Caltech in the past.

Since there are only two

Dr. Ricketts-Carl Larson and Mike Callaghan; Patience Attorney

A small number of students

The Pasadena Elks Club, 909 South Brand Blvd., on the south side of the street several hundreds of feet north of the Rosebowl, will be open for the gentlemen and a number of members will be present in the capacity of host.

L.A. who pick up their miners at Pomona game is the last

We hope to see you there from 8-10 Monday, Nov. 26 at the annual ASCIT fall formal. From nine till one they will be found in the plush sanctuary of the General groups about the beautiful lounge.

An outstanding contributor to the team in sportsmanship, the coaches and fellow-players as well as the fans will be honored.

As a former student of Theoretical Physics, Mr. Fleming-Bob Robertson is now engaged in a scientific research project. From nine till one they will be found in the plush sanctuary of the General groups about the beautiful lounge.

And other educational policies will be adopted to

and Friday, the Jet Engines-Dr. Ricketts, who was christened in 1948 was formed in order to give a total of about $500 to students. formed, and research projects will be developed with slide shows, to be given by Mr. Leonard Lyons, new chairman of the Board of Directors, will preside as Master of Ceremonies.

The Pasadena Community Science Center funds to universities requiring a total of about $500 this year. The Is Foundation is the third

It is to enable

The Caltech Speleologists Society, (Continued from Page 4)

on the campus map. This is to enable

Conference Debate Begins Monday

The first of the two-week debate will take part in the form of a campus-wide tournament being held next Monday, Nov. 26 at 8:00 in Throop Hall at Peppercorn College.

Pleasure is

At Pepperdine College, students are not permitted to speak in the conference, and more than ten participants. The ten minutes which will be allotted for the debate are slit into two segments: Monday, Nov. 19 at 7:30 in the Ad Astra Lounge.

Patent Attorney

ASME Speaker

Leonard Lyons, prominent Los Angeles lawyer and president of the Caltech Pep Club, will discuss the subject of "The ASME about patents. Mr. Lyons has done legal work for Caltech's alumni and friends.

Campus Calendar

Frosh football vs. Redlands

Wednesday, Nov. 21 at 9:30 in the Pasadena Bowling Alley.

Y's Doings

By Ray Crayk

By Ray Crayk

For a particular issue, the student body is meeting which will be open for the gentlemen and a number of members will be present in the capacity of host.

Buddhism

The General Clubs Luncheon held every Thursday is intended to be a series of orientation lectures on contemporary religious and social questions to develop a better understanding of Buddhism.

Last Chance

Any off-campus students who have not yet made a Big T pledge are urged to keep the one you make, come down to lower Fleming between 4 and 6 p.m. Monday, Nov. 26, and your picture will be taken. Wear a cool, tin, and white shirt, above, and sipping $1.30.

Eaton to Embrace Sports Banquet

Dean Eaton, new chairman of the Physical Education Commission, will preside as Master of Ceremonies at the Fall Fullers Bowling Banquet, Tuesday, Nov. 27.

Wheaton Topsy-Turvy

Whew! Trophies will be presented to the outstanding football player who is chosen by the ball-players and officials as being an outstanding contributor to the team in sportsmanship, physical ability, and moral influence. Football letters will be awarded to players who will be featured as vestigial, non-existent. But the present wish is not to be very interesting, according to Phil Orville, Assembly chairman.

Modern Art at Y Forum Nov. 20

The next Y forum will feature a talk, Modern Art, illustrated with slides, to be given by Mr. Irwin Rubenstein and Jim Crespo.

1200 Students Here on Dec. 2

About 1200 high school science students from the Los Angeles area, representing a wide variety of activities with the assistance of some hundred volunteers, will be present.

Two Forums Coming

Spring Bowling Banquet will be held on Friday, Jan. 26, and the Caltech Bowling team will be featured in the annual ASCIT fall formal.

The idea behind the varied program is to offer students the opportunity to meet people who have different views and ideas, to develop a better understanding of Buddhism.

The Pasadena Elks Club, 909 South Brand Blvd., on the south side of the street several hundreds of feet north of the Rosebowl, will be open for the gentlemen and a number of members will be present in the capacity of host.

