

Provisions Of Health Fund, Medical Coverage Clarified

By LEN HERZOG, member, Student-Faculty Relations Committee

Fund Coverage Expanded

That "Emergency Hospitalization Plan" is an unfortunate misnomer was emphasized by Dr. Henry Borsook in his remarks to the Student-Faculty Relations Committee last week.

Dr. Borsook pointed out that, as now constituted, the plan (for the benefits of which students pay an annual \$4.00 fee) goes far beyond its original intent of providing funds so that in cases of extreme emergency requiring hospital treatment, the "load" of paying for such treatment would be taken off the student.

Members of the Committee expressed astonishment at the extent of coverage given under the plan now, at 1/20th the cost of comparable ordinary insurance.

How the Plan Works

Funds derived from the \$4.00 fee are deposited in a special account at interest.

Funds may be used only for payment of surgical and medical expenses. When a student is faced with a medical problem of serious nature, he may contact Dr. Kremers, the Institute physician, who is also co-administrator of the plan with Dr. Borsook, and the administrators, together with the members of the Faculty Committee on Student Health, will decide whether utilization of "emergency hospitalization" funds is warranted. (Again, it is emphasized that "emergency hospitalization" is used above only in an identifying sense, and should not be given any descriptive connotation. A subcommittee is at present engaged in selecting a more accurate name for the Fund).

Rules of Thumb

In past years, certain "rules of thumb" have been developed to govern the use of the fund. While these are still operative, they are not binding and may be put aside in exceptional cases. Each case is decided on its own merits, with the underlying principle that the Fund because of (Continued on Page 6)

Charles Susskind Wins McKinney Prize

Charles Susskind and Alfred E. Waters, Thursday won first and second prize respectively in the McKinney Prize Contest in English, an annual junior event at Caltech established last year by Dr. Samuel P. McKinney.

First prize consisted of \$75.00 and a copy of Webster's Biographical Dictionary; second prize \$50.00 and a copy of Bartlett's Familiar Quotations. Prizes were awarded on the composition and reading of an original essay under the general title of "The Stature of a Man" based on the reading of four novels, Lewis' "Arrowsmith", Santyana's "The Last Puritan", Wells' "Research Magnificent" and Maugham's "Of Human Bondage."

The contest was under the supervision of Professor Judy, and judges in the final contest were Rev. Curtis Beach of the Neighborhood Church of Pasadena, Norreys J. O'Connor, and Dr. John A. Schutz.

The other finalists were Len Herzog and "Blackie" Stone.

Students To Pay \$3.50 Next Year

Next year Caltech students will pay a \$3.50 fee for services received under the Student Health Plan, Dr. Henry Borsook revealed at the Student-Faculty Relations Committee meeting.

This fee will be included with those fees paid at registration. The \$4.00 "Emergency Hospitalization Fund" coverage fee is independent of the Student Health Plan (see adjoining col.)

Students Unconcerned

Dr. Borsook was invited to appear before the Committee last week in order to clarify the provisions of the health program at Tech for the members and to bring to his attention, as co-administrator of the plan, certain alleged instances in which the plan had failed to operate properly. It was at this time that it was brought out that the students were largely unaware of next year's additional assessment, although the reason that the fee had not been collected this year was that it was felt that the corporate membership should have a one-year warning.

The \$3.50 health fee will be used to maintain in part the previously Institute-sponsored services of the Institute physician, nurse, and other medical services. A large part of the expense, however, will still be borne by the Institute itself.

Regulations Clarified

Dr. Borsook clarified some uncertainties regarding the plan.

He stated that the Institute physician, Dr. E. D. Kremers, or the assistant Institute physician, Dr. M. Y. Kremers, is available for consultation at his office on the campus, 104 Kerckhoff, weekdays from 2:00 until 6:00 and Saturdays from 1:00 to 2:00, without (Continued on Page 5)

Throop Club Hay Ride, Beach Party Saturday

This Saturday will see a large number of Throopites and their dates at little Corona Del Mar in the last social event of the season. The party will be highlighted by a hay ride both to and from the beach, with the truck leaving Throop Club at 1 p.m. and returning around midnight.

There will be plenty of the ol' straw in the trucks, but bring your blankets 'cause it will be a long, cold (?) ride home.

Everything will be furnished, food, transportation, and appropriate refreshments aplenty; so, just bring your girl friend and have a good time.

Exchange Excellent

The U.C.L.A. exchange dance which Throop Club held with the Bruin Phratares proved to be one of the highlights for the season.

This "Shipboard" dance was held on the sundeck of the girls' gym, where, in addition to record dancing, there was a variety of games for the entertainment of the guests.

Some ex-servicewomen supervised the dance and did it in fine style. Prof. Schutz and his lovely sister chaperoned the party, and Rypinski with his whirlpool "Dance of Death" amazed all present.

Faculty Judges Choose Tiger Beauty At Girlful Assembly



Miss Spring Fever, 1947

Lewis On Living At CES Assembly

One of the most interesting meetings yet planned by the CES will take place tomorrow at 11:00 a.m. in 201B when Mr. H. B. Lewis, '23, gives his talk "Engineering a Living."

The talk is aimed particularly at those men "looking forward to industrial rather than academic careers . . . who want to play on a larger stage than the drafting board and the laboratory."

The rest of the time will be spent discussing questions of particular interest to those present and should bring out many valuable pointers.

SAE Business Meeting

The SAE will hold a business meeting next Wednesday at 4:00 p.m. in 206ME for the purpose of organizing its enrolled membership. Any member expecting to be on campus next term should be sure to attend the meeting or contact Joe Wechsler, Ricketts 28, in order to get the records complete.

Dr. DuBridge Addresses IRE

The Los Angeles section of the Institute of Radio Engineers met last Tuesday night in Culbertson Hall to hear Dr. Lee A. DuBridge speak on "Radar in War and Peace." Afterward, the group viewed a demonstration in the High Voltage lab, also exhibitions of the lectron microscope, electro-magnetic "lenses" and other electronic equipment.

The meeting, sponsored by the Caltech student section, was chaired by Bob Krueger.

WHAT'S THIS?

"I'll make a prediction," Loessa Reeves told a titillated "Tech" interviewer Tuesday evening, "about this Saturday's baseball game. I've watched both teams—saw the last game, and I can assure you, this time Oxy will really come out on top."

Techmen, who at last week's assembly finally demonstrated what would happen "if we catch an Oxy gal within our sacred walls" by crowning the beautiful brunette Loessa "Miss Spring Fever of 1947," were confident that dashing Bill Woodson, ladies choice as King Beaver, would supplant the reason behind that statement by the time the ball is over next Saturday.

Biggest Graduation In Techistory June 13

Plans for the largest commencement exercises in the history of the Institute are being rushed to completion this week as the 500 men who will receive degrees wind up their work.

Dr. DuBridge will deliver the commencement address, after which he will confer an estimated 150 bachelor, 210 master, 70 professional, and 45 Ph.D degrees.

Because of the size of the group, it will be necessary to curtail some of the traditional ceremony surrounding graduation. However, the expected 2400 guests will find their chairs placed on the lawn east of the student houses, as usual.

