**California Institute of Technology**

**Pasadena, California, Thursday, November 30, 1950**

**Vol. 8, No. 9**

**Students Day -- A Day For You!**

Some months ago a group of students and faculty members began to look into the essentialshail of Students' Day. Several objectives have been kept in mind throughout the planning of this event, the first Students' Day since the war.

One of the objectives was to provide, as without really knowing what kind of a school they have chosen, there are groups of students who would like to know more about the public, by the public, of Caltech. Others do not even apply here or come to Caltech. We are hoping that the project Caltech students have been planning for this day will today have its impact in this regard aimed for them.

**Meet Caltech**

Please feel free to look around—and don't go home with any pictures of students in the background. Some things have been arranged so as to show some of the work that is being done in various departments by the students here at Caltech. Don't get the idea that freshmen rush into the office to register. Such activities are being designed to bring you to the place where you will be suited for the rest of your life. A little knowledge of Caltech, its courses, and its professorship in working problems but rather to get at the factors which cause you to stay here. The Doak Award

**Football Award**

One of the aspects of the program which always draw to find out what is available the students when do they are not studying. There are always many different activities available at Caltech students do nothing but study. A recent survey showed that more than 100 activities are offered the average student at Caltech in any one academic year.

Student activities cover a wide range of interests. Some involve study, some are social, some are athletic. Caltech students are ready to take up to any level of projects and topics. The students do not limit their work to the laboratory, the library, or the classroom. They are also interested in various departments of the university, including physical education, drama, music, and art.

**Hallett Smith to Speak at Tau Beta Pi Banquet**

Dr. Hallett Smith, chairman of the Division of Humanities, will be the featured speaker at the first Tau Beta Pi Initiation Banquet to be held at Caltech. The banquet, which will be held in the afternoon, will also include the traditional pledge function, written and produced by the Tau Beta Pi chapter at Caltech, and the announcement of the winner of the Pledge Essay Award.

**Week End Program**

**Two Week Program**

**Students in the Department of Humanities**

The student guests will be told of some of the problems being solved at Caltech, and the types of research being conducted. They will be shown some of the equipment and laboratories available to students at Caltech.

**The Assembly Program**

The program is planned by the Tau Beta Pi student council. It will be held in the assembly hall, and is expected to be a special feature in the final day of the Students' Day activities. The program will include speeches, music, and other activities that are expected to be of interest to the students.

**Vista Awards**

The Vista Awards are presented annually to students who have shown outstanding achievement in their studies. These awards are given to students who have shown a high level of accomplishment in their academic work, and who have also contributed significantly to the life of the university.

**Caltech towel**

The towel is a traditional gift that is given to students who have completed their studies at Caltech. It is a symbol of the university's appreciation of their hard work and dedication.

**El Dorado Award**

The El Dorado Award is given to students who have shown exceptional ability and achievement in their studies. The award is given to students who have demonstrated outstanding academic performance, and who have also contributed significantly to the life of the university.

**CIT on View to One Thousand High-Schoolers**

Over a thousand senior science students and their teachers from high schools in this vicinity will descend on the Tech campus this Saturday, the occasion being the first post-war day.

**Attendance by invitation**

The event is an invitation only, and in order to provide a more intimate view of the work in all departments, and an overall feeling of the various branches of science and engineering and exhibits and demonstrations have been planned for the day.

The program has been planned for its educational value, in view of the ever-increasing emphasis on the science and engineering aspects of education. Students have been invited from all high schools within a 50-mile radius, and from some of the schools from which students have come to Tech in the past.

Many students have already been working with their teachers were invited on the basis of their principal's recommendations.

**Gala Night to Wear Badges**

Each guest will be sent a badge bearing the distinctive color and design for this event. The badge will be worn at the gala night and lunch. Badge colors are: Fleming, red, Balay, green, Black. Students will have the opportunity to get their own badge colors and design on the Tech campus.

**The Institute**

The Institute is sponsoring the affair with the cooperation of the Tau Beta Pi chapter. The institute's president, Dr. Wilbur R. Varney has been in charge of the arrangements and coordination of the event. The dedication of the new building on December 1 was attended by hundreds of students, and the community is looking forward to the opening of the Chemistry Division, on "The Interrelatedness of Sciences."

**In the afternoon the guests can take in any of the three demonstrations being offered. They will have a chance to look at an..." Story of Palomar" Presented by the Institute. The assembly will close with a short welcome from ASCIT president William Merten, and an address by Dean E. A. Hulburt, head of the Department of Humanities.