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Two Forums Coming

Pre-Registration Dates

Two Forums Coming

You are invited to sign up your second year of pre-registration for the next year between Nov. 26 and Nov. 24 in the auditorium of the Physical Education Building. The count will be filled in and returned to the registrar's office, Monday, Nov. 26 at 11 a.m. After the deadline the program is to offer students the opportunity to meet people who have different views and ideas, to develop a better understanding of Buddhism.

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The California Tech

Thursday, November 15, 1950

THE COLUMBIA TECH

CAMPUS BREWS

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A number of different strategies, games, and since in a number of games the player would use ploy, and would require a book in some custom cases on previous play. Games tabulated, such that his best moves are shown in the table for any number of strategies for him; he may always see, only when raises, see only when A passes, and pass.

Table Set Up

Unless instructed otherwise, a table can be set up as shown giving the expected outcomes for any combination of strategies by A and B, according to strategy dependent on the card dealt thus far, over a period of time. The table given for A's outcome, is generally negative in every table, since this is a zero-sum game.

Outcome

From the table we see that A has a certain value of 0, no matter what B's strategy, and we have an outcome identical to -0, no matter what A's strategy. This game can be closed by an appropriate choice of mixed strategy in definite proportions, giving a value of 1/3 as the value of the game. The strategy by which A can be certain of winning is left to the expert

A more complicated game could be analyzed in the same way for a game value, but the results resulting would be tremendously large. In the case of more than two players, a coalition based on an interest factor usually permits dividing the parties into two parties.

No Tech Next Week!

In accordance with the administration's decision to omit activities next week, the school administration has decided to call off all school activities next Thursday and Friday. There is no possibility of any music by the Philharmonic Trio. This group was well-coordinated and played with a good sense of phrasing and expression. The Mithridate for Violin, clarinet, and piano was particularly well done, and clarinetist Franklin Rhodes handled his part of the performance with excellent control and intonation.

The next Musicale concert will be held Sunday, November 26, at 8:00 P.M. and will feature Mr. and Mrs. John Mandel. The first guest will be Annette Hunter. These performances will end three minutes walking distance from the student house, they are free.

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In the Middle of the Block

BECAUSE Du Pont is a chemical company, you might expect the technical men to be chemists. Actually, there are more engineers there than chemists at Du Pont. In each of the ten manufacturing departments there is a group of men trained in chemical, mechanical, electrical, metallurgical and other branches of engineering. These engineers not only conduct such independent units with their own research, development, production and other functions, but in other fields, they do fundamental and applied research on both processes and products. Sometimes engineers participate in the early stages of a project. More often, however, they enter the picture when the project has moved to the point where commercial production is considered. They see it through the pilot plant and semi-works stages and assemble data necessary for the full-scale plant.

Even after manufacturing has begun, development work continues to standardize and improve the process. Engineers whose main interest is production and plant operation take over at this stage. Du Pont also has a number of technical sales staffs help maintain contact between the Du Pont organization and the customer. They present new on products and guide customers in process development and similar problems. They also use their technical knowledge in making surveys of possible applications for the Company's products.

In addition to the manufacturing groups, the Du Pont Engineering Department—a central staff organization—requires engineers with a variety of types of training. This Department carries on its own program of fundamental and applied research. It also makes site investigations, lays out plant facilities, and coordinates design activities for the manufacturing departmen's, and also conducts research on process development, on materials of construction, and of methods of operation.

You, engineers figure importantly in the chemical engineering field, with chemists, physicists and others around your Du Pont Company produces its "Better Things for Better Living...through Chemistry."
The San Francisco Cam-
paign, with last Sunday's mus-
ciple performance, closed its
two-week engagement in Los An-
gels.

One of the highlights of the
company's second appearance
was the double-billing of two
operas, "Salome" and "Rigo-
tea," and Richard Strauss's "Sal-
nata," last Thursday even-
ing.

"Salome" Thrilling

The climax of the evening
was Richard Strauss's operatic
version of Oscar Wilde's thriller,
"Salome." The ideally suited
music for this goriest of Biblical
episodes by an enthused audience.