Placement Calendar

May 23: Fluor Corporation—Mechanical Engineers and Chemical Engineers. Open.
May 26: The Trane Company—Mechanical Engineers, Chemical Engineers and Civil Engineers. Open.
May 27: Consolidated Vultee Aircraft Corporation—Mechanical Engineers, Aeronautical Engineers, and Physicists.

Loessa Reeves, Bill Woodson Crowned

Pair to Reign at ASCIT
Semi-formal May 31

In one of the most rousing assemblies this year, last Friday a full hall of Techmen displayed great enthusiasm for the beauty parade of nine charming coeds from the Conference.

Carrying off the crown for "Miss Spring Fever" was the lovely Loessa Reeves of Occidental College. Along with Bill Woodson, who was elected king by the nine girls prior to the female beauty contest, she will reign at the ASCIT Country Club on May 31.

Judging Is Difficult Task

After scrutinizing each exhibit with appraising, experienced eyes, Drs. DuBridge, Neher, Stock, Swift, and Schilling found it a difficult task to choose the queen. After 15 minutes deliberation, Miss Reeves was selected.

The other girls competing were: Peggy Poteete (3), Cassie Ames (4), and Margie Robertson (2), from Redlands; Jean Culp (8), Marylou Moriarity (5), and Shirley Plummer (1), from Whittier; and Virginia Ellis (6) and Caroline Johnson (9) from Oxy.

Rex Stewart Plays

While the judges were deliberating, Rex Stewart and his boys gave forth with a couple of numbers including a song by the name of "Fish" which was vocalized by Rex himself.

The orange corduroy boys in the band, sitting in front of the stage with Bob Hockaday's tuba sticking conspicuously in the air, played several fine numbers prior to the beauty contest.

The eight remaining men, Paul Howard, Jim Thorpe, Bob Levy, (Continued on Page 6)

Flag At Half Mast

The passing of Mr. R. C. Gillis, former president of the Board of Trustees, is deeply mourned by the Institute. Mr. Gillis was a business associate of Mr. Fleming for many years, and was a member of the Board of Trustees from 1912 to 1932. He lived at Pacific Palisades, near Santa Monica.

Campus Calendar

Thursday, May 22—
Upper Class Luncheon at the Training Table, 12:00.
Friday, May 23—
Golf Conference Tournament at Pomona, 9:00 a.m.
Assembly by the CES in Culbertson Hall, 11:00 a.m.
Beginning Conference Tennis Meet at Caltech.
Fleming Record Dance.
Saturday, May 24—
Baseball game. Caltech at Occidental, 2:15 p.m.
End of Conference Tennis Meet at Caltech.
Blacker Costume Party.
Dabney Spring Semi-formal.
Fleming-Ricketts Beach Party.
Throop Club Hay Ride-Beach Party.
Sunday, May 25—
Dabney Beach Party.
Monday, May 26—
Band Rehearsal in Culbertson Hall, 7:30 p.m.
Glee Club in Dabney Lounge, 8:30 p.m.
Meeting in "Y" Lounge, 4:00 p.m.
Miss Fern Babcock, Nat. YWCA Speaking.
Wednesday, May 28—
Frosh Luncheon Club at the Training Table, 12:00.
Orchestra Rehearsal at Culbertson Hall.
Thursday, May 29—
Upper Class Luncheon at the Training Table, 12:00.
Throop Club Meeting, 12:00.
Dancing Class in Culbertson Hall, 7:30 p.m.

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THE SQUARES' CIRCLE

MAYS REPLIES TO GRIMM

Only the great importance of one of the principles involved prompts me to dignify by a response Mr. Grimm's intemperate reply to my letter of two weeks ago. Mr. Grimm confesses to having suspected that my letter was susceptible of two interpretations. I should have appreciated his consulting me before he launched into his tirade. I hope that the present letter will clear up any confusion as to what I was trying to say.

In writing my letter I wished principally to do two things. First to express my amusement at the juvenile tradition of The Senior Bench. Second to take issue with Mr. Wolf's assertion that 'The Senior Bench is as much a part of this school as the Honor System.' Not wishing at this late date to become involved in a controversy on the first point, I shall leave it to those who agree with me to take appropriate action next fall if they care to, under the By-Laws of ASCIT, and shall pass on the second point.

Enthusiastic Support

The Honor System is in effect an application to college life of certain standards of behavior observed by gentlemen everywhere. As such it commands the respect and enthusiastic support of all persons of integrity. I am glad to be able to say that in this category are included, all the men with whom I have come in contact at Caltech. Comparing a puerility such as the tradition of the Senior Bench

to the code of behavior that lies at the very foundation of Caltech society seems to me to evidence a most unfortunate attitude, one that should not go unchallenged. I regret that I did not adopt a less ambiguous way of expressing this challenge.

—JOHN M. MAYS.

U. S. POLICY

Editor, The Square's Circle Column
Dear Sir:

The letter from David Metzler which you printed this week certainly calls for an answer in next week's paper; to let his statements go unchallenged would be nothing short of a crime.

No truly civilized man wants to have anything to do with war or fighting of any kind, but as long as there is still the possibility of men having to defend themselves against attack, the best and only safe or wise solution is to be prepared to defend successfully. The known ability to make any fight too costly to the opponent is the best insurance against being forced into a fight. Hitler conquered most of Europe, but never threatened Switzerland. It has long been Swiss policy to maintain a trained fighting force capable of exacting such a price from any enemy that the remains would not be worth the price. Other European countries allowed their armed forces to be weakened to the point that their conquest might have been profitable. The result was that the country which was prepared was not invaded and the unprepared ones were.

The best policy for the United States is unquestionably that of being prepared at all times to unleash such destruction on any enemy that no other country will dare to force us into a fight. I am not advocating force as an instrument of national policy, but merely as a means of persuading other countries that war is no way of winning an argument with the United States.

The opinion Mr. Metzler expresses is that held by conscientious objectors; perhaps Mr. Metzler does not realize that if all Americans had been C.O.'s he would now be taking orders from our former enemies, and they certainly were not known for recognizing conscientious objections from the people they conquered.

Sincerely yours,
—CARTER SINCLAIR.

CLEAR INTERNATIONAL THINKING

Editor, The California Tech:

It seems to me an excellent idea to have some opinions on world affairs expressed in The Squares' Circle as Mr. Metzler has done last week, but opinions are widely divergent as to the surest means of insuring that the threat of war is absent in the world.

The policy of so-called "American imperialism," including, I suppose, such activities as the economic and military aid to Greece and Turkey, was not the policy chosen by this country immediately following the end of hostilities. It is regrettable that our constant efforts to achieve a true, working co-operation with Russia through the United Nations have met with such limited success, but events have clearly shown the need for a constant modification of our foreign policy. At the present time our government sees necessary as the surest, though admittedly risky, plan to achieve lasting peace, a firmness backed by force in our dealings with Russia and a readiness to go ahead in reconstruction and reorganization with or without Russia, at all times, however, leaving the door open to her to join in as son as she sees that her best interests lie in cooperation.

Personal Exertion Needed

Such a policy can and will succeed if the people of this country can maintain the ability to think clearly, keeping the ideal of a free world, yet not losing that essential practical contact with reality and the world as it is today. We must firmly support by our actions the policies our nation sees as best, although exerting our personal democratic powers in behalf of our own opinions by writing to Congress, by careful voting, and by discussing our ideas with others.

