WELCOME BACK, ALL YE TECHMEN-

CALIFORNIA TECH California Institute of Technology

-MAY IT BE THE BEST **TERM EVER!**

No. 11

Volume LII

Present Draft Situation Techmen's Main Bugaboo

Dean Jones Recommends Patience Until **Congress Revises 1948 Induction Laws**

By Duane Marshall

The word today at Tech is "What's going to happen to me when the draft board pulls up my number?" In fact a lot of fellows are getting very jittery about the whole thing . . . what their chances of remaining in school are . . . what their chances of remaining out of the infantry are, and so forth.

To summarize the rest of this article for those who heard Dean Jones' speech on the draft in houses a while ago, the situation re-

mains unchanged. In brief, no. body knows nothin' aside from Second Term **Possible Revisions**

erating under the draft act of Congress yet regarding a revis- Assemblies Set ion of the draft laws. Chances are that it will take quite a while for anything to percolate through Congress on that subject.

Up to date, various suggestions and proposals have reached the congressional committees that have the job of selecting and suggesting a suitable draft aw to Congress, and that is all. The new Congress will take time to get organized, time will be taken for receiving more plans and proposals, time will be taken for hashing them out and selecting some one plan to present to Congress.

UMT

What is imminent? UMT stares the 18 year olds in the face if it is put through. However, as it was mentioned before, it wil take time to put anything tory may purchase tickets for through Congress. It may be at least April before any new law is passed. By that time almost everybody in Tech except a portion of the Frosh class will be over 18 and have nothing to January 7-8, 1951 worry about.

Concerning UMT, even the 18 year olds will have little to worry about if UMT is passed in the spring. The Army is having a hard enough time trying to make room for the draftees coming into it now by the thousands. There will a large time delay before UMT can really get rolling on a large scale after it is passed, if it is passed.

One thing is heartening, according to Dean Jones: the trend in Washington is to recognize the need for keeping men in college.

The draft boards are still op- Film Classics

the second term Film Classics. Series. Although the first film, shown last night, students who purchase tickets now will still have a chance to see it when it is only \$.90 presented again tonight.

And there are still four pictures remaining to be shown, all for \$.90, the price of a season admission ticket. Membership tickets for both Monday and Sunday nights are still available. They may be obtained from Miss Pond in 19 Throop.

Together with Caltech personnel, all those persons connected with either the Huntington Library or Mount Wilson Observathemselves or their friends for \$1.80 for the entire series.

The schedule for this term is as follows:

Children of Paradise (French, 1944) An outstanding and very popular film, dealing gle for power in the world today. This subject was the theme with life in the small theatres of Paris. A remark- around which the numerous topable performance by Bar- ics of discussion at this weeklong conference were oriented rault, as the mime artist. this year. January 21-22

Easy Street (U.S., 1916) With Chaplin and Edna Puryear were Banovitz, Bhanjdeo, iance. Rated as one of Chaplin's greatest two-reel come- Buck, Chong, Crichton, Enslow, Fee, Gehrels, Hamberger, Hirsch, dies.

What Price Glory? (U.S., Leux, Manning, McCourt, Mer-1926) With Edmund Lowe kel, Middlebrook, Orville, Perand Victor McLaglen. A ig- digao, Polk, Rubenstein, Savran, orous satire of army life Soux, Sweet, Szabo, Wallace and stein," by Professor Richard P. during World War I. What Wood. Price Glory?, both as a stage play and as a movie, in its period.



(L to R) Ron Willens, Tony Malanoski and Jerry Dudek wait their chance.

It's still not too late for stu-dents to obtain memberships o Series. Although the first film, "Children of Paradise," was Receives New Pool Table

The new recreation room has during the vacation. become one of the most popular Students are requested by the spots in the student houses, with Student House Management not the addition of a brand new \$700 to try trick shots that rip the Brunswick pool table A set of felt, leave cigarettes burning on twelve cues of various weights, the table, or do any other overt Ivorylene balls, and pocket in- acts which might damage the serts for billiards combine to table, cues, or balls. If this one make this a versatile outfit, is taken care of, a poll might which has been in nearly con- be taken as to whether another tinuous use since its installation table should be purchased.

Y's Doings

By Ted Polk

The Asilomar Conference

About thirty members of the

Caltech "Y" pulled in from Asilo-

"true clue" concerning the strug-

From CIT

Attending the conference this

Friday Evening Lecture Series

Another varied and interestlectures for the winter term has mar at the beginning of last tute's Publicity Department. Fea. ing, extempore speaking, oratory week, eyes aglaze from lack of turing talks by members of the sleep and heads abuzz from the Caltech faculty, this all-year schedule is offered for the public as well as students. The lectures are specially designed for those uninitiated in the more difficult aspects of science, and are generally accompanied with extensive apparatus, movies or slides.

These presentations take place every Friday evening at 7:30 in the lecture hall, room 201, of the Bridge laboratory of physics.

January 12, 1951

"The Difference between the Mechanics of Newton and Ein-Feynman.

Poll Determines ASCIT Socials

Semi-formal or "Party" Dance Slated for March 3 at Oakmont C. C.

Results of the recently held poll concerning possible ASCIT social functions during the second and third terms have been tabulated and evaluated by Art Cuse, First Rep, whose report is contained below.

ASCIT Poll Result

1.	Will you probably attend the ASCIT social events this year?			
	Yes (183) Don't Know (46) No (8)			
2. What type dance would you like				
	second term? third term?			
	(73) (75) Formal or Semi-Formal			
	(93) (58) Party Type Dance (suit or sport)			
	(37) (51) Sweater Hop			
	(12) (10) Costume			
3.	Maximum radius from Tech that you would go for dance			
	(not including date)			
	5 miles (12) 10 miles (61) 20 miles (65) 30 miles (38)			
	over 30 miles (25)			
4. Are you in favor of a bar at the dances?				
	Yes (143) No (49)			
6.	Do you want entertainment at the dances, such as band			

intermission movies, contests, etc.? Yes (101) Don't Know (73) No (61)

Debaters Plan Three Tourneys In Winter Term

With three tournaments scheduled during the present quarter, Caltech debaters are looking ahead to intensive and practical speech training this term.

The first tournament will be a speech events affair to be held on Saturday, February 10, at ing program of demonstration UCLA. In this tournament there will be no debate, but there will been announced by the Insti- be contests in impromptu speak-

and interpretation. Present plans call for at least 20 Caltech men to attend.

CIT Tourney

The second tournament is Caltech's fourth annual champion-Last year the affair was attendthis year are Friday and Saturday, February 16 and 17.

Pi Kappa Delta

The third major event in this area is the Western Division of Pi Kappa Delta, speech honorary, annual tournament. This

The student opinion poll on social events has just about been completed. All four houses were polled. Because of the inherent difficulties of polling off campus men, we have instead used sampling techniques and will continue to do so. To date, 237 different opinions have been obtained.

