

Taubates Induct New Men In Formal Initiation Ceremony

Banquet to Be Held at Athenaeum for Top Students; Kyropoulos to Be Initiated, Also Speaks at Banquet

Midnight activities with handi-tools and emery cloth drew to a close last night as twenty-one Taubate pledges finished their pledge duties. The formal initiation held tomorrow will mark the entrance of the fifteen seniors and six juniors into Tau Beta Pi, the honorary engineering fraternity.

Each year about forty-five students are elected to Tau Beta Pi. These students must be in the upper eighth of the junior class or the upper fifth of the senior class. The juniors who are invited into Tau Beta Pi during the first term are considered as honor members, since they must meet very high academic standards as well as be active in outside activities.

Among those being initiated will be Dr. Peter Kyropoulos, Assistant Professor in the Mechanical Engineering department. Dr. Kyropoulos got his undergraduate education at the University of Gottingen, and then came to Caltech in 1937. He received his Master of Science in ME in June 1938, and his degree of Doctor of Philosophy in June 1948.

Banquet

After the formal initiation this Friday, the pledges will be guests at a banquet to be held in the Athenaeum. All members of Tau Beta Pi on campus and in the neighborhood of Los Angeles have been invited to attend this banquet.

The banquet will be held tomorrow evening in the Hall of the Associates in the Athenaeum. The initiates will present a traditional one act drama for the amusement of all the old members present.

The guest speaker at the banquet will be Dr. Peter Kyropoulos, who will speak on "Farewell to the Horseless Carriage." Dr. Kyropoulos is also one of those being initiated into Tau Beta Pi.

New Members

The juniors who are being (Continued on Page 6)

Mug-shots Offered At Dollar-a-Dozen

All Techmen interested in obtaining photos, suitable for enclosing with job applications, are urged to take advantage of an exceptional opportunity being offered this Friday.

Specialist

Richard S. Heard of West Arcadia, a specialist in mass production photography, will be in Lower Fleming all day Friday, December 3.

12 for \$1.00

The pictures are 1½ by 2¼ in size, and come either gumbacked or plain. The price is one dollar for twelve photos, and larger size prints are available at appropriately low prices. One week service is offered.

No Appointments Necessary

Since Mr. Heard will be on campus all day, stop by at your convenience.

Campus Calendar

- THURSDAY, DECEMBER 2—**
12:00 "Y" Frosh Luncheon Club Training Table
12:15 Throop Club Meeting
3, 4:30, 8 A.I.E.E. G.C.E.S.
"Light Society" by A. Rogers
7:30 Blacker Christmas Formal
7:15 Newman Club, 208 Dabney
7:25 "Y" Cabinet Meeting, Dabney Hall
8:00 Varsity Basketball, Redlands Tournament at Redlands
- FRIDAY, DECEMBER 3—**
11:00 Assembly: Orchestra and Glee Club
7:30 Demonstration Lecture: "The Importance of Soil Mechanics in Structural Design" (Prof. Converse, 201 Bridge)
8:00 Varsity Basketball, Redlands Tournament at Redlands
8:30 Ricketts-Throop Barn Dance
- SATURDAY, DECEMBER 4—**
10:00 Varsity and Frosh Cross Country, vs. Occidental, Redlands, Santa Barbara, Tournament Park
8:00 Varsity Basketball, Redlands Tournament at Redlands
7:30 Blacker Christmas Formal
8:30 Fleming's Christmas Revel
- SUNDAY, DECEMBER 5—**
7:30 Caltech Musicales, Dabney Lounge
- MONDAY, DECEMBER 6—**
6:30 Athletic Banquet
- TUESDAY, DECEMBER 7—**
12:00 "Y" Frosh Luncheon, Training Table
4:15 Varsity Basketball, Caltech vs. P.C.C. at P.C.C.
7:30 Band Practice, Culbertson
- WEDNESDAY, DECEMBER 8—**
4:30 Alumni Placement Series, Dabney Lounge
7:30 Fencing Class, Dabney Dining Hall
7:30 Orchestra Practice, Culbertson Hall
9:00 Glee Club Practice, Culbertson Hall

Term's Last Placement Talk Features Sales

By Dick King

It's the last Alumni-Beaver placement lecture of the term next Wednesday, but it certainly is not the least by any means. The topic is Sales and Sales promotion, a subject of considerable importance in industry, and a definite possibility as a field for the graduate Techman. Mr. R. E. Johnson of the General Electric Company, is the expert heading the discussion, and as is true of all the speakers, has a raft of experience to bring along.

Speaker's Background

Mr. Johnson is at present Executive Assistant Manager of G. E.'s Los Angeles office, a long employment with the company. He has been with G.E. for 20 years, all of it in Los Angeles. Up until the recent war, he spent his time promoting G.E. equipment in oil activities. During the war he gave his attention to the promotion of G.E. equipment in the Aircraft Industry, and continued in this line until August, 1948, at which time he was given his present position. A college grad, he holds the sheepskin of Stanford University.

In the Future

This lecture is the last for the first term, but the series will continue next term. Subjects to be taken up will include Design and Engineering, Production, Manufacturing, Teaching, and the ever important information on Summer Jobs. The time and place seem to be favorable to everyone, and in all probability will remain the same, 4:30 p.m. Wednesdays, in Dabney Humanities Lounge.

Credit for the work done in organizing the series lies with the Alumni, and the Beavers. Dick Schuster and Dan King have worked hard on the student end, while Rube Mettler and Doug Sellers have headed the tireless Alumni Committee. If you enjoy these lectures, and think they should be continued next year, a word to any of these individuals would be appreciated.

Tech Speakers Journey To COP

Caltech debaters will match wits and words against UCLA, USC, Stanford, and about a dozen other schools in the winter tournament to be held at the College of the Pacific in Stockton on December 3 and 4. Debating and Extempore contests will be given.

Approximately 100 teams, consisting of 200 students, will participate in the events. Caltech entrants are: Leo Breiman, Bernard Rudin, Ulrich Merten, Oliver Gardner, Ralph Stone, James Kenny, Allen Beek, Ray Brow, Bob Kurland, Dick Fairall, Clem Savant, and George Brown.

Bernard Rudin, who took second in the speaking events in the Pepperdine College Tournament, will try to better his record at COP.

Throop Invites All New Year's Eve

The annual Throop Club New Year's Eve party will be held as usual this year. Men remaining in the Student Houses over the vacation are invited, as well as off-campus students.

An admission price of \$3.50 per couple covers the cost of confetti, streamers, hats, noise-makers, food, and punch. There is a limited number of tickets, so it's first come, first (hic) served.