It is ardently to be hoped that the year is not too far off when Mr. Metzler's proposals—disarmament, no universal military training, no imperialism, and reallocation of military expenditures for the welfare of all men—will be adopted, not by the U.S. alone, but by the whole world. It is toward this ideal that we must work, realizing that the only sure means to the end involves the far-from-idealistic practical methods that alone can achieve results in A.D. 1947.

Yours truly,
—JOHN O. RASMUSSEN, JR.

DEDICATED TO MEN "OLDER THAN ME"

I'm only an old Night Watchman—Pounding around on my beat—Tired, foot sore and weary,
Who cares where I ache or how sore are my feet?
As long as they serve me I know there will be something to eat.
Through rain or fair weather the rout is the same.
Punch a key here and lock a door there,
Turn on a light or move over a chair.
Who cares where I ache or how sore are my feet?
As long as they serve me I know There'll be something to eat!
Look at the grass and look at the trees
You look at them, friend, while I rub my knees.
You can't eat the grass, and you can't eat the trees.
The pain in my back is deep-rooted—like these,

The Front Burner

—Lewis L. Grimm

Susanna Success

* The world premiere of "Oh Susanna," a comedy by Florence Ryerson and Colin Clements, based on the early life and music of Stephen Foster, was held last night at the Pasadena Playhouse.

Generous sprinkling of the beloved American songmaker's music, backgrounded by the retelling of Foster's happy, carefree days on the levee, add to this new undertaking of a fast-moving and picturesque footlight creation.

Ann Adapts

Ann Ronnell adaptes the famous Foster score and lyrics for this staging which includes some fifteen well-remembered songs.

Michael Grayson has the lead, with Julie Bayer appearing as Jeannie, who with romance turns Foster from a river loafer to a busy song writer. He rises to fame under the famous minstrel man, E. P. Christy, in a story that is entertaining and enjoyable.

CAMERA CORNER . . .

Foreign movies have come and gone in Pasadena.

Two weeks ago the Park theatre inaugurated a policy of showing foreign films exclusively—thus, it was the only Pasadena showcase for these films.

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Your Campus

—by John Whittlesey

LOWER THROOP LABS

Two laboratories passed daily by almost everyone are Soil Mechanics and Materials Testing. The first is located next door to the bookstore. The second is across the hall from it, visible from the window by the steps between Throop and Dabney. These crowded Labs are used for student classes, for special tests in serving industry, and for certain research programs. Six such programs are now being carried out under the general supervision of Professor Converse—largely by about ten fifth year (grad) students. Of these students, one is a colonel, five are lieut. colonels, the rest civilians.

Soil Mechanics

On entering the Soil Mechanics Labs, one sees platform scales with special clamps for simulating actual field conditions, analytical balances for finding moisture content, etc., a drying oven, and various basins of dirt and metal cylinders containing samples. One of the projects here is the determination of compaction of frozen soils. Army highways in northern climates often cannot wait for spring, and the road beds must be laid while soils are still frozen. The investigation seeks to find what types of soils and what moisture contents, remain stable on thawing. A second project is the study of the uses of coral as a building material. The problem is attacked from the standpoint of the chemical changes, the manner in which they cause cementation, stabilization, etc.

(Continued on Page 5)

SOCIAL MARCESCENCE?

This letter is written with a sense of burning humiliation and deep resentment. Its purpose is to protest the disgraceful exhibition of bad taste evidenced by the student body on the occasion of last Friday's assembly. Our charming guests, who had graciously consented to undergo the ordeal of a beauty contest here, were subjected to a disgusting display of raucous cries, vulgar comments and, most shameful, the launching of a voluminous fleet of paper gliders and novelties from the balcony. This will be especially detrimental to Tech's already enfeebled local reputation as queers because our visitors were all representatives of neighboring colleges and have no doubt already spread the tale of the mental immaturity and social marcescence witnessed by them. Moreover, several of our most eminent faculty members also were present to perceive and deplore these heinous acts of factless discourtesy and depraved degradation.

Whatever its cause—uncontrolled mob hysteria, misdirected attempts to demonstrate robust masculinity, or stimulation of inhibited and perverted sexual conditions—such a spectacle of mass puerility must not be permitted to recur. The undersigned makes a fervent appeal to the student body to, if it cannot alter, at least conceal its collective insalubrity.

Intensely,
—CRUD ALLEY.

P.S.: Most of the airplanes were so lousy they wouldn't fly, too.

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More Coverage At Less Cost

That students at Caltech get more for their health service dollar than any comparable group in the Pacific Coast area was brought out very clearly in testimony before the Student-Faculty Relations Committee at its last meeting.

Students at Stanford, for instance, pay \$30 annually for their ultra-efficient service plan. But, in action, the Tech program is at least comparable in coverage and possesses the advantage of flexibility enough to adapt itself to unusual cases.

Doctors Borsook and Kremers, and the Faculty Committee on Student Health are to be commended for their excellent administration of the program and its resources.

Musical Baedeker

So this is another beef. About radio this time, and one show in particular, Gene Norman's.

Sure, Gene's done a lot to give jazz a break around these parts. In spite of shortcomings, his "Just Jazz" concert was good. Fine. He juggles in the Lombardos, Jolson, and Kayes on his ten to midnight air show over KFWB, but that's OK. Gotta keep everybody happy.

Dexter's Corn

From 10:45 to 12 on Tuesday nights Norman features jazz music only. Or so says Norman. A thing like that could be worth while, one of the few nothing-but-jazz air shots in L.A. But no. The whole thing is loused up by the perennial guest commentator, Dave Dexter. Dexter can't limit his corn to Jarvis's "Can You Tie That?" program, the pages of "Capitol News" and occasional digs at his erstwhile bread and

butter, "Down Beat."

He poisons the air with supposedly rare records from his collection, and, brother, they sure are rare. Twenty and thirty year old failures—18th century hillbilly tunes, frustrated Judy Garlands in birth pains, and stuff that must have been mickey back in the twenties—all that on a jazz show. Oh, well.

Capitol Goes Longhair

Capitol records have invaded the field of classical recordings, with Benny Goodman as pioneer artist. B.G. recently waxed Karl Maria von Weber's "Concertino for Clarinet", accompanied on the piano by Nadia Reisenberg.

Long Shots

Tommy Dorsey opened at the Casino Gardens with his new band last week to capacity crowds, with Stuart Foster back on vocals. The Gardens are only

Continued on Page Three

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ASCE Host To Los Angeles Section

The Caltech Student Chapter of the American Society of Civil Engineers acted as hosts to the Los Angeles Section at their monthly dinner meeting held Wednesday evening, May 14.

The visitors were conducted on a tour of the campus, and talks were presented by Caltech members on the 200-inch mirror, the Meteorology Department, the Soil Mechanics and Hydraulics Laboratories, and the wind tunnel.

Dinner was served at the Athenaeum to more than 375 members and students, setting a record for attendance at a local section meeting. The exceptionally large attendance necessitated adjournment to Culbertson Hall rather than to 201 Bridge, as originally planned, for the evening. Here, Dr. DuBridge extended a warm welcome to the visiting engineers.