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**California Tech**

**TO OUR OVER 1200 VISITORS!**

**Departments to Display Wares Saturday Debaters Vie**

See Page Two for More in Word and Picture

**"Story of Palomar" Film**

Highlights Astro Exhibit Will Be Featured As Part of 55-Minute Show in the afternoon -- as part of the 55-minute construction lecture planned for 1:30, 2:30, and 3:30 p.m., each show's time permits.

One of the three shows will be on a history of large (and small) charges in the universe. The show will also discuss how the charges are measured, and how the universe is divided into charged and uncharged regions.

**Van de Graaf Generator**

Will Spark Physics Show

The Van de Graaf generator will accelerate hydrogen ions through a two-million volt potential and will activate high school students to the process at various stages. After the demonstration, the assembly will be held in the assembly hall, and is expected to be a special feature in the final day of the Students' Day activities. The program will include speeches, music, and other activities that are expected to be of interest to the students.

**Institute Book**

**Schools Plan for All**

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**EE's to Exhibit HiVoltWonders**

Harassed lighting will be sound effects is a available at **Lightning-MAN** man操作 STRICKES

--And to Show Giant Brain

Potential EE's among the visi- 

**CHEMICAL PROCEDURE and o-

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Viruses, Nerves, Smog, Careers, in Biology Exhibit

"What Biologists Do," a talk by Dr. B. D. Owen, will highlight the biology department's part in the students' day program. A series of six demonstration lectures will show some of the work done by the research staff of the biology division. Interesting demonstrations of the following advanced projects will be shown in these morning exhibitions:

1. The research on the smog problem and the effect of smog on plants.
2. The nerves and muscle research which, it is hoped, will greatly aid in rebuilding nerve tissue damaged by polio and bullet casualties.
3. The biophysical study of viruses.
4. The work on genetics and heredity which has already led to life-saving advancements in the production of penicillin.
5. The techniques recently developed for the study of amino acids, the minute building blocks of living cells.
6. Some of the interesting aspects of marine biology will also be exhibited in the high school sessions during the morning program.

Dr. Owen Discusses Careers
Dr. Owen will discuss the careers open to people trained in biology and the way in which (Continued on Page 4)
Material Tests will be managed by grad students verse, Dr. McCormick, Dr. including surveying, sanitary engineering demonstrating to illustrate the former, engineering demonstrations will be illustrated by exhibits in the latter. Stressing the importance of studying genetics and chromosomes, Dr. Keighley has been collaborating with biochemists in determining the amino used in protein synthesis, and study genes and chromosomes. Almost and heat resistance, titanium is of trace elements in metals, and in industry and will result in a research of trace elements involving radiocative technique involving radioactive minerals. The spectographic lab, also in the machine is of great use in qualitative and quantitative analysis of the main elements available through the spectrographic lab.

Model Stress Engine Model results of research are in the search to the application of exchange.
**Troy Routed in Soccer: Rematch Scheduled Sat.**

This Saturday Rancho La Cienega is the scene of a rematch between the Caltech soccer team and the Michigan State University team. Despite the drizzling rain they received at halftime, the Michigan State team was unable to break through the Wall of Troy defense. With a score of 0-0, the game will be held this coming Saturday night at 8:30, in accordance with new orders.

**SCHEDULED**

(Continued on Page 6)

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**Muscel Team With LaBuerechrie To Take Title**

With the football season in full swing, the Caltech Athletic Office has announced the formation of a Special Student Student Administrative Committee (SSC), composed of students from various disciplines, to oversee the athletic activities and facilities. The committee will be led by Head Coach, Dr. John Tosh, who has been instrumental in bringing the team to its current level of performance.

The "Hunter," behind all talent, shows the significance of the players' skills and the effective use of resources. The formula for success is: Power + Speed + Skill = Victory. This team is composed of highly motivated players who are continually striving to improve their performance.

(Continued on Page 6)

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**BUTIN’**

—By Butler

At last! The most unprecedented year in football is finally over for the Pacific Coast Athletic Conference. For the first time in history, the conference is dominated by Caltech. The Pomona-Missouri-Oklahoma-China 
Races was run originally in November, but after originally being postponed, it was for the last time, the Athletic Committee decided to give the award to the most consistent team of the year. The award was given to Caltech, which had an excellent performance throughout the season. The award was not only for the championship, but also for the overall performance.