Question 1 Will you attend ASCIT social events this year?

The 46 "don't know" votes would seem to indicate that the apparent or promised quality of the events, together with strong personal preferences, will determine to a large extent the number of people attending the affairs.

Question 2 What type dance would you like second term? third term?

This undoubtedly was the most important question on the poll, and has been the hardest to ship debate tournament. This is evaluate, in view of the fact held on the Caltech campus. that all possible types of events were not covered. There were ed by 30 different colleges in the many suggestions written in western area. The dates for here which proved helpful. These included beach parties, lawn parties, barn dances and other things such as barbeques and picnics.

Here, there is a trend to get (Continued on Page 4)

Tryten Plan

One of the plans for deciding who is to get deferred and who is not to get deferred is the Tryten Plan. According to this proposal, 1/2 of the Frosh, 2/3 of the Sophs and 3/4 of the Juniors would be deferred. This plan is rapidly losing favor because of its emphasis on the easier schools. Who would go to Caltech?

The other and more likely plan is one of an aptitude test of some sort to determine who is to stay and who isn't. This plan conforms more to the trend of thought in Washington and is favored, apparently.

All sorts of combinations are possible . . . for example, UMT and the aptititde test could be in effect together.

No V-12

If an extreme emergency comes up in the future, it is unlikely that the Navy will take over at Tech as they did during the last war with their V-12 program. Why? Dean Jones gave the folowing reasons: Now there are more ROTC units in large colleges than there were before WW2. There are enough of these, that their expansion should be sufficient to handle the military traffic. ROTC would handle the functions that the sented by the Metropolitan Mu- These featured such subjects as V-12 programs have handled.

A brief review of the current tice to report for a physical, the year by popular demand. Navy won't take you except as a regular four enlisted man. If you receive notice of induction you are in the Army. Nothing more can be done.

Emergency Status

Caltech in the case of an extreme because of inadequate ticket pitality, and so forth. After the (Continued on Page 4)

February 4-5

Venice (Italy, 1948) A beautiful, prize-winning color documentary. Tragic Hunt (Italy, 1947) One of the most important films from the modern realism school in Italy. Based on actual events in the fight of the farmers with black marketeers.

February 18-19

The Sea Horse (France, 1934) A famous documentary by the French marine scientist, Jean Painleve. Night Must Fall (U.S., 1937) With Robert Montgomery, Rosalind Russell, and Dame May Whittey. One of the all-time outstanding mystery pictures.

March 4.5

The Peacock's Tail (Russia, 1948) A prize-winning animated cartoon. Farrebique (France, 1948) Winner of several grand prizes; a superb study of French provincial life.

Deficit

The Film Classics Series, preseum of Fine Arts, was brought "Roots of World Conflict," "Propto Caltech for the first time last aganda Analysis," "Educationdangers. If you receive a no- year, and was continued this A Mirror of Society," and "Court-

The films are shown on a nonprofit basis, the present price being determined on the assumption that there will be a tennis-and special events such full house on both Sunday and as the swap shop hour, faculty Monday nights. Last term the meetings, and committee activi-What is likely to happen at series was operated at a deficit ties-glee club, evaluation, hossales.

Also present as guests were January 19, 1951

Mrs. Goldsworthy, wife of the was a serisational success late Col. E. C. Goldsworthy, formerly master of student houses, Caltech affiliates Jean Bickford and June Harlan, and former Techmen Sid Stone and Bill Cox, last war will be shown). now attending the University of California.

Registration for Asilomar, a general meeting of college representatives of YMCA's and YWCA's in the Pacific Southwest, took place on Dec. 26th, after which activities in the fields of discussion, worship and recreation filled up nearly every minute of the time up to the first of January.

Daily Lectures

Dr. Prentiss L. Pemberton, an instructor from the Andover Newton Theological Seminary, delivered the daily morning platform talks, all designed to clarify and analyze the theme, "Struggle for Power: Creative or Destructive Alternatives for Action." The chapel services were conducted by Dr. W. O. Mendenhall, who was president of Whittier College from 1934 until 1943. Held every day just before lunch hour, the twelve seminars dealt with more specialized topics falling under the category of the general conference theme. ship and Marriage.'

Many-Faceted Program The afternoons were spent in recreation - volley ball, hikes, (Continued on Page 4)

"Artillery Rockets," by Profes-

sor Bruce H. Sage. (A film showing some of the rocket research and development work carried on at the Institute during the

Schedule

January 26, 1951 "High Voltage," by Professor R. W. Sorensen. (Demonstrations will be given in the High Potential Research Laboratory). February 2, 1951

"A Geologist. Looks at the Death Valley Country," by Pro fessor R. H. Jahns. February 9, 1951

"Rocket Propellants," by Professor Bryce L. Crawford, Jr., of the University of Minnesota. February 16, 1951

"Liquid Air," by Professor E. C. Watson.

February 23, 1951

"The Chemistry of Blood," by Dr. Harvey A. Itano. March 2, 1951

"High Altitude Meteorlogical Research by Means of Rockets,' by Professor M. H. Nichols. March 9, 1951

"Industrial Design," by Henry Dreyfuss, Industrial Designer.

Big T Manager To Be Elected

Nominations for the business manager of the 1951 Big T will be held at this Friday's assembly at 11 a.m. in Culbertson, to replace Chuck Walker, who left school after the first term. Elections will be held on Thursday, Jan. 25.

Dick White has been appointed temporary business manager of the yearbook by the Board of Directors.

will be held March 15, 16 and 17 at Pasadena City College and will include both speech events and debates.

Wanted: Talent

Students who are not now taking part in Caltech's forensic program may join by getting in touch with Dr. Lester McCrery, 309 Dabney. Previous experience is unnecessary.

A number of practice debates are now being scheduled for debate squad members. The first regular debate squad meetings will be held at 4 p.m. and 7:30 p.m. this Thursday in 309 Dabney. The evening meeting is scheduled for those who cannot attend the afternoon meeting. Any interested student is invited to attend.

\$738,000 Given to Caltech Last Year

Gifts totaling \$738,081 were received by the Caifornia Insitute of Technology during the fiscal year ending June 30, 1950, it was announced recently by President DuBridge.

Donors included 150 individu als and private agencies who contributed \$1000 or more, the largest single gift of \$100,000 coming from an anonymous source. The second largest gift was received from the Rockefeller Foundation in the amount of \$94,146 for research in chemistry and biology.

Research Funds

Other large grants were received from the American Cancer Society, the American Petroleum Institute, the National Foundation for Infantile Paralysis, and the Research Corporation.