Dr. Wagner and Rust Speak

Lt. Col. C. H. Rust, a graduate student at the Institute, then spoke on the failure of the Remagen Bridge. His discussion was enlivened by slides and his reminiscences on the sensations which he experienced at the middle of the bridge as it collapsed.

The highlight of the evening was Dr. Warren O. Wagner's discussion of the Guam Harbor Model. The talk was accompanied by a motion picture showing many construction details.

Engineers Show Interest in Tech

The large attendance at this meeting illustrates the interest in Caltech shown by civil engineers. They have had no opportunity to visit the Institute for the last three years, and turned out in much greater force than usual. Professor A. P. Banta, the speakers, and the members of the student chapter should feel well rewarded for the effort they put forth toward the success of this meeting.

MUSICAL BAEDEKER

Continued from Page Two
 a ninety-minute drive from Tech . . . Will Osborne returns to the Pasadena Civic this weekend . . . Pearl Bailey can be heard at Slop-sy Maxie's on Wilshire Blvd. . . . Johnny Plonsky, fat little trumpet man heard with Bauduc's combo at Caltech, is breaking in a new trio up around Ulcer Alley . . . The King Cole Trio will open on June 3rd at the Bocage, just down the street from NBC, on Sunset. The King will play his concert compositions at a "Just Jazz" concert on June 23rd at the Pasadena Civic . . . Joe Mooney coming soon to the Copacabana Club, new spot on the Strip . . . Errol Garner still plinking around, this time at the Haig, Wilshire restaurant.

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EXCEPT MONDAY

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STUART FOSTER
AND
CHARLIE SHAVERS

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Ball Team Splits; Swimmers Take 2nd In League Meet

Beavers Dump Cal Poly; Lose To Whittier

"Musselmen" to Go After Oxy Tiger Skin Saturday

The alternately hot and cold Beaver stickmen just managed to break even again last week by dumping Cal Poly, 13-3, and then losing to Whittier, 8-3. The Cal Poly game was a practice affair, while the Saturday meet with the Poets was part of the second round of conference play.

Beavers Bunch Blasts

There was no waiting for a late inning rally in the Poly game. Beaver bats got in back of Art Spaulding and presented him with a four-run lead in the first frame. Art took the idea to heart and set the invaders down practically in order for the rest of the afternoon. Meanwhile, the team blasted out nine hits and scored 13 runs.

No Punch Against Whittier

The Whittier game was a little more staid affair with the Beavers playing fair ball, but not getting enough runs across the plate. Lang Hedrick pitched the entire game and was nicked for 12 hits while giving up four free passes to first. Tom Petrusas looked pretty sharp while picking Poets off the base paths.

Oxy Saturday

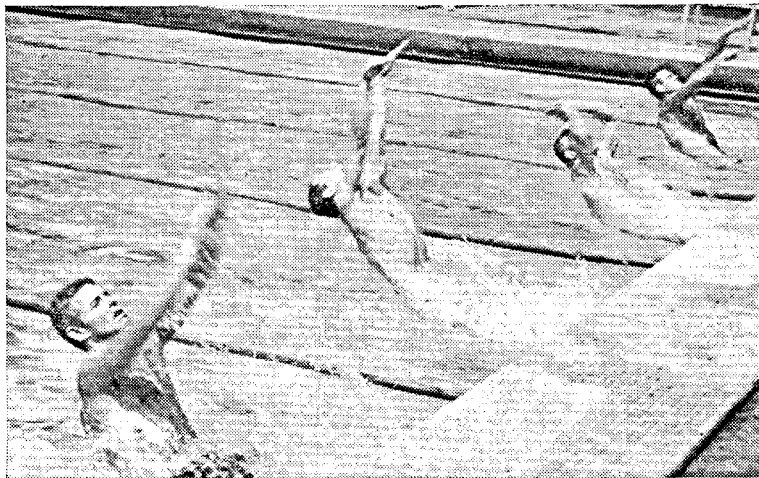
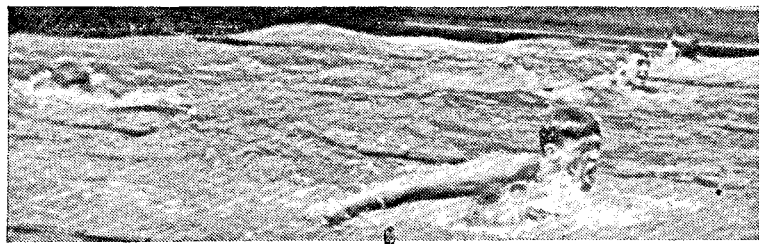
Saturday the squad will travel to Oxy for the last game of the league season. The Beavers will be eager for this one as rabbits feet and horseshoes won for the Tigers last time.

CAL POLY (3)									
	AB	R	H	PO	A	E			
Hillbrecht, 3b	3	1	1	1	0	0	0	0	0
Scarborough, cf	3	0	1	0	0	0	2	2	1
Hunt, ss	2	0	0	1	0	0	2	2	1
Cruzen, 1b	3	0	1	7	0	0	2	2	1
Garner, c	2	0	0	0	0	0	0	0	0
Black, rf	2	0	1	0	0	0	0	0	0
Otto, lf	2	0	0	0	0	0	3	0	0
Steffens, 2b	2	0	0	0	0	0	0	0	0
Boehme, p	2	1	0	0	0	0	0	0	0
Gifford, p	0	0	0	1	3	0	0	0	0
Story, p	0	0	0	0	0	0	0	0	0
Total	20	3	4	12	8	5			

CALTECH (13)									
	AB	R	H	PO	A	E			
Patterson, cf	2	2	1	0	0	0	0	0	0
Smith, lf	0	0	0	0	0	0	0	0	0
Butler, 2b	3	3	2	3	2	1	0	0	0
Sellen, 2b	0	0	0	0	0	0	0	0	0
Petrulas, c	2	2	1	8	0	0	0	0	0
Norman, ss	3	3	2	2	2	1	0	0	0
Mason, 1b	1	0	0	2	2	1	0	0	0
L. Hedrick, 1b	3	1	2	2	2	1	0	0	0
MacGinitie, cf	1	0	0	0	0	0	0	0	0
Morrison, 3b	3	1	2	0	2	1	0	0	0
Burkholder, rf	2	0	0	0	0	0	0	0	0
B. Hedrick, lf	2	0	0	0	0	0	0	0	0
Lyon, cf	1	0	0	0	0	0	0	0	0
Spaulding, p	2	0	0	0	0	0	0	0	0
Total	23	13	9	15	7	3			

SCORE BY INNINGS			
Cal Poly: Runs	2	1	0
Hits	1	0	1
Caltech: Runs	6	2	5
Hits	3	1	4

SUMMARY
Innings pitched—By Boehme, 1/3; Bifford, 2-3; Story, 1; Spaulding, 5. Credit victory to Spaulding. Charge defeat to Boehme. Hits batted off—Boehme, 3; Gifford, 5; Story, 1; Spaulding, 4. Runs scored off—Boehme, 6; Gifford, 7; Story, 2.



"Butterfly" Bill Palmer (foreground, upper pic) and Jarrin' Jay Montgomery (second from left, lower pic) on the way to wins at the conference swimfest.

