

LOST WEEKEND
AND
MOTHERS' DAY
ARE COMING.

California Tech

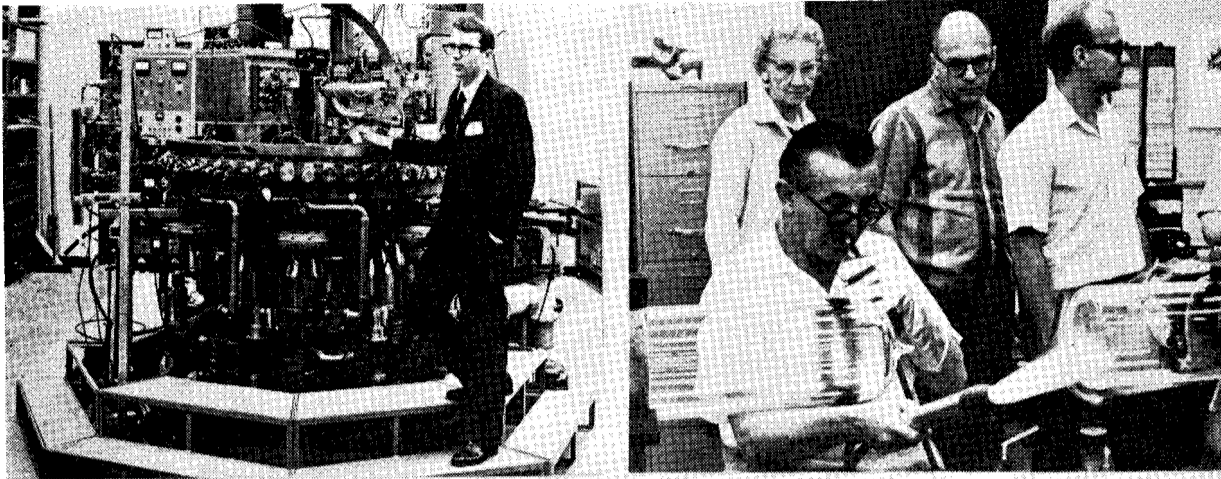
Associated Students of the California Institute of Technology

CAUSE
AND
EFFECT?

Volume LXIX

Pasadena, California, Thursday, May 9, 1968

Number 27



U. Left: Robbin Martin, Caltech Postdoctoral Fellow, shows Noyes' molecular beam apparatus. U. Right: Erich Siegel performs miracles with silicon dioxide. Lower: The new, improved, one and only Arthur Amos Noyes Laboratory of Chemical Physics.

Leading Scientists Attend Dedication

by Jim Cooper

The newest addition to the Caltech campus — the Arthur Amos Noyes Laboratory of Chemical Physics — was formally dedicated in ceremonies Tuesday afternoon at Beckman Auditorium. The dedication was the culmination of two days of lectures in the field of chemical physics by leading experts from across the nation. The symposium was attended by nearly 300 representatives of industry, educational institutions, and the Federal government; as well as Caltech faculty members, graduate students and undergraduates.

Speakers included Dr. Linus Pauling, Professor of Chemistry at the University of California at San Diego; Erwin L. Hahn, Professor of Physics at the University of California at Berkeley; and Martin Karplus, Professor of Chemistry at Harvard University.

At the dedication ceremonies themselves, the key to Noyes Laboratory was presented to Dr. Lee A. DuBridge by Dr. Arnold O. Beckman, Chairman of the Board of Trustees of the California Institute. Initially, some microphone trouble was experienced, causing Dr. Beckman to quip, "As you get older, you learn not to trust electronic devices." After the trouble was cleared up, Dr. Beckman expressed confidence that the tradition of innovation and research excellence exemplified by Dr. Noyes would be continued by

the users of Noyes Laboratory. Dr. Beckman also pointed out the great generosity of the donor of Noyes Laboratory, who wished to remain anonymous.