Interview Schedule

Following is the interview schedule for anuary 1951. If you are interested in eing interviewed by the representatives rom any of these firms, sign up in the lacement Office, 120 Throop Hall, at your

Placement Office, 120 Throop Hall, at your earliest convenience. TUESDAY & WEDNESDAY, JAN. 9 & 10— Aero, Inc., Tullahoma, Tennessee—Mr. J. M. Wild, Chief, Propulsion Wind Tunnel. Mechanical, electrical, and aeronautical engineers with BS and advanced degrees. To aid in operating and managing AEDC (The Arnold Engineering Development Center-Stepping-Stone to Air Power) for the Air Force.

(The Arnold Engineering Development Center-Stepping-Stone to Air Power) for the Air Force.
 WEDNESDAY, JAN. 10, THURSDAY, JAN. 11—Carbide and Carbon Corp., Dr. B. J. Miller, Personnel Adm., Tonawanda, New York, Dr. R. W. McNamee, Supt. of Research and Development, South Charleston, West Virginia. PhD's in Chemistry including organic, inorganic, physical, and analytical chemists. They will be selecting prospective candidates for employment in any one of the fol-lowing laboratories: (Located in New ersey, West Virginia, New York, and Ohio) Bakelite Division—Res. and Dev. Lab. and Process Dev. Lab., Electro Metallurgical Division—Res. and Dev. Lab., The Linde Air Products Company —Res. and Dev. Lab., National Carbon Division—Res. and Dev. Lab.
 FRIDAY, JAN. 12—Airesearch, Los Angeles —Mr. Leighton Kign, Chief of the Pre-liminary Design Section. BS/ME, Analyze lab tests of turbomachinery, facility in writing technical reports desirable. Ad-vanced degrees in Ae. Ch. MS special-ized in Aerodynamics, Thermodynamics, and Vibration Analysis. TUESDAY, JAN. 16—Douglas Aircraft,

vanced degrees in Ae. Ch. MS specialized in Aerodynamics, Thermodynamics, and Vibration Analysis.
TUESDAY, JAN. 16—Douglas Aircraft, Santa Monica, Calif.—Mr. C. C. LaVene. Group Meeting, 4:30, 206 Dabney. All interested are invited to attend.
WEDNESDAY, JAN. 17—Goodyear Tire and Rubber Co., All Plants—Earl Cook. BS, MS/ME, ChE.
THURSDAY, JAN. 18—Minn. Mining and Mfg. Co., St. Paul 6, Minn. PhD/Ch and BS/ChE.

BS/ChE. THURSDAY, JAN. 18—American Smelting and Refining Company, Salt Lake City, Utah—Mr. R. C. Beckstead. ME's. THURSDAY, JAN. 18—Westinghouse, Los Angeles, Calif.—Group Talk—4:30—101

Angeles, Calif. Group Talk.—4:30.—101 Dabney.
 THURSDAY, FRIDAY, TUESDAY, JAN. 18, 19 & 23.—Douglas Aircraft, Santa Mon-ica, Calif. Mr. C. C. LaVene, Ae, ME (servo-mech. necessary, design helpful), EE (design helpful), CE (structural de-sign), Ch, Ma (A), Ph (electronics, fluid flow etc.), and Aerodynamicists with BS and Advanced degrees.
 MONDAY, JAN. 22.—Westinghouse, Los Angeles, Stanley M. Johns, E. W. Morse, L.A., and G. D. Lobingier, Pittsburgh, Pa.
 MONDAY, JAN. 22.—Shell Chemical Com-pany, Pittsburg, Calif. D. B. Luckenbill and Mechanical Engineers. Plant Man-ufacturing. Operations. Process and Prod-uct Development.
 THURSDAY, JAN. 25.—Hercules Powder Co., Willmington, Delaware. Geo. F. Cooper, Technical Employ. Supervisor. BS/ACh. Ch.
 MONDAY, JAN. 29.—RCA. Mr. Coleman. Talk, 4:15, 206 Dabney.
 TUESDAY, JAN. 30.—Interview. BS and up, /EE, ME, Ma. Ph.

THE CALIFORNIA TECH

Monday, January 8, 1951

Secretary's Report

The Board of Directors ended its second term of office by approving the following dates for this term. Be sure to write them down.

January 8-Nominations of Frosh officers January 11-Election of Frosh officers February 15, 16-Drama Club presentation March 3-A.S.C.I.T. Dance May 5-Five School Show

Two

Activity Cards

Grad students were greeted with the opportunity to buy special activity cards for the first time on registration day this term. These cards are being sold in order to enable more grad students to participate in campus activities. They can be purchased in the Athletic Office.

Emergency Steps

Because of the uncertain conditions imposed on student life by present world conditions, the Board will take actions this term to safeguard the maintenance of ASCIT government during time of rapid turnover of students and other situations that might occur in emergency conditions. These precautions were not taken before the late world war and as a result post war students found practically no student government on campus.

If you are interested in these and other student body problems, remember that Board meetings are held in Lower Fleming every Thursday evening at 7:15.

Respectfully submitted, Stan Groner

Don't Get Anxious

A considerable number of Techmen have recently enlisted in the Navy or Air Corps, in order to avoid being drafted in the infantry at the end of their postponement in June, or they fear even sooner.

I wonder if they realize that they not only are terminating a valuable education to which they likely as not will never return but also are of more value to their country receiving a technical education at Caltech.

The technical student is far wiser nowadays to stay in school and continue his education as far as possible, and not rashly enlist into the service, where he will likely end up in a job far below his potential, and likely more dangerous. I doubt that Navy or Air Corps service is so much preferable to the Army that a student should desert an education which he has a very excellent chance to complete, and with which he would be of more value to the country.

Our government realizes that technically trained men are essential to our continued mobilization, and undoubtedly will make some provision for allowing the completion of technical educations. Many plans have been suggested, by educators and by the leaders of our country, for continuing the education of a limited group of technical students, perhaps with some degree of service supervision and training included. A large majority of Caltech students would no doubt be eligible for such a plan.

Sure, your country needs you-where you are.

The Front Burner

Cheers for the New Year; and, while it's still too early to do any work, or just early enough to goof off before YOU TOO are drafted, it might be well to see what there is in the way of the more conventional types of entertainment for the coming term.

Sexy!!!

Starting close to home, in Pasadena Monday night, will be mention that the movie version offered at the Pasadena Civic of "Born Yesterday" is now tally, choreographically best bal- somewhere near that legendary lets to hit Los Angeles in many intersection of Hollywood Blvd. a day. Les Ballets de Paris has and Vine. You can go if you probably already garnered some want, but don't say we told you

hit, "Born Yesterday." Opening too late for review in this issue, the Playhouse version, we would hazard a guess, could hardly be anything but very funny, even with a mediocre cast.