Varsity - Alumni Baseball Game

WEDNESDAY, 4:00 P.M. TOURNAMENT PARK

WHITTIER (8)
Tuttle, ss 5 1 1 1 1 0 0
Walker, c 5 1 1 1 1 0 0
Elias, cf 5 0 2 2 2 0 0
Hadley, 1b 2 2 1 0 4 0 0
Chandler, 1b 2 1 0 0 0 0 0
Dillon, lf 3 2 1 0 0 0 0
Kincaid, rf 5 0 0 2 1 0 0
Erbe, 2b 2 0 1 3 1 0 0
Nuffer, 2b 2 0 0 3 0 0 0
Pelton, 3b 2 0 0 1 2 0 0
Hall, 3b 1 0 0 2 1 1 1
Bliss, p 1 0 0 0 0 0 0
Galvez, p 1 0 0 0 0 0 0
Total 38 8 12 27 8 2

CALTECH (3)
Patterson, cf 5 1 1 0 0 0 0
Butler, 2b 4 0 1 4 3 0 1
Petrulas, c 4 0 1 5 2 0 1
L. Hedrick, p 3 1 0 0 2 1 0
Norman, ss 4 1 1 4 6 0 0
Morrison, 3b 3 0 0 4 2 1 0
Mason, 1b 3 0 0 4 2 1 0
MacGinitie, rf 4 0 2 0 0 0 0
B. Hedrick, lf 2 0 0 0 0 0 0
Total 32 3 6 27 16 5

SCORE BY INNINGS
Whittier: Runs 010 240 100—8
Hits 022 230 201—12
Caltech: Runs 020 000 010—3
Hits 020 001 120—6

SUMMARY
Innings pitched—By Bliss, 3; Galvez, 6; Hedrick, 9. Credit victory to Galvez. Charge defeat to Hedrick. Hits batted off—Bliss, 2; Galvez, 4; Hedrick, 12. Runs scored—Off Bliss, 2; Galvez, 1; Hedrick, 8. Struck out—By Hedrick, 5; Bliss, 4; Galvez, 4. Bases on balls—Off Hedrick, 4; Bliss, 2; Galvez, 3. Wild pitches—Hedrick, 2; Bliss, Galvez. Stolen bases—Tuttle, 2; Walker, 2; Erbe, 1. Two-base hits—Hadley, Petrusas. Three-base hit—Dillon. Sacrifice hit—Galvez. Runs batted in—Dillon, 1; Nuffer, 1; Erbe, 1. Double play—Tuttle to Chandler. Left on bases—Caltech, 6; Whittier, 7. Passed balls—Petrulas, 2. Balks—Bliss, Hedrick.

Tech Plays Host To League Tennis

Friday and Saturday the courts will be the scene of the tennis circuit's biggest shindig of the season. Each of the League's five schools will toss four singles and two doubles teams into the fray as the annual Tennis Tournament gets under way.

Redlands and Oxy Favored
Xanthos of Oxy and Richards of Redlands immediately hove to view as favorites to cop the singles crown, and the Bulldog's hopes rise even higher as Richards-Grayhill appears to be the top team on the doubles totem pole.

Ray Palmer, John Holmgren, Ed Alexander and Jim Suhuer will pound the pill for Tech as these same four play in both singles and doubles events.

Bevoes May Shine
Oxy and Redlands seem to have a corner on the ace solitaire players, but Tech's hopes will never fade with old Rompin' Ray Palmer still in the fight. He's capable of beating any other man in the conference, and if he has a good day he might do it.

Still it's in the doubles where Johnny Tamlis' boys may come barreling through. Palmer teams with John Holmgren in the racket events. These boys have developed immensely throughout the season and play consistently fine tennis. Don't be surprised to see them upset the Bulldog favorites.

Team Loses Pomona Match
The squad dropped its last conference match of the season to the Sagehens Saturday with a 6-3 count. Holmgren, Alexander and Palmer looked good as they accounted for Tech's tallies.

Results of Pomona match:
SINGLES
Young (P) def Palmer (T), 6-2, 7-5; Holmgren (T) def Woolsey (P), 6-2, 0-6, 7-5; Alexander (T) def West (P), 4-6, 6-3, 8-6; Mohler (P) def Nobles (T), 6-4, 6-1; McCloskey (P) def. Suhrer (T), 6-3, 6-3; Morelock (P) def. McGrane (T), 6-4, 6-1.
DOUBLES
Palmer-Holmgren (T) def. Young-Woolsey (P), 6-4, 6-3; McCloskey-Mohler (P) def. Nobles-Suhrer (T), 6-2, 6-2; Ayres-Seely (P) def. Hamilton-Caldwell (T), 6-4, 6-2.

Conference Swimming Meet
1—300-yard medley relay, won by Tech: Montgomery, Palmer and Curry. Time, 3m. 20.6s.
2—220-yard free style: Scoles (O), 1st; Amold (R), 2nd; Reed (R), 3rd; Dixon (T), 4th; Houser (T), 5th. Time, 2m. 27.0s.
3—50-yard: 1st, Corsby (O); 2nd, Jorgensen (P); 3rd, Marks (R); 4th, Woodward (O); 5th, Barry (P). Time, 24.6s.

Edge Redlands In Conference Swim

Two Records Fall

Montgomery and Houser Smash Two Frosh Records By "Bermuda Bob" Crichton

The Tech swimming team at Oxy last Saturday finished the season in a burst of glory by edging out Redlands to take second place by the close score of 44 to 38, Oxy winning with 58.

Techmen Medley Champs
Jay Montgomery took his lap by a few strokes, "Butterfly Bill" Palmer piled up his usual spectacular lead and Joe Curay finished in style for a medley first. Dixon and Houser placed in the 220 yards, McKenna and Scull placed in diving and Dixon placed in the 100 yards, giving us seven needed points.

Jay Smashes Frosh Mark
Jay Montgomery swam a sensational 150-yard backstroke, taking first and cutting 1.1s. off the frosh record. Hall and Harris placed for needed points.

Palmer Churns 200-Yard
"Butterfly Bill" put on his sensational show by taking first in the 200 breast by about six feet.

Houser Demolishes Record
"Breathless Brad" Houser took a third in the 440 which didn't seem sensational beside Oxy's seven-year men, but the watches showed that he cut an unbelievable 3.5 second off the old frosh record for a 5:49 min. new one. Curay took a close fifth.

Great Team, Great Coach
Everyone on the team did a great job, and especially Bob Merrick, who deserves Tech's appreciation for his work and spirit.

4—Diving: Hunnell (O); Olsen (O); Thompson (O); McKenna (T); Scull (T).
5—100-yard, free style: 1st, Crosby (O); 2nd, Jorgensen (P); 3rd, Dixon (T); 4th, Amold (R); 5th, Bittleston (O). Time, 55.6s.
6—150-yard backstroke: 1st, Montgomery (T); 2nd, Reynolds (R); 3rd, Turley (W); 4th, Hall (T); 5th, Harris (T). Time, 1m. 52.6s. (New frosh record Tech by 1.1s.)
7—200-yard breaststroke: 1st, Palmer (T); 2nd, Lynn (R); 3rd, Titus (P); 4th, Clark (O); 5th, Gregory (P); 6th, Boicourt (T). Time, 2m. 44.5s.
8—400-yard free style: 1st, Scoles (O); 2nd, Amold (R); 3rd, Houser (T); 4th, Marks (R); 5th, Curry (T); 6th, Dixon (T). Time, 5m. 33.5s. (New frosh record by Houser by 3.5s.)
9—400-yard relay: Won by Oxy; Pomona second, Tech third, Redlands fourth, Whittier fifth. Tech: Mitchell, Eschner, Harris, Murphy. Time, 4m. 2s.