Following the receipt of the key, Dr. George S. Hammond, Acting Chairman of the Chemistry Division, presented Leland Haworth, Director of the National Science Foundation. The NSF also contributed to the costs of the new laboratory.

Mr. Haworth commented upon the need for scientists to more effectively communicate with the public. He stated, "We must communicate the idea that the universe makes sense — not necessarily common sense." Scientists, he continued, must be able to justify their research programs both to themselves as well as to the general public. He then called for a long-range public education program which would enable the public to more fully experience the accomplishments and the emotion of science.

Following Haworth's address, two Caltech professors — Dr. Ernest C. Watson and Dr. Ernest H. Swift — gave personal recollections of Arthur Amos Noyes, who was Chairman of the Division of Chemistry at Caltech from 1920 until his death in 1936. They both recounted the key role he played in the development of Caltech into the outstanding scientific institution it is today. It was Noyes who laid down most of the basic principles upon which the Institute still operates; the restriction of

class size, the emphasis upon fundamentals, and even the freedom of the student body government and the house system all were largely Noyes' contributions.

ASCIT Musical Nearly Fortified

What is a castle? What happens when people get together and build a castle? How does a castle support a spirit of cooperation and unity?

The answers to these questions can all be found in Beckman Auditorium on May 17 and 18 (only a week away!) as the 1968 ASCIT Musical, **The Castle** is presented in its world premiere performances. There is no admission charge for ASCIT members.

Under the leadership of Director Jim Downum, Author Dan Nemzer, Composer Mike Garet, and Choreographer Dick Neu, **The Castle** team is spending long hours in rehearsals this week to fit all the parts of the production together. Rehearsals for individual songs, dances, and acting scenes have been progressing since early March, and dancing and orchestra practice started last fall.

Terry Bruns, a senior, plays Island, a "low-income world traveler" who wanders into a Spanish fishing village, which is presided over by Capt. Diaz the old fisherman, played by Chris Reed. Two of the girls of the village are Maria and Teresa,

Petition Circulated for Rhodes' Recall

by Alan Stein

Has Joe Rhodes been going too far, too fast, too soon? This was one of the questions that a group of students were asking themselves when, last week, they initiated a petition asking for the recall of Joe Rhodes from the office of ASCIT President. Such a petition would need signatures from 25% of the student body before it would be open to a general ballot. A 2/3 majority would then be needed to remove Rhodes from office.

The reasons given by this group, which calls itself "the com-

mittee," regarding this action varied from student to student, but a few general comments can be made. The committee is neither anti-ASCIT nor anti-ARP. The petition is not intended as a personal attack against Rhodes nor were personality conflicts responsible for it. The committee does believe that there are some serious problems with the way that Rhodes is handling the student government.

Rhodes moves too fast

The committee feels that one of these problems is that Rhodes moves far too fast in his attempts to accomplish his goals. Some people are scared off by this approach, others are alienated. The remaining people find themselves trying to keep up with Rhodes, and at the same time, handle all the work that has to be done for the programs that Rhodes sets up. The committee does not believe that such projects as the coffeehouse or ARP are bad, but the members do feel that this breakneck, all or nothing pace is harmful. Joe Rhodes seems to move at 78 RPM, while the rest of the world is at 33 1/3; it would help the student body if Rhodes could slow to at least 45.

The committee also complains that, in order to proceed at such a rapid pace, Rhodes has seen fit to be very arbitrary in his handling of student business. It is claimed that Rhodes, as ASCIT President, has ignored motions made which do not agree with what he has in mind.

Hope for better president

These beliefs, along with others, prompted the committee to produce the petition. The petition still has nowhere near the number of signatures it needs, nor has the committee found someone to take Rhodes' place if he is recalled. Some members of the committee do feel that it is not so important that Rhodes be recalled as the he be made aware that disapproval of his actions does exist. The committee hopes, therefore, that their petition will result in a better president for ASCIT whether it passes or not.

