Institute has

its printing done, such as exami­
nation papers, etc."

Shuttlesworth (Continued from page 1)

that is presently providing lead­

ership in the voter registration drive in Selma, Alabama.

Mrs. Shuttlesworth has had long experience in the civil rights struggle—most notably the move­

ment in Birmingham in 1963. It was because of his central role in the demonstrations that he was one of the seven Negro lead­

ers called to the White House to
discuss racial problems with President Kennedy. It was from these discussions that impetus
gave to the President's de­

cision to ask Congress for a Civil Rights Bill.

interwined in this history of de­

monstrations for Negro equal­

ity are 26 arrests for civil disobe­

ience. These, according to

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More History

Seniors with a longing for power should take the Campau­

travus Courses. It will pro­

vide insights into how parties, cliques, and pressure groups gain and use power in different politi­

cultural cultures. The political prac­

tices of the United States will be con­

pared to both a western dem­

ocratic government and a non­

cratic government and a non­

cratic government to be dis­

cussed has copied western insti­

tutes but has not followed them
t up with western practices.

All three of the instructors of the new courses are relatively new to Caltech, having first
taught a class at the Institute some time in 1964 at the earliest possible date.

More NSF

(Continued from page 2)

Owens Valley Radio Observatory has made many contributions to the young science of radio as­

tonomy. It has played a leading role in discovering and investi­
gating quasistellar radio sources—the distant, energetic ob­
jects in the universe.

It has also discovered and mapped many radio sources in and beyond our galaxy and has found that most radio sources outside our galaxy come in pairs. This led to the concept of their explosive nature. The observa­

ory has mapped the arms of our galaxy and determined its polarity, has discovered Jupiter's Van Allen radiation belt, and has made important observations of Venus.

More History

(Continued from page 3)

Sun spots occur in eleven year cycles. Large spots appear above and below the sun's equator. They are caused by the magnetic fields of the sun's surface. The fields hold the surface gases sta­

tionary, thus cooling them and making them visible as dark spots.

These spots are accompanied by solar flares, which are explo­

sions sending great amounts of gas and energy into space. This causes problems here on earth by messing up radio communica­

tions and might be disastrous to a space traveler.

Yes, while all these facts are known about sun spots, many questions have not yet been an­

swered. These, according to Leighton, are questions that can only be answered by an­

swerer.

At this point, Leighton stopped talking and began demonstrating.

The sun was too large to bring into Beckman, but through time lapse photography the sun spots and all the phenomena associated with them were brought to the audience. Leighton managed to prove that there is still some life, excitement, and beauty left in science, even at Caltech.`
The ASCIT president is in the unique position of contact between student government and administration, which makes him the key to the success of many student plans. In this position, I plan to solicit continued faculty support for ASCIT and encourage democratic programs so vital to student life. The key examples are the ASCIT Handbook, course and athletic programs. The broadening of these programs, hopefully, will be carried out as was originally proposed, to include such additions as possible, diving, squash, and handball. The faculty-student relations problems are important and related along the lines of more frequent faculty visits to student houses.

Faculty members with an interest in the students lives and those who would like to know one house well, for then they can get the right people, will be pleased; only then can a fruitful exchange of ideas take place. I am sure you will agree that too many of our house would have the chance to have several interesting faculty members visiting several times a term. I turn now to the subject of ASCIT vice presidential candidates.

The notorious ASCIT debt of last year is the leading campaign issue. During the last year we have paid off a real debt of $10,000. The ASCIT Board of Directors and the ASCIT Limited Partnership, the BOD, have taken a part of the bank balance at the beginning of the year, so it represents the beginning of the year's BOD. This year fifteen hundred dollars was taken off the top of the bank balance every semester, the relief bill. During the coming year, I shall be in a position to expand our programs in new directions.

Just three years ago one of the presidential candidates said: “Having all the money it needs, ASCIT should spend too freely.” After two years on the board, I believe that this can no longer be the case. The times spent arguing over how much money would be the limit for various clubs, has left an impression and we that won't be forgotten in good times. There are several ASCIT organizations which seriously need new equipment, such as camera equipment, and the right to have there publications. In addition, a lot of people were ticked off about not getting a winter formal. All this goes to say that we are worse off and good that we are right to try to stay in Hawaii for any debate tournaments.

A few concrete suggestions were made last year an excellent cultural events which we had to pass by. Some were due to lack of funds, but others merely lacked people willing to commit themselves to a week or two of concentrated effort. I know there are people out there who would like, to see a jazz concert for a change, or an off beat play production. This type of event needs more support in a small group and to the event planner, it makes you suddenly realize why you've been sitting in front of a book all year, trying to get less. This past year has seen serious problems. There is every chance that the coming year could be the year of the student activist. I am sure that all the rest of you are as we are, if not as severe as we are, and that the Board needs to bring together any groups with fertile ideas.