Golf Tourney Friday At Pomona

Bruins Swamp Tech Golfers
Tomorrow at 9 a.m. at Pomona's home course, Rancho Don Lugo, the Conference Golf tournament gets under way. The winner of this match will gain possession of the coveted Conference Golf Trophy.

Chance to Bag Trophy
Some of the best golf of the season should be forthcoming, as each of the conference schools will enter its full squad in the play which consists of 36 holes medal play. The school which cards the four lowest scores will gain the trophy. If Harrington, Revay, Douglas and Moore all score good rounds, Tech will have an excellent chance to defeat the favored Pomona squad.

Since the four low scores are taken to represent each school, Barrows, Benton or Bennett could help considerably by turning in a hot round. The second round starts at one in the afternoon.

Gardener Leads Uclans
Last Friday the Beavers journeyed to the California Country Club and slouched back after an unenjoyable afternoon's exercise. Paced by Bobby Gardener, who spent some time in the Army playing with Sam Sneed, the UCLA aggregation had little trouble in swamping Tech, 53-1.

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Tennis: Conference Tennis Tournament here at 9:30 a.m.
Golf: Conference Golf Tournament at Pomona, 9:00.

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Talkin' It Over

With Stan and Paul

Breaking away from Miriam's arms after a mighty struggle, we managed to gain the protection of Hustlin' Hal's Inner Sanctum where we were confronted by the master himself. Offering us one of his famous cigars, the Hustler immediately put us on guard, for we knew something big was up.

Refusing the Corona-Coronas to maintain our score on the Purity Test, we spent the next few minutes on the edge of the chairs listening to the sensational news of the impending diamond drama on May 28.

Fleet Feet—Big Brains

It may be just another Wednesday to most of you, but out Tournament Park you'll be the classic battle of the Grads vs. the Varsity. Normally this would be a battle of youth and speed against brains and experience, but this year's contest should be interesting anyhow.

We Mean Hairy

Word has it that you shouldn't miss this only opportunity to see "Chuck" and the "Chucker" boot it around the short stop spot. Confidentially Auerback tells us that the Varsity men might as well turn in their sling shots and send Norman back to the Three I League; because the Grads, paced by the poor man's Bluebeard, Hairy Lass, are gunning

YOUR CAMPUS—

(Continued from Page 2)

A third project is the development of a theory for the determination of the rate of settlement of soft soils when vertical sand drains are used, and the

for a win. It'll be the greatest thing since the introduction of motels so we'll see you there.

Trap Trouble

Following the WCTU, who have joined us in our crusade against Demon Rum, we came across a despondent hulk of a man weeping silently to himself in a corner of the Skip Inn. He kept mumbling about birdies and eagles. Seeing our chance to spread the gospel we took him in tow. The story he unfolded was truly a tragic one.

Just a Nibble

His name, we learned later, was Ed Revay and he had just returned from a golf match with the Bruins. Playing on unfamiliar grounds against outstanding golfers, the Beavers could do little but gnaw on the tees. Ed didn't mind his opponent's birdie on the first hole, but when the Uclan was three under par at the second pin, Ed decided to finish out with a heavy putter. His 114 was low for Tech.

Conference Finals

However, the Techsters should outclub the Conference this Saturday at the finals to be held at Chino.

checking of this theory by experiments. Another problem is a comparison of the results of field setting with theoretical values.

Materials Testing

In the Materials Testing Lab, most conspicuous is the Universal type testing machine, which is capable of exerting 160,000 pounds of tension or compression. Also in the lab are hardness testing machines of various types, machines for testing torsion, impact and fatigue of metals, and various equipment for testing cement and concrete.

The principle project going on at present in this lab is the determination of the strength of bolted joints in green timbers. The specifications generally used require that materials fabricated in this manner be assigned a strength value two-thirds of that for joints bolted dry. The work will determine whether or not this factor is excessive.

In the room just north of Materials Testing work is being done on the thermal conductance of soils—on their value as insulation and their resistance to frost penetrations.

Long Term Programs

A long-term program is the developing of methods of test for shearing resistance of soil. It is being carried on as a co-operative project in 22 colleges and government agencies all over the country, under the direction of a

STUDENTS TO PAY—

(Continued from Page 1)

charge. If, however, the student calls on Dr. Kremers at his Pasadena office or requests a house call, either to the Student Houses or off-campus, he will be charged the usual fee for these services, since they are not covered by the plan. Any consultation or treatment by the doctor at his on-campus office, however, is without cost.

Full-Time Nurse

The Institute also provides a full-time nurse, Mrs. J. D. Johnson, to supplement the services of the Institute Physician, and, in addition to assisting Dr. Kremers during his afternoon office hours, she may be requested to make house-calls either at the Student Houses or places of residence of students living in Pasadena, without charge. If, however, she recommends the calling of a physician, unless the student states that he chooses to call in a doctor of his choice, she will refer the case to the Institute Physician, whose call will be at the usual rate.

committee of the American Society of Testing Materials. As chairman of this committee Prof. Converse, (who, incidentally has just recently been appointed Professor of Soil Mechanics) has had a considerably larger part in the program than just the work at Tech.

Shauer, Co. Win

Tech's only Fresno Relay entrant this year, Ken Shauer, teamed with Parker, Wachtler and Bourland of the L.A. Athletic club to score a double victory. Ken and his mates clicked off a 1:26.2 880 and a 3:12.8 mile, while SC was annexing the meet crown.

UCLA placed second and in the JV division, LACC decisively nudged Compton for the title.

LEAGUE STANDINGS

BASEBALL		
	W.	L.
Whittier	7	0
Redlands	4	2
Oxy	3	4
C.I.T.	2	5
Pomona	1	6
GOLF		
	W.	L.
Pomona	6	0
C.I.T.	4	2
Whittier	2	4
Redlands	2	4