SENIORS DITCH CAMPUS

by Carroll and Cooper

Last Wednesday certain members of the Caltech community were conspicuous by their absence. Namely, members of the Class of '68 had departed these hallowed grounds for the sanguine sands of Santa Monica Beach. Of course, knowing the senior class, one can readily deduce that the only event which could drag these dedicated seniors from their classes would be Senior Ditch Day.

Senior Ditch Day — that glorious Caltech tradition in which underclassmen who have become disgusted with the seniors have the opportunity to show the seniors exactly what they think of them. The underclassmen do this

(Continued on page 3)

Notices

POWER, GLORY, FAME, FORTUNE, ETC.,

Nominations are now open for class offices. If you want your name on the ballot, see Larry Shirley, Ruddock House.

POWER, GLORY, FAME, FORTUNE, AGAIN

Nominations are now open for positions on the ASCIT Executive Committee. If you are interested, submit application to Larry Shirley, Ruddock House.

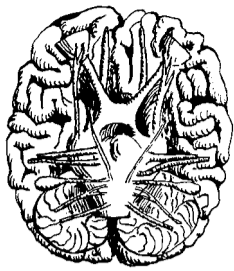
MOVIE DISCOUNT TICKETS

Cards worth a 50c discount at Cinematheque 16 for any show and good for 6 months are available for \$1.00 from the Business Manager, California Tech, Winnett Center. Call ext. 2154 for information.

INTERHOUSE BRIDGE TOURNAMENT

The Interhouse Bridge Tournament will be held Monday, May 13 and Thurs., May 16 at 7:30 P.M. in Winnett Clubroom One.

(Continued on page 2)



from the cerebrum

by Lewin

Several months ago, when the last possibility for grad school deferments ran out, the students here knew the meaning of that fear which had never before bothered scientists and engineers. For the first time in my stay at Caltech the campus was galvanized at the gut level by a national issue.

"Hell no, we won't go!" almost became a rallying cry, until President Johnson announced his intention to retire from public office at the end of his term of office. Immediately Vietnam and the Draft looked, to many, to be less dangerous than they had been. Some students who had been ready to go to jail rather than be drafted are acting and talking as if the war were already over. Of course, the only way to act in total uncertainty is as if nothing will occur to

change your plans, but it is foolish to believe this.

Just because Johnson and Ho are playing at setting up peace talks does not mean that the number of Americans in Vietnam is going to decrease immediately (in fact, the number is still increasing). Remember that peace talks themselves will not halt fighting — the first item to be negotiated will be a cease-fire — and remember that there are three months from June to September, but most of all remember that the President holds office until the President-elect is inaugurated.

A recent survey of Caltech seniors showed one-fifth would go to jail rather than be drafted and only one would flee to Canada. This last figure is much too low, but I am sure both figures are lower than they were in February.

Frets and Frails

by Weber and Boule

This month the Pasadena Ice House presents a triumvirate of entertainment. Headed by the always popular Bud Dashiell, the others are Rusty Stegall and Ken Vassy.

Rusty Stegall, who opened the show, presented country and western music without the usual, annoying twang. In between his numbers he told jokes which, although familiar to country and western fans, were new to most of the audience, and were delivered

at a pace which would leave Rowan and Martin in the dust.

Ken "I'm a Bitchin' Guy" Vassy was much more impressed with his act than the audience was. His standard rock numbers and inadequate attempts at soul music were performed with all the suavity of a high school student body president.

Bud Dashiell appeared to be the missing link as he walked on stage: a crew cut hippie, complete with peace beads. He did a couple of Spanish numbers - a standard for Bud Dashiell. In Bamba" and "Malaguena Santa Rosa" he showed why he is an Ice House favorite: excellent guitar work paired with an expressive delivery. His version of "I think It's Going to Rain Today" was much better than that of Judy Collins - she makes it a beautiful song; Dashiell turn it into a message.

