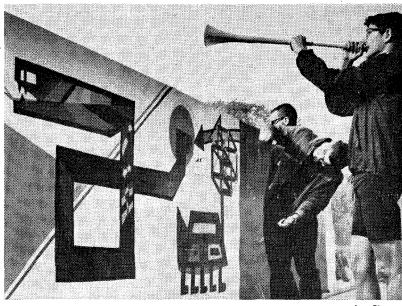
Ricketts wins art contest



Ricketts House members pose by first place winner "Snake and Turtle" in

The first annual Millikan Art Contest, "and hopefully the last," according to Dr. Robert Huttenback, Master of Student Houses, concluded as a great success Monday afternoon with some 16 total entries. First place in the main division went to Ricketts' "Snake and Turtle" entry, while second and third places in the same division went to Ruddock's "Soupy" and Fleming's unnamed pop art entry. The prize for the best in the "voluntary" division went to Fleming's collage on the north side of the fence. The first, second and third places in the main division netted the winners \$50, \$20, and \$10 respectively.

Press, tv coverage

In addition to drawing television coverage from CBS on Sunday, the contest also attracted reporters and photographers from the Herald-Examiner and the

"The judges all agree that this is an outstanding display of artistic talent," said Huttenback in his introductory speech. He continued by stating that the art contest showed that "When the Tecker puts his mind to it, he does it, . . . or something."

Bagpipe music

The judging started promptly at 2:30 p.m. and was completed by 2:45 p.m. with the entertainment in the interim being some Scottish bagpipe numbers. The judges, Dr. Robert Wark, Curator of the Huntington Art Gallery, Mr. Morris Smith, director of the Add-Art Museum of Pasadena, and Mrs. Jennifer Ross, artistic advisor for the Division of Humanities and Social Sciences, reconvened after 15 minutes of consideration.

Jovial Huttenback then doffed his white beret, assumed a Hitchcockian pose, and announced the winners in the two divisions.

The first place entry, "Snake and Turtle" by Alphonso Redouya of Ricketts House is a Picassoesque image of the two animals which are sectioned in livid colors, Ruddock's "Soupy" shows a TV screen image of the face and hands of a singing Soupy Sales. The face of the singer consists of light scanlines across a dark screen. Fleming's entry in the main division, taken from a comic book, has two fictional heroes portrayed. One (Nick Fury) is saying "Nothin"! I just burped!", while the other (Thor?) has been knocked on his can by a huge "THOOM!" and exclaims, "By the golden girdle of Volstagg —I am saved."

Tired collage

Around the corner and behind the big tree lies Fleming's collage, which includes a golden tire as the Nobel Prize in physics, several random drawings, and a sign which reads: "Where will YOU spend eternity?" The Feynman tribute captured \$15 for the best entry in the voluntary di-

Page had an entry painted in the classical style named "South of Laguna," which contrasts the dark blues of the sky and horizon with the beach of a small bay. A view from the interior of a gorilla's cage which includes most of an enlarged newspaper article, was entered by Blacker. The story in the newspaper tells of two random gorillas winning some random pop art contest (well, . . . given an infinite number of monkeys . . .).

Submarwhales?

Dabney offered a masterpiece of square and rectangular shapes painted on a large washboard surface in such a manner that the patterns seen depend on the observer's angle of vision. "Love at first sight," describing a relationship between Verne's submarine, the Nautilus, and a whale, was entered by Lloyd House.

The three grad houses also came through with flying colors, especially Mosher - Jorgensen House flying the Canadian colors on a large 5 cent postage stamp. Marks House entered a Japanese nature scene showing Mt. Fujiyama and a tori reflected in a clear pool. Keck's painting "Remember, it leads outside," shows a view of a man leaving a room chuck full of scientific paraphanalia.

Holy Bats, man!

The other voluntary entries include "Angel of Vengence" by Professor Wasserburg of the Geology Division. Next along the south side of the fence between Bridge and Sloan is a drawing by Mrs. Huttenback, and a bloodshot eye by Ray Wakefield of Page. Along the east side of the fence is a Batman sign courtesy of Robin, while around the north side, in addition to Fleming's prize-winning collage, is a sore thumb by the Plumbing House Mickey Mouse Club. Last, but certainly not the least pleasing, is a nude by Doug Gage of Ruddock House.

It is hoped that the artwork will remain intact on the fence as a semi-permanent contribution to campus beauty. Such examples of Caltech creativity furnish good public relations: Caltech men, masters of science, treechopping, and artistry! Further artistic contributions on the vacant panels will be welcomed.

Caltech takes fifth place in Putnam exams

Caltech's team took fifth place in the twenty-sixth annual William Lowell Putnam Mathematical Competition, administered at Caltech November 20.

The team, consisting of graduating junior Vern Poythress, junior Stacy Langton, and sophomore Fred Ferdman, won ten dollars for each of its members and \$100 for the Math Department.

Non-team highest

The highest score from Caltech was a non-team score, that of senior Richard Stanley, who placed ninth out of the 1596 contestants, winning \$35. Poythress lead the team, finishing thirteenth; Poythress, Glenn Engebretsen, David Chu, and Kim Gibson all received honorable mention from the Putnam Committee.

Better losers

Finishing ahead of Caltech were Harvard, MIT, University of Toronto, and Princeton. Caltech has traditionally been a high scorer, and won first place in the Putnam last year.

The Putnam examination is a 6-hour morning - and - afternoon test sponsored by the Mathematical Association of America. It consists of 12 problems, is open to anyone, and is given on the same day near the end of first term at all participating schools.

aliforniale

Associated Students of the California Institute of Technology

Volume LXVII.

Pasadena, California, Thursday, January 27, 1966

Number 15

EPC to poll on grades

The Educational Policies Committee will distribute a poll on frosh grades to all undergraduates next week. Results of the poll will have a major part in deciding the fate of the controversial system of no grades for frosh. The group was asked by the Faculty Committee on the Freshman Year to gather and evaluate student opinion on the subject.

Discrimination

Separate questionnaires for frosh, sophomores, and upperclassmen, as well as a section applicable to everyone, will be distributed in the Student Houses Monday and will be picked up Wednesday at noon.

EPC Chairman Jerry Yudelson commented, "This poll is extremely important, because the results will enable us to make recommendations to the Faculty Committee which accurately reflect the students' point of view. It's necessary for us to get as large a sample as possible in order to do an effective job."

Wide range

The poll is intended to gather information about a range of subjects related to the frosh nongrading system, such as the effect of grades in the sophomore year, use of free time, honors work, the advisor system, and attitude toward learning. dents will be requested to com-

ment freely, since qualitative information will be quite useful.

Of particular interest will be answers to questions concerning alternatives to the present system. The committees have already discussed such alternatives as keeping grades only for the student's own use, abolishing grades in the sophomore year, and introducing grades in third term of the frosh year.

Results used

The EPC will present its evaluation of the poll's results to the Faculty Committee on February 17. The Faculty Committee will combine this with other data and present its evaluations to the faculty at a general meeting on February 28. The faculty will then deliberate on the data and evaluations and in April will decide the fate of frosh grades.