Although sitting through a 'world premiere" at the Playhouse can be a chair-squirming experience, when given a tested success, the home-town thespians usually turn out excellent

acting and staging jobs. It hardly seems worthwhile to

Who Dealt This Mess by John Rogers

There are two fundamental facts which are often forgotten while playing bridge. One is that a high card is of no value unless it is used; the other is that a card cannot be used unless it is played. Unfortunately, declarer often finds himself in such a position that his high cards in one hand are completely inaccessible, a situation which might happen in the following hand:

and.			
	NOR	тн	
	S 7,5,4,	3	
	H 9,5		
	D 7,5,2		
	C Q.8.6	,5	
WE	CST	EAST	
s		D Q,10,9,	8,4
H A,Q,8,2		S 6	1000 - 17476
	K,J,6	H J,10,7,6	6,3
C K,1	0,7,3,2	C 9,4	
т ²⁶	SOU		
	S A,K,	Q,J,10,9,8,2	
	Н К,4	anto a la calco	
	D 3		
	C A,J		
	BID	DING	
N	E	S	W
		28	3C
Р	P	38	P
48	Р	Р	Р
Tho	hidding	noode vom	11++1

The bidding needs very little comment. Notice that South, even with only 31/2 honor count. has a very valid two-spade opening bid. In view of the bidding plus his void in spades, West should resist the urge to double by realizing that a very long spade suit was South's only possible justification for making an opening two bid.

How to Make

The opening lead is the king of diamonds, on which East should play his ten, thereby indicating that it is safe for his partner to continue leading the suit. The next lead, therefore, is the ace of diamonds, which South trumps with a high spade. In not trumping with the two, South saves his only possible entry to the board. From the bidding, South should realize that the club finesse probably will not work. At first glance, then, it seems that the only possible chance to make the hand is to enter dummy with the two of spades and lead a small heart, hoping to make the king good. There is, though, a safer way

to play the hand, namely to lead the ace and then the jack of clubs while retaining possession of the spade two. Since West has taken the last trick, a heart one of the sexiest, and, inciden- playing at a theater located lead can do no damage. (It will be noticed that a heart lead from East will cause South to lose two tricks in that suit). West will probably consider the jack of diamonds to be his only safe lead. and South will trump this with another high spade. South now en at the Pasadena Playhouse enters dummy with the spade used the spade two to trump eitwo and sluffs one heart on the ther diamond lead, he would erable concern. Increasing costs queen of clubs. Declarer has, have had no entry to dummy, therefore, given up merely one and the queen of clubs could not annual deficits of the nation's heart, one diamond, and one club have been used even though it trick. Notice that if South had was a high card.



and yet 't is true, "There are as mad, abandon'd critics too."

-Pope.

We last left our reader in the throes and anguish of finals. Then indeed were we in sloughs of hopeless despondency, then indeed did we look with childish uplifted eye towards the rosy days ahead, for were not sleep, women, and all hedonic absolutes within our reach then?

Alas, holidays came, Christmas eve went by, yea, even New Year's eve, and today, as we stare into the mirror and view a as we waddle heavily towards our typewriter, with inflamed eye and flannel tongue, a doubt stealthily creeps into our mind: Was this Elysium after all?

Two in the Bush

Which all goes to prove the hoary adage of the sow's ear and desk? To make ourselves intelli the old grind, and, above all, we are glad again to have an attentive audience hanging on our lips.

But enough of such philosophy, and let us return to the worthwhile events in chronological order. Final grades generally enhance the students' unwavering fealty to the discretion of our betters, who with objective detachment, made judicious use of the new plus-minus grading system to separate from all Techmen an upper half of Elysian immunity, while the lesser peons precessed inexorably towards the outer darkness where there is darkness and gnashing of teeth.

Shoveling Along

The wisdom of the measure was nowhere better evidenced than in a certain 2-unit course in contemporary indoctrination, where the reigning socio-politicoeconmic triumvirate, with Periclean equity drew a stern line, helots of the Kremlin, while a tating shakers. B-minus was the hoty contended reward of those who had craftily turned in an even number of pages on their finals.

After the seething hordes had

"Such shameless bards we have; tere loneliness. Dusty grew the tomes. The slumbering Beak was rudely awakened one morning by the sounds of chirping saws and flying paintbrushes: descending with an aloof eye, we noted with satisfaction that, even though the rats had left, the ship was being renovated. Essaying a feeble cheer for B&G, we ambled on but to behold the portentous omen of three roundbellied Anaconda Copper Coils littering the walk. ". . . Manholes? No . . . "

Ophelia's grave had by then been filled up with earth, and mottled and haggard Beak, and purpose of such cuprine masses. copper. Self-preservation finally grounds until Wednesday.

got the better of him, however, pectedly into an open manhole silk purse, and is not a slide rule and never being heard of again. home, and indeed many unspeciin the hand worth two on the delicate like in flycatchers, stout- fied premises. The prize evening er and conical like in seed-eating gible: we are glad to be back to finches, sharp-edged like in owls margins like in ducks? The answer, alas, was elusive.

But enough of these fancies, and let us again have a continent single Beak, and attempt to treat brilliantly of the more notable events of the season.

Names in the News

For the more fortunate souls, the vacation was not as drab as for the more blase amongst us, for ineed there were many parties, parties and parties. The men of Blacker in particular engaged in a number of these joyful wassails which now are, alas, but stale memories.

Betz, lamenting over the lack of female blandishments the

world held for him, met a sweet young social lioness on the train. bound, by coincidence, as it were, for the same destination as he. Things are rumored to have gone with all desirable dispatch and he (Betz) now has a set of bismiting with a C-plus the paid ceps much strengthened by agi-



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Berk Welch returned early from his Kansas City club to rest up after the vacation, suffering from a severe case of St. we could not but wonder at the Vitus' dance. Big Art Cuse attended parties in New York, The Beak was suddenly seized New Jersey, Hoboken, and Axwith fury at the meaningless- handle Junction, while Conner ness of it all, and manfully was so enthralled by the scenery strove to dash out his brains (cherchez la femme) that he did against the uncomprehending not return to the hallowed

New Year's Eve at Tech saw and he ambled on, falling unex- bacchanalic gatherings at Throop, Ricketts, Walt Biggar's was spent by Messr's Waters, Vartanian, and Davis. Waters. and shrikes, or with serrated "the prince of Pomona" called up a young odalisque with whom he had earlier had discourse, and, requesting a list of parties to crash, was gratified.

Partying Is . . .

The unholy three left with determined mien but alas, their first party lasted not beyond ten minutes, after which they had to depart, by request . As a parting token, the host gave forth with some priceless information, and the trio ended up at a party of what we understand to be "fast 14-year olds." Even this failed to fascinate them, however, and they were last seen at a mock Bal des Petits Lits Blancs at the Claremont Inn.