To get tickets see Gene Mooring, Rolf Erickson, Dale West, or Bob Cobb at Throop Club between 12 and 1 p.m.

Glee Club, Orchestra To Offer Concert Selections To Tech

Tech Debaters Speak On KPPC

Appearing on local radio station KPPC for the fourth time this year, the Caltech Y Radio Roundtable delivered at 9:45 p.m. Wednesday, November 23, a discussion of the question "Should the Taft-Hartley Act Be Repealed?" The very successful, if somewhat heated discussion, was carried by Bob Stubbins (speaking for repeal) and Irving Krumholz (speaking against), with Frank Brady moderating.

Meeting

The Taft-Hartley broadcast was preceded by a meeting of the participants with Dr. McCreery at the latter's home Tuesday evening. In between refreshments, which were reported to have been excellent (although unfortunately not spiked), the program material was thrashed over with the Roundtable's sponsor, and the vital issues of the question were pinned down neatly.

Last Meeting

Yesterday, Wednesday, November 30, a meeting was held in the Y lounge to arrange for the next broadcast. The topic decided on is "Will federal control stop inflation?" and the speakers will probably be Bernard Rudin and George Brown.

Next Meeting

Another meeting will be held next week, 4:00 Wednesday, December 8, in the Y lounge, at which, after winding up the week's broadcast arrangements, a discussion will be launched seeking new topics and new speakers for the coming broadcasts. All students interested are invited to attend.

Proved Flexible

The successes of the Caltech Y Radio Roundtable so far this year have proved that it is a very flexible organization. Its method of holding informal open meetings, discussing possible broadcast topics and developing a team of speakers for each broadcast has proved that many Caltech students are able to perform well before a microphone. If you're interested, whether or not you'd like to appear on a broadcast, by all means come to the next meeting (4:00 Wednesday, December 8, Y lounge). Further information can be obtained from Verne Smith any noon in the Y lounge, or from Don Bratton, 8 Ricketts.

Ricketts, Throop Join For Hay Fling

An old-fashioned barn dance will be given by Ricketts and Throop Club tomorrow night. Lots of straw and frontier amusements will abound at Wildwood Lodge in the High Sierras above Sunland.

The Dabney Combo will supply a rustic accompaniment for the proceedings. Its members, Bruce Hedrick, Dave Warren, Roy Gould, Bob Stanaway, and Tom Coons, will beat out and up assorted fox trots, waltzes, and country dances in their inimitable (Thank heaven) way.

Pretzels and drinks—soft and otherwise—in kegs will be served. An exciting crew race is promised by Ricketts' Jim Wilcox and Throop's Linn Croghwhite, captains of their respective teams.

Dress will be as rural as possible. This means cottons and gingham for the girls, levis and loud shirts for the men. Bill Bradley of Ricketts and Rolf Erickson of Throop, who are arranging the dance, say that there is still room for a few couples on the sign up lists.

Assembly To Be Held To Acquaint Student Body With Revived Groups

Musical Organizations to Present Mozart Symphony, "Coronation March," "Ye Watchers and Ye Holy Ones"

By V. A. J. Van Lint

The Caltech, Orchestra and Glee Club are presenting the first assembly concert of the year tomorrow morning. This will be the first in a new series in which the organizations are actually working to perfect the repertoire for concerts rather than just practicing new pieces for rather useless amusement. The emphasis during this term has been on getting the few pieces ready for a concert.

AIEE Chapter Takes Hoover Dam Trip

Members and guests of the Caltech A.I.E.E. chapter journeyed out Las Vegas way over the Thanksgiving vacation where they inspected engineering features of Hoover Dam. The trip was the result of special arrangement with the Bureau of Power and Light.

Tour Dam

The group of about forty men left Pasadena Friday morning, stopped to visit the Victorville switching station, and arrived in Las Vegas Friday night. Saturday was spent touring the dam. The Techmen were first given the clue on the history of Hoover Dam and its broad purposes. Later they were taken to the control room where they learned the operation of the dam, and finally went on an extended tour through the dam.

Senior Rings

Gentlemen of the Senior Class!

Attention!

Once again we call you to notice the importance of ordering your Senior Class rings at an early date. We know the price is enough to shake your uppers loose, and we don't blame you if you suggest some cozy repository for said gold and black onyx symbol of your membership in the august Class of 1949. \$26.75 is a lot of rocks. BUT!

If you are going to be foolish and get a ring, we urge upon you the wisdom of ordering it NOW, so that there will be plenty of time for its manufacture. There is good reason to believe that those who order now will receive their rings in the early part of the third term, so it behooves you to see Bill Simons of Dabney House, Class Vice-President, pay your small deposit, and get your ring ordered.

Blacker To Decorate For Christmas Dance

Tomorrow night Blackerites unite in a unique get-together—a co-ed Decoration Party in preparation for Saturday night's festivities. The feeling is that the presence of the feminine sex will prove inspirational.

Big Event

Saturday night is Blacker's big event of the term. The Christmas Formal will be a fitting climax to a term that has seen many outstanding social events come and go.

Steak Dinner

Couples arriving between 7:30 and 8:00 p.m. for the steak dinner will gaze upon the Christmas tree of Christmas trees—the mainstay of the decoration. Proper eating atmosphere will be provided by dinner music and flower-bedecked tables dimly lit by candles. From 9:00 to 1:00 all will dance to the remembered sweet strains of Max Bickley and his orchestra, not to be confused with the not-so-sweet straining of Nappy Lamare.

Subject For Peace Prize Contest Told

The 1949 McKinney Prize Contest in English, offering first prize of \$75 and second prize of \$50, will have for its subject "The American Way of Life—A. D. 2000". The contest is open to all members of the Junior and Senior classes, except winners in last year's contest. In addition to the cash prizes, successful contestants will receive a valuable book as a trophy.

Requirements

Required preparatory reading is Frances Bacon: *The New Atlantis*; Edward Bellamy: *Looking Backward: 2000-1887*; Bernard Shaw *Back to Methuselah*; and Aldous Huxley: *Brave New World*. Essays are to be about 1200 words on the assigned subject, drawing ideas from the required reading. All manuscripts must be typed double-spaced on one side of the paper only. Each candidate will submit two copies of his essay, an original and one carbon.

Final Contest

All entries are to be turned in to Professor MacMinn, 212 Dabney Hall, by Monday, April 18, 1949. Essays will be judged by the English department. The four men submitting the best papers will be chosen for the final contest, which consists of oral presentation of the essay, or its essential content, before a group of community judges. The final contest is to be held at an assembly early in May. The winner will be determined by the quality of the essay and the effectiveness of his oral presentation.