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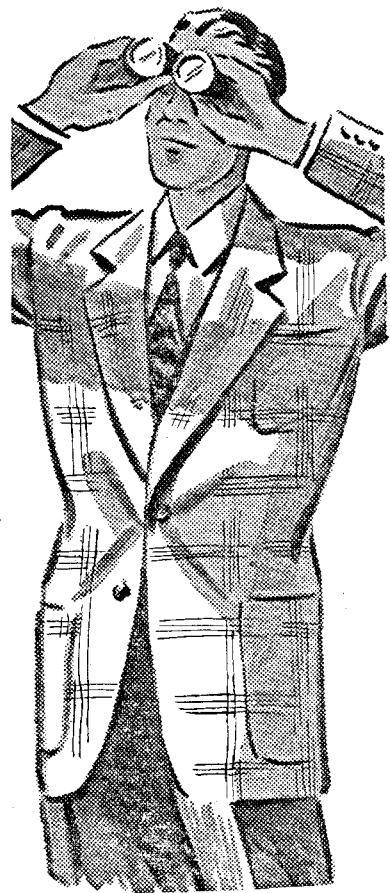
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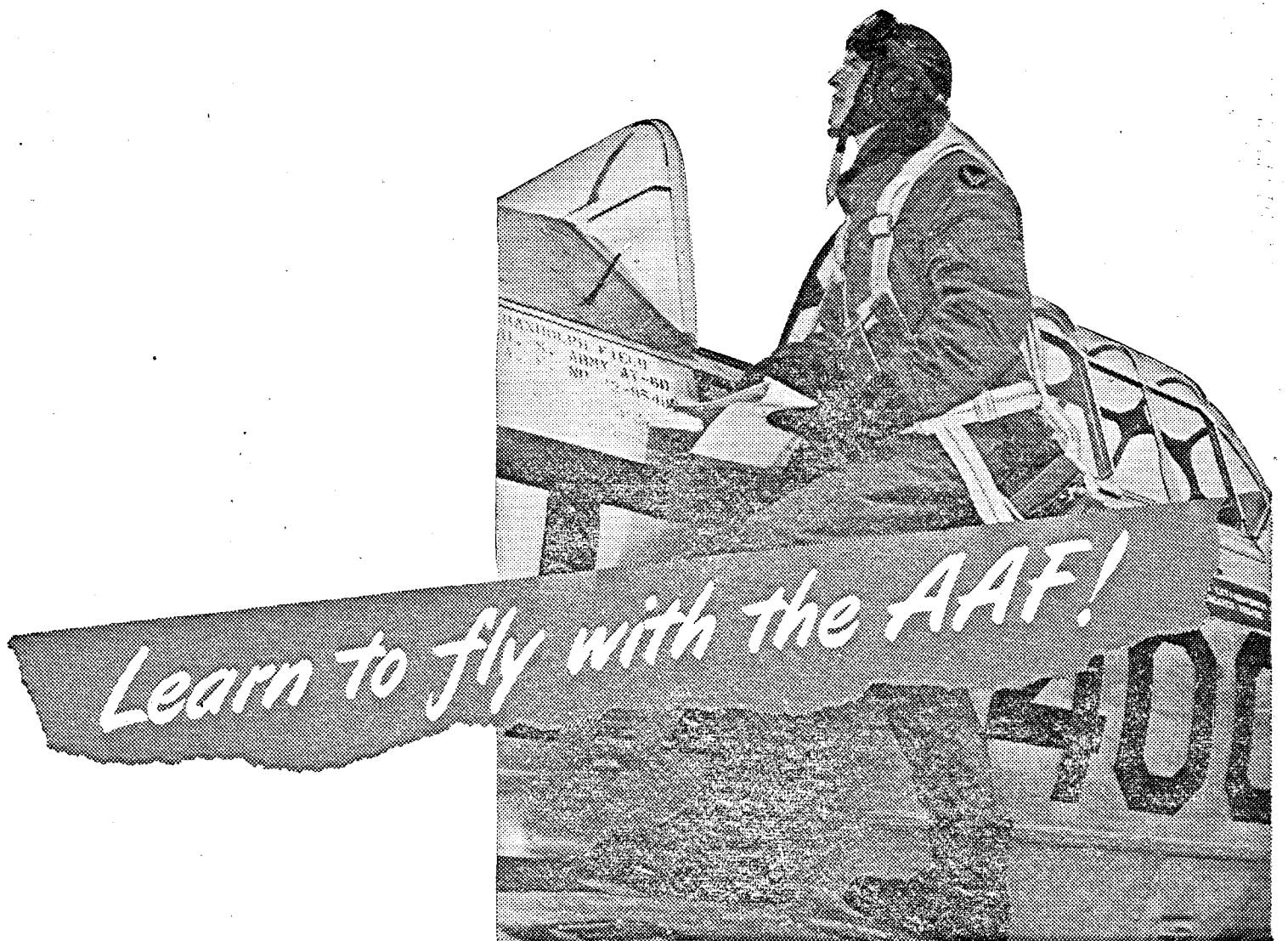
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The Air Forces have reopened Aviation Cadet training to qualified civilians 18 to 26½ years of age. Men selected for training as pilots under the terms of the program must be single and have had at least two years of college education, or the equivalent, in an accredited institution. Upon successful completion of the course, graduates will be commissioned Second Lieutenants, Army of the United States, and assigned to flying duty with the Army Air Forces.

Reactivation of the Aviation Cadet program is typical of the AAF's continuing effort to provide selected young men every opportunity to earn advancement. Cadets who win their wings as today's pilots will be the same kind of men who, in wartime, built and manned the world's mightiest air arm.

Make your plans *now* to get in at the start! By applying immediately after graduation, you can take your qualifying examinations and enter the July 1st class, or—if you want a summer vacation—you can take your examinations now and be ready to enter the class beginning October 15th. Further information is available at AAF Bases, U. S. Army Recruiting Stations, local Civil Air Patrol headquarters, or by writing to the Commanding General, Army Air Forces, Washington 25, D. C.



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FRONT BURNER—

(Continued from Page 2)
Lack of response forced the Fox chain to return to American products.

This reviewer saw last week's double bill—"Katia," a French opus starring Danielle Darrieux and John Loder, and "A Yank in Rome," produced in Italy, with both Italian and English dialogue, and was well entertained.

Johnson Office

Neither of these pictures, contrary to popular opinion of Romance-country films, would have given the Johnson office cause for alarm. Playing under Hollywood rules, under the extreme handicap of language difference, each surpassed most U. S. efforts.

"Yank in Rome," a postwar product, featured an exceptionally talented and beautiful actress, who is probably on her way to Hollywood by now. Best of all, the plot was plausible; did not sacrifice its "punch" for an outworn happy ending. Too bad it didn't pay. —LEN.

Classified Ads

THESIS, term papers, manuscripts typed. Twenty years University of Washington. Miss Corinne Babcock, 1028 Mission St., South Pasadena. (SY. 9-2462).

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HEALTH FUND—

(Continued from Page 1)
its limited resources cannot attempt complete coverage.

That the Fund, in spite of a financial basis and provisions which would make any honest insurance man throw up his hands in horror, has worked as well as it has so far can largely be attributed to the excellent administration of it by Drs. Borsook and Kremers.

Unused Funds

Excess funds are kept in the fund and deposited at interest, and may be called upon later. Through such funds, the plan has built up so far a reserve approximately half as large as is necessary for stability. When the necessary "cushion" has been built up, it is probable that the scope of the plan will be expanded. Meanwhile, Caltech students can be assured that, without exception, they are getting far more coverage at less cost than students at any Pacific university, and much, more than would be possible under any commercial plan.

FACULTY JURY—

(Continued from Page 1)

Tom Stix, Vince Honnold, Sage Burrows, Roger Chambers, and Warren Marshall, chose from the eight princesses their dates for luncheon in the student houses.

Campus Brewin's

Blacker began its weekend social program with an exchange. This time it was the jolly bunch of girls that comprise the Alpha Gamma Delta sorority at UCLA. Somehow these girls began the evening with the erroneous impression that Techmen did nothing but study. However, this idea was soon corrected. The girls gave out with little giggles of glee and squeals of joy when they heard three of their sorority songs being sung out on the terrace by the house quartet. These songs were furnished through the courtesy of the USC chapter of the same sorority and relayed through Alex Andreas, Blacker liason on that campus.