The Tech urges that everyone save these campaign statements to compare the views of all candidates. Would you buy a used car from this man?

According to the ASCIT by-laws: "The ASCIT Secretary shall be a member of the Board of Directors. He shall call and preside over meetings of the Under­ house Committee. He shall be Chairman of the Honor Point Committee. He shall be responsible for liaison between ASCIT and the various House organiza­tions." These are not easy duties, nor are they limited in scope. This office calls from a campus, experience, but also for interest and enthusiasm. My experience as House treasurer and UCC, as well as work in rotation, has given me valuable intra-House activities. Furthermore, participation in ASCIT meets, past work as Head Yell Leader of two years ago, and membership in ASCIT have provided me with necessary background in Interhouse activi­ ties. It is this combination of background and insight into intra- and Interhouse activities which is a prerequisite for a per­ son interested in the position of ASCIT Chairman.

The post of IHC president demands responsibility and leader­ ship if the IHC is to maintain the position which it has gained over the years. I have had experience on my House Excomm, so I am familiar with the problems faced by House governments, and will be able to better coordinate the ac­ tivities of the seven Houses. My work as editor of the Big T has demonstrated my leadership and responsibility.

The IHC Chairman must have the respect of Dr. Huttenback, and indeed, Mr. Brunswig, and the ASA Board. I would like to make sure that House presidents are able to maintain the position of author­ ity which the IHC has gained. I feel that my past contacts with these people, and the amount of work accomplished qualified me for this position of respect.

We are unopposed; therefore you are informed about what the BOD is doing, for carrying on the unique activities of the seven Houses. It is this combination of background and insight into intra- and Interhouse activities which is a prerequisite for a per­ son interested in the position of ASCIT Chairman.

The ASCIT Secretary is pri­ marily responsible for making you informed about what the BOD is doing, for carrying on the unique activities of the seven Houses. My work as editor of the Big T has demonstrated my leadership and responsibility.

In the past, ASCIT financial difficulties have seriously lim­ ited the support it could lend to campus activities. However, for the first time in several years ASCIT will be able to contribute to the next year, my greatest con­ cern will be the finances of what is one of the best things going on our campus. I have experience in handling ASCIT finances, and will be able to see that they are used and spent to the best advantage. Furthermore, I will see to it that the ASCIT Secretary is working to the best of his abilities seriously.

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Smith Talks On Honor System

Of all the offices to be filled in the coming election, there is none from which you, the students, will hear so little as from the BOC. The reason is not the result of traditional shyness on the part of BOC secretaries, but is just a conse­quence of the secrecy under which the BOC operates.

Although I’m unopposed for this office, I would like to ex­press my interest in the problems and issues on matters concerning the Honor System.

First, communication between the Honor System and the students could be better than it is. The BOC’s policy of never acting on precedent and the secrecy with which meetings are conducted make such things as pol­icy decisions very difficult, and discourages procedures and the dis­position of cases near impossible.

Communication in the other direction could, however, be im­proved. I am sensitive to the ways anxious to hear sugges­tions regarding the Honor Sys­tem—if you think, for example, that a professor could do a bet­ter job of living up to his end of the Honor System, tell a BOC member; maybe something can be done about it.

Some individuals are reluct­ant, or unwilling, to extend the Honor System to the entire sphere of academic matters. If we are continuing to have an effective and very advan­tageous state of affairs we now have at Tech, we must all be willing to apply the Honor System to all aspects of campus life. Clearly, the Honor System addresses extremely difficult problems for the men, but at the same time it has a positive effect on the effec­tiveness of the Honor System. I hope you all will bear this in mind.

I’m grateful for the chance to serve as BOC secretary, and I’ll try to see that the duties of the office are fulfilled to the ability of my mind.

Martin Smith

Activities Chairman

This statement, you may be warned, is being written with that immaterial statement, “Be sin­ cerely whether you mean it or not,” in mind; so here goes.

It is probable that the Beck­man Laboratories will be announded, soon, or brought down to a reason­able level so that ASCIT will be able to procure more high­level entertainment along the lines of the Hootenanny, the Art & Trades, etc., more often.

In addition, I plan to hold the coffee in larger quantities, no­rmerly, to be held one or twice a week, in or­der to give attendance and interest in more coffee­hour a more special event.

