

"Live Wire" Smashing Success

CALIFORNIA TECH

California Institute of Technology

Volume LIV

Pasadena, California, Thursday, May 14, 1953

No. 27

Junior-Senior Prom May 22, Roosevelt Hotel, big scene

Carroll Wax's band to fill air of Blossom Room;
Tuxes, low-cut gowns, and flowers in order

The Blossom Room in the Hollywood Roosevelt Hotel will be the scene of the Junior-Senior Prom Friday evening, May 22. From 9:00 to 12:30 p.m. Techmen and their dates will dance to the musical strains of Carroll Wax and his band.

According to those in charge the dance is formal although the ratio of tuxedos to dark suits was approximately 50-50 last year. Refreshments will be served at the Blossom Room whenever Techmen find time to stop dancing. Flowers are definitely in order for this occasion, so order soon.

The programs are very attractive this year and consequently are quite expensive, so don't ask for one unless you definitely plan to go. They are available from John Lloyd, Tom Janssens, Fred Garrison, Ed Stofel, and Don Hook.

Students day chairman needed

The job of chairman of the Student Committee for Students' Day must soon be filled by appointment of the Board of Directors. Anyone interested in this job should see Moose Henderson, Ricketts 17, or Jack Behnke, Fleming 61, immediately for a full description of the duties involved.

Day Falls

Students' Day falls near the end of the first term or the beginning of the second term; the exact date is decided by the student chairman together with the faculty chairman. The work is, in general, that of coordinating the efforts of both students and faculty in putting on a good show for the 1000 or so high school seniors — prospective freshman applicants — and their teachers who will come from about 100 high school in a 50-mile radius. The president takes care of getting them here, but it is entirely our job to send them home with a good impression of Tech and a good idea of what goes on here.

Close Work

This involves close cooperation with the faculty chairman at all times, and consultation with many others in all departments. One big job is that of requesting, persuading, or cajoling about 150 people — undergrads, grads, and faculty — to donate a half day's work serving as exhibitors, guides, speakers, and in other capacities.

Committees

The chairman, of course, selects a committee to assist him much as possible, but he is responsible for the whole works, and must take care of many details and loose ends himself.

Rubenstein wins McKinney prize contest

First prize of \$75 went to Irwin Rubenstein in the 1953 McKinney prize contest which culminated last Friday morning in 206 Dabney. Bill Dibble won second prize (\$50) while Swaroop Bhanj Deo and Mike Lourie each received awards of \$10.

Panel of experts

The theme for this year's contest dealt with "The Meaning of Courage." The contestants presented their views on courage orally last Friday to a panel of judges consisting of Mr. Lloyd Lyman, of the Humanities Library; Dr. Frederick Toles, of the Huntington Library, and Dr. Dan Piper, of the English department. Professor MacMinn presided at the contest.

History

The McKinney prize was established at the Institute in 1946 by Samuel P. McKinney, M.D., Los Angeles, as a memorial to his mother.

Preparation for the contest begins way back in February when the theme for the year and the required reading are announced. The participants, limited to juniors or seniors, must read all the assigned books and present a written paper on the chosen theme by the middle of April. During the final leg of the contest each man who is still in the running must prepare his paper for oral presentation, which in some cases involves shortening it drastically.

Sex bibliography available now

Because of the widespread interest in the "Y" sex lectures given by Dr. Mindlin last term, he has recommended a bibliography to those desiring further information on the subject.

The following books are available to students at the Office of Student Counseling, 119 Throop: Henry A. Bowman, **Marriage for Moderns**; Herbert A. Carrell, **Mental Hygiene, the Dynamics of Adjustment**; Eustace Chesser, **Love Without Fear, How to Achieve Sex Happiness in Marriage**; Robert Dickinson and Lura Beam, **A Thousand Marriages**; Havelock Ellis, **Sex and Marriage**; Donald Porter Geddes and Enid Curie, **About the Kinsey Report**; Ernest R. Groves and Gladys Hoagland, **Sex in Marriage**; Drs. Hannah and Abraham Store, **A Marriage Manual**.

Lynam, Roberts, Lindfors are new class presidents

Plasma synthetics is lecture theme

"Emergency Substitutes for Blood Plasma" will be the subject of tomorrow's Friday Evening Demonstration Lecture to be given at 7:30 p.m. in 201 Bridge by Dr. Jerome R. Vinograd. A large amount of research has been done on this subject with gratifying results.

When a person loses a large amount of blood fluid through bleeding, burning, or otherwise, these substitutes can be used to increase the volume and maintain the osmotic pressure of the blood.