Letters

In the last *Tech* the editors mislabeled Harkness' pan of Tucker's pan of the draft, which Spencer also panned as Harkness' pan of Spencer's pan of Tucker's pan of the draft. This week's letter (in an apparently unending sequence) is

Tucker Pans Harkness' Pan of Tucker's Pan of the Draft Which Spencer Panned

Dear Co-eds:

Last week (May 2), Greg Harkness suggested that what I had called either "society" or "community" was in fact simply the sum of a mass of individuals. In the sense of a "conscious, acting entity" he is perhaps correct, but he is not in the sense that if you compare a mass of separate people and a "society" you will find in the latter an interaction in the latter which leads to an increase in informational content and a reduction in disorder (entropy to you guys). A boy raised alone in the forest by wolves probably would not decide that gold was worth either \$35, \$45, or \$85 an ounce, or that beards or long hair were Communistic, or black men the sons of Cain. I might also mention that A.T. and T., General Motors, Selective Service, or the State Dept. hardly are capable of bargaining as individuals, nor would that fact be altered by individual ownership or a return to the gold standard. Would Mr. Harkness propose doing away with all large organizations?

Little difference

Surely there is little difference between the economic marketplace declaring that I shall have to spend 25c for a coconut, \$130 an ounce for platinum, or \$50 for a share of A. T. and T. common, and the marketplace of power declaring that I shall pay 15% for the use of its money. In Mr. Harkness' words (in quotes); Money "is an institution in society (sic!) which is valuable only because, and only if, it" returns a good greater than its cost. "Since it is valuable, people should pay for it just as they pay for insurance." etc. Negative interest might be aesthetically more

pleasing, but not as workable as taxes.

There are two more obvious difficulties in the Harkness viewpoint. The first is that it recognizes no evil. I can pay \$50 or not have any A. T. and T., pay taxes or make no money, kill Asians or go to prison (Which will Gregory Harkness choose?). As long as I make my individual decision (which I always can), and so long as the individuals with whom I bargain make theirs, the consequences are ir-

(Continued to page 3)

Concerning the Recall

Editors:

I wish to tell the students of Caltech my personal reasons for joining the movement to recall Joseph Rhodes. I ask you to please bear with me.

Joe is my friend. Although his opinion of me has undoubtedly (and justifiably) changed, I still feel that Joe has the potential to be a great leader. I further feel that there has been much confusion and misunderstanding both on the part of the students and on the part of Joe. I believe that the path Joe is currently pursuing will lead to the dissipation of ASCIT. It was my hope that this recall would bring out the

(Continued to page 3)

More Notices

(Cont. from Col. 1)

Can Teckers live up to this challenge?

95 BITES

A public service announcement for preregistration week.

PEACE CORPS

Peace Corps volunteer couple recently returned from India on campus May 9 & 10. Free literature & information on Olive Walk 9 a.m. - 2 p.m. Tests given YMCA offices.

CREATIVE SEMINAR

ASCIT Research Project Seminar — "The Care and Feeding of Creative Thought," by Jay Freeman. Friday, May 10, at 4:00 P.M. in Winnett Clubroom Two. Come and learn how you, too, can be creative.

ASCIT BUDGETING

All organizations which need money from the ASCIT Budget should submit budget requests to Joe Feng in Blacker House as soon as possible.

WHAT IS A CASTLE?

There will be two chances to find out on May 17 and 18 at 8:30 p.m. in Beckman Auditorium. Free to all ASCIT members. Besides finding out what a castle is, you can see an exciting new musical play presented by students of Caltech and PCC.

INSTANT INSANITY

Glen Whitehead will talk on INSTANT INSANITY MADE SANE at the Caltech Math Club meeting on Tuesday, May 14, Sloan Lounge, 7:30 P.M. Everyone invited.

More Notices

(Continued from page 1)

RAM FOOTBALL HIGHLIGHTS

Highlights of the Los Angeles Rams 1967-68 season will be shown in Room 24 in the Gym at 4:15 on Mon., May 13.