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**Caltech in Waterpolo Finals; Top Oxy 11-4**

Night Game to Decide Champions; Team Rejoices Over Oxy Defeat

This evening in the outdoor arena of Caltech, the Waterpolo Conference will be decided. Either Caltech or Fullerton J.C. will hold this honor, the game to decide will be held this evening at 8:00 p.m. at Fullerton. Oxy and LACC will be fighting it out for the third position.

Caltech won the right to compete in the finals by coming through undefeated in its division, and then defeating LACC 54-40 a week ago Tuesday at the 110-yard pool in the semi-finals.

The game was a runaway for the Bears with forwards scoring all goals and Littke five. LACC had none of the speed and burst power that Caltech had, the team started second place with their back up. LACC went out the semi-final, rather than the flip of a coin.

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**Frosh Sports Roundup by Nick Nicholson**

It took four tires, but the frosh guards did some things pretty well with a win. Bettles was taken into custody after the season’s closing game down at the Rose Bowl by a 52-13. The guard last score with only five minutes left in the game it was in and out.

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**First Blood**

Tech drew first blood, marching all the way the first time they get their hands on the ball. But Staford scored over for 6 from the Redlands 29 yards away, with a pass from Johnny L. Lord to Tom Kirkpatrick and Frank Scott 9th. Time was 11:47.

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**La Mode Kary**

LA State was a little different story. Run the Tuesday before Thanksgiving at Caltech, the all injured local weather. But all of LA finished first in 10:47, very good time for the long Cal.

(Continued on Page 6)

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**At A Glance**

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**Runner’s Beat Pomona, Lusac**

Three members of Caltech’s football team have been named to the All SCIAC Football Team. Full- back Uly West was the only Engineer named to the offensive team. Halfback Butts and Jack Walker were voted on the defensive squad as line back and back respectively.

Wooly was outstanding especially in his line play and punting, where he could always be counted upon for at least three or four yards. Walker and Staford were usually at the bottom of the pile on any defensive play. Walker was also noted for his excellent defensive work.

Wooly led the list with seven on the All SCIAC team. This is the first year that both an offensive and a defensive team have been chosen for all conference recognition. The teams were chosen by a vote of the officers of the conference committee.

**IN ALL SCIAC FOOTBALL TEAM**

Offensive Team

Robs. — Dan Monet (R)
Bids. — Huey Reine (F)
Tackles. — George Gereen (W)
Guard. — Bill Snowden (W)
Center. — Dick Bux (O)
Backs. — James Caflias (W)
Back. — Charles Schuller (G)

Defensive Team

Ends. — George Gereen (W)
End. — John Hora (B)
Tackles. — Barc Jacob (O)

(Continued on Page 6)

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**Handballers Win Trophy for Thrrop**

The handballers were the winners of the annual holiday tournament held at the Colorado State University, winning the third place with only a 15 point victory over an exceptional performance. The game was played on courts A and B at the school, with a total of three points in the match.

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**Caltech vs. Loyola**

Caltech emerged victorious in its first fall league game against Loyola, second game of the season. The team is coming from Fullerton Arizona State. Game time is scheduled for November 21, with tickets available.

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**Ice Skating**

Daily 2:30 to 5, 7-9:45 to 10:45, Sat: 2-3:30 and 7-9:45, Sun: 3-4:30.

Skates and Tuxedos for Rent

Pasadena Winter Club

171 South Arroyo Pkey.

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**As You Like It**

Enjoy your cigarette! Enjoy truly fine tobacco that combines both perfect mildness and rich taste in one great cigarette. LUCKY Strike.

Perfect mildness? You bet. Scientific tests, conducted in independent laboratory, prove that Lucky Strike is milder than any other principal brand. Rich taste? You bet.

Only fine tobacco gives you both rich mildness and rich taste. Lucky Strike is made from specially selected, choice tobaccos, rich in natural flavor. Enjoy Lucky Strike. Medals awarded by the American Tobacco Company.

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**The California Tech**

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**Gardens**

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(Continued on Page 6)

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(Continued on Page 6)
their personal problems and to find a solution to this problem. For such privileges as its loan arrangements will be given to the Navy. Actual wave which went on during the war rode and tear away metals. High-pressure area which will... story of Palomar

(Continued from Page 1)

all research in the world, according to Dr. J. E. Greenstein, professor of astronomy.

Photo in Project

The large Schmidt is being used right now in an international project being undertaken by the National Geographic Society to map the whole sky visible from the northern hemisphere. This project will take four years and will necessitate the taking of about 4,000 individual photographs.