Commercial Contenders

During the First World War it was found that most colloidal solutions would do this when added to blood, but unfortunately most of them had other harmful side effects. At present there are four main contenders for substitutes, which are: PVP (a trade name), which is a soluble, synthetic plastic; gelatin and oxypolygelatin; and dextrane, which is a soluble polymer of glucose. Even now dextrane is being used in Korea.

These plasma substitutes are in no way substitutes for whole blood; all they do is increase the volume and osmotic pressure of the circulatory system.

Dr. Vinograd will explain these substances in detail. He will tell of the research going on here at Tech, of which he is in charge, on the substances gelatin, oxypolygelatin and their derivatives.

Hot Rivet

Copy deadline is May 29—
start writing!

"Live Wire" makes big hit; Ryle outstanding as heel

Even though it only ran four days on Broadway before falling flat on its face, "The Live Wire," with its outstanding Caltech cast could probably have run a full week in Culbertson Hall to jam-packed student audiences before succumbing to the inevitable incapacitations ("?"—Editor) of the cast party.

In the title role and surprisingly well cast was Bob Ryle, the character who comes into a happy group of actors, out of work in a quonset hut on New York's East Side, and who finally almost breaks up the group. This is the only part of the play with any real character interpretation possible, and Bob did at least as

Patraw, Wagenseller, Ryle will be class vice-presidents for '53-'54

Bob Lynam, Don Roberts and Paul Lindfors are the new presidents elected by the senior, junior and sophomore classes for next year. Their victories were announced after the class elections last Thursday. Lynam won his office in the runoff election held Tuesday for contests which were not decided by a majority vote by defeating Fred Garrison. Other elections decided in the Tuesday runoffs were won by Bill Autrey and Bruce Kaiser, the new senior Board of Control members; Tom Bergeman and

Garden Party!

Get on the best side of your favorite gal. Take her to the Garden Party to be held this Sunday in Dabney Gardens between 2:30 and 5:00 in the afternoon. Music by LaVerne Boyer. Informal attire.

Duwez leaves on European mission

Dr. Pol Duwez, professor of mechanical engineering at Caltech, left last Friday on a five-week mission in western Europe for the United States Air Force. He will help set up a new program under which the Office of Air Research and Development Command will sponsor basic research by western European scientists.

He will go first to Brussels, Belgium, where an office was recently established to administer this program, and will then travel through France, Italy, Holland and England to inspect scientific and technical institutions which will participate.

A graduate engineer of the School of Mines in Mons, Belgium, Professor Duwez received his D.Sc. degree from the University of Brussels. He joined the Caltech faculty in 1942.

Art Takido, the soph treasurer and athletic manager for next year, and frosh Board of Control members.

Vice-presidents

Vice-presidents chosen were senior George Patraw, junior Dick Wagenseller and sophomore Bob Ryle. Wagenseller and Roberts were unopposed. The Seniors for next year chose Louis Kilchenman secretary-treasurer. Junior secretary will be Gary Boyd, with Benji Rosen handling the money. Bill Purves will serve as soph secretary, and Tom Bergemann as treasurer.

Athletic Managers

Tom Bergeman as treasurer. Athletic managers were Jack Chow, senior; Bob Wynn, junior, and Art Takido, soph. New Junior Board of Control members are Al Helgesson and Vince Marinkovitch, who were unopposed. The seniors elected Bill Autrey and Bruce Kaiser, and the sophomores Howard Berg and Lyman Fretwell.

Pre-registration cards next week

Current freshmen who will be sophomores in September should pick up pre-registration cards and complete them between May 18 and May 22.

Upperclass Advisors

All next year's juniors and seniors must pick up their pre-registration cards and get them signed by their assigned advisers before they fill them out with their first term schedules. All cards must be returned to 119A Throop not later than next Friday, May 22.

Quitting Alma Mater??

Any student who does not expect to return to Tech next fall should leave that information with the Registrar.

Report Changes

Anyone who wishes to change a course or section must report said change to 119A Throop before the end of the term. If any changes in schedule are necessary on any student's program because sections are full or for other reasons, the student involved will be notified whenever possible.

(Continued on Page 8)

Merchant of Death

In line with its expressed purpose of printing all the news that's fit to print and as much of the rest as it can get away with, this newspaper finds it necessary to make a shocking disclosure. We have amidst us a man (or more probably a demon, if not The Arch Fiend himself), who for the sake of a few paltry million, is willing to cause the sudden and untimely hydration of all of us.