Levriers, Lewis, in her Los An-
gels debut, portrayed the god-
shl princess, Salome, admirably.
Miss Lewis is at her best both
as actress and vocalist.

"Seven Veils" Dance

After some particularly ad-
tentative stage business, includ-
ing the eyebrow-raising "Dance of
the Seven Veils," she still re-
tained sufficient wind to do full
justice to the thrilling finale.

She does not, like Lydia Wai-
slow, attempt to sing the entire
song while sprawled on her back,
but does the menace up to the MI-
ning in vocal agility; still, she has
all the necessary qualifications
and was heralded a definite suc-
cess in this particular venture.

"The Magic Flute"

The show Friday night was
Mozart's delightful fantasy op-
 opera, "The Magic Flute." A lib-
rettist would never realize that
this work was written in one
of the most unhappy periods of
the composer's life.

Happy Magic

That at a time when he was
running out of his money and had
lost his friend, Leopold Mozart, could
on commission, pen such an un-
usually happy masterpiece as this, is
indeed a wonder, and a tribute to the master's
impressive powers.

The story of the opera tells
the inner machinations and trials
that a noble Egyptian couple
must undergo before finally be-
ing united.

Levriers

The love of Tamin and Fa-
mina, were portrayed by James
Schwender and the Due Graf.
Schwender, here for the first time in a major role, proved
to be a fine lyric tenor. His voice is light and rich in
great power, but it is clear and well-
controlled. Due Graf has a good
voice, and sang with the charm
equivalent to her role.

Beverley Soper

John Brownie, taking the
cosmic part of Papageno, the
companion of Tamino, stole the
show. He is a still finer baritone,
and is an actor superb. One
found Detmar, somewhat diap-
grammatic, especially after having
heard his fine performance in "Rosenkavalier," his face
is not quite roundly, and his
character seems to model on
some of the lower notes in the
part of Tamin, but the picture of the
Queen of the Night, so definitively
flourished by a host of hungry Darbs
of the stairs and screamed dy-
ning unable to conjecture as to their
way to the refreshments,

Robert what came off. but so dark wa-
s the dance that
he still tended to deviate among the cunningly placed a
change.

Dr. Budge commented that it
must have been a bit too close to
the correct pitch. booby traps of lum-
ber in the

Leaves

A noble Egyptian couple
that a noble Egyptian couple
must undergo before finally be-
ing united.

Pinnacles

The San Francisco Opera
Company made its last bow
Sunday afternoon with a produc-
tion of Verdi's "Rigoletto." Ver-
di composed the music for "Rigo-
etto" simultaneously with "La
Traviata," and one cannot help
but notice the striking similari-
ties of the two works.

Here is Verdi at his lightest
and airiest. Lyrical melody
abounds. The orchestration, as
alluded to, is "Alf's" idem, and
the roles of the orches-
tas in very subordinate to that
of the singers. "Rigoletto"
is some of the most famous
arias of opera, for example,
"Cara Nome," "La Duenna a Mo-
no," and of course, the famous "Questa

Rigoletto

Kino Mascherini headed in the
out in the title role of the
hunchback, Rigoletto. Mascher-
ini's voice is not only rich and
full, it is to be regretted that
this part wasn't taken by Robert
Arno, as originally announced.
Furthermore, Mascherini is a
wise actor. However, if one
didn't know the title role by
heart, he would be satisfactory.
Some of the difficulty may be at-
tributed to the cold with which he was re-
covered by his smoothness.

Poes Wiggins

A remarkable young
dughter, was sung by Lily
Pons. Miss Pons was not
in vocal peak Sunday, but still
she still tended to deviate among the cunningly
placed a
change.

Pons did give the audience
a sound laugh in the last act,
when after the caution her soprano
d was self placed in a sort of
comedy. She was develop-
ing a bit too much vibrato,
and still she tends to deviate
from the correct pitch.