Such Sweet

Thereafter, thei rtraces were lost in the dark cesspool. On the same memorable eve, Djenghis Khan Verdier was beheld disconsolately wandering about the Student Houses, in company of (Continued on Page 4)

zart, Barber, Chopin and Smetana. DePaur's Infantry Chorus will appear on Saturday, January 13, and on the following Monday, January 15, there will

-Budd LeTourneau

sort of reputation which has fil tered through to us diamonds in the rough at Tech, but, truly speaking, this is no long-hair stuff.

Bedroom Scene

To illustrate, the second act of Carmen (one of the three ballets offered) opens with Don Jose looking out the window (of a bedroom, mais naturellement, what else?) and Carmen lying is the Turnabout Theater which, deshabille on a bed. Don Jose his cigarette, washes his hands, and wipes them on the nearest curtain.

to our mind would give a far better biological perspective to having reversible backs. those interested in the facts of life than that classical shot in our Bi I text, "Toads-in am- ry, Pepper 'n' Salt, etc., are proplexus."

Good, Too

Although we are no judge of the finer points of ballet, a balletophile of our acquaintance to make the place "cute." has adjudged the choreography in Ballets de Paris as being, in its particular out-of-the--ordinary way, as good as that of any baller's Wells, the Ballet Theater, the complete illusian produced and the Ballet Russe de Monte Carlo.

In other words, go see the darn thing if you can. Although we do not know how available tickets will be at the time this issue of The Tech comes out, the Ballet would probably be excellent entertainment from any seat.

Born Too Soon

Also playing in Pasadena for about two weeks, and a very good entertainment bet indeed, is the Pasadena Payhouse pro- preciated, not described. duction of the New York stage

Intimate

More intimate theater is giv-Balcony theatres for those who get a large charge out of sitting in the front row and resting their feet on the stage.

Is Fair Play

One of the more worthwhile productions being given in L.A. unfortunately, too few Techmen looks at Carmen, strides to the have ever seen. The turnabout other end of the room, grinds out, part of the name comes from the dual nature of the show: puppet and live reviews, which are viewed at opposite ends of Then begins the dance, which the theater in old tramway seats, a bit more padded and plush,

> Inasmuch as each chair seats two, names such as Tom 'n' Jervide for each couple.

A few more touches like these provide atmosphere, but there are not enough, thank goodness,

Puppets

The puppet show is on high professional level, and a hell of a lot better than 99 and 44/100ths let company which has been in % of the musicals Hollywood the U.S.-this includes the Sad- turns out. We were amazed by by a three-act musical puppet play; at the end of the play the puppeteer steps out, seeming like some 12-foot giant.

Laugh? I Thought I'd ...

both subtle and broad. No burlesque we have seen has ever been so side-splittingly funny as that which Lotte Goslar gives of the Wagnerian soprano with an itch. Elsa Lanchester still remains the heart of the show, and her humor can only be ap-

(Continued on Page 4)

trooped away, the alma mater assumed an unwont air of aus

How the Other Half Lives

EDITORIAL NOTE: This week the other half will be observed in moments of lighter vien. All these jokes are included in an exchange column because they are all stolen.

Gadzooks!

"He told me he loved me, and then he vomited."

Ye Gods!

Home is where you can scratch but there aren't any jokes unany place that itches.

And Little Fishes!

Slowly, her eyes glowing softly, the beautiful young debutante raised the glass on high, exulting: "Port wine is to me the nectar of the gods, the elixir of life. When I imbibe its fluid, my very soul begins to throb and glow. The music of a thousand his girl's apartment, he gets no muted violins whispers in my ear, and I am transferred to the make-believe world of magic. On the other hand, beer makes me burp."

Egad!

Lovely Night Crescent Moon Situation Opportune Ruby Lips The live revue contains humor Slight Moustache Dispositions Slightly Rash Maiden Breathes Whene'er she can Softly Gurgles "Naughty Man!" Hesitates, then Whispers 'Be a naughty man Again!!!!"

Gad!

"What do you think of the art gallery?' "Oh, the pictures are all right,

der them." Ohdearohdearohdear!

May I take you home? I like to take experienced girls home. I'm not experienced. You're not home yet.

Egad!

"When a man loses the key to new key."

Egad!

"I think I'm beginning to lose my punch," cried the coed as she dashed from the room.

Egad!

1st Con: "What are you in for?" 2nd Con: "Rockin' my wife to sleep." 1st Con: "But they can't put

you in here for that." 2nd Con: "You should have seen the size of the rock."

Gad!

tomer's hair.

"Gee," said one to the other, light."

Ву George Abel

The outlook for music in America in 1951 is one of considand wages are increasing the major orchestras. The large networks are programing fewer broadcasts of classical music. The CBS Symphony Orchestra has been disbanded, and there is threat that this may happen to the NBC Symphony. Owing to the lower cost competition of European musicians and orchestras, the recording royalties to American artists are dwindling. National admission taxes to performances of non-profit musical ries of five chamber concerts organizations further broaden the gap between their income and expenditures. The Metropolitan Opera has again found

public for financial assistance. Despite this grim outlook for the nation as a whole, however, music lovers in this area are exceptionally fortunate. For the first half of the year, at least, a wealth of noteworthy musical activity abounds in Los Angeles and vicinity.

Los Angeles Philharmonic The soloist for the sixth concert pair this week, will be pianist Oscar Levant, who will play (at) the Tschaikowsky Concerto No. 1. Mr. Levant will also be soloist with the orchestra at its appearance in the Pasadena Civic Auditorium Wednesday evening.

Behymer Concerts

There are several interesting Two little street urchins were events to be presented by Mrs. watching a barber singe a cus- L. E. Behymer at Philharmonic Auditorium during January. Tomorrow evening, Rudolf Firkus-"he's hunting them with a ny, pianist, will give a program featuring compositions of Mo-

be a recital by the Metropolitan Opera Company's mezzo-soprano, Blanche Thebom. Future artists include Appleton and Field (Feb. 13), Szigeti (Feb. 27), Piatigorsky (March 27), Pennario (April 10), and Rubinstein (May 13).

We have been informed that substantial student reductions averaging around 30 per cent are available to groups of ten or more for any of these concerts. Those interested should leave names and addresses at the Tech office.

Beethoven Quartets

Of particular interest is a segiven on Wednesday evenings at the Wilshire-Ebell Theater, in which the Hungarian Quartet will perform the complete Beetit necessary to appeal to the hoven Quartets. The first pronight (too late for review in this issue of The Tech) when the great quartet performed Opus 18, Opus 127, and Opus 59, No. 1. The second in this most interesting series is Wednesday, January 17. Inasmuch as tickets to these concerts will be difficult to obtain, interested persons are advised to act quickly. Tickets for these concerts are sold at the Wilshire-Ebell box office, at the Gateway to Music, and at all Mutual Agencies.