I will have more ideas and in­novations to be presented to you, per­haps, as the year goes on. Yes, my name is Jerry Yudelson, and I’m currently serving as Activities Manager.

Jerry Yudelson

As of Tuesday night, ASCIT candidate for Rep-At-Large, Ralph Kimberley did not turn in a campaign statement.

Four Frosh Compete For Office Of Rep-At-Large

The ASCIT Representative-at-Large is a voting member of the Board of Directors; this is a valuable office, and the Rep must conduct the annual char­ity and cardiac drives, drive the blood drive, and maintain the activities board on the Olive Walk. These are not critical matters but they must be, done and done well.

The office of Rep, by virtue of being on the BOD, bears consid­erable responsibility. Each year ASCIT spends hundreds of dollars in salaries and overhead. Having a voice in the allocation of funds, I assure you I will keep these responsibilities in mind. Discussion, being the path to understanding, will play an important part in my partici­pation at the Board meetings, as well as with all fellow students.

I honestly want a chance to serve as a member of the BOD, and I will conscientiously work to fulfill the duties of Rep. Please place your vote for Represent­ative-at-Large beside my name.

Greg Brewer

The office of Representative-at-Large is just as important as any other office; it represents the entire student body, because it is on the BOD, it helps make decisions that affect the entire student body. The main responsibility of the Representative-at-Large is to represent the entire student body, especially the Freshmen and Sophomore classes. To fulfill this responsibility, I want to maintain close contact with as many of the stu­dent body as possible.

In addition to this, the Rep­resentative-at-Large has other du­ties, which are to take care of the events board event on the Olive Walk. These are not critical matters but they must be, done and done well.

JON R. HAVILAND

The position of ASCIT Represent­ative-at-Large articulates orga­nizing and managing the annual blood and charities drives, main­taining the campus activities cal­endar, and serving on the Board of Directors. The first tasks are important and must be carried out competently, the last is certainly the ASCIT Rep’s most important responsibility. Education, not only represent under­class opinion on the BOD, but also be willing to apply the Honor Sys­tem intelligently on all campus mat­ters.

I have a desire to become involved which has been demonstrated by mem­bership in basketball and track teams, service as a freshman sec­tion leader, and avid support of ASCIT activities. This gung-ho­ness and previous expe­rience in student government will, I feel, allow me to fulfill not only the assigned duties of Rep-At-Large but also any other jobs that I may have the opportu­nity to perform.

Greg Brewer

Sex On Campus

In running for the office of ASCIT Social Chairman, I am aware of the responsibili­ties of this job. I have been a House social chairman for a year and I enjoy the work which the job involves. I am prepared, and eager, to do this work.

There are several problems in­volved with social activities at Caltech. The two most impor­tant of these are by participation by the men and obtaining women with whom the men can partici­pate.

With these problems in mind, I support the following policies which will more successful ASCIT social events:

1) More consultation of student opinion regarding selection of bands for ASCIT exchanges and dances. 2) More communi­cation between the ASCIT social chairman and the House social chairman. 3) More publicity for ASCIT social events.

On the basis of these policies, and my experience as a House social chairman, I ask for your support.

Steve Card

at the ICE HOUSE

FRENCH SPANISH RUSSIAN ITALIAN JAPANESE

ADDITIONAL LINGUISTIC ABILITIES

If you are unavailable for an interview at this time write...

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The Sheggy Gorillas Minus One Buffalo Fish

The Sheggy Gorillas were formed from the ashes of a previous group, and they carry on the same musical principles: Comicality, wit, and a certain air of eccentricity. The group is led by their leader, Lead singer and guitarist, Peter Pradel. They are a group of “oddities” in the music world, they are the Sheggy Gorillas.

The Times Square Two

Outrageous!

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The Times Square Two

Outrageous!
Page Wins IH Track

Thursday, February 18, 1965

BY JOSE

The most incredible Interhouse sporting event of the past several years was held at Caltech's Page House

the three-day Meet of Champions. Page House won the three-day total by besting Fleming and third-place Ruddock. The standouts do not tell the story of the meet, nor do the individual finishes of the events held last Wednesday through Friday at Tournament Park.

It all started innocently enough during the track meets on Wednesday. Dick Harley of Ruddock showed his back to the rest of the pack in the first heat of the 100-yard dash. Goral of Page did likewise moments later and set the heat. DeWitt of Blacker easily romped across the finish line in first place in the 200, but Baze of Fleming had a little trouble.

In the 220, it was DeWitt and Harley again as winners of the individual heats.