Goals of Astrometry

In general, the primary goals of the astrophysics research in Southern California include the study of the expanding universe and its application to the theory of relativity, the structure of our galaxy, the quantitative study of the composition of stars, and study of the nuclear energy being constantly released in the stars and our sun.

Technological Improvements

During the past few decades great technological improvements have been made on astronomical equipment with the subsequent results that the 48-inch scope at Mt. Wilson is now doing work for which the 200-inch was originally designed. At present, the University of California is constructing a 120-inch reflector atop Mt. Hamilton, San Jose, which will soon rival the 200-inch and will no doubt also have a chamber of its own in the world's largest telescopes.

van de Graaf Generator

(Continued from Page 2)

Alcohol and...

The new Illinois cloud chamber is the second device used for determining the intensity of cosmic rays and organizes using all of its complex and dry and dewy. A cloud saturated with alcohol is placed in the apparatus, which then is isolated and incondescent and is quickly dry by itself. Demonstrating the cloud chamber is the Ernst Gebhard.

AF to Interview

Prospective Cadets

Returning one of the most important articles in officer opportunities in the US Air Force will have a chance to find out all the answers next week on the campus. A S.R.A. cadet selection team will be here at the entrance to Thrupe Hall.

Ready to Take You In

In protest, Capt. John L. Kriecher, who is making arrange some of the many being made to accredited college campuses this year by US Air Force Officers to provide college graduates with information on Air Force officer training. The selection team will be ready not only to answer all questions but also to process an accredited high school graduate. The selection team will be ready not only to answer all questions but also to process an accredited high school graduate.

Two Training Courses

Capt. Flucher stated that there are two courses of training being offered to qualified men.

1—Pilot Training, consisting of one year of intensive schooling in all phases of aviation. Cadets receive $15 per month during training and upon graduation are awarded commissions as second lieutenants. Ordered to active duty as flying officers, these men may earn pay and allowances amounting to $1000 per year.

2—Naval Training consists of a year of schooling in the line and flight training. Cadets receive $150 per month during training and upon graduation are awarded commissions as second lieutenants. Ordered to active duty as flying officers, these men may earn pay and allowances amounting to $1000 per year.

MUSSELMAN TEAMS

(Continued from Page 5)

at the half. The defeated Butler dropped the unlucky coin in a Las Vegas slot machine. Great news! Well, the low man on the totem pole, had trouble all the way and never did find the true coin.

Cracks

The jalopy Athletic Department handed casting statements at the Sports Staff. “What you announce is a direct blow to all major football fields.” The Staff team smiled/Gurian at the Athletics’ back, while just waiting for next year and a complete victory.

ROVY ROUTED

(Continued from Page 2)

goal, while an SC fullback is credited with the remaining point.

Weber Kleveland Captain

A recent team meeting, center half Ernst Weber was elected team captain. His consistently good quilting throughout the season has made him one of the outstanding players on the team. Score by quarters:

RUNNERS BEAT FOMONA

(Continued from Page 5)

neces... by setting them back. Conditions at the Tournament Park, Bill M. Kidder... From reports of the course conditions at Claremont, the Beaver kicked the Tjoune... and by setting them back 158 at Tournament Park. Bill Pilk... set the cross country team to one point victory over the two teams. The Beaver... made to real mud... And to win the weekend off, the Fresh eleven finally came through by clicking the holding greenings. All sight, win.

Congratulations to W.R.D. Academic AllConference nominations. Gail LaBrucherie is really miles, not one of the three is.

THREE ENGINEERS

(Continued from Page 5)

Guard... Pool Mack (W) Guard... Herb Hill (O)

Line Backer... Neil Sterling (C)

Ter... Rock... Henry Reed (W)

Back... Rock... Jack Walker (CIT)

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YES...Compare Chesterfield with the brand you've been smoking...Open a pack...smell that mild Chesterfield aroma. Prove—tobacco that smell molder smoke....

Now smoke Chesterfields—they do smoke molder, and they leave NO UNEASINESS AFTER-TASTE.

FROSH SPORTS ROUNDUP

(Continued from Page 4)

To TECH's 15 and running it all the way.

In the second quarter Moore-Henderson came from nowhere to chalk up TECH's second score on his interpolation of a pass over Redman's 13 yard line. Striker made the extra point on a line back to end the first half scoring at 13:15.

Bruce Kaiser went over for the all-important final score after a postrunning attack brought the tea from TECH's 38 down to REDMAN's 13.

Starting Lineup

Chesterfield

Mervyn...

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