Music This Week

Tuesday, January 9: Los Angeles Philharmonic Auditorium: Rudolf Firkusny, pianist:

Mozart-Fantasy in C Minor, K 475.

Mozart-Sonata in C Minor. Barber-Sonata, Op. 26. Chopin-Polonaise in C Minor, Op. 40, No. 2. Two Etudes, Op. 10, Nos. 11 and 1. Nocturne, Op. 62. No. 1. Ballade, Op. 47. Smetana-Two Czech Dances. Smetana-Etude de Concert.

Basketball Squad Drops 3 Preseason Games, Wins 1

Next Friday night the Caltech basketballers open their conference season in a clash with the Occidental Tigers.

As usual, this Caltech-Oxy game promises to be one of the thrillers of the coming season. As far as the records show, Oxy must be given the edge; but don't sell the Beavers short.

Practice Game

After losing their scrappy because of a knee injury, the Caltech quintet went out to get a few games under its belt before the regular season opened. In their first encounter with behind 35-25.

Muir, Coach Shy unfolded a fighting team. Led by veteran center Thorne Butler and guard Harry Patapoff, the Beavers showed plenty of skill, but they lacked the polish necessary to beat a team already in mid-season form.

After the 48-31 loss to Muir the boys went against an aggressive Loyola team that was too much for them. None of them lot of its nervousness now could find the hoop with Pata- though; look for them to give poff emerging as high point man for the Beavers with six points. The Lions won, 68-21.

Victory

(Continued on Page 4)



The weekend before finals found Tech's frosh casabamen battling La Verne's frosh all the way only to lose 57-54, in their first regularly scheduled game. Tech looked a little nervous for

guard Al Sereno in early practice the first half, only big Fred Anson being able to hit the basket season will run until February the top, was in fourth place. All with any consistency. With the 10. Softball starts next Monday, these standings can be rapidly second half coming up, we were

Forwards Hot

Forwards Smith and Plambeck found the range during the third quarter, each potting several field goals. Tech momentarily took over the lead early in the fourth quarter but was unable to hold it.

The team has gotten over a plenty of competition from now on.

Seeing action in the game house Sports last term were dewere Anson at center, Smith and Following another week of Plambeck playing forwards, Lypractice, Shy took his men out nam and Henderson holding to E.L.A.J.C. where the visitors down the guard posts, and Kaiser and Watkins.



Throop Leads IH Race as **Tennis Competition Begins**

Interhouse competition for the | cellar.

second term opens this afternoon with tennis. The tennis the opening game starring Black- changed since there is only a 61/2 er and Fleming. This sport will point difference between the first continue till the end of the and fourth place teams. month.

Saturday, February 10, the Interhouse track meet will be held. Cross-country lettermen are barred from all the running races, but may enter the field events.

Swimming trials will be held Tuesday, March 6, with the finals falling on the following Thurs-Waterpolo lettermen will day. not be permitted to enter for the first time.

Throop Leads

The final standings in Intercieddly different from what they have been at the same time in previous years. Throop is leading the pack with a 3½-point edge instead of holding down the



On the other hand, Fleming, who is usually found at or near It seems that every writer in the Southland is trying to find an excuse for the Bears' defeat

at the hands of the Michigan Wolverines. For those of us who sat in the stands Monday, no ex-**Standings and Schedules**

First Term Standings 1950-51 Throop, 45 points, 1st place Dabney, 411/2 points, 2nd place Blacker, 391/2 points, 3rd place Fleming, 381/2 points, 4th place Ricketts, 271/2 points, 5th place 1949-50

Dabney, 481/2 points, 1st place Fleming, 471/2 points, 2nd place Blacker, 441/2 points, 3rd place Throop, 301/2 points, 4th place Ricketts, 24 points, 5th place Interhouse Tennis Schedule 1951 Jan. 8-12, Dabney vs. Blacker Throop vs. Ricketts

Jan. 15-19, Fleming vs. Dabney Blacker vs. Throop

Jan. 22-26, Ricketts vs. Fleming Throop vs. Dabney Jan. 29-Feb. 2, Blacker vs.

Fleming Dabney vs. Ricketts Feb. 5-9, Fleming vs. Throop **Ricketts vs. Blacker** Interhouse Softball Schedule

Mon., Jan. 15— Blacker vs. Fleming **Fues.**, Jan. 16—

Throop vs. Dabney Wed., Jan. 17-**Ricketts vs. Blacker** Thurs., Jan. 18-

Fleming vs. Throop Mon., Jan. 22_ Dabney vs. Ricketts Tues., Jan. 23-Blacker vs. Throop

Wed., Jan. 24-Fleming vs. Dabney (Continued on Page 4)

WHEN YOU ARE HUNGRY WHEN YOU ARE THIRSTY WHEN YOU JUST NEED RELAXATION

IT'S THE SK] IP INN **Beer - Plate Lunches** 1352 E. WALNUT Open Till 2 A.M.

Ricketts-Rich Smyth

Caltech Is 2nd in Loop Distance Run Pilkington Pushes Oxy Flash Barnes As Caltech Squad Shows Strength

"Long Jawn" Barnes ambled to an easy victory over Tech's four-mile cross-country course to lead Oxy to a clear cut win in the All Conference Meet held December 9th. Surprise second was Tech's Bill Pilkington, who ran the best race of his career and gave Barnes the stiffest competition he has seen in this conference.

BUTTIN' IN

cuses are needed; Cal was taken

by a better club that featured a

deadly passing attack in the form

The Michigan backfield was

quite fancy. Their plays featured

plenty of fakes, hand-offs, and

spinners that kept both the

crowd and Bear defense guess-

Band

But in my opinion, the real

highlight of the entire afternoon

was the brilliant performance by

the Michigan band. Their pre-

cision and showmanship com-

Now we can dispense with

football until next August and

turn to the basketball season

that is well under way. The

Beaver five does not start conference play until the 13th. But

in the meantime Carl Shy is

really running the pants off the

squad trying to get them in

shape for the opening game with

Iba's Team

see Hank Iba's Oklahoma Aggies

perform while on their Coast

tour during the holidays, you got

a rare opportunity to see one of

the best clubs in America. The

Aggies feature a defensive game

that is second to none. Their

man to man defense is so tight,

that the Aggie five appears to be

glued to their opponents. Year in and year out, Oklahoma A&M

has proved that defensive bas-

ketball can win games among

The way the conference shapes

up at the moment Whittier or

Oxy appear to have the inside track for the conference title.

Against local opposition these

two teams have done quite well,

but found clubs in the northern

part of the state a little too tough

during the vacation period. But

the season is young and in bas-

ketball anything can happen.