SENIORS

and other students leaving next year, if you want to receive your copy of this year's Big T, we must have an address at which you can guarantee you will receive the book sometime next September, i.e. parents' address, etc. Sign the list on the Big T office door in Winnett.

STUDLY TECKERS!!!

Playboy will be coming to the Caltech campus to do a men's fashion lay-out. They have the misguided idea that they can find Teckers to do the job of modeling. If you think you qualify come to Winnett Lounge May 15 between 10:30 and noon for an interview. If you are chosen you will receive \$25 for about half-a-day's work. (Continued on Col. 5)

Happy 50th on Saturday
Richard P.

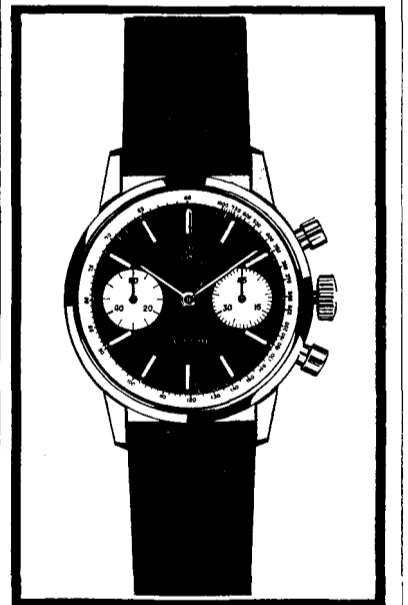
from the Tech staff

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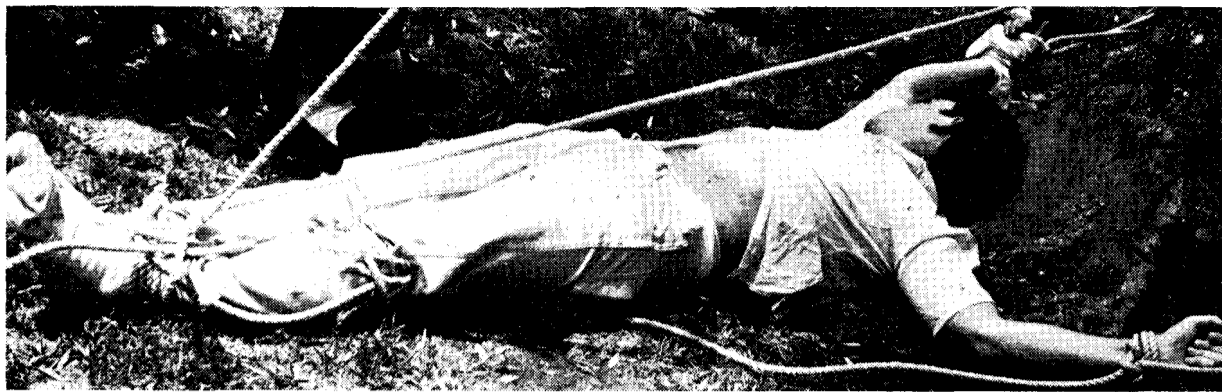
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"Forgive them, for they know not what they do." —Dumb Senior (1968)

Seniors Ditch Campus

(Continued from page 1)

by wreaking various kinds of havoc upon senior rooms. The seniors, on the other hand, attempt to foil them by locking or "stacking" their rooms with devices which theoretically could only be opened by the room's owner. Although the seniors may choose not to stack their rooms, enough of the tradition is still left so that any seniors remaining on campus are in peril of some sort.

Apathy strikes

However, the excitement wasn't as feverish as it could have been. Only seven rooms on the entire campus were stacked. Two of these seven rooms were juniors' rooms, meaning that only five seniors overcame their apathy enough to participate in the purported festivities.

The old houses could barely be considered participants. The only stacked room was in Fleming, and it was the first of the day to be cracked. The stack was a cooperative effort of several Fleming seniors including John Walters, Dick Bild, Roger Davidheiser, Ken Yano, John Wilschke, Glen Whitehead, David Chang, and Martin Flannery. The stack required the use of a radioactive isotope activating a scintillation-counter for proper entry. However, the Flem frosh used strong-

arm methods as an alternative procedure and gained entry through the room's transom around noon.