Come alive at the CIT-Scripps

by Joel Goldberg

The Caltech-Scripps Conference, sponsored by the YMCA, is coming soon. As always there will be discussion, fun-and-games, and lots of Scrippsies. But this year's emphasis will be more on the fun-and-games, and less on the discussions. So save the weekend of February 11 and try to make it.

The entire weekend will be centered around the work of Miss Viola Spolin, author of Improvisation for the Theatre and a visiting lecturer in theatre arts at Sarah Lawrence College. The wekend's theme, "Coming Alive — The Search for Identity in the Modern World," will be dealt with through a series of group games and exercises devised by Miss Spolin. She is the leading innovator in the use of dramatic techniques to enhance interpersonal relations.

Thus the weekend will concentrate on experimental encounters, with an emphasis on confrontation of the self. The word from Dr. and Mrs. John Weir, associate professor of psychology, who have participated in Spolin games before, is that the games are valuable as an experience and also fun. At that rate you

The n-th annual, always bitchin' conference will be held at smog-free Firestone Boy Scout Reservation. The conference has

(Continued on page 8)

Notices

OLIVER!

Dr. Robert Oliver, Econ prof and Pasadena BOD member, speaks to the YD's tonight at 7:30 in Winnett Lounge. His topic: "Party Politics." Yudelson assures us that it's relatively non-partisan and that the entire campus is invited. It will be informal, with questions af terward.

CQ-CQ-CQ DE W6UE

There will be a meeting of the Caltech Amateur Radio Club tonight, at 7:30 in Clubroom No. 1. Anyone interested in joining is in-

FROSH CAMP COUNSELORS

Any Tecker interested in being a counselor at next fall's New Student Camp should inform his House representative of that desire by February 7; informees are John Eastment, Blacker; Sean Solomon, Dabney; Gordon Myers, Fleming; Page; Gary Ratner, Ricketts; and Stuart Galley, Ruddock.

BRIDGE TOURNAMENT

be competing in the National Inter-Collegiate Bridge Tournament. Regional games will be played in Winnett Lounge February 4 at 7:30 p.m. Further information and sign up list on Winnett bulletin board.

Charities drive on

Saturday marks the conclusion of the annual ASCIT Charities Drive. Included in the competition of giving this year are the World University Service, the LA County Heart Association, and the perennial old favorite, Planned Parenthood, 50 years old this year.

Cool groups, guys

The World University Service is an organization with student groups in over sixty countries, devoted to the alleviation of poverty, illness, and disease in underdeveloped countries by the promotion of higher education. The Heart Association is devoted to reducing the number of deaths due to cardiovascular causes. To this end, it publishes journals, holds scientific sessions attended by thousands of physicians, helps maintain heart clinics, and sets standards of cardiovascular care. As for Planned Parenthood, if you had given to the Planned Parenthood League twenty years ago, you wouldn't be here today.

Last year the House with the greatest per capita contribution was Lloyd, at \$5.95 per man. As a result the Surfers won the prized steak dinner and obliging faculty waiters, just as they had the year before. It is rumored that Lloyd plans to win again this year, but the other Houses haven't given up yet.

Lecture last night

Dr. Alan Guttmacher, President of Planned Parenthood -World Population, gave a lecture last night in Winnett Student Center, and President Johnson has declared February National Heart Month. Last year's overall average contribution was about three dollars per person.

The grand total of last year's drive was \$1889, with \$723 pledged to Planned Parenthood and \$671 to the National Multiple Sclerosis Society. The World University Service received \$495.

vited to attend.

John Walter, Lloyd; Bill Colglazier,

For the second year Caltech will

Editorial

To grade or not to grade?

The two year trial period of not grading freshmen is rapidly drawing to a close. In April, the faculty will vote on whether to continue, change, or abolish the system. In preparation for this decision, the Faculty Committee on the Freshman Year is gathering every possible datum that might bear on the subject.

Of course student opinion will be a major factor in the decision, both for the new viewpoints exposed and for the information available on how a student feels as he goes through the system. It is significant that the all-student Educational Policies Committee has been charged with both administering the poll and evaluating it. This underscores the fact that the faculty wants pure student views.

Due to the weight that this poll will carry, it is extremely important that you answer truthfully and at length. It is even more important, however, that everyone does answer.

-Berry, Greenfeld, Hendrickson



It's ASCIT Charities Drive time again, and while you ought to contribute to all three charities, please give a little extra to Planned Parenthood. Although it has caused much humor on campus, this organization has at the same time won the serious acceptance of most of us. Last year it garnered more money than the other two, and the ASCIT BOD made a special motion to have it included in this year's drive.

No one disputes that serious problems are going to arise due to the world's population growth, but few do anything about it. Planned Parenthood does. While the alternatives may not be restricted to birth control or the Bomb, contraception is an economical, practical, far-sighted way out. Let's give it the support it deserves.

-Berry, Hendrickson, Greenfeld

By-Laws amendments pending

The ASCIT Executive Committee has brought forth a series amendments to the ASCIT By-Laws along with a complete new article outlining and defining the powers of the Interhouse Committee. All of the amendments must be voted on by the Student Body and a two-thirds majority is required to pass each of them.

The article on the IHC promises to be the most controversial. As of now the IHC is not mentioned in the ASCIT By-Laws. The Interhouse Committee claims "that the IHC is a functional body, created before and independent of the ASCIT Excomm . . . all the stir is due only to a lack of topics for California Tech editorials."

Let the IHC exist!

Basically the clause defines IHC membership and times for meetings. The problems arise over jurisdiction. Section 2 defines IHC jurisdiction as covering anything that affects all the houses - including freshman rotation and the Interhouse sports program - but nothing that affects the affairs of only one house. A clause that will probably be stricken concludes that "in any question of jurisdiction of the Committee, the Executive Committee shall have the final authority."

Dullness

The rest of the changes were much more staid and many of them minor. The more important modifications concern ASCIT elections. If the amendments pass, nominations for offices will be open for one week instead of five days and nominations shall

WANTED

TRANSLATORS FOR JAPANESE AND CHINESE SCIENTIFIC MA-TERIAL, EXCELLENT PAY, SEND RESUME TO P.O. BOX 162, MONTROSE.

be closed by the BOD at least one week prior to the elections. Also with the new changes the Vice-President and Board of Control Secretary will be installed at the beginning of third term rather than the end of second

Open to suggestions

According to Dave Close, Excomm chairman, "I would always be willing to listen to those whose views oppose my preconceived notions," which basically amounts to an invitation for other changes or suggestions.

The complete list of amendments may be found posted in each house.



by Shup

For the jazz-minded the Cal Tjader quintet is now appearing at Shelly's Manne-Hole, the jazz club of Hollywood. For those who have never been, the Manne-Hole is on Cahuenga one block south of Hollywood Blvd. The club is about the size of the Ice House and has an interesting atmosphere, decorated to be the interior of a man-hole. Its rates run about \$2.00 per person plus a drink minimum per set but its entertainment is usually of the highest quality in jazz. Cal Tjader is no exception.