Founder

The Mary A. Earl McKinney Prize Contest in English was established at Caltech in 1946 by Samuel P. McKinney, M.D., of Los Angeles, in memory of his mother. Dr. McKinney is a graduate of Rensselaer Polytechnic Institute. The purpose of the contest is to cultivate proficiency in English through annual competitions in writing and speaking.

Newman Club Plans Meeting Thursday

The Caltech Newman Club will hold a discussion meeting on Thursday, December 2, in 208 Dabney. Time is 7:15 p.m. Discussion on the subject "Reason and the Existence of God" will be led by Father James O'Reilly.

All Invited

Following the discussion there is to be a business meeting and election of officers. All persons interested are invited to attend.

Darbs Enjoy Picnic, Fireside Activities

The Thanksgiving holiday gave the men of Dabney another event to satiate their always burning desire for social contacts. Wednesday night saw a number of the harder Darbs up in Oak Grove Park with their dates, enjoying hamburgers, potato salad, and the customary amber liquid. After the facilities of the park had been fully exploited, a retreat was initiated to the Dabney lounge, where dancing and other allied activities took place before a roaring fire. Scripps College for Women was well represented, thanks to the n-passenger taxicab of Hedrick and Markoff.

Forester Presents Engineering Talk

At a meeting of the CES on Monday, Chuck Forester, president of the Caltech ASCE Student Chapter, presented a report on "The Engineering Profession in Transition," prepared in 1946 by the Engineers Joint Council, a composite engineering service organization comprised of delegates from the ASCE, ASME, AIEE, AICE, and AIMME.

Slides Illustrate

Through the use of slides, prepared from this report, which were furnished by the Los Angeles Section of the ASCE, Forester gave a short background of the report, explaining that the statistical analysis contained in it was based upon returns from an anonymous questionnaire which was sent out to some 87,000 accredited members of the five member societies mentioned above, of which some 47,000 were returned.

(Continued on Page 6)

Bargain--

Richard S. Heard will be in Lower Fleming all day Friday, December 3, to take job application photos. "The pictures are 1½ by 2¼", and come either plain or gumbacked. The price is one dollar for one dozen prints.

The California Tech

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CAMPUS BREWINS

TO SCRIPPS

He thought he saw an Elephant,
That practised on a life;
He looked again and found it was
A letter from his wife.
"At length, I realize," he said,
"The bitterness of Life."

—Lewis Carroll

Mudgett, Madden, and Co. got in high gear Friday evening. Saturday night presented a colorful scene. The generator had gasped its last, but the company could be seen gathered around a typewriter and a case of stout, giving their all over the forthcoming Drama Club play. Chaparones included Woods, Price, and his inevitable cousin.

The Bohemian behavior of the Fleming contingent at the Ski Chalet this last weekend could easily suffice for an entire BREWINS, but then the Rowdies who try so hard to appear dashingly immoral would nurse hurt feelings. Oh well, Ricketts dirt is the same color.

The Ricketts troops are still having their little troubles. Bill Bradley, having lost a Scripps lass, is sobbing on a different shoulder each week. (A fifty-bogach reward or a box of Triscuits awaits all readers who can describe what's wrong with the above sentence in five thousand words or less.)

The Dabney Dance last Saturday night beheld a new candidate for the Washington Monument Club. H. Lewis does not seem to get the word on Claremont. Maybe its like measles—one infection and then live happy. The biggest event of the evening featured Al Sereno crooning "Prisoner of Love." Dan King's date blushed a number of becoming shades; for it seems that Al sang it to her last year. Dahm, King—it shouldn't make a great deal of difference.

It grieves me to see how the moral tone of our Ricketts jun-

iors has slackened. Remember when Victor (A. J.) Van Lint was a pure, sheltered, innocent lad? Roommate Fox took our Hero of the Week on a double date one night and pointed out Sunset Ridge. Victor went through all sorts of traumatic experiences in the back seat. Now the poor, fallen soul has a car of his own, and is to all appearances leading a Life of Sin. His little black book is becoming worn; he disappears every weekend night; he has formed a nodding acquaintance with the morning star; Weep, O Brethren, he has fallen!

Those of you who were unfortunate enough to remain on campus during the latter part of last week may have noticed that the Shmeck appeared a few days late. A tale hangs thereby:

Thursday. Win Soule, circulation manager of this peerless publication, meets Santa Barbara schoolgirl.

Friday. Win Soule goes to housewarming with S.B. s.g. (Marvelously broadening institutions, housewarmings.)

Saturday. Win Soule has date alone with S.B. s.g.

Sunday. Win Soule is very pleased with himself.

The tragedy of this tale lies in the fact that our po' editor, Jim Hummel, had to go down to the print shop and distribute the papers himself.

You know that line about lucky at cards, unlucky at love? Our boy Chuck Walker, tau sig of the week, wouldn't agree. That's all, just ask Chuck.

Hero of the Week is George Bergstrom. I hope he's conscious now; so he can enjoy the tribute. It's a cinch he wasn't last Monday evening while moaning on Ottestad's sack. Buck up there, George. No woman is worth it! Illigitimus non carborundum!

An Editorial

The Almighty Quiz...

With finals leering just around the next weekend, it seems like an apt time to discuss the question of quizzes. It was not the thought of finals that brought forth this editorial, but an editorial printed in the M.I.T. paper, The Tech. This school is so similar to ours in many respects that much of the material used in their paper can also be used in ours with advantage.

Here is what the editor of The Tech has to say about quizzes:

"Certainly the educational system at the Institute is not perfect. The emphasis upon quizzes and grades is detrimental to obtaining a thorough knowledge of the subject matter. At the present time this accent develops a group of mechanics, men who are aware of the formulas and tools of the trade but who lack the essential ideas that go into the making of their science of engineering. The exalted Doctor's degree has also fallen to the state where it is merely an addition to the regular four years resulting in more formulas and books but little further understanding of the subject. Perhaps the degree of Master of Scientific Mechanics should be established.

"As noted in the editorial on the new Princeton System there are schools that are experimenting with new approaches to the problem of education. If they have gone too far it is only in the attempt to correct a situation that is becoming increasingly troublesome.

"One method of weeding out often employed in European Institutions is the holding of comprehensive examinations. The system has rarely been tried in the states but has certain advantages. To begin with it is possible to concentrate on the essential points in a course by learning to discern the structure upon which the study stands.