Good Clean Fun

The real fun started on Thursday with the field events. Two Interhouse records were set and several other impressive performances were recorded. Residents' favorite javelin thrower, Charles Sawicki, waited until his final throw to overcome a determined bid by Hawk, a Flem. The distance was 172’6” for the second record of the afternoon; Leverson of Page was second. These two switched positions in the shot put, and Levenson completed a hard day's work by tying Dabney's heard in the high jump.

Dabney would up in the lead at the end of day due to the performances of Heard and Scott, each of whom placed in three events. Scott was one of the meet's three double-winners, finishing a mile and vault and long jump, and third placed third in the high jump.

Thus the stage was set for the finale on Friday. Dabney had a one-point lead over Fleming after the field events; Page was close, only three points behind the leader, while Ruddock could amass but 14 points in the six field events, although placing at least one man in each event, and was 12 points behind the Darbs. Bob story

A couple of weeks ago, Ruddock would have been unbeatable at this stage of the meet; Dick Harley looked like a cinch winner in the sprints, Alan Lee was in the same class as Doug Gage in the hurdle events, and several other members of the Ruddock team seemed likely to take seconds or thirds. However, Lee injured himself in a football game, and Greg Shutphine, their second hardman, was on a field trip for half the meet. Another lab conflict cost them a participant in the 1302; on Thursday a traffic accident cost them valuable points in two field events. The outlook was for a tight finish.

The runners could hardly have hoped for a better day last Friday. The sun was shining, there was only a slight breeze, and the temperature was in the 60's, perhaps a little chilly for the sprinters.

Swimmers Win By One Point

The Caltech swim team met UCLA and L.A. State last Saturday at the Alumni Pool. The meet was scored as a double-dual meet and Caltech lost to each opponent, to UCLA 73-21, and to L.A. State 90-31. Since USC defeated UCLA 834 previously, it is safe to say that Caltech is definitely out of the running for the NCAA championship this year, based upon competitive scores against common opponents.

Earlier the same week (Thursday), Caltech defeated PCC in a close meet 467. The meet hums in balance through most of the final relay, but Dick Tooton, the anchor man, was really able to finish half a pool length ahead to clinch the victory. Larry Anderson had an impressive performance by winning the 50 free, the 100 free, and participating in the final relay.

The teams travel today to Santa Monica Junior College to meet Santa Monica and Pierce Junior College.
More Interhouse Track Meet

(Continued from page 6)

Don Radcliffe won the high hurdle event for Page; Fleming managed to come in second and Page's team found itself half a point behind. Fleming was in the same position as Page, while Daniel pulled out a hurdle event for Radcliffe. Brewer wins.

The most wide-open event of the afternoon was the 600. Greg Brewer passed the advice of his coach, spotted a hole in the pack at the start, and moved into third place before the first turn. Running a nearly perfect race, the Radcliffe freshman pulled the biggest surprise win of the meet, with the respectable time of 1:31.5.

Then things began to get tense. Ruddock and Fleming were tied for first, but Page was a scant half-point behind. L. A. Kinbrell of Flem Kimbrell.

Harley the 220.

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Page's team was reasonably fresh, too. Radcliffe, while Ellis and the team of Ross-Presing tied.

The home courts proved to be of little advantage against two very strong Redlands teams last Saturday. In the varsity division, the hard-hitting Redlands players swept all nine matches as part of their bid for the conference crown. Technician John Hosher deserves special note for the tough match he fought, only to lose 57, 24. The Redlands team has enough talent that Peakcock, best frosh in the conference last year, only played sec-

Second Doubles against Tech Saturday.

Tech fared little better in the fresh match, but Jeff Hight and Ed Groth put up determined fights and each won a set before being defeated.

ELECTRONIC ENGINEERS-MATHEMATICIANS, ALL LEVELS DEGREE

In an era where the frontiers of intellectual endeavor demand constant investigation, imagination must be the crux of motivation.

The research laboratories at the National Security Agency exemplify that rare activity where imagination and a look at the possible are accepted philosophy. A glance inside these modern, well-equipped laboratories would reveal project teams engaged in a broad spectrum of scientific investigations.

Among them

MAJOR COMMUNICATIONS SYSTEMS DEVELOP-
MENT—Design of new antennas, transmitters, receivers and terminal equipment. Constructing preliminary and basic engineering models to demonstrate the feasibility of using new communications concepts, techniques and cir-

cuits. Adapting and perfecting three through the design of a working prototype or field test model.

COMPONENT MINIATURIZATION STUDIES—Practical attempts, through basic design and analysis, to reduce the size yet increase capability of communications and electronic data processing systems.

SYSTEMS SIMULATION STUDIES—Utilization of modern digital and analog computers to predict the feas-

ibility of engineering fabrication.