Compose, present

If one can assume jazz to be made up of two major subgroups, simultaneous inspiration and presentation, and inspired composition — Tjader becomes an excellent example of the "sound" artistry that can be achieved through the second; inspired work. His tunes vary from arrangements of popular jazz works to his own compositions done in styles varying from Latin American to what could be called American jazz.

During the first half of the show only a quartet is used; drums, bass, piano, and Tjader on the vibes. The musicians presenting these sound masterpieces all appear to be technical masters of their intstruments, but some fall short of presenting true jazz. In the first half only Tjader and his bassist show themselves able to put enough into their music to give it an emotional quality.

Catharsis

In the second half the group becomes a quintet with the addition of Armando Peraza on the congas. Peraza, like Tjader, has

PAT'S LIQUORS AND DELICATESSEN

1072 E. Colorado SY 6-6761 Open to midnight daily, 1 a.m. Fri. & Sat. Keg Beer Party Supplies

Graduating Scientists:

LOCKHEED MISSILES AND SPACE COMPANY

will be interviewing on campus February 1. Contact the Placement Office for your interview appointment.

An equal opportunity and F/M employer

the ability to produce music which can "reach" the audience. Together, they produce sounds that not only reach the audience but can, and sometimes do, cause a transport of the emotions. This experience alone makes the trip to Hollywood worthwhile.

I recommend the show heartily, but get there fast. His last show is February 8. At its worst the show presents a well rehearsed blend of sounds which produce beautiful and interesting music. At its best Tjader presents the emotional experience of great

H40 bites

Mr. Woodbury and Dr. Hallett Smith were unhappy that the Tech's story on the Spectrum series which appeared on Jan. 13 said that H40 credit for attending the series is available for "minimal outside work." Actually the work is not minimalit involves reading five books plus a five-page paper or an oral exam each term. That's standard H40 work. Would it be possible to see that future references to credit for Spectrum do not use the term "minimal"? Many thanks.

Ed. note: Well, that's minimal

Tom Huff

for, say Ma 2.

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated

Editors-in-Chief

Bob Berry, Norton Greenfeld, Tim Hendrickson John Middleditch, Feature Editor Peter Balint, Sports Editor Bil" Orr, Copy Editor Judi Kelly, Typist Fran McConnell,"

Staff

Stephen Alfin, Bill Boyd, Frank Ettin, Bob Firestone, Kim Gleason, Larry Gorbet, Dave Hammond, Jeff Hecht, Ed Hsi, Joe Jeffrey, Fred Lamb, John McCord, Michael Meo, Bob Pelzmann, John Rouse, Ben Saltzer, Greg Shuptrine, Martin Smith, Jim Woodhead

> **Business Staff** Stuart Galley, Manager

Circulation: Bob Parker, Manager Ed Kelm, Mike Pollock

California Tech, 1201 East California Blvd., Pasadena, California 91109. Represented nationally by National Advertising Service, Inc. Second Class postage paid at Pasadena, California. Printed by Bickley Printing Co., 25 So. Fair Oaks Ave., Pasadena—SY 2-6594 Subscriptions: \$1.50 per term, \$4.00 per year. Life Subscription, \$100.00.



Junior Year New York

Three undergraduate colleges offer students from all parts of the country an opportunity to broaden their educational experience by spending their

Junior Year in New York

New York University is an integral part of the exciting metropolitan community of New York City—the business, cultural, artistic, and financial center of the nation. The city's extraordinary resources greatly enrich both the academic program and the experience of living at New York University with the most cosmopolitan student body in the world.

This program is open to students recommended by the deans of the colleges to which they will return for their degrees. Courses may be taken in the

School of Commerce School of Education Washington Square College of Arts and Science

Write for brochure to Director, Junior Year in New York

NEW YORK UNIVERSITY New York, N.Y. 10003

Monday Beckman lecture

Smith speaks of magnetic fields, charged particles

by McCord

"I'm also a member of the YMCA Indian Guides; in fact, I'm one of their chiefs." With these words, Dr. Edward J. Smith of JPL (who looks vaguely like George Gobel) began a verbal tour of the magnetic fields and charged particles in outer space Monday night in Beckman.

Interaction

Smith's main emphasis was placed on the interaction between the magetosphere, a "cavity" within the interplanetary plasma created by the geomagnetic field, and the interplanetary magnetic fields and solar winds. On the sunward side of the earth the impact of the solar wind on the geomagnetic field forms a shock wave somewhat like the bow wave of a boat. On the dark side of the earth the earth's magnetic field is stretched out to an unknown distance creating an overall teardrop effect. There is much yet to be known about the earth's magnetic field.

Within the magnetosphere, although there is a current circling earth which sets up an opposing field, the dipole magnetic field of the earth dominates all charged particles: it holds trapped parti-

cles in the Van Allen belts and reflects particles impinging on it from the outside.

In the interplanetary medium there is a magnetic field about one-tenth as strong as that of the earth. It originates at the sun and spirals outward. This interplanetary magnetic field creates a "cavity" within the galactic medium, somewhat like that of the earth.

Also emanating from the sun is the solar wind, a continual unsteady flow of plasma outward from the sun. Actually this wind is an extension of the sun's corona which goes far beyond the orbit of the earth.

Radicalism

Upon crossing the earth's shock wave both the solar wind and the interplanetary field become radically disrupted. Consequently there exists between the shock wave and the magnetosphere a transition area, where there are extreme fluctuations of magnetic fields and plasma concentration.

Overall, Smith presented a picture of outer space not as a void, but instead filled with charged particles and magnetic fields in interesting configurations.

Alabama team

The University of Alabama's nationally ranked debate team will clash with Caltech on Wednesday, February 9, as part of the ASCIT-Alumni Assembly Series. The Alabama team, with their coach, Miss Annabel Hagood, will fly into Los Angeles early in the week.

The two teams, composed of Russell Drake and Fournier Gale representing Alabama, and Dave Close and Fred Lamb for Caltech, will debate the proposition: "Resolved that law enforcement agencies should have greater freedom to investigate and prosecute crime," at 11:00 a.m. in Win-

ASCIT president Fred Brunswig will present a welcome, and the Caltech coach, Mr. Herb Booth, will explain the proposition briefly and introduce the debaters and judges.

Caltech faculty judge

Each side will present two constructives followed by two rebuttals; the debate will last 45 minutes overall. At the close of the contest, the three judges, who include Professor Roger Noll and Dr. Robert Untereiner, both in economics, will publicly announce the winning team.

Following the debate, the Alabama squad will eat lunch in Ruddock.

Frosh dinner forum

coming here to Shoemaker declares debate Teckers Moon a youngster

"We conclude, therefore, that Hermes and all the other asteroids of irregular orbits close to the sun are in reality burned-out comets," declared Dr. Eugene Shoemaker, research associate in astrogeology, at the Frosh Dinner Forum at Chandler Dining Hall last week. His topic, "When an Irresistable Force Meets an Immovable Object," allowed the astrogeologist to present a fairly new age for the Moon's maria, a gripping account of a twelvemegaton collision in Siberia, and a conjecture that asteroids are just old comets.