"The emphasis is put upon individual initiative with the examinations falling at widely separated periods. It offers greater opportunities for self-expression to the student while still guiding him in his studies. On the other hand it is often possible to cram for these examinations as for others with the sole purpose of retaining the knowledge until the examination is over. The system might be tried in the future, if only to attempt something already proved worthy in Europe."

The above is interesting, but we do not agree with it completely. Over-frequent examinations do lead to hasty "cramming" with the hope that enough information can be temporarily stored to get a passing grade. But widely separated tests would give this same result.

The important fact is that individual classes differ, and should be treated as separate cases. At present, your writer is taking two courses that represent the extremes. One course has a test every week, the other has had none yet. In the first case, the course is so organized that the studies extend only from week to week. Very little information has to be carried over from one week to the next. Also, the subject being learned is not one that will be of great importance in the future, so that it is not necessary to keep all of the facts in mind for the entire term. Important points will impress themselves on the mind, and thus will be remembered long after trivial material fades.

The other course is an extremely important one. One in which a great deal of thought must be put forth. This course is one in which the amount of work done will determine how much work may be done further in the field. The subject is interesting. The actual homework is very light. The fact that the only quiz given during the year will be the final adds to the course, since the time is spent absorbing the basic material and fitting it into whole picture.

Yet if this latter method were tried on courses such as are found in the humanities division, where the material is not classified in such a manner that it can be readily seen as a whole, it would be almost impossible to study for the final. The amount of work done in the course would be far in excess of its value. Short, frequent quizzes are an advantage here.

THE FRONT BURNER

A premiere—Pasadena has had it. The Pasadena Playhouse and Zoe Akins, the authoress, have labored, and their labors have been fruitful; strange fruit indeed, but something must occupy the theatre between Thanksgiving and Christmas. This scheduled vacuum will be occupied from Nov. 24 to Dec. 5 by "Castle on the Sands," the Playhouse's current production.

Family "Drahmah"

Purportedly a "drahmah" about modern American family life, the "play," euphemistically so termed, manages to expand into three dreary acts what could have very easily been boring in one.

This might be explained in some degree by an introduction to the play given by Miss Akins in the program: "Some time ago, . . . I wrote a short story published in Cosmopolitan Magazine (Burner's note: the first ominous clue) under the title "Rings and Chains." Several theater-wise (Burner's note: Ha!) asked me why I didn't make a play of it." (Burner's note: why didn't you?)

Business Fails

Miss Akins depiction of an American family unwittingly adds grist to "Uncle Joe's" propaganda mill as just one more example of these decadent American Capitalists.

Here is a blow-by-blow account of the mess.

It seems that "papa's" business has failed, and his second wife, played by Jacqueline de Wit, and two daughters, played very well by Blanche Gladstone and Rose Mary Emma have been forced to abandon the gracious way of living that goes with Park Ave. apartments and many servants.

The family is now struggling along in a four or five room New York Flat, subsisting on French Restaurant fare, delicatessen

wares, and caviar.

Head of Family

"Papa," a somewhat graying businessman of the old and aristocratic school, finds himself forced to desperate measures in order to preserve his position as head of the household. Since his wife and daughters are straining at the leash of pride he is trying to impose, he tries to buy their obedience.

In order to get the wherewithal with which to do the buying, a slightly improbable character who makes and loses several fortunes per year (shades of Daddy Warbucks) and has just been released from prison offers Papa a chance to go to Chicago and make a fortune on wheat.

Goes West

Papa compromises with his principles, takes \$20,000 of someone else's money, and heads West with the speculator.

Whether he buys the loyalty and obedience of this charming family group will be left up to you who have the curiosity and stomach to stick it out for three whole acts.

Acting Poor

It might be mentioned that the general quality of the acting was also low. Only a few performances deserve praise. Blanche Gladstone who plays Alice Janeway, Rose Mary Emma who plays Marion Janeway, Peggy

(Continued on Page 3)

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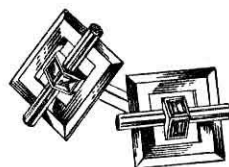
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Shavings...
From The Board

by Stan Boicourt

For the last nine weeks at the Thursday evening board meetings of J. C. Kariotis has been straining over a baby that's given him no end of problems, and at last it's about due to arrive. That acme of steak feasts, the annual Athletic Banquet, is to be held next Monday at the Brookside Park Golf Club. Kariotis has spared nothing in arranging this year's program, and for a mere six bits no athlete can afford to pass it up. For those who have to dig out two bucks it's still a good buy.

Dr. Chester Stock, who was last year's toastmaster, has agreed to titillate the diners with his genial wit again this year,

and for any geologist not to go is sacrilege.

President DuBridg and Dr. Sorensen, chairman of the athletic council, will also give short addresses, while the main speaker will be Jack Geyer, sports-writer for the L.A. Times.

It's a great show with good food and some of the rarer jokes being tossed about. So come on down next Monday night. You can get tickets in any of the houses or from the athletic office. For tickets see:

- Ricketts—Jim Wilcox
- Fleming—Bob Funk
- Blacker—Byron Karzas
- Dabney—John Kariotis
- Off Campus—Fred Darms.

OUR THOUGHT FOR TODAY.

Over cocktails, glances seem so sweet.
How will they look over
Shredded Wheat?

Sunday Musicales Program

SUNDAY, DECEMBER 5, 1948

A CHOPIN PROGRAM

- Waltz in A Flat Major..... (op. 42)
- Waltz in C Sharp Minor..... (op. 64)
- Mazurka in C Sharp Minor..... (op. 63, No. 3)
- Mazurka in A Minor..... (op. 67, No. 4)
- Mazurka in B Minor..... (op. 33, No. 4)
- Berceuse..... (op. 67)
- Nocturne in E Minor..... (op. 72)

INTERMISSION

- Sonata No. 3 in B Minor..... (op. 58)
- Concerto No. 1 in E Minor..... (op. 11)

THE FRONT BURNER

(Continued from Page 2)
Badey, and Ken Harp who plays Teddy Pearson.

George Janeway (papah) is given an adequate characterization by Onslow Stevens. Also noticeable were the numerous principals and support alike.

Probably the happiest individual concerned with the entire production is a character in the play, one Fred Pearson. This fortunate individual commits suicide in the first act, (he probably had a premonition of what was to come). miscues and fluffs of lines by

THE EVENING CONCERT

Presented by the Southern California and Southern Counties Gas Companies Radio Station KFAC

8-10 p.m.