In Dabney, Blacker, Lloyd, and Ricketts, virtually no notice of the day was taken. One Ricketts' senior, Phil Doberne, was blatant enough in his presence on campus to stimulate the underclassmen of the House to enforce the traditional punishment for seniors caught on campus on Ditch Day: tying to a tree. (See accompanying photo.) Mike Meo (Lloyd), former fearless Tech editor, suffered a similar fate.

Dumb brutes

The real stars of Ditch Day were the seniors of Ruddock House. Bart Gordon and Paul Brandon used real Tech ingenuity in sealing their rooms, neither of which was ever penetrated by the underclassmen. A third senior, James Mairoana, had his room penetrated only by the sheer, dumb, brute strength of a certain House member, and not through any real intelligence on the part of the underclassmen.

Gordon's device consisted of random magnetic reeds, relays, a mercury switch on the door-knob, and a solenoid keeping the door shut. All had to be worked simultaneously to enter. Brandon's set-up consisted of a radio-relay-solenoid device which

picked up the static from the fluorescent light fixtures. To enter, Brandon merely had to turn off near-by fluorescent lights, and wait several minutes for a built-in time delay to pass.

Unsuspecting accomplice

Maiorana's room, although entered, was also protected by an ingenious device. Maiorana had dangled a conductivity-sensing probe into the drain of the sink of the room below. If acid or a salt solution was poured into the unsuspecting accomplice's sink, a series of events involving a relay, an explosive bolt, and the dropping of a weight would take place resulting in the eventual opening of the door. The brute force method used for entry consisted of pulling off the doorknob.

Two seniors in Page participated, as did two juniors who evidently considered themselves seniors. Senior Jim Burns stumped the underclassmen with a simple lock-picking challenge. Senior Greg Thompson and juniors Rob Drew and Gene Smith were not so fortunate, however. Thompson's stack consisted of quantities of lumber, wood, and fiberglass. His locking device was to have been triggered by a microwave signal. Again, brute force overcame ingenuity. The key to the juniors' rooms consisted of the manipulation of certain strings in a certain combination. Here, the entry was made by application of what little intelligence the underclassmen had.

Occupants of entered rooms found either a large, "free-form" metal sculpture occupying most of the space in their room, a room empty of furniture, or a sealed room containing two large, fresh (?) tuna basking under a heat lamp.

Several seniors about the campus escaped the retribution of the underclassmen by leaving bribes, mainly in the form of liquid refreshment. Most, however, paid no attention to the special significance of the day. They merely refrained from attending classes, thereby getting a free holiday. The Tech feels that the seniors should have been more industrious; Ditch Day would have been more fun for all if Caltech had been better stacked.

Recall Continued Towering Eyeful

(Continued from page 2)

truth about these matters and clear up the misunderstandings. It was also my desire to see the present BOD brought into a greater awareness of student desires and to serve the students as elected. I swear that I had no conscious desire for attention or revenge.

The Committee is looking for a new President. I think I have found him. The NEW Joseph Rhodes. The Joe Rhodes who will act from the truths brought out by this recall. The Joe Rhodes who desires to serve and who has found the RIGHT way to serve. The Joe Rhodes who can be the best leader this campus ever had. And this new Joe Rhodes will lead ASCIT through its revision to become a vital responsive organ of the students' needs.

A member of The Committee (Name withheld upon request)

Tucker Cont.

(Continued from page 2)

relevant. Objectively, then, there is no evil. The second difficulty is that if everyone pays for his own protection, who is to decide from what it is fair that they protect themselves (from competition?)?

In the words of Gregory Harkness: "Taking all his savings and income away would not differ significantly from shooting him." That's where its at with the law-and-order-shoot-em-first gang these days, baby. So much for rags-to-riches.