Astro(geo)logy?

Like so many geologists nowadays, Shoemaker began by rationalizing his encroachment into astronomy. No one else is willing to look deeply at the makeup of the planets, he said, so the geologists have taken over.

By means of observation, the density of asteroids is calculated, and probability then can be used to derive a collision rate per unit area per unit time. Then by measuring the density of craters on the Moon or Mars, for example, the approximate age can be determined. For the Moon, divulged Shoemaker, a brand-new estimate of the age of the surface

establishes a birthdate of only one-half billion years BC. Previously, most experts had agreed upon a four-to-five billion year life span.

One of the most exciting parts of the lecture was a sequence of slides, taken in the laboratory, of a collision at astronomic speeds. A little ball, one-eighth of an inch in diameter, hitting a block of basalt, threw up a spray of ground rock moving faster than its own initial velocity. A crater ten to twenty times larger than the particle was formed, of the same shape as the lunar craters.

Duck for cover

Estimates of the frequency of collisions between the earth and other heavenly bodies were quite interesting. The fireball that landed in 1908 in Siberia should be joined by one of its cousins any day now, for the period of objects of that size is only fifty years. Once every 100,000 years. we are due to be smacked by a meterite large enough to knock out a mile-wide crater. And once every four billion years a meteor comes along big enough to punch a hole half as big as Hudson's

On green cheese holes . . .

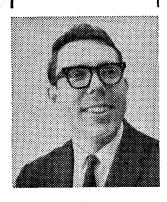
A large part of current astrogeology speculation is concerned with the surface of the Moon. When a large meteor lands, it sends up a spray of smaller chunks of rock, which form secondary craters upon falling. The secondaries form many, many more tertiary meteorites, and the process is continued. A continual rain of very small particles is falling on the Moon and has tended to erode the surface to packed dust. Shoemaker ended the evening by predicting a surface awaiting the astronauts "not unlike fluffy snow atop compacted snow."

But we knew that already. The world is made of snow.

M.S. and Ph.D. Graduates at TRW help man to...

build computer highways to the moon

R. J. GERBRACHT Ph.D. Physics '65 California Institute of Technology



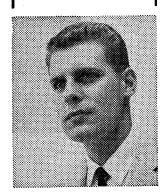
advance scientific knowledge by chemiluminescent research and development

JAMES L. DYER Ph.D. Chemical Engineering '65 University of California at Los Angeles



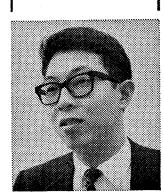
find the best paths to the outer planets

THOMAS J. MUCHA Ph.D. Aeronautical Engineering '65 Purdue University



build nuclear power systems for deep space exploration

KWAN-LOK SO M.S. Mechanical Engineering '64 Massachusetts Institute of Technology



Discuss opportunities with members of TRW's technical staff on campus FEBRUARY 10 FEBRUARY 11

If you are receiving your M.S. or Ph.D. during 1966, we invite you to join this select group. At TRW you will work on major projects such as Pioneer interplanetary spacecraft, OGO satellites, Mars mission studies, Apollo/LEM descent engine, LEM inertial guidance system, underwater defense systems, communications satellites for military and commercial use, advanced ballistic missile studies, Vela nuclear detection satellites, advanced space probes, and Apollo mission planning and analysis.

TRW will assist you in your career planning by encouraging you to continue your development through the many educational opportunities offered by major colleges and universities in the Los Angeles area. You may participate in TRW's Development Programs as you assume greater responsibilities.

Please make arrangements with your Placement Office for an interview; or you may write College Relations at the address below. TRW is an equal opportunity employer, male and female.

TRW systems

Formerly TRW Space Technology Laboratories ONE SPACE PARK • REDONDO BEACH, CALIFORNIA

Taylor leaves for Disneyland

E. E. "Bud" Taylor, manager of the Residence and Dining Halls, is leaving Caltech on February 1. He will become assistant to the general manager of the food division at Walt Disney Enterprises (Disneyland).

Robert W. Gang will replace him. He received his B.A. in Hotel Administration and M.S. in Institutional Administration, both from Michigan State. While he was there he was a member of Sigma Alpha Epsilon Fraternity, and was a four-year letterman and captain of the wrestling team. He also taught classes there on floor maintenance and a Hospital Housekeeping Short Course under the auspices of the American Hospital Association.

Since 1960 he has been at UCLA as manager of various residence halls.

CHANDLER'S **PRESCRIPTION PHARMACY**

Free Delivery

Robert Chandler

1058 E. Green St. - SY 2-2211 185 S. Euclid Ave. - SY 3-0607

Pasadena, California

and Steele Laboratory

Steele Laboratory of Electrical a conference room, and a library. Engineering will be dedicated April 4, still ornamented by the modernistic brass sculpture of Hollywood artist David Wilkins. This new million-and-a-half dollar facility situated just north of Booth Computing Center boasts of several unique features.

Intended primarily as a research facility, Steele only has one classroom, one lecture room,

The space on its five floors (three above ground) is primarily taken up by labs. Several of the labs have adjoining cleanrooms, rooms with a positive pressure inside to prevent dust from being blown in. Electrical power is distributed to each lab by means of bus ducts which allow any number of circuit breakers to be installed in any one

lab. Also, many of the labs are connected by communications trays which allow experiments in one lab to be tied to experiments in one or more other labs.

As a safety precaution, it is necessary to go through the first floor hall when going up or down the stairs. Thus, in the event of a fire people coming up from the basements or down from the upper floors will be reminded that they are on an exit level.



Soupy Sales entertains viewers of Ruddock House's second place winner in the Art Contest.

Taboos of yesteryear rediscovered by Blacker

by Jeff Hecht

Kenneth H. Swart, the first president of Blacker House, from 1931 to '32, mailed Blacker a former Institute publication, "Taboo or not Taboo," about two weeks ago. He felt that it would be highly interesting to the men of Blacker to see what life was like in the Student Houses 35 years

Since it was a publication of the distant past, it was difficult to trace down its origins. Finally, however, Dr. Donald S. Clark, director of placements, was able to give some information on it and other aspects of the Student Houses in the first years of their existence.

R. A. Clark

Clark was a Resident Associate for seven years, beginning in 1934, and was a grad student when the old houses were built. He, also, had a copy of "Taboo or not Taboo" of an earlier edition, and said that the one sent to Blacker was the second one he'd seen.

He believes that the pamphlet was put out by the Institute to help students learn aspects of good conduct they couldn't get at home. It was put out in the first year of the old Houses, and went through several editions. He considered it "a darned good idea."

Pre-Emily Post

The rules of good conduct contained are in part dated and in part still applicable (although quite often ignored). It is recommended, for example, that "when throwing things, care should be taken to avoid hitting the speaker." Some of the recommendations ignored today include keeping the noise level of audio equipment down (all ra-

STUDENTS, if you need HELP in fulfilling your language requirementinquire about tutoring services at THE LANGUAGE CENTER 170 South Lake Ave. Pasadena SY 5-5888

dios brought into rooms had to bit of progress. be registered), staying awake through classes, and certain niceties of table manners which are observed only by accident.