Program for the Coming Week

THURSDAY, DECEMBER 2, 1948

FRA DIAVOLO—OVERTURE, by Auber. London Philharmonic Orchestra conducted by Constant Lambert (8).
SYMPHONY No. 1 IN G MINOR (WINTER DAYDREAMS), by Tchaikovsky. Indianapolis Symphony Orchestra conducted by Fabien Sevitzky (41).

E. POWER BIGGS, Organist.
ORGAN MUSIC OF BACH (26).
FUGUE IN G MINOR—A MIGHTY FORTRESS—FUGUE IN C MAJOR—SHEEP MAY SAFELY GRAZE—PASSACAGLIA AND FUGUE IN C MINOR.

SERENADE No. 12 IN C MINOR (K.388), by Mozart. Sinfonietta conducted by Arthur Fiedler (23).
LYRIC SUITE, by Grieg. London Philharmonic Orchestra conducted by Sir Landon Ronald (14).

FRIDAY, DECEMBER 3, 1948

Weekly Feature Concert—New Recordings

IDOMENEO—OVERTURE, by Mozart. National Symphony Orchestra conducted by Boyd Neel (4).
SYMPHONY No. 3 IN C MINOR, by Saint-Saens. Philharmonic-Symphony Orchestra of New York conducted by Charles Munch (32).

CLAUDIO ARRAU, PIANIST.
IBERIA (BOOKS 1 AND 2), by Albeniz (40).
FANTASIA ON A THEME OF THOMAS TALLIS, by Vaughan Williams. Minneapolis Symphony Orchestra conducted by Dimitri Mitropoulos (15).
BRANDENBURG CONCERTO No. 6 IN B FLAT MAJOR, by Bach. Boston Symphony Orchestra Concertino conducted by Serge Koussevitzky (20).

SATURDAY, DECEMBER 4, 1948

DON PASQUALE, by Donizetti. Famous Soloists, Chorus and Orchestra of La Scala, Milan, conducted by Carlo Sabajno.

MONDAY, DECEMBER 6, 1948

THE BRONZE HORSE—OVERTURE, by Auber. London Philharmonic Orchestra conducted by Constant Lambert (8).
FANTASTIC SYMPHONY, by Berlioz. Concertgebouw Orchestra of Amsterdam conducted by Edouard van Beinum (46).

CUTNAR SOLOMAN, PIANIST.
CONCERTO No. 3 IN C MINOR FOR PIANO AND ORCHESTRA, by Beethoven. B.B.C. Symphony Orchestra conducted by Sir Adrian Boult (34).

AURORA'S WEDDING—BALLET SUITE, by Tchaikovsky. London Philharmonic Orchestra conducted by Efreim Kurtz (25).

TUESDAY, DECEMBER 7, 1948

THE FLYING DUTCHMAN—OVERTURE, by Wagner. La Scala Orchestra conducted by Paul van Kempen (10).

YEHUDI MENUHIN, VIOLINIST.
CONCERTO IN D MAJOR (ADELAIDE), by Mozart. Paris Symphony Orchestra conducted by Pierre Monteaux (24).
POEME, by Chausson. Paris Symphony Orchestra conducted by George Enesco (8).

LE COQ D'OR SUITE, by Rimsky-Korsakov. London Symphony Orchestra conducted by Eugene Goossens (25).

WEDNESDAY, DECEMBER 8, 1948

GIOVANNA D'ARCO—OVERTURE, by Verdi. La Scala Orchestra conducted by Carlo Sabajno (8).

SYMPHONY No. 3 IN E FLAT MAJOR (EROICA), by Beethoven. London Philharmonic Orchestra conducted by Victor de Sabata (50).

CLAUDIA MUZIO, SOPRANO (28).
L'ANNUNCIO AND DEATH OF CECILIA FROM CECILIA, by Refice.
VISSI D'ARTE FROM LA TOSCA, by Puccini.
DONDE LIETA USCI FROM LA BOHEME, by Puccini.
TACEA LA NOTTE PLACIDA FROM IL TROVATORE, by Verdi.
POVERI FIORI FROM ADRIANA LECOUVREUR, by Cilea.
DUETS (ACTS 1 AND 3) FROM OTELLO, by Verdi with Francesco Merli, Tenor.

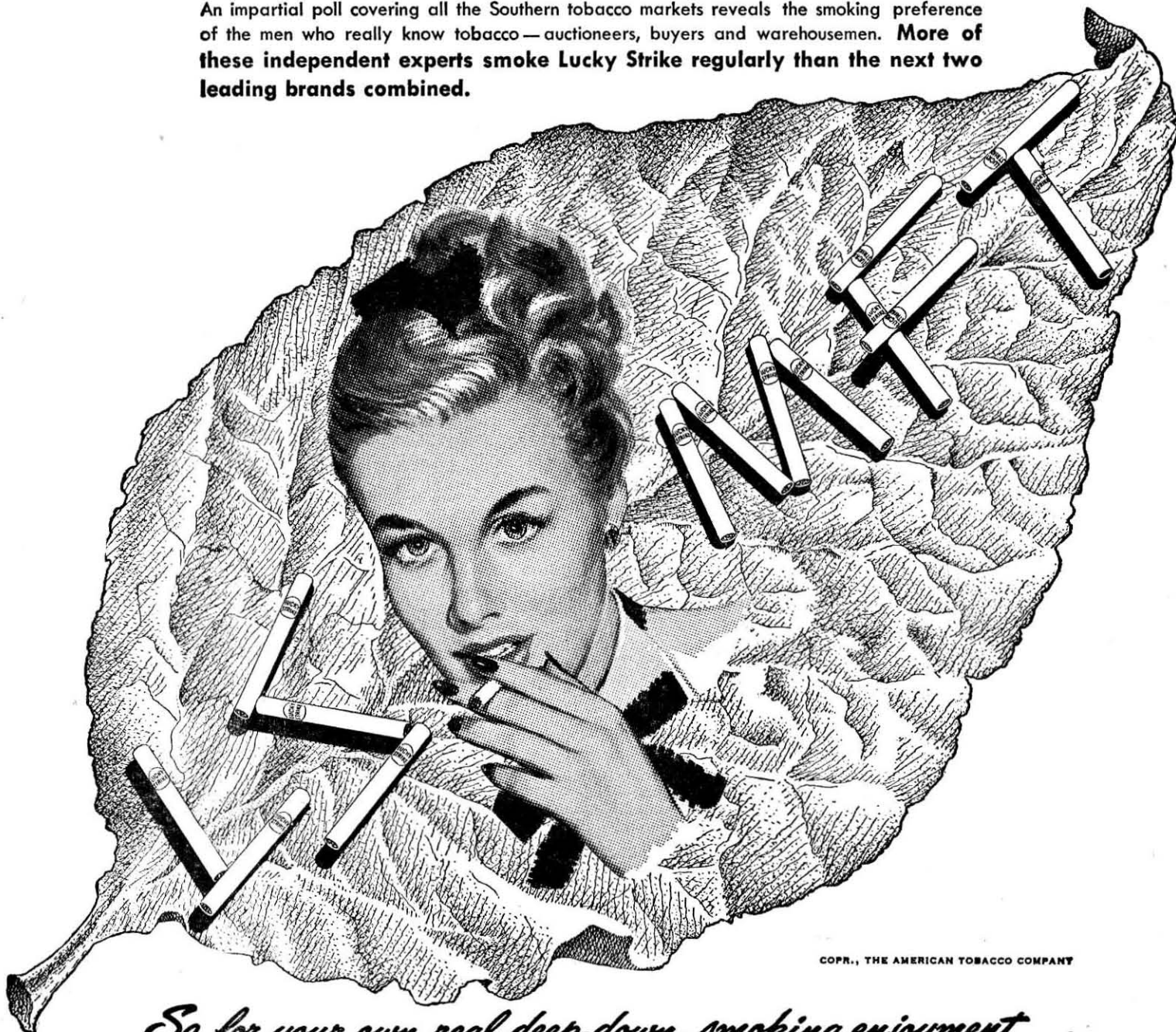
CLOUDS—THE ENGULFED CATHEDRAL—DANCES SACRED AND PROFANE, by Debussy. Philadelphia Orchestra conducted by Leopold Stokowski (26).