Love,
George K. Tucker

by Nancy Grana

Some time ago, I went to see "The Web and the Rock," a play adapted by an illiterate director, Philip Abbott, from the book by Thomas Wolfe. It was acted, or should I say "put on," in the Beverly Hills High School Auditorium by what, from the quality of the performance, should have been the Beverly Hills Grade School Drama Club.

The slaughter of Mr. Wolfe's book is indicated in the review which the killer wrote for the program guide. At one point, he disclaimed the opinion that the book was an autobiography on the grounds that the author was 6'4" and the protagonist of the book was 5'10".

The audience, as illiterate as the director-adaptor and better actors than the cast, applauded the play wildly. My date and I applauded in thanks for the ending.

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FRI., MAY 17 8:30 PM
SAT., JUNE 1 8:30 PM

Beavers Tie for Last At SCIAC League Meet

In the SCIAC All-League track meet, held May 3, the Beavers could only manage to score 8 points as they tied for last with Claremont Harvey-Mudd. Occidental, with top performances and depth, won the meet with 106 points. Redlands was second with 65 points while Pomona was third with 26. Whittier was fifth.

The Tecker points came from the two relay teams and from Burton and Petrie who finished fourth and fifth in the javelin. The team of Schultz, Butterworth, Tarjan and Stanley took third in the 440 relay event with their best time of 43.6. In the mile relay the team of Antaki, Butterworth, and Stanley raced to a clocking of 3:02.8, the year's

Teckers Drop 2 to Whittier

Once more the Caltech baseball team bit the everloving dust by losing both games of Saturday's home doubleheader against the Poets of Whittier. The 3-2 and 6-0 defeats brought Caltech's final SCIAC conference record to 2-13, worst in the conference.

Jay Chapyak started the seven-inning first game for CIT. He pitched well and took a 2-1 lead into the top of the sixth inning. Frazzini came on in relief as the Poets tied the score. The Beavers failed to score in the bottom of the sixth. In the top of the seventh and final inning, the Poets got their third and winning run, and CIT could not score in the last half of the inning.

Ironically, Frazzini was also the losing pitcher in the 6-0 second game. The story here was good Poet pitching and poor Beaver hitting. Caltech collected only three hits while Whittier slowly added runs.

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Netters Lose 68'ers Win Fleming Olympiad

A skeleton Caltech tennis team, confident from its recent victory over Cal Poly, was unable to convert its spirit to skill last Wednesday as it lost to humble Whittier, 7-2.

Roger Davidheiser playing first man who unfortunate loss of his second set ultimately cost him the match, lost 3-8, 8-6, 6-1. Jonn Healy returned after a long-term malady to find that he should have stayed in bed, losing 6-0, 6-0. Guy Duesdieker dropped his contest 7-5, 6-4, while sturdies Evans and Frost were winning theirs, 7-5, 6-4, and 6-2, 1-6, 6-2 respectively. Glenn Prestwich, recently brought up from the junior varsity, found the going rough in his 6-2, 6-0 defeat.

The doubles team of Davidheiser and Duesdieker made a good effort, but finished second 6-4, 7-5 to the team of Jordon and Pate. Evans and Frost, coasting through a breezy 6-1 set, were unpleasantly dumped in the 6-0, 6-1 sets which followed.

The annual Fleming House Olympiad was held on May 6. The seniors were victorious while the sophomores were close behind in second. The frosh were back in third but were far ahead of the last place juniors.

The traditional event begins early in the morning with a freshman relay race from the Rose Bowl to Tournament Park. This year the freshmen set a new record of 16:25 beating the old record by almost 45 seconds.

The next event is the 10 man shot put event where each man puts the 12 lb. shot and the total distance is counted. Following this is a 10 man 1100 yd. relay race. Both events were won by the seniors.

The rest of the morning was spent playing 3-3 inning softball games. The sophomores were first in this part of the contest. After lunch, competition resumed with basketball. The seniors were victorious, winning all 3 of their games.