The most interesting rule in this booklet states: "Girls unaccompanied by a chaperon shall not be taken to men's rooms." Times have changed. Perhaps, in 35 years, Caltech has made a

Talking with Clark brought out some interesting facts about the early days of the old Houses. Originally Resident Associates were faculty members selected by Dr. Robert A. Millkan, then Chairman of the Board of Trustees, and were purely advisory. After advice failed to stop an

(Continued on page 5)

APPEARING NOW THRU JAN. 6 CHAD MITCHELL

BY HIMSELF COMING FEB. 8 BUFFY SAINTE MARIE FEB. 15 JUDY COLLINS WITH PATRICK SKY

CR_6-6168

At . . . Doug Weston's

9083 Santa Monica Blvd. at Doheny, L.A. TROUBANANNY'S ARE HAPPENING MONDAY

Ford Motor Company is:

diversity



B.M.E., Univ. of Kansas

The college graduate's initial exposure to the world of business is often less than exhilarating. The reason? A great many companies require the recent graduate to serve a long-term apprenticeship in a role that offers little or no opportunity to demonstrate personal capabilities. That is not the way at Ford Motor Company. Our College Graduate Program brings you into contact with many phases of business, encourages self-expression and helps you-and us-determine where your greatest potential lies. An important benefit of the Program is getting to know and work with some

of the most capable people in industry. One of many young men who believes he has gained tremendously from this exposure and experience is Larry Moore, a Product Design engineer.

After receiving his B.M.E. in February, 1964, Larry joined our College Graduate Program and began work in brake design. Stimulating assignments followed in product evaluation and disc brake development. Later, he learned production techniques while supervising one phase of the Mustang assembly line operations. An assignment in our Truck Sales Promotion and Training Department added still another dimension to his experience. The "big picture" of product development was brought into focus for Larry when he became associated with Thunderbird Product Planning. From there he moved to the Special Vehicles Section . . . into the exciting world of high-performance cars!

Currently, Larry Moore is on leave of absence, studying to acquire his M.B.A. degree at Michigan State. He feels-and rightly so-that we're 100 percent behind his desire to improve his educational background. Young men with talent, initiative and ambition can go far with Ford Motor Company. Think about it—and talk to our representative when he next visits your campus.





Nick Fury (Belch!) and Thor of comic book fame grace Fleming House's third-place winner in the Millikan Art contest.

Hendrickson loves taboo, don't you?

(Continued from page 4) orange war between Fleming and Dabney, and people were injured when it turned into a nearriot, the RA's gained some real

For the first two years of their existence, the old Houses were

for both grads and undergraduates, but after the grads showed little interest in participating in House activities, they were moved to the second floor of the Athenaeum, and the old Houses became property of the undergraduates alone.

The Aero Association of the California Institute of Technology assembled Wednesday to hear president Dave Cartwright announce that "we'll be incorporated as a non-profit corporation under the laws of the State of California by Monday morn-

This announcement culminates over a year of work on the part of Cartwright, scribe Don Blumenthal, Dave Wooten, Professor Peter Lissaman, the late Clark B. Millikan, and various people in the Administrative Offices to raise enough money to start a flying club here at Caltech. By the end of last quarter, several thousand dollars had been pledged by Trustees and friends of the Institute, and plans were set in motion for the purchase of a new or used air-

Incorporate first

But first the club had to incorporate and become an integral part of the Caltech community both to limit the liability of the individual members and to enable potential backers to claim the club as a tax deduction. Officers were elected at a November meeting and the By-Laws Committee chaired by Dick Ault reported back three weeks later with a 16-page document which, after considerable debate, was amended and accepted. The Aero Club was in operation!

Powerful committee

One of the most unusual features of AACIT, compared to other flying clubs, centers about the operations of the Flight Standards Committee. Peter Lingane, the club's Flight Director and therefore the chairman of the FSC, explained that this committee is charged with supervising the continued competence of all who fly club aircraft and with assigning responsibility in the event of an accident.

The club decided Wednesday to proceed with the purchase of a brand-new, instrument equipped, Cessna 150 two passenger aircraft. This aircraft has enjoyed a fine reputation both for training and sport. Treasurers Bob Edelson and Dario Iacuelli fixed the "break even point" at less than two hours of flight time per member per month. That is, any member of the Caltech Community who flies more than two hours a month will save money by joining AACIT. A new student pilot could save well over \$100 on his private ticket alone.

Aviation safety

The purpose of the club is not totally to save money, however. The club expects to be active in the training of new pilots; plans are under discussion for setting up a ground school. The club has set as a primary goal the promotion of aviation safety, both among its members and in the community. With the imaginative guidance of members of the Aeronautics Department the club hopes to participate in the limited design and building of experimental gliders and acrobatic aircraft.

Those who are eager to look down on the smog from up where the sky is blue and the air is clear and to become a part of what is without a doubt the most stimulating and challenging of all sports are urged to contact Dave Cartwright in 067 Crellin or to see any of the other club officers.

HOMES FOR SALE

Victorian farm house

\$124.25 per month, including interest

21/2 bedrooms and paneled den Charm and character Surrounded by large trees and white picket fence An excellent buy in Sierra Madre

Open 3-5 Sunday Jan. 30 145 South Lima

Quality home in

top Linda Vista area

Three large bedrooms Secluded den w/fireplace Two large baths 21/2 years old Swimming pool Built-in kitchen Close to excellent schools 5 minutes from JPL 15 minutes from Tech

Two remodeled homes in Linda Vista with tree-house view

Two bedrooms Large brick fireplace 20,000-sq. ft. lot

\$27,500

Two bedrooms Built-in kitchen Dining room Living room with fireplace \$32,500 All carpeted

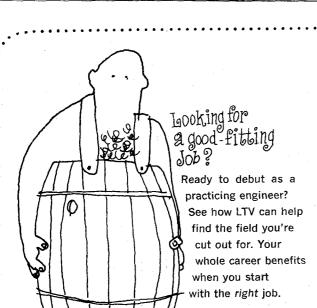
Sprawling Spanish House

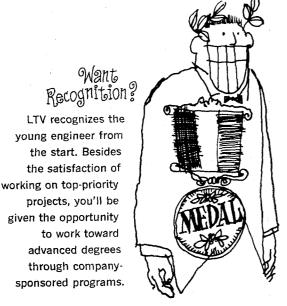
Two large master's suites w/baths Older home w/all modern conveniences Downstairs family room w/fireplace and view Separate maid's room w/bath All-new kitchen Lanai, dining room, large gracious living room

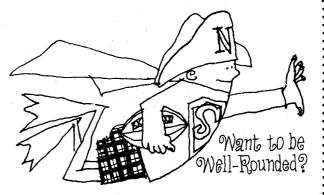
> Cynthia Rusch John Grech Realty

449-1181

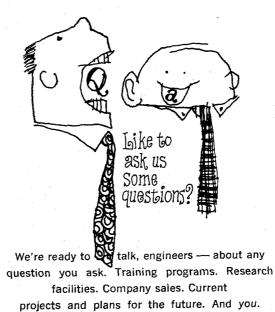
799-9482







An engineer who's at home in several specialties is a man in demand. LTV's cross-training and multiple projects produce well-rounded candidates for top-level positions.