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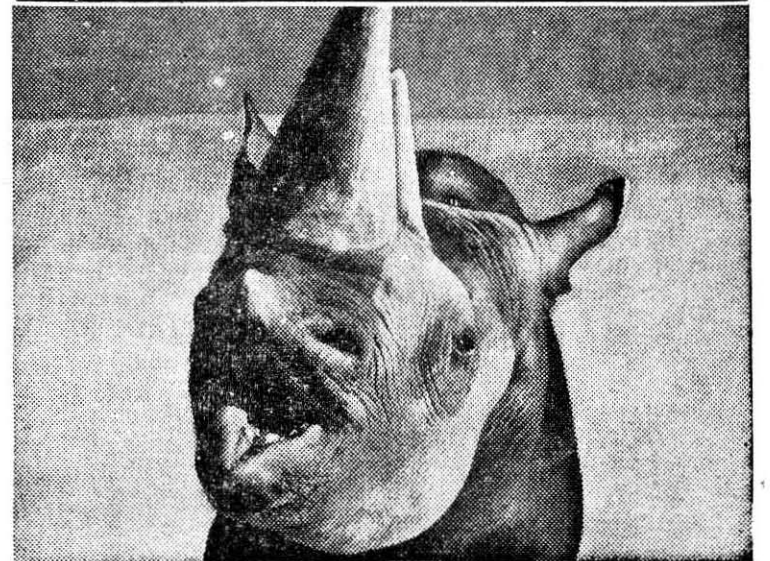
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Talkin' It Over
With The Goon

Hope all you men had your fill of turkey and are at peace with the world, because I'm not. This following beak comes under protest from two very close friends who asked not to have anything mentioned about the incident. Gentlemen, there is no doubt that Tau Beta Pi is a fine, upstanding, and honorary organization. There is no doubt that the men in it have shown by their scholastic ability that they are intelligent beings. It is said in their requirements for membership that the pledge must have shown other contributions to the school besides snaking.

Arbitrary
But when such an organization tells its prospective, in fact actually chosen, pledges that they must attend the banquet to be held on Friday night, December 3 or it's no go, Redlands Basketball Tournament or not, then the beak begins to harden up.

Little Concern
No one is trying to run Taubate, but I do think that the "Brain Boys" could give a little concession to the two men who are not only top men on the squad, but also outstanding men in the school. They would like to join your organization, but they sure as H— wouldn't quit a ball club to do it.

Newsnote From Crud
Heard a member of the Crud Alley Athletic Staff drop this little jewel, and thought you might like to hear it. "We men (note the loose use of this term) of Crud Alley never let athletics interfere with our drinking." More power to you; just so the little round ball goes through the circular ring one more time than the other team puts it through.

Word of Miriam
Dropped in to see the two most wonderful secretaries in the world the other day—Miriam and Miss McGee. They are engaged in their yearly tear jerking routine about "Why can't we go to the Athletic Banquet? We're part of the Athletic Staff." In fact, this year they've threatened to borrow one of the Hustler's suits, both get in it, and

Fleming, Ricketts Tie For Baseball Title In IH

The I.H. baseball season closed last Tuesday with a Dabney-Throop thriller that had both teams sweating blood. The Green came from behind to take an 8-7 win before darkness closed in.

Throop Trails
Throop trailed in the first, then took a two run lead in the second inning. Dabney suffered a 2-inning hit famine under the faultless hurling of Bill Lanz, but returned to score three runs in the last division, making the winning score. The home half of the last inning struck terror into the hearts of the Dabney-men, but Throop failed to score.

Inopportune End
The baseball season ended at an inopportune time; that is, at the time when most of the houses were getting their teams organized. This story should show a moral to contenders in the next I.H. race, namely that any house that thinks of having preseason practice is in.

Ricketts, Fleming Tie
Final standings in the baseball phase of the trophy dash left Fleming and Ricketts deadlocked in first place, with Throop and Blacker splitting dubious honors for bottom man. In the center of things, Dabney copped the focus of mediocrity. Totals:

	Won	Lost
Fleming	3	1
Ricketts	3	1
Dabney	2	2
Throop	2	3
Blacker	1	3

come incognito. That's swell girls, but don't forget to bring your jokes with you.

Putting in Plug
Got to put in a plug for the big dinner coming up, since it is one of the top spots on the school calendar. Once again the grand old man of the bone yard, Dr. Stock, will tell you of his numerous experiences of selling newspapers on a foggy San Francisco street corner, but this time he probably won't hide the fact that he was formerly a Golden Bear, now that his alma mater is once again on the top of the football heap.

As guest speaker, we had a
(Continued on Page 6)

Engineer Five Faces Arizona State In Tourney Cage Opener Tonite



Cross Country Squad Takes Whittier Meet

Caltech's red-hot cross country squad continued on its march to the conference championship by defeating Whittier 16 to 44 last Tuesday, November 23rd. Led by Jack Marshall, who turned in a fast time of 15:56 on the very hilly 3 mile course, the orange and white harriers took first, second, third, fourth and sixth places for a virtual sweep of the meet. Closely following Marshall were Dick Cornelius, Pete Mason, Don Peterson, and Bob Cobb.