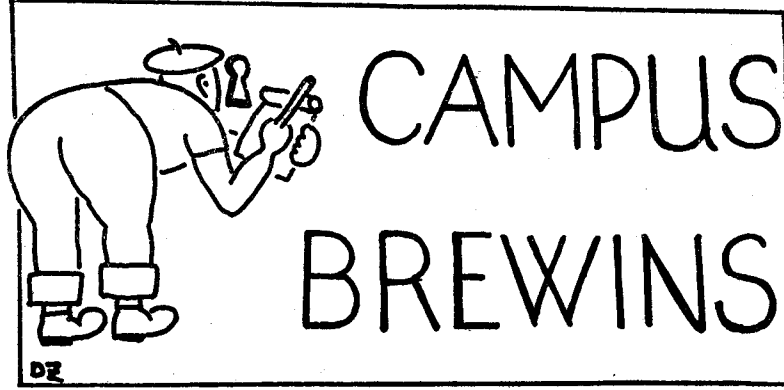
This Merchant of Death has been seen going from house to house carrying his deadly ware in a huge box, and selling to all comers. Not satisfied with the increase in warfare that a plentiful supply of munitions naturally promotes, it is rumored that he is stirring up old feuds to increase the use of his inhuman product.

Collective Bosom

We must act **now**, before we are all washed down the nearest sewer in the greatest flood since biblical times. If we do not rip this viper from our collective bosom, we are doomed. As the voice of the innocents who are threatened by this infant Krupp dynasty springing up among us, we demand that this fiend be placed before a wall and drowned by a barrage of his own weapons! Only in this manner can we return the balloon and the other members of its species to the uses for which they were designed.

The following organizations, composed of our leading citizens, have already endorsed the above sentiments.

- The Society for Peace.**
- The Society for More Peace.**
- The Society for Still More Peace.**
- The Bathless Groggins Fan Club.**
- The California Committee for the Conservation of Water.**
- The Society for the Promotion of Birth Control.**



Christine among the Elizabethans

—“He saw more wounds than one, and fled.”

The Passionate Pilgrim—Christopher Marlowe

Techmen

Don Roberts, having once been given the straight clue about the birds, bees, and flowers, has decided to do some private research. In two small boxes outside his window, he carefully cultivates various specimens from the vegetable kingdom. When asked about the sudden interest in Biology, Roberts muttered, “These early stages are a bit of a grind, but that crazy post-graduate work.”

Work

Ricketeers who are up on their Freud were not caught un-awares by the announcement of

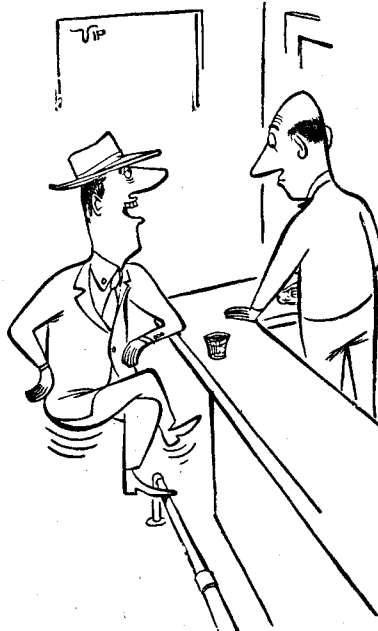
Don Emerson's betrothal. A man who spends his spare time climbing around in caves, can't expect to keep his comrades guessing as to what's on his mind.

like

There were few students who did not realize that the dramatic activity on campus last week end was only a necessary preliminary to the cast party which followed. A pleasant touch was added by the presence of an English biologist with bowler, beard, and maternity dress who kept up an incessant conversation with a (we hope) imaginary fetus inside. Sort of a new twist on the Bergen-McCarthy set up. The strain of acting seems to have been heavy on Bob Ryle, who had to be carried home by three strong men at the end of the evening.

Trojans

Ricketts men have devised a



“I'm going to hang around until you give me an extra dash of Angostura*!”

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MAKES BETTER DRINKS

* P.S. The best Manhattan-mixers and Old Fashioned-fixers say it's Angostura that brings out that just-right flavor. Same goes for soups and sauces!

California Tech

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unique method of introducing peace into the world. They are achieving this end by keeping the three other houses so busy ducking balloons fired by means of their new catapult, that the other houses have no time for aggressive thoughts of any sort, while Ricketts is too busy firing balloons to have time for aggression. The old problem of “Who guards the guardians?” finally solved.

Up in the Air

Tom Stockebrand, alias Jack Armstrong, the All-American Pilot, suffered a slight change in plans when he landed in a rather moist dry like in an airplane containing himself, Bryant and their dates. No one was hurt except the plane and the only effects seemed to be good ones since they weren't able to get their dates back until the next day.