If you're looking for a career of exciting growth and accomplishment, you're also looking for a company with the same qualities. Here at LTV Aerospace Corporation, young engineers and the company are growing in the fields of aircraft, missiles, space, surface vehicles and range services. Assignments are diversified, too. They include such areas as: aerodynamics • avionics and instrumentation • dynamics • systems design • propulsion • stress analysis • communications design • technical administration . . . and others.

For complete information about a career with LTV, consult your Placement Office, then schedule an appointment with our representative. Or write College Relations Office, LTV Aerospace Corporation, P. O. Box 5907, Dallas, Texas 75222. LTV Aerospace Corporation is an equal opportunity employer.

CAMPUS INTERVIEWS

THURSDAY, FEBRUARY 10

AEROSPACE CORPORATION

JBSIDIARY OF LING-TEMCO-VOUGHT, INC.

DIVISIONS: LTV ASTRONAUTICS . LTV MICHIGAN . LTV RANGE SYSTEMS . LTV VOUGHT AERONAUTICS . KENTRON HAWAII, LTD.

The California Tech

Page too strong, wins Interhouse

week with expected results. Page, completely overwhelming all opposition, easily took first place. Fleming came in second on the basis of its strong defense. Ruddock faltered on its inexperienced defense and could come in but third. The other teams were no match for the first three, and they scrambled among themselves to finish thus: Lloyd fourth, then Blacker and Ricketts tied for fifth, and Dabney last.

Page beats Ruddock

One of the important games of the season took place last Wednesday as undefeated Page met Ruddock. The game looked like it might turn into a rout. Page moved swiftly through the porous Ruddock defense to score three touchdowns and lead 20-0 at the half. But in the second half Ruddock came to life. Turning back each Page attack, the blue scored twice to tighten up the game. Ruddock did not have the steam, though, to tie up the game, and in the fourth quarter Page scored again to put the game on ice at 26-14.

Blacker, Page tie

On the same day, two of the lower division teams, Ricketts and Blacker, played to the only tie of the season. It was an offensive show all the way, with Ricketts forging into the lead and constantly keeping about one TD ahead. Blacker came back from a seemingly hopeless situation to tie the game at 26-26 with only seconds to spare.

Flems edge Lloyd

On Thursday, Fleming got a real scare from Lloyd. The Flems barely escaped with a 7-6 win. Neither team could move too well; there was no score at the end of the half. Fleming scored first with Pat Miller going in for six, and Randy Harslem caught the all important pass for the conversion. Lloyd scored soon after, but was unable to muster the extra point.

Ruddock tromps Darbs

Ruddock coasted to an easy win over Dabney. Les Fettig completed 19 of 30 passes, and the Ruddock defense intercepted five Darb passes. Dabney had quarterback troubles all season due to injuries and inexperience. Although Dabney recovered a couple of kicks, it could do no better than lose 26-13.

Page takes Scurve sundaes

For Friday's game Page gave Ricketts a 19 point advantage in the challenge for sundaes. Things looked rather tight with only two minutes remaining; Page led only 32-13. But Tom Resney recovered a fumbled punt, and Larry Brown threw to Dan Hammons to finish the game at 38-13 and to win the sundaes. The game was never in doubt, as the third string played most of the last quarter.

Lloyd whaps Blacker

Lloyd and Blacker put on the most offensive show of the season. Both teams seemed to have left their defense at home, as

Interhouse football ended this Lloyd eked out a 39-32 victory. Blacker scored on its very first offensive play on a pass to Jerry Austin. The two teams then marched back and forth across the field. Lloyd made good use of its spread formation; Blacker could never solve this weird of-

> The last game took place on Monday between Fleming and Ricketts. It was Fleming all the way, as the Flems bottled up the Scurves completely to win 39-0. Ricketts tried to make a comeback using sweeps, double-reverses, and double passes, but could never quite make it to the endzone.

Interhouse stats revealed

For the first time in recorded history, statistics were kept at the Interhouse football games, and the results graphically illustrate strengths and weaknesses of the teams.

Offense

Page had the strongest offense, and its ability to score quickly is shown by the fact that Page attempted the fewest passes (134) and completed the fewest (68), yet scored the most points (208), which was 70 points more than the second high score.

Ruddock's offense was also very potent. Quarterback Les

LEADING PASSERS Fettig, Ru 151 96 63.6 14 5 6 Brown, P 126 65 51.6 23 5 6 Uveda, B 138 72 52.2 13 4 8 L 158 78 . 49.4 Touton, F 175 73 41.7 Ri 169 76 45.0 12 0 8

,						
	LEADIN	G SC	ORE	RS & RECEI	VER:	5
N	AME Re	cepti	ions	NAME	Ро	int
Sı	mith,	Ri	34	Brewer,	Ru	58
В	rewe r,	Ru	31	Harslem,	F	53
D	ickinson,	Ru	26	Resney,	Р	51
Н	arslem, 🧻	F	24	Smith,	Ri	50
W	/hit e,	D	22	Goodmanson	, P	50
Α	ustin,	В	21	Hammons,	Ρ	36
Н	all,	L	21	Foster,	В	34
R	esn e y,	Ρ	20	Dickinson,	Ru	33
Le	ee,	Ru	20	Austin,	В	33

Fettig completed a fantastic 63.6% of his passes. Gregg Brewer was second in pass receptions, first in scoring with 58 points, and first in interceptions with 10.

Page and Fleming excelled in the defensive departments. The Flems allowed a total of only 42 points in six games and shut out three of their opponents. The secondary intercepted a high of 21 points. Page allowed only 58 points, never more than 14 in one game, and limited opposing quarterbacks to a measly 43.8% completion percentage.

Other impressive performances were turned in by end Terry Smith of Ricketts, who led the league with 34 pass receptions. Pat Miller of Fleming and Jim Hall of Ricketts intercepted seven and six passes respectively.