Dabney—Don Vogel

the big time clubs.

If any of you had a chance to

Oxy.

pletely thrilled the crowd.

ing where the ball was going.

of Chuck Ortmann.

-by Butler

Oxy's Hal Butler, who was supposed to finish third, apparently didn't like the distance and dropped back to eighth. The rest of the Oxy team showed their strength by bunching right behind him in ninth, tenth, and twelfth places.

Oxv Bunched

Don Creacey of Redlands took third, while Tech's Pete Mason placed fourth and Pomona's "sophomore sensation" Sammy Calvin came in fifth. Others placing for Tech were Bob Cobb in eleventh, Dick Dickinson in thirteenth, and Francis Scott in sixteenth. Displacing for Tech were Ulrich Merten and Bill Blodgett in nineteenth and twenty-fifth places respectivey.

Others Lag Behind

Thus ,Tech earned an easy second place over the rest of the Conference teams. Final scores were:

Occidental	40
Caltech	46
Redlands	68
Pomona	83
Whittier	113

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Lhe sudden rash of quick-trick cigarette tests may have caused panda-monium on the campus - but our scholarly friend was unperturbed. He pondered the facts of the case and decided that one-puff or one-sniff tests . . . single inhale and exhale comparisons are hardly conclusive. Proof of cigarette mildness doesn't come that fast! And that's exactly why we suggest . . .

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THE CALIFORNIA TECH

Fleming

The first big event on the

for the many gala fiestas plan-

Winter Weekend

at the Timberlane Cabins near

Lake Arrowhead. Skiing if snow

(Continued from Page 3)

soundly trounced the J.C. boys:

poff missed the game, Shy came

In their last game before vaca-

the premises.

BASKETBALL SQUAD

CIT 1951 Basketball Schedule

Sat., Jan. 13, 8:00 p.m., *Caltech vs. Occidental at Pasadena CC. Fri., Jan. 19, 4:15 p.m., Caltech vs. LaVerne at Armory, Pas. 4:15 p.m., Caltech Frosh vs. LaVerne Frosh at McKinley Jr. Hi. Sat., Jan. 20, 8:00 p.m., *Caltech vs. Redlands at Redlands. Sat., Jan. 27, 8:00 p.m., *Caltech vs. Whittier at Pasadena CC. Fri,, Feb. 2, 8:00 p.m. *Caltech vs. Cal Poly at Cal Poly. Sat., Feb. 3, 8:00 p.m. *Caltech vs. Chapman at Chapman. Sat., Feb. 10, 7:30 p.m. **Occidental vs. Redlands, Pasadena CC 9:00 p.m., **Caltech vs. Pomona at Pasadena CC. Wed., Feb. 14, 8:00 p.m. *Caltech vs. Occidental, Pasadena CC Sat., Feb. 17, 7:30 p.m. **Caltech vs. Redlands at Pasadena CC 9:00 p.m. **Occidental vs. Whittier at Pasadena CC. Fri., Feb. 23, 8:00 p.m. *Caltech vs. Whittier at Whittier. Wed., Feb. 28, 8:00 p.m. *Caltech vs Chapman at Chapman. Fri., Mar. 2, 8:00 p.m. *Caltech vs. Pomona at Pomona.

* Frosh Preliminary at 6:30 p.m.

** Freshman teams will play at Occidental Gym.

DRAFT SITUATION (Continued from Page 1)

THE FRONT BURNER (Continued from Page 2)

Illegitimate theaters they may

them, anyhow) are better than

ever, and here are some of them

Movies worth seeing if you

well, but still not as appealing

-Sex, Pathos, and Realism ac-

cording to the new Italian movie-

making formula-at the Laurel

and Vagabond in L.A.; and Har-

vey-supposedly inferior to the

on the New Yorker's recom-

With or Without Shotgun?

you with the most fascinating

movie title seen this week . .

(Continued from Page 3)

Throop vs. Ricketts

Fleming vs. Dabney

Dabney vs. Blacker

Ricketts vs. Fleming

"Emergency Wedding."

As a parting thought we leave

cle in deepest L.A.

Thurs., Jan. 25-

crack down on deferrals or an emergency? The first thing to seeing the Turnabout, we advise understand is that Caltech wants you to make reservations well in to serve the country the best advance, for the show has atway it can by means of educat- tracted a faithful following who ing its students so that they return again and again to see can best serve the country. If the various new reviews and Caltech can't keep enough by puppet shows. The Turnabout means of deferments, then she Theater is located near La Cienwill have to start ROTC. In- ega and Beverly Blvd., in weststalling ROTC would lengthen ern Los Angeles. the normal four year to a five year course or at best four and be, but the movies (some of a half years.

Sit Tight

In conclusion, the procedure we have seen ourselves or have recommended by Dean Jones is seen reviews of. The film classics to make a decision on what to series, which is going to offer do. Sit tight and hope for the many, many good films ranging best; or join a reserve unit and from comedy to deeep dramah take your chances; or give up at the low price of 15 cents a completely and join some favor-|show, should certainly not be able branch of the services. If missed by any Techman. See you are sitting tight, which the article in this issue of the seems the best thing to do at Tech on the front page for more present, probably you will be information. seeing a great many things in the papers and hearing a great want to penetrate the smogmany rumors about the subject. bound reaches of Lousy Angeles Remember . . . until the final are Trio-three polished viglaw is passed by congress, any- nettes by Somerset Maugham, dithing anybody has to say may rected and acted superlatively be pure speculation or rumor. Don't get frightened into any- as Quartet-at the Beverly Canthing. Wait and find out what on in Beverly Hills; Bitter Rice comes out of the present mess.

Y's DOINGS

(Continued from Page 1) evening's important speech event, the entire assembly got N.Y. stage production, but still together for the various recreation highights, which this year mended list-at the Carthay Cirincluded a get-acquainted party, beach parties, open house, "Ye Olde Square Dance," and the famous Asilomar New Year's Eve shindig.

As per tradition, the wellknown Hat Dance was held, and the decorations this year were THROOP LEADS IH RACE based on the new song hit, "The Thing." At eleven, the memorable watch-light service was conducted.

On Saturday night, December Mon., Jan. 29-30th, the Caltech delegation met in Pacific Grove for dinner to- Tues., Jan. 30gether. Leo Baggerly, who attended the National Conference

POLL DETERMINES

(Continued from Page 1) away from the idea of just having a dance as an ASCIT event. in our league have for years had an all-college all-day barbeque change Friday, February 2. with a dance in the evening, with excellent success.