Junior Birdman

Is it true that Don Tiger Sel- (Continued from Page 4)

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MEZZANINE

by Benzadrine

Undaunted by paltry zephyrs of garlic-scented wheezings from the direction of New Joisey, the Mezzanine continues this week with a review of Mr. Roberts, now drawing big hairy crowds at the Playhouse; and if we seem inaccurate this week, it is only because this paper has to go through the U.S. Mails.

Title Role

Alex Nicol, in the title role, was understudy to Henry Fonda in the New York cast, and does well in a role which is the crux of every bit of action in the play and is still the only straight part. It's a tougher part than most people realize at first, for all the humor, plot, and characterizations depend in great part in the realness of Mr. Roberts' character.

Comedians

The two big supporting roles offered less challenge to sheer acting ability and gave great opportunity for straight slapstick comedians; Lewis Martin as Doc and Robert Nichols as Ensign Pulver are bringing the house down every night in the hilarious situations depicted originally in Thomas Heggen's best-selling novel.

Only a few of the juiciest passages have been deleted from the original in the stage production, and the four-letter words fly thick and fast in a situation which finds them perfectly natural and not at all repulsive, even to the most Pasadena crochety old matron.

Potential Plot

The plot concerns a cargo of (Continued on Page 5)

25 Years—Serving Techmen Same Location
Carl's Caltech Barbers
On California St. Near Lake

LETTERS

Dear Editor,

Sam and I are to be married in June, and we have been saving for a glorious week at the Santa Barbara Biltmore. About the time Sam wrote in for a list of their rates, Stocky began advertising his truck in the local Gazette: "For Rent—Love Nest on Wheels, with all the comforts of home. Ideal for Honeymooners." Now I know you're familiar with this bulbous apparition (it's visible for three miles even on smoggy days) so I don't need to remind you how the villagers would leer at us in our travels. But when I raised delicate eyebrows to Sam, he said: "But darling, just think. We'd have compound low and dual rear wheels!" and I swear the amorous gleam in his eyes became glazed with a thin film of Triton 30. Apparently Mama hasn't told me all, because I can't seem to figure out where compound low fits into honeymoon bliss.

Don't misunderstand me—I still adore Sam, and I'm trying to become resigned to his plans. In fact as I write this I'm sipping a glass of ditto fluid and sighing "C'est La Force" (Literal translation: so help you god). Any suggestions?

Claribel

For Benzadrine of Mezzanine A GUILLOTINE!

A Mr. Walter W. Lee (the name may be familiar) has re-

cently supplied me with a copy of "MEZZANINE," in particular the column attempting to review Entertaining Comics' new, year-old-next-month magazine, MAD! The review naturally interested and excited me, and precipitated this humble comentary.

Mr. Benzadrine!

Mr. Benzadrine, might I suggest that, if ever you again become seized by this weird mania under the spell of which you envisage yourself as a critic, you first arrange for someone to teach you to READ, and second make positive that you know what the hell you're talking about!

Bombastic

It is obvious that you read a meager sampling of MAD's five issues when your glasses were cracked—or you were—or many of the bland and bombastic statements you made would have been more accurate.

1) "interview with the publisher, G. 'Melvin' Somebody-or-other." These are YOUR words, proving you must have left your INTELLIGENT head home the morning you read No. 5. The name, may I quote from the magazine, is "WILLIAM M. GAINES, alias MELVIN." Perhaps the whole thing would make better

sense to you, to your readers, and to those in search of TOTAL enjoyment if you had shifted your eyes to the bottom of the page upon which you could easily read: "Mad, June-July, etc. . . . William M. Gaines, Managing Editor. Harvey Kurtzman, Editor." This is official, legalized terminology, FACT, and means simply that not only does the MAD! staff enjoy satirizing life and literature in general, not only comics in general, but can also enjoy a hearty belly-laugh at ITSELF, too. If Bill Gaines didn't write this himself, he at least proof-read it, and oversaw the creation. (The portrait, I may say, is a particularly good likeness, too!)

2) ". . . is the combined efforts of four great cartoonists—Elder, Wood, Davis, and Severin—each of whom does one set of panels. . . ." This is accurate SO FAR AS YOU'VE GONE. But don't forget that little "Harvey Kurtzman, Editor" squib. At E. C. that little never-read stick of

type is worth its weight in 24-karat plate. Harvey Kurtzman, my dear uninformed, microcephalic little critic, happens to WRITE THE STORIES THAT APPEAR IN MAD! Not, I think you'll agree, the man to leave out of a list of the contributors, is he??? Besides that, Harvey does the layouts for each story and very often EACH INDIVIDUAL PANEL, to insure proper totality of effect. Harvey's a really great comic-artist in his own right, as some of the MAD! cov-

(Continued on Page 4)

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LETTERS

(Continued from Page 3)
 ers will point out. His MAD! No. 1, 3, 4 covers are rare samples of his own pen-brush technique, because writing, and writing well takes up so much of his time.