MATHEMATICAL INVESTIGATIONS—Exploring the phenomenon of the intermarriage of mathematics and elec-

tronics in the design of secure communications schemes as an essential element of the complex science of cryptography.

ENVIRONMENTAL TESTING—Proving the capabil-

ities of components and systems by simulating atmospheric extremes. These tests are conducted with the latest equip-

ment capable of simulating a wide variety of environmen-

tal conditions.

For the ENGINEER and the MATHEMATICIAN, NSA
together with the U.S. Government, offers an enviable variety of opportunities. It is designed for scientists and engineers who wish to blend the modern advances of electronics with the challenge of national security.

Representatives of the National Security Agency will be conducting interviews on campus next week.

Next Week In Sports

SATURDAY, FEBRUARY 27

BASKETBALL

LeVerne at LaVerne 6:00 p.m.

VARSITY BASEBALL

Cal Lutheran at Caltech 3:00 p.m.

GOLF

Occidental at Caltech 1:30 p.m.

WRESTLING

Cal Lutheran at Caltech 3:00 p.m.
Techmen Institute Flying Club For Enjoyment

By LES FETTIG

Sometime in the near future, a group of grumpy Techmen will casually glance up at the clock on the face of Throop to discover they are half an hour late for their eight o'clock math recitation.

When what to their wondering eyes do they see but a large, birdlike object perilously buzzing the soda fountains? Little will they know that they will be among the privileged first to witness the manifestations of an enthusiasm even exceeding the loyalty (1) of whoever gets up for an eighth assigned recitation.

If, by some strange miracle, these bewildered souls manage to open their eyes beyond the fuzzy-eyed zone their will immediately be met with the knowledge that the mysterious object is an airplane!

Guess What?

With the quick reflexes and instinct of the Caltech scientific spirit, they will quickly proceed to take a crude measurement (good to one part in one hundred) which will reveal that the craft is maintaining an altitude precisely 1000 feet above the nearest obstacle within a 2000-foot radius (in accordance with Federal Aviation Regulations Part 91). This will be the final clue: the Caltech Flying Club is in the air!

The above and other incidents will be perpetrated by what at present consists of 18 charter members of the Caltech Flying Club. Temporarily headed by grad students Dave Carterlight and Dave Wooten and senior Don Blumenshah, each have contributed $100 toward the establishment of the club with the above three adding the remainder of a $5000 total. With this working capital, sky's the limit plans for the club have started their ground roll toward take-off.

Lots of Enthusiasm

A bank account in the name of the Caltech Flying Club has been opened, and affidavits of the club's resources are currently being sent a copy of the club's charter, but the club's leaders expect very favorable response to their aid requests.

It is hoped that a company such as Cassina or Piper will donate an old 150 or Triglider to the club in lieu of a cash grant. This would be preferable in the eyes of club members since $1000 of the initial costs of the club has been allocated to the purchase of an aircraft.

The club members will also pay a $5 monthly fee toward maintenance of the club's activities, covering such items as the prorated costs of 1000-hour major overhauls on the club aircraft and the like.

Subsequent flight plans include the construction of a minimum performance glider (it would fly at 35 mph!) this summer by club members, a perfect compendium for the currents that rush around the nearby San Gabriels and San Bernadinos.

So look to the sky! The Caltech Flying Club's taking off!

By area business from a firm such as Northrop or Douglas, the latter of which owns and operates a considerable portion of Long Beach airport) and a $150 incorporation fee.

Club members will also pay a $1 monthly fee toward maintenance of the club's activities, covering such items as the prorated costs of 1000-hour major overhauls on the club aircraft and the like.

Other costs will include $700 for first year's insurance, $300 for first year's tie-down (also a possible contribution from a firm such as Northrop or Douglas, the latter of which owns and operates a considerable portion of Long Beach airport) and a $150 incorporation fee.

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The American Road, Dearborn, Michigan

The Ford Motor Company find themselves very much a part of this kind of stimulation because they believe the coupling of top experience and talent with youth and professional climate is one essential. A prime ingredient of this climate is the stimulation that comes from working with the top people in a field ... such as Dr. James Mercereau. Jim Mercereau joined our Scientific Laboratory in 1962. Recently, he headed a team of physicists who verified aspects of the Quantum Theory by creating a giant, observable quantum effect in superconductors. This outstanding achievement was the major reason the U.S. Air Force and the Department of Commerce selected Dr. Mercereau as one of America's Ten Outstanding Young Men of 1964.

Your area of interest may be far different from Dr. Mercereau's; however, you will come in contact with outstanding men in all fields at Ford Motor Company.

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