Pons's voice is not overly rich and
the range is too limited to make
of the singers. In

Mascherini was lost in this one by Ruth
Pon's "Rigoletto." Ver-
edi composed the music for "Rigo-
etto" simultaneously with "La
Traviata," and one cannot help
but notice the striking similari-
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LITTLE SECRET WORK

...that's how to make
...that's how to make

CAMPUS BREWINING

(Continued from Page 2)

be expected to allow
the public to sample the
beer on tap, and to
take away with them.

As to the part which the
stunt played in this far
from good faith on the part of most
each, I have a three-day

CAMPUS BREWINING

(Continued from Page 2)

be expected to allow
the public to sample the
beer on tap, and to
take away with them.

As to the part which the
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CAMPUS BREWINING

(Continued from Page 2)

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the public to sample the
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take away with them.

As to the part which the
stunt played in this far
from good faith on the part of most
each, I have a three-day
ELA JC, Cal Poly Fall To Waterpolo Squad
BUTTN' IN

Tech Harriers Lose To Oxy; Race Hens Saturday

Lula Soccer Wins Again

Tech Whips LaVerne 27-12 in Wild Games
Woodsy, Karasawa Pace Engineers For First Win in Thirteen Games

Tech Harriers Lose To Oxy; Race Hens Saturday

Everyone run a good race, but Columbia cross-country squad just couldn't get by their nemesis, Oxy.

Tech Whips LaVerne 27-12 in Wild Games
Woodsy, Karasawa Pace Engineers For First Win in Thirteen Games

Beaver Sports

Coach John Barner, who ran the mile three course in a time of 16:33, the Oxy squad took the meet by a score of 25-33.

Barner ran in front right at the start and was never pushed. Had Butler, former star from P&GT and now running for Oxy, battled with Bill Finklott of Caltech for two miles. But Harold finally had to fall back, leaving chief globe to Pete Mason who finished first for the Engineers runners.

Others scoring for the Beavers was Ledlow in 15th, Finklott in 4th, Francis in 8th and Roy Downing in 11th. Pomona

Since Oxy just to Pomona, this Saturday meet for the squad was a continuation (Continued on Page 6)

FighTrick PROGNOSTICATIONS

GAME

Washington

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Washington

Washington

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California

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PROGNOSTICS

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You get your chance next week. Basic form won't get your chance now. LaVerne's score of 13-10, 20

Oxy, 12, 19. In the fourth quarter Tech began to pull away and around and through the Leopards to go into the lead 10-12. The 19-12 play was a death blow and it ended with the Leopards in 13th. They moved 94 yards but couldn't score, Tech

to the lowest. They met Redlands in the Rose Bowl at 5:30, before the varsity then began to appear that

to a touchdown and a 7-6 lead. The chances of the Beavers in the league tournament starts off again. They moved 94 yards but couldn't score, Tech

Oxy, 12, 19. In the fourth quarter Tech began to pull away and around and through the Leopards to go into the lead 10-12. The 19-12 play was a death blow and it ended with the Leopards in 13th. They moved 94 yards but couldn't score, Tech

The chances of the Beavers looking slim the result of the game when LaVerne received the kickoff and drove 80 yards to a touchdown, the scoring play being a pass in end to end Adams that was good for 44 yards. This gave the Leopards a 6-0 lead barely minutes into the game.

Righl Back

But Tech did not come back immediately marched 74 yards in 11 plays and scored a touchdown. Then it was apparent to all that whatever team ends the first half must either have the last kick or conversion made to go into the game. LaVerne was marched from its own 25 to go in the lead again 127. The touchdown play was again a pass that was good for 4 yards.
SFELEGHTIS HITS (Continued from Page 1)

The Big Hole

Who belongs in the N.S.S.?

Many of its members are people formerly associated with the Caltech campus, although a newcomer is not without his problems. He sometimes finds that there is a gap between the old-timers and his fellow students. However, he is usually assimilated into the N.S.S. with no real trouble.

The N.S.S. is a social club, not a debating society, and its members are free to discuss whatever they wish provided that the discussion is not offensive to other members.

The N.S.S. is a club for people who enjoy talking and who are interested in getting together with others who share their interests.

The N.S.S. is a club for people who enjoy talking and who are interested in getting together with others who share their interests.