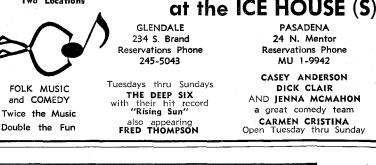
(Continued on page 7)

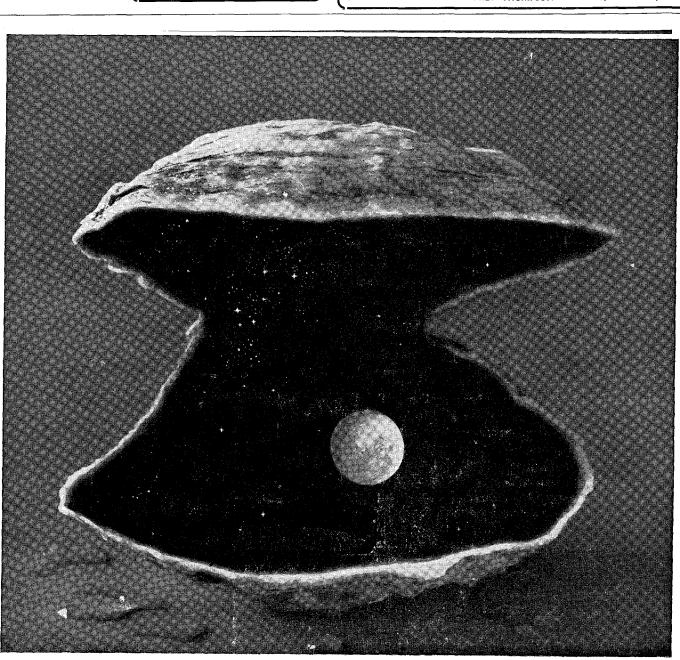
Two Locations

HMC football victor

The first, and hopefully not the last, touch football game between Caltech and Harvey Mudd took place on Saturday, Jan. 22. Two matches were played, one between the lower-classmen and one between the upperclassmen.

Due to disorganization and a lack of familiarity with the eightman game being played, both Tech teams lost rather badly. The defenses performed admirably, picking off several passes and holding the opposing teams in check. But the offense could not move too well because of a lack of adequate blocking. The blockers present performed admirably, but there was a shortage of manpower. People who could not play because of Interhouse injuries or previous commitments were severely missed. The final scores were 13-0 for the upperclass game and 20-0 for the other one.





the universe is your oyster at AC

Today's challenge at AC—the universe! As a member of the AC team, you'll be in the vanguard of men working to advance the state of the art of guidance and navigation.

You'll work in research, design and development on such advanced projects as an avionics system for supersonic aircraft, a guidance system for the Titan III space launch vehicle, guidance/navigation systems for Apollo and advanced fire control systems. Step up to the challenge, and move up with AC. Your opportunities for growth and advancement depend on your ability and initiative. AC offers "in-plant" courses covering both technical and management preparation. A Tuition Plan pays your tuition costs when you complete college-level courses.

If you are now completing your BS or MS in EE, ME, Math or Physics, we invite you to inquire about opportunities at any of our three locations: AC in MILWAUKEE-our Main Research, Development and Manufacturing Facility; AC in BOSTON - our Research and Development Laboratory specializing in Advanced Inertial Components and Avionics Navigation/Guidance Systems; AC in LOS ANGELES-our Research and Development Laboratory specializing in Advanced Airborne Computers, and Ballistic Missile and Space Booster Guidance/Navigation Systems.

Salaries are commensurate with experience, and full General Motors benefits apply.

PhD's, please note: Positions are available in

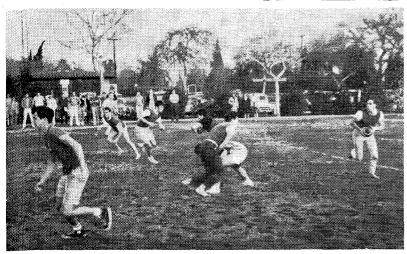
all three AC locations for PhD's, depending upon concentration of study and area of interest.

For further information, see your college placement office regarding an interview with the AC Electronics Division of General Motors, or write directly to Mr. R. W. Schroeder, Director of Scientific and Professional Employment, Dept. 5753, AC Electronics Division, Milwaukee, Wisconsin 53201.



AC ELECTRON An Equal Opportunity Employer

CAMPUS INTERVIEWS — Wednesday, February 9, 1966



Rich Touton of Fleming rolls in the game against Ruddock. In the front Pat Miller and in the back Pete Wyatt are going out on their patterns. Fleming won 19-12.

CARMELLO'S ITALIAN RESTAURANT

THIS AD WORTH 25c ON ANY LARGE SIZE PIZZA OR DINNER.
NOT VALID ON WEDNESDAYS. (EXPIRES FEB. 28)
WEDNESDAY SPECIAL: 2 COMPLETE LASAGNA DINNERS
FOR THE PRICE OF 1.

Open 11:30 a.m. to 12:30 p.m. 1111 E. Colorado Blvd.

Closed Mondays 449-9201

Injuries riddle hoopsters

The injury-ridden Beavers dropped two more contests in the past week. Captain Jim Pearson missed both games with a pulled thigh muscle. Don Blair and Doug Holford are still recuperating from an assortment of ailments.

Rough CLC

At Thousand Oaks, Caltech could stay even with Cal Lutheran only early in the first period. The Kingsmen, averaging four inches higher than the Beavers,

Revealing stats

(Continued from page 6)

As a whole, 60 people caught passes in the games and 69 people participated in the scoring. A total of 1104 passes were attempted with 543 completions for an excellent 49.2 overall completion percentage. It was a fine year for passers.

dominated both backboards and pulled away steadily after the first few minutes. The final score was 98-46. (The tough Kingsmen have already won three games against SCIAC teams.) Terry Bruns was high scorer for Caltech with 18 points, and John Tucker, playing regularly for the first time, scored 12.

Sloppy Oxy

Tuesday night at Glendale the Beavers played inspired defense for much of the first half. Occidental, the league leader, led by only 47-34. But the Teckers faltered in the second half, and Oxy kept increasing the lead to 115-73 at the end of the game. Despite a yeoman effort on the part of Bruns, the game became a comedy of errors. A total of 86 free throws were attempted by the two teams. The Beavers hit on 37 out of 53, a respectable per-

centage. Bruns led the team once again with 17 points.

UCR invades Caltech on Friday; then there will be a slight lay-off until the end of midterms, when play will again resume.

Blacker wins in Discobolus

Blacker rolled over the mighty Fleming machine in tennis for the Discobolus trophy Saturday. The first and second singles were played in the morning, and the third and fourth singles and the doubles match were played in the afternoon. In first singles, Fleming's Roger Davidheiser, playing a superb game, defeated Blacker's highly rated Wayne Pitcher 6-2, 6-1. But then David McCarroll evened the match at one all by defeating Fleming's second man, Rich Touton, by similar scores of 6-2, 6-1.

The confidence of Blacker's athletic manager, Sali Ma, in his team was visibly shaken with the defeat of Pitcher and Rich Franz's (Blacker's fourth singles man) failure to appear after lunch. Franz finally showed up fifteen minutes before the match was to start, and defeated Kubitz 6-2, 6-2.

In the doubles match, a controversy arose whether the match was to be the best of three sets or a pro set of eight games. Fleming's team of Yano and Gibson wanted to play a pro set, but Blacker's team of Booth and Erlich wanted to play the best of three sets. A coin was flipped with Fleming winning the toss. After losing the first three games, Booth and Erlich finally settled down an down the next eight.

This clinched the match for Blacker, but Randy Harslem of Fleming and Frank Pate of Blacker played out their match with Harslem defeating Pate.