Obviously, these outdoor affairs would depend upon the ketball games. Fri., Jan. 26, has weather, which is best either been set for a tavernous barn early first term or during third dance in some cavern. term. The increasing number of people desiring a sweater hop third term together with writeins would indicate that some ning to attend a mammoth snow party the weekend of Feb. 2-4 sort of outdoor day and/or dance should be considered. Question 3 Maximum radius permits, home cooking and mixthat you would go for a dance.

Here the expressed feeling is that if the place is good or there In case you're interested in is "something special" about it, the distance is not so important as otherwise.

On this matter of place, things were suggested such as having a large dance floor, adequate seating space and tables, together with things of a similar nature.

Question 4 Are you in favor of a bar at the dance?

Opinion here varied from house to house. Most of the comments tion Dick led all scorers with 19 dealt with the facts that soft big points as Caltech pounded drinks should be more generally | out a 50-33 victory. available, that drink prices should be lower, and that LD's tion the Beavers traveled to La should be checked less often. movies, contests, etc.?

Here the opinion seemed to be to have entertainment primarily Verne took that one 56-41. if it was good. Aso the desire was expressed to keep it short.

As regards this term's ASCIT plans, the date (March 3) and the band (Keith Williams') have been chosen. The dance will be either semiformal or party type, to be decided later when more off campus opinion is known.

The place will probably be the Oakmont Country Club, although this is not definite. Your wishes wil be of first importance and will be considered wherever possible.

HOUSE SOCIAL NEWS

Dabney

Dabney's scheduled social life Dates should thus be assured named Mozart's Fall (previousy the gap on Saturday night. Bozart's, Hobart's, etc.) The acned for the nights between bas- tual theme is to be revealed in a week or so.

this term's barn dance in the tain Oaks Lodge in the Verdugo low-ceilinged atmosphere of Hills, the Valentine Semi-formal Mountain Oaks along with with Throop club, and of course Forty fiery couples are plan-Blacker.

Big Stag

other schools are on vacation, trance. the Darbs have planned a stag, to be held somewhere off-campus.

ing, dancing, and lounging are the recreational fare, with the will come fairly close to Valenwatchful eye of Mr. and Mrs. Jay Montgomery and Mr. and Mrs. Steve Pardee watching over beforehand at a near-by spa.

The Drunkard

To top things off (for those after each game, flush with income-tax returns) there will be a "Final Opportun- heads, Drugstores are still open, ity" party at the Drunkard in groceries close at 8:30, women are Although both Butler and Pata- Los Angeles.

up with a new pivot man in Dick CAMPUS BREWINS Libbey. From his center posi-

(Continued from Page 2) Deverill and we forget whom, seeking spiritual solace, and repeatedly slaking a burning thirst.

To make a long matter short, Verne. There they met an ex-

Sorrow

Open

Fri. Nights

Question 6 Do you want enter- ceptionally strong team that never was so much fun had by tainment at the dance, such as proved to be better. Norm Gray so few in so short a time, and got 13 of the 41 points, but the now that it is all over, and we rest had shooting trouble. La have to get up for 8-o'clocks' again, we are left holding our

An exchange with Oxy's Orr. Oxy, Pomona, and other schools Fleming social program this is built around five main events Hall will start Ricketts' social term will be a postcard ex- this term. The first will be the schedule for the second term, annual semi-costume party, with an open house filling up Notorious

Ricketts

Looking forward further into the term, we will see a barn The crew team will celebrate dance with Fleming up at Mounthe notorious Apache Dance, with its waterfront atmosphere And during Easter, when the and dank tunnel-and-chute en-

Basketball Dances

This year a different system The Valentine's day formal will be used in the student houses for entertainment after tine's Day; arrangements will be the basketbal games. Refreshmade by the house for dinner ments will be served at one house at a time, while dancing will take place in two houses

> getting harder than nails every day, and though we are now older and wiser, we can close an eye and say: It was fun while it lasted.

> > Gad!

She: Shall we sit in the parlor? He: No, I'm too tired, let's go skiing.

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On the road and in the laboratory, Du Pont scientists are writing

881 E.

Colorado

at

Lake



Four

in Ohio, was elected co-chairman for next year's Asilomar meeting.

Highly pleased with our crew, which was the second largest delegation at the conference, Wes Hershey, the executive secretary of the Caltech "Y," has invited the student representatives to the new Michigan Avenue residence for a post-Asilomar evaluation session, the meeting to take place in about two weeks.







459 East Colorado, Pasadena

Engineers have long known that deposits which accumulate in gasoline engines have a direct bearing on engine performance. Even now, however, no way has been found to eliminate these deposits or their effects.

As a manufacturer of chemicals used by the petroleum industry, the Du Pont Company has a particular interest in this problem. It is currently the subject of a comprehensive research project, conducted both on the road and in the laboratory.

When Du Pont engineers began their studies, some aspects of the relationships between engine, fuel, lubricant, operating conditions and deposits were known. But to understand how and why deposits form and to develop corrective measures, they needed additional information.

Engineers take to the road

To get these facts, Du Pont engineers are supervising tests in a fleet of passenger cars and trucks that travel hundreds of thousands of miles yearly under carefully controlled conditions. The effects of deposits on octane number requirement, valve performance, spark plug condition and other performance characteristics are measured. After each test, the deposits are weighed and examined physically and chemically.

In the laboratory, other engineers study the effects of the same variables on multicylinder engines. Here, where closer control of the engines is possible, greater attention can be paid to specific fuel or engine operating effects. Performance factors, such as power output, can be more conveniently measured.

A third group of Du Pont engineers uses single cylinder engines in laboratory studies of deposit formation, adhesion, removal and harm. Exploring new fields, these men had to design complex instrumentation for measuring factors such as surface condition and deposit thickness.

Chemists synthesize deposits

Chemists, too, have an important place in this research. They study the chemical and physical characteristics of engine deposits. Among other things, they devise ways of synthesizing, in fired engines, deposits consisting almost entirely of a single chemical compound in order to study its effect on engine performance.

The results of this comprehensive research program are not yet conclusive, although the relationships between engine, fuel, lubricant, operating condition and deposit formation and harm are much better understood. In the past Du Pont scientists have licked even more difficult problems. Working as a team, they will persist in their effort to provide the motorist with improved engine performance through better fuels.



Douglas L. Schultz (center), B.S. in M.E., M.I.T. 1947, supervises installation of engine for study of deposit formation in truck operating under heavy-duty conditions.



W. E. Bettoney (left), B.S. in M.E., Maine 1939, tests installation of single-cylinder gasoline engine used in study of factors influencing deposit formation in the combustion chamber



K. Livingston, Ph. D. in Phys. Chem., Chicago 1941, operates apparatus for measur ing porosity and absorptivity of combustion chamber deposits taken from test engines of the Du Pont automobile test fleet.

DID YOU KNOW

... about 60% of Du Pont's sales to-day consist of products that didn't exist or weren't commercially available 20 years ago.



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