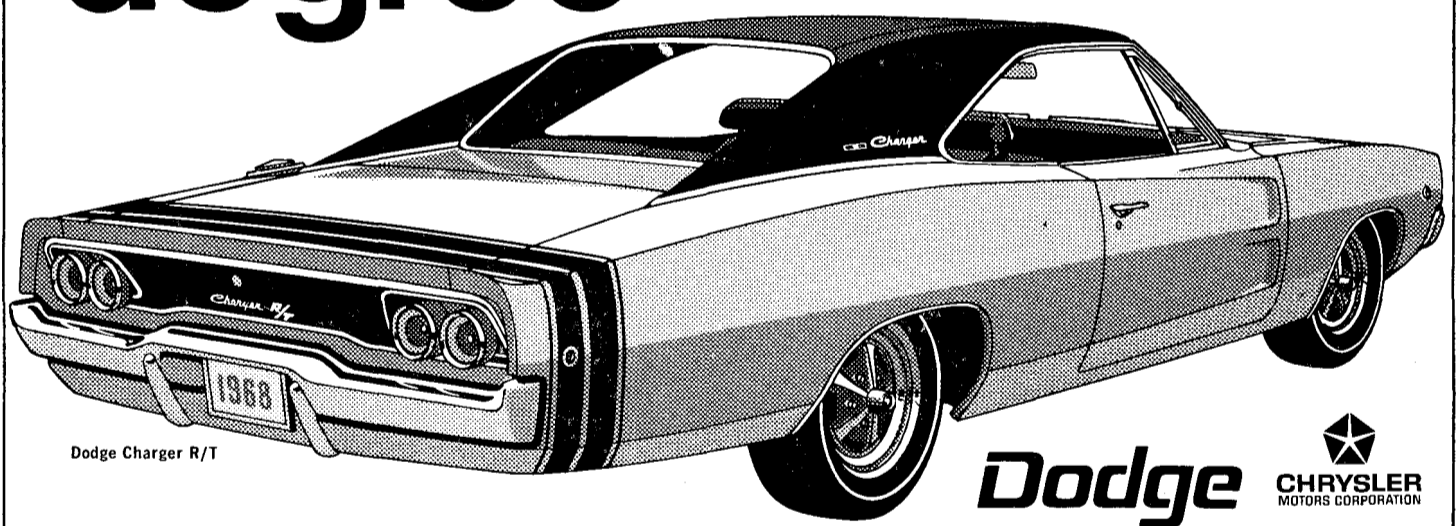
Volleyball was next on the agenda and a 3-way tie, for first place resulted as the seniors, juniors and sophomores had identical 2-1 records. The day ended with a 10 man 250 yard swimming relay which the sophomores captured, winning by over a length.

Schramm Fund Nets Over \$120

Representatives from each of the Student Houses collected money to help send Coach Schramm to the Final Olympic Wrestling Trials this week. The students gave \$120.60 to help Coach Schramm. Following is a tally of each House's donation:

- Ruddock—\$31.60
- Fleming—\$30.45
- Dabney—\$19.83
- Blacker—\$14.85
- Lloyd—\$13.41
- Ricketts—\$8.11
- Page \$2.47.

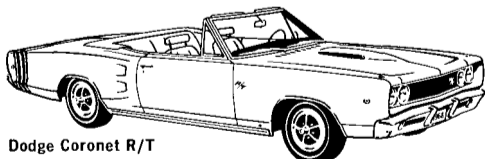
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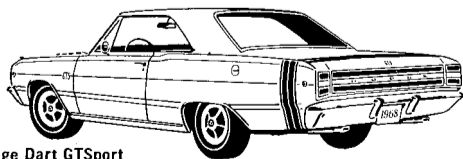
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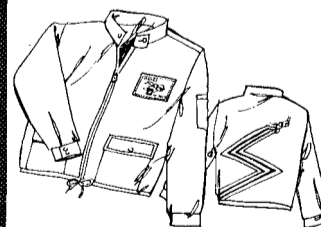
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