Dabney is next to challenge. The challenge was made in softball, soccer and table tennis. Blacker will probably accept in softball.

We cordially invite California Tech students and faculty members to bank with us.

Complete banking services including:

Automobile Financing

Bank-By-Mail Certificate of Deposit Checking Accounts
(Bookkeeping by electronic automation) Collateral Loans Drive-In Banking Foreign Banking Letters of Credit Home Modernization Loans Life Insurance Loans Money Orders Night Depository Personal Loans Real Estate Loans Safe Deposit Boxes Savings Accounts Travelers Checks **Trust Services**

Auto Banking Center at Colorado and Catalina Office, 1010 East Colorado and Citizens Commercial Trust & Savings Bank of Pasadena, hours: 9 to 4:30 daily; 9 to 6 Fridays

U. S. Bonds

PASADENA

Head Office: Colorado and Marengo Colorado and Catalina Office: 1010 E. Colorado LA CANADA La Canada Office: Foothill and Beulah

Citizens
Commercial Trust
& Savings Bank
of Pasadena

NEMBER FEDERAL DEPOSIT INSURANCE CORPORAT



If you're looking for a nice comfy place to work after graduation,

forget about General Electric.

We don't have any place where you can curl up and snooze away the next forty years of your career. There are no quiet little nooks in any of General Electric's 130 operating businesses in 19 countries round the world.

But if you're the wide-awake type, G.E. can provide the excite-

ment to keep you that way. Your first assignment may be helping us find applications for a whole new family of plastics recently developed by G.E. Or you may be working at Cape Kennedy on the Apollo moon program. Or you may be working on the marketing team for a new home appliance.

One thing is certain: You'll be working. You'll have plenty of responsibility. What you won't have is a chance to doze off in the prime years of your career.

Talk to the man from G.E. when he visits campus. Come to General Electric, where the young men are important men.

Progress Is Our Most Important Product



games return

by Chris Dede

The YMCA is sponsoring the second annual edition of the Political-Military Exercises, (PME 151) scheduled to take place on the first weekend in third term. The object of these games is to try to simulate what would actually occur in a given political crisis. To this end, committees representing various countries are set up, isolated from one another, and are given a scenario which presents a certain political crisis situation.

The countries then send out messages indicating certain actions, much as news dispatches are sent out relating to actual events. From the counterplay that follows, a general situation emerges. In order to be sure that the countries follow actions similar to those that would acually be taken, a board of control is set up that has the power to reject the dispatches if it feels that they are not realistic. The results obtained are sometimes quite unusual, and always interesting, especially when these results are later duplicated in actual history.

Lucky prediction

Last year a Rhodesian crisis was the subject of the scenario; this year the action will shift to Southwest Africa. Tentatively, eight forces will be represented: the United Nations, United States, United Kingdom, USSR, China, the Union of South Africa, Portugal, and the OAU. Dr. Edwin Munger, professor of geography and an expert on African affairs, will write the scenario and be on the board of control.

A central committee composed of students working in conjunction with the YMCA will organize the exercises. The number

Live with Scrippsies (Continued from page 1)

been planned for 60 Techmen, 60 Scrippsies, and 30 faculty from both schools. For a lousy \$13, and a little bit of luck, you too can be one of the fortunate 60 to get away from the joys of Caltech and Pasadena. The luck is needed because experience has shown that well over 60 Techmen want to go.

This year, in order to avoid the usual horde of early morning Techmen lining up to register, and in order to avoid the odious accusation that young innocent Techmen are forced to cut class in order to be in the registration line, the omnipotent and omiscient planning committee has decided on a semi-random selection procedure. Sign-ups for everyone who wants to go will be held tomorrow in the Y office, beginning at 10 a.m. Registration will close at 4 p.m. or upon the filling of all 60 places, whichever comes later.

If more than 60 people show up before 4, the committee members, more equal than everyone else, will be accepted; the remaining 40 or so places will be filled randomly, without regard to time of sign-up. So don't form a huge line at 9 a.m., because it won't do any good to be first.

Everyone who signs up tomorrow must bring along \$5 to show that he really wants to go (refunded if he is not selected) and a pen to fill out an application.

Frosh (and upperclassmen) who don't know about Caltech-Scripps Conference should ask their UCC's or other knowledgable Techmen about the great time to be had at these conferences, and then, along with those who already know, come up to the Y office tomorrow to sign up.

of students who will be able to participate in the games will be about 65, with 35 on the member nations (including girls from other schools), about 20 messengers, girls acting as secretaries, and others on the central committee and board of control. Faculty, too

Faculty will also be active, with one professor in each national bloc, and several on the control board. The time duration of the game itself will be from 9 a.m. to 6 p.m. on Saturday, and 9 a.m. to 12 p.m. Sunday. Students interested in participating can still contact the YMCA.



On a quiet Saturday morning at the Residence of the Gods, behold the species Graduatum Inhumanum working on his Sting Ray in the turnaround circle near the Generator of Particles, thereby blocking all greater than he from easy passage. Behold the sudden evidence of discrete thundershowers, in the form of eight of the Mightiest, led by the great Luther, armed to the hilt with discrete rain. Behold the vanguished Graduatum sadly fishing the trophies of a god not unlike to Frink out of his carburator, hair, and tool box. Lesson for the day: be ye not inconsiderate of your fellow man, especially if you be a Graduatum Inhumanum.

Chuck, Chuck

Beak espies the water Ghoul, a participant in the Batphony contest, feverishly entering at the very last minute, with a combination psyched out to be the correct one. Enter he of the brown

Corvair, plus tape recorder. perfect tape is produced, exactly imitating the voice of the obnoxious one of the air. Exit a highly exhilerated Ghoul, screaming "I won, I won." Re-enter a high. ly dejected Ghoul, muttering something about friends. To poor Ghoul, the Brewins Bat Guano of the Week Award. Bo Buck . .

ESQUIRE

2670 E. COLORADO 793-6149 684-1774

DARLING

Laurence Harvey Dirk Bogarde Julie Christie

Check who's coming on campus February 2, 3

(With lots of careers in the booming communications field!)

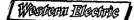
Pacific Telephone representing the Bell System:



TECHNICAL AND NON-TECHNICAL GRADUATES FOR ENGINEERING AND ADMINISTRATIVE POSITIONS IN CALIFORNIA.



TECHNICAL GRADUATES FOR RESEARCH AND DEVELOPMENT WORK IN COMMUNICATIONS AND ELECTRONICS WITH ONE OF THE WORLD'S FOREMOST RESEARCH LABS.



TECHNICAL AND NON-TECHNICAL GRADUATES FOR ENGINEERING AND ADMINISTRATIVE POSITIONS THROUGHOUT THE UNITED STATES.



ENGINEERING AND PHYSICAL SCIENCE GRADUATES FOR RESEARCH. DEVELOPMENT AND DESIGN OF ATOMIC WEAPONS AT LIVERMORE, CALIF., AND ALBUQUERQUE, NEW MEXICO.

EQUAL OPPORTUNITY EMPLOYERS