For Better or Nurse

Fleming whiled away Friday evening with an exchange also, the members of the opposite sex were nurses from the Huntington Hospital and campus secretaries. The affair came off with the usual standard of excellence.

Dabney Dipsomaniacs

Dabneymen are not ones to accept the Scripps remark about their milk drinking lying down. In fact, this has resulted in what should be one of the more interesting athletic contests of the

year, since Dabney has challenged the Scripps student body to a chug-a-lug contest with milk. It should be close.

Roll Out the Barrel

Last Saturday night, Monterey Park rocked to the raucous Ricketts-Blacker barn dance. In a hard fought contest with each athlete, muscles rippling, straining at the bottle, Blacker won the crew race. As a consolation award the brake drum was returned to Ricketts. Beertender Hoff was put in charge of it, but when it was casually placed behind a chair, Hoff demanded, "Where's the brake drum?" Upon finding it, he avoided a repetition of this by tying it around his neck with a wire.

The Dabney-Fleming affair was equally successful and many Ricketts Rowdies were in attendance. Dabney forged through to win the crew race while Sage Burrows made quite a spectacle of himself doing the polka with Peg Buttress.

Worried

Handsome Bill Woodson has found out that his "Queen"—who was just selected at the contest Friday—is going steady with an Oxy man. The Oxy man, who is

very big, short tempered, and equipped with muscles, is not overjoyed about Bill conducting his girl to the big Formal.

Tea for Quite a Few

Scripps was the scene of a pleasant tea dance to which a number of Techmen managed to get invited. Kirk Lewis latched on to a fine look number—Sookie Jackson of Browning.

Social Notes

On the assumption that the general level of this column has been such as to displease some of our readers, we are contemplating a new policy. A sample follows:

Len Herzog was seen up at the Presbyterian Church Sunday. He said the sermon was swell (Colleen, too—Ed.)

Bob Hepe just bought a new slide rule and is the envy of all the fellows in his alley.

Ricketts just had an exchange with Scripps. They took several cases of orange juice and went out to study in their library.

Frank Evans, WCTU representative on the Tech campus, recently stated that the students here are so interested in their studies that his organization has little to do.

Tom Tracy has just been elected prexy of the Philisophical Contemplaters. They sit around and think on Saturday nights.

SHEEPSLAX



The bright Beaver who's wearing these won't have to be embarrassed if the front door slams shut while he's out getting the morning milk. These are tailored to withstand the glare of publicity with a T-shirt top and trimly cut slacks of Sanforized Oxford cloth. Gripper fasteners and an elastic waistband are added attractions and you get the whole works for just 3.85

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Du Pont Digest
Items of Interest to Students of Science and Engineering

Explosives—an essential industrial tool

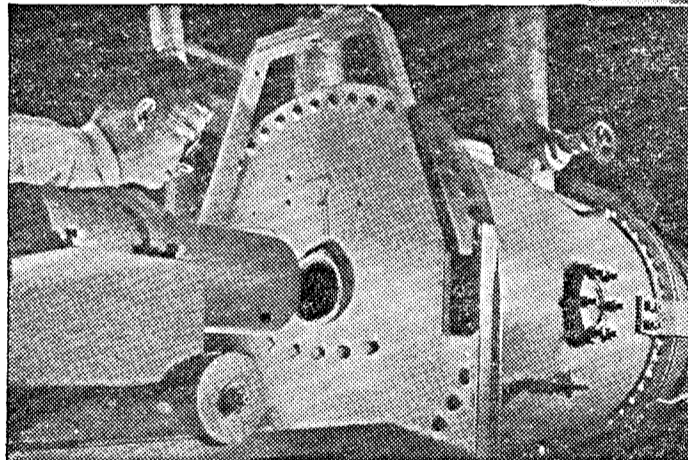
INDUSTRIAL explosives are as much of a yardstick of industrial progress as sulfuric acid. They are involved in the fabrication of nearly all the products used by man. This year the United States will use over 500 million pounds of industrial explosives.

The technical problems that confront the explosives industry are many and varied. A measure of this is the fact that the Du Pont Company manufactures about two hundred dynamite formulations, each intended to do a different job, from the slow heaving action of blasting coal to the rapid, violent shattering necessary for a hard ore. Ranging between these two extremes are a large number of intermediate grades, including explosives especially formulated for agricultural work, seismic prospecting for oil, submarine blasting—right down to the tiny charge used in an explosive rivet.

Studies in Laboratory and Field

One of the first industrial laboratories for chemical research in the United States, the Eastern laboratory of the Du Pont Explosives Department has nearly two hundred chemists, engineers, physicists and assistants. There, methods have been developed for measuring the power of explosives, the degree to which they shatter or pulverize various materials, their water resistance, their safety characteristics when exposed to shock or flame, the composition of the gases they produce, etc. As a result of studies of the influence of various factors on dynamite performance, it has become possible to formulate an explosive to meet practically any blasting condition.

In keeping with these improvements, the application of explosives has reached a new level of efficiency. Technical service men, usually mining engineers or



Frank A. Loving, Chemical Engineer, Texas A & M '41, prepares to fire an explosive charge into a chamber of methane or dusty air to test safety under conditions found in coal mines.



A. L. St. Peter, Princeton '37, supervisor blasting operation Susquehanna River Project, lowers a 5 1/2 inch "Nitramon" Primer into one of 600 drill holes preparatory to blasting a pipe line ditch.

civil engineers, aid consumers in the selection and use of explosives. They also work closely with research men in solving unusual problems encountered in the field.

Research—Path to Progress

A few of the results gained through research are: (1) lowering of dynamite freezing points by nitrating ethylene glycol along with glycerol to diminish the hazards of thawing frozen dynamites. (2) Production of less hazardous dynamites by substituting ammonium nitrate partially for nitroglycerine, in spite of the greater hygroscopicity and lesser explosive power of the former. This resulted in dynamites less hazardous to manufacture and use. (3) Introduction of "Nitramon," a blasting agent containing a high percentage of ammonium nitrate as its major ingredient. It is equal in strength to the most powerful dynamites commonly employed and yet is by far the safest blasting agent available. (4) Development of explosives with a minimum of noxious gases for use in confined areas. (5) Numerous improvements in the composition, manufacture and design of the blasting caps which set off the main charge.

Aside from these developments in explosives and blasting supplies, there have been many accomplishments in chemistry and engineering associated with such projects as the oxidation of ammonia to nitric acid; manufacture, granulation and drying of ammonium nitrate; substitutes for nitroglycerine and ethylene glycol dinitrate, concentration of nitric and sulfuric acids, and a host of other subjects.

Questions College Men ask about working with Du Pont

WHAT ARE THE OPPORTUNITIES FOR RESEARCH MEN?

Unusual advantages in facilities and funds are available to men qualified for fundamental or applied research. Investigation in the fields of organic, inorganic and physical chemistry, biology, parasitology, plant pathology and engineering suggest the wide range of activities. Write for booklet, "The Du Pont Company and the College Graduate," 2521 Nemours Building, Wilmington 98, Delaware.



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