Third Straight Win
The victory was the third straight win in conference dual meets, as Pomona and Redlands had been downed the previous weeks. Only Oxy remains to be met, and from comparative scores of recent meets, it looks like another win for the Engineers.

Frosh Win
The Frosh squad was led by Bill Pilkington with a time of 12:11 for the two-mile course, and defeated Whittier's babes by default, as only one Whittier man entered and finished second. This gives the Beaverbabes a 2-1 record in dual meets and keeps alive their hopes of grabbing off second place.

Big Meet Saturday
Important meets are coming up the next two weekends, as this Saturday at 10:00 the leather-lungers meet Oxy, Santa Barbara, and Redlands in Tournament Park for a four mile jaunt. Tech will not be scored against Redlands in this meet, having already met them, but this run should serve as a good indication to Coach Bud Carroll of what to expect in the confer-
(Continued on Page 6)

Frosh Sports Roundup
By Leon Michaelson

Frosh basketballers are rounding out their third week of practice and are steadily acquiring the momentum of an apt ball club. Coach Ed Preisler's little men have been participating in exceedingly spirited scrimmages lately owing to their abbreviated time allowances at the local junior high school practice gym.

Noteworthy
Particularly noteworthy in pre-league game workouts have been Granger, Gray, Patapoff, Snider and Tautz, with an ever ready squad behind them consisting of Woody, Smith, Reihm, Ross, Palakoff, Miller, Michaelson, McCourt, LaFleur, Krause, Sutton, Garofola, Eilenberg, Dibble, Davis, Boyer, Banks and Richard Allen Petterson. Acting admirably as managers we see Earnest and Lee.

A game with Muir High School was played Tuesday too late for publication and the reporting of it will have to take a bye until next week.

Echoing briefly to football we hear that the captain of the Frosh team of 1948 has been chosen by the team with secret ballots. However, the results are being held to be announced at the athletic banquet on December 6.

Three Day Hoop Fest Features Ten Teams At Redlands University

The orange and white cagers will officially open their basketball season tonight when they face off with Arizona State at the Redlands Invitational Tournament. Pregame dope places the Engineers in their traditional role of underdogs. The Arizona five is said to be quite flashy and have some five to six weeks of practice under their belts.

Fall Teams At Banquet

Next Monday night, Dec. 6, at 6:30, the athletes of the school and their guests will gather in the dining room of the Brookside Park Golf Club for the annual Athletic Banquet. Toastmaster will be Dr. Stock. Members of the 1928 and 1938 teams will attend to make it a three decade affair.

Awards will be given in football, water polo, and soccer. The present Wheaton Trophy will be given to the individual deemed highest in sportsmanship and moral influence and the '48 captain will be announced.

Leading the list of notables attending the banquet are President L. A. DuBridge and Dr. R. W. Sorensen, chairman of the Athletic Council, who will give short addresses. Mr. Jack Geyer, sports reporter for the L. A. Times, who covers many of the Caltech games, will be principal speaker of the evening.

Other guests of distinction will include Mr. Rube Samuelson, President of the National Football Association, Dr. Sam Blake, member of Little Rose Bowl Committee, Manny Pineda, sportswriter covering the Caltech games for the Star-News, Jim Hubbard, sportswriter for The Independent.

Honored along with the men they have coached will be the Coaches: Anderson and Merrington representing Varsity Football, Preisler and Olson representing Frosh Football, Bill Dixan and Fred Elmer representing Water Polo, Bud Carol and Doc. Hains representing Cross Country, and Liddell representing Soccer.

Any man participating in the sports above may attend the banquet for 75c. All others may purchase tickets from one of the men below for \$2.00.
Bob Funk.....Fleming
Jim Wilcox.....Dabney
Jim Wilcox.....Ricketts
Byr Karzas.....Blacker
Fred Darms.....Off Campus
And the Athletic Office.

Teach Takes Pasting
The Engineers took a pasting from the Muir five, but with only a week's practice the Beavers' showing was fairly understandable. Also we will not be surprised to see Muir right up there for the State J.C. championship; they have a mighty fine club.

Since the UCLA game was called off, the Engineers have been working hard on their ball handling and passing. If anything can be blamed for a loss at Redlands it will be poor ball control, this fault has been showing up consistently in practice scrimmages. Generally speaking the Beavers are still weak on fundamentals. But Coach Shy is so pressed for time that he hardly has time to work on anything except a few basic plays and getting the boys in shape. However, the picture is not too black. The Engineers have some good and experienced ball players who have shown a good brand of ball from time to time.

Plenty of Height
And when it comes to height, not many teams can boast the number of tall men that are on the Engineers squad. Coach Shy can floor a team averaging in the
(Continued on Page 6)

Heggland Paces Bowling Squads

Ray Heggland of Throop Club pounded the maples for a terrific 232 game this Monday in the Interhouse bowling loop at the Pasadena Bowling Courts. In addition to firing the highest game to date he added games of 194 and 154 for a big 580 series. However, Woody Bratnobar of Ricketts came through with high series for the third consecutive week with games of 194-193-204 for a 591 total. Other star performers this week were John Holmes of Ricketts with a 202 game and a 507 series and Howard Cohan of Blacker with a 202 game and a 505 series.

No Change
No change in team standings took place this week as most houses had near-even splits in the win-loss columns. Ricketts, Dabney and Blacker each won five games, Throop won three, and Fleming won two. Present standings:

House	Won	Lost	Pct.	Avg.
Ricketts	39	17	.696	154
Throop	31	25	.554	148
Dabney	28	28	.500	129
Blacker	26	30	.464	135
Fleming	16	40	.286	129

Ricketts No. One set a new record for team game as they piled up 801 pins in the second game on the following scores: Carl Fox, 175; Win Soule, 170; John Holmes, 202; Woody Bratnobar, 193; and 61 pins handicap. This team's 2171 series was best of the afternoon, but in spite of all these honors, they could gain no more than a two-two split from a rough Fleming No. Two outfit.

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Total	51½	47½	44½	33	18½

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Caltech Puts Two On U.S. Grid Team

Manuel Bass and Don Hibbard, two outstanding gridiron men from Caltech have been nominated to play on the American All-Star amateur team, to meet similar teams from Canada, Mexico, and Hawaii in the World's Amateur Football Classic to be played at Gilmore Stadium in a three-day four-game series, Dec. 18, 19 and 26.

Nominations of outstanding players from small colleges and amateur leagues from all over the country are being received daily by Leslie Mann, former coach and All-American, who has been appointed commissioner in charge of co-ordinating team activity and participation in the forthcoming series.

Mugsy Walsh, Bill Beal, Earl Plyley and Harry Beck of the Eagle Rock Athletic Club also stand a good chance to play on the American team, their nominations, with high records of football achievements this season, having been received.

The All-Star teams from Mexico, Canada and Hawaii are due to arrive in Los Angeles around Dec. 14, allowing them a few days for last minute practice.

Winning team of the series will be entitled to the A. A. Stagg Trophy, emblematic of amateur football around the world, which is being created especially for the series, sponsored by the Kiwanis Crippled Children and Charity Foundation.

TAUBATES INDUCT

(Continued from Page 1)

initiated this term are: Ger-nando Corbato, William Cox, Gage, Ralph Lovberg, Mike Sellen, and Martin Wait.

The seniors are: Ed Alexander, Lawrence Baumann, Elwood Bratnaber, Kendall Famularo, Jarvin Heiman, Dick King, Charles Knight, Claude Lane, Merle Morgan, Bill Palmer, Marvin Rudin, William Simons, Jack White, Hugh Woodbury, and Thad Vreeland.

William W. Ward, a graduate student will be initiated for Texas Delta. This chapter at Texas A&M was just recently activated, and William Ward is a charter member.

Only one faculty member will be initiated this term. He will be Dr. Peter Kyropoulos.

ENGINEER FIVE

(Continued from Page 5)

neighborhood of at least 6' 4". His first team averages at least 6' 3" and if anything makes a difference this year, the Beaver height will be a tremendous factor. The backboards should always be under Engineers control, and this fact has won more than one game.

The starting Beaver five will probably be Paul "Goon" Saltman at center, Ted Bowen and Thorne Butler at forwards, Bill Cox and Monty Montgomery at guards. Art Bruington, Dick Brewer, Thad Vreeland and Al Sereno also should see quite a bit of action.

FORESTER PRESENTS

(Continued from Page 1)

CE, ME, EE Same
Among the many facts which proved of interest to the members of the audience were the following: That over 75 percent of the entire profession is divided about equally among the Civil, Mechanical and Electrical Engineering fields, while Chemical Engineers comprise about 10 percent of the entire profession. That of these branches of engineering, the Chemicals are not only the most highly educated group, with over 30 percent possessing Masters or Doctors degrees, but are also the most highly paid of all the groups. This pattern of higher pay continues through all experience levels, with the Electricals, Mechanicals and Civils following down the line in the order named.

Grad Work
Forester also attempted to answer the perennial question asked by all college students: "Shall I continue into graduate work?" by citing the figures of the report which show that up until about the 23-year experience level, those with Masters and Doctors degrees stay somewhat ahead of their less well-educated brethren, but that although those with a Doctorate stay on top of the heap, the Bachelors and Masters blend in together in the higher experience levels. It was also shown that Administrative-Management duties in non-technical fields are

GLEE CLUB, ORCHESTRA

(Continued from Page 1)

Now is the time for those who are not members of the orchestra or glee club to come and give their support, or criticism if it is deserved, of these revitalized groups. The musicians have spent many hours rehearsing for this concert, and they will greatly appreciate all interest, adverse or otherwise. Now we will finally see whether it is possible to have good music presented at a non-musical school. It will save many dollars of Philharmonic tickets, too, although admittedly the competition will not be too severe.

Future Plans
The plans for the future of these groups are indefinite. Perhaps with a larger membership, which can be gradually trained to higher musical standards, a more ambitious repertoire can be developed. However, the policy for the present will be to play relatively easy but beautiful music well.

the most highly paid, with Administrative-Management work in Technical fields and Research, both in Basic Science and Applied Science, follow in that order in rate of pay.

Copies Available
Forester attempted to show the value of the material contained in the report, and urged all those who are interested in its contents to contact him to obtain a copy for individual study.

TALKIN' IT OVER

(Continued from Page 5)

choice this year for the featured speaker: Braven Dyer to tell Pomona stories, Jack Geyer to tell Oxy stories. Much as I love Oxy, dear Braven heads a well known list I keep.

Changes Tune
A parting beak at a well known sports writer who a few issues back got a big spread in the Sat Ev Post. How can "Your old Flinger" (mind you, he never stated what he flings; it's understood) say that without doubt, Glen Dobbs is the greatest football player to ever don a suit, when just about a year ago he was ranting in the same column how Dobbs is yellow because he refused to get pounded at the single wing half back spot. Just how fast can a guy change his tune??

CROSS COUNTRY

(Continued from Page 5)
ence meet the next week. Bud is making no predictions, but that happy look on his face may be due to the way his men have been bunched at the finish in three last meets. Redlands will be gunning for revenge for their defeat, their first in several years of conference competition, so the conference meet December 11th promises to be a hard fought race.

Results of Whittier meet:
1. Marshall (T) 15:56
2. Cornelius (T) 16:02
3. Mason (T) 16:11
4. Peterson (T) 16:12
5. Mastain (W) 16:19

Bevo Water Men End Polo Season

Caltech ended its 1948 water polo season last Tuesday in a game with San Jose State. The Spartans, National Junior AAU water polo champions, came out on top with an 11-6 score. San Jose played against Occidental College the day before in the Tiger tank, defeating the Eagle Rockers 13-9.

Spartans Strong
The Spartans, who defeated Stanford, California and the San Francisco Olympic Club on their way to the AAU title, played a brilliant game of ball. They kept the Beaver offense bogged down and they powered their way through the Tech defense almost at will.

Palmer Scores
Bill Palmer scored two goals in the first quarter. Bob Waters connected for one tally in the third quarter and Dick Libbey completed the game by scoring three points in the final stanza. Coach Bill Dixon and captain Bill Palmer deserve a great deal of credit for the effort, results and improvements shown by the Caltech squad this year.

6. Cobb (T) 16:25
7. Hedges (W) 16:40
8. Brown, D. (T) 16:57
9. Tucker (W) 17:09
10. Sellen (T) 17:14
Smyth, Abell, Edwards, McIntyre (W), Bowerman, Shakespeare, Lansdown, Odell (W), Basham, Steese, Kurland.

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WILL the person who borrowed my PSYCHOLOGY BOOK from the bench in front of Gates Tuesday, Nov. 23, between 1:30 and 5:15 please lend it back to me until after the final. Thank you. Bob Stewart, No. 38, Dabney House.

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