Well, anyway, that's the REAL MAD! story.

Cheers,
 Larry Stark 3rd
 New Brunswick, N. J.

Note: I only wish the editors had given me this much space

CAMPUS BREWIN'S

(Continued from Page 2)
 deen is negotiating for a date with Christine for the Dabney-Fleming Luau? If so, his choice for my well-meant, if slightly unenlightened column that week.
 Karlos von Benzadrine

as a member of the Board of Lovers was indeed a fortunate one.

Koodoze

Congratulations, felicitations, benedictions, and blessed regularity to you, Mike Szold. It must be great to be alone with a real, honest-to-goodness fe-

male for the first time in over a term. Same also to roommate Henry H. Stair who, despite the weather, had sufficient red-cell count to enjoy an evening of passion at the Formal, even though he didn't have the energy to take it away from the dance floor and into the more intimate lounge.

Slipping

A large sob for Hunter Paalman, who, after too long in the company of a miss from Oxy, has lost so much polish (apparently not previously needed) that he was unable after his evening at the Formal to wangle a date for the Luau from the more cultured environs of Pomona.

Good Try, Ham!

An unheralded new operator has arisen in the ranks of the gentlemen of the Southwest. Like an exploding nova in the heavens of Ay 1, one Dick Ham rose from the ranks to challenge the long-standing student house record of 11 days for sudden engagements. Unfortunately, it was sixteen days after meeting his lass that he became engaged. Said downhearted Dick: "I'd have broken the record easy, but I could see her only on weekends."

Echoes

Lost weekend went over so well in Dabneyland that a small-scale model was held last weekend for the Spring Formal. Motoring down from Sacramento were the women of Bryan and Kausen, and also present was non-resident member Diane Pechacek.

Forgive Him: He Knoweth Not What he ---- He Doeth

But a few short days remain before ye axe of justice falleth upon ye pate of one Jonathan Merrill. Shortly after press time, said John will be bound in (choke) wedlock. The sad day was to have come in June, but after moving into his luxurious home-to-be he discovered that his cooking was no better than B&G's. Ergo the early marriage. Pope Norman Ellet is shaking the mothballs out of his most elegant robe in preparation for the super deluxe two-dollar double excommunication ceremony for Merrill and Mike Michelson.

How?

Well, another head (?) has fallen . . . Pope Enright and his efficient thought police caught up with social chairman Beuf for showing signs of succumbing to the charms of a Schmipps beauty.

Blacker House is joined by the rest of Tech as the specter of a bleak social calendar again
 (Continued on Page 5)

TRIPLE THREAT MAN!



AIRCRAFT OBSERVER



AIRCRAFT OBSERVER



AIRCRAFT OBSERVER

The Brains of the Team

Teamwork can work miracles. In a football game the man who sparks these miracles is the quarterback. He's the man who calls the signals. There's a man who calls the signals for an Air Force flying team, too! They call him an Aircraft Observer.

Do YOU have what it takes to become an Aircraft Observer?

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- As *Aircraft Performance Engineer*, is the one who "keeps the plane flying", the man who knows his plane in-

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Awards and Lectures mark Pauling's trip

by Stanley Grotch

Professor Linus Pauling returned last Thursday from a five-week jaunt to Europe and Eastern United States. Conferences, lectures, and a "Page One Award" in New York marked his sojourn.

Highlight of the trip was Dr. Pauling's visit to the Ninth Triennial Solvay Congress held in Brussels, Belgium. The topic discussed by the twenty-five men invited to the congress was "The Chemistry of Proteins." Dr. Pauling, probably the world's foremost authority on the subject, gave his paper on the molecular structure of proteins. Commenting on the conference, Dr. Pauling praised it for "serving a useful purpose in bringing together scientists in a rapidly growing field."

New Protein Theory

In England, Dr. Pauling visited the Cavendish Laboratory at Cambridge and discussed protein with James Watson, F. H. Crick, and son Peter Pauling. It was here that Dr. Pauling learned of a new protein structural theory developed by Watson and Crick. Very briefly this new theory involves two polynucleotide chains which are complementary; when split, they serve as the pattern for new chains. Dr. Pauling believes that their explanation, although not entirely correct, is on the right track and probably provides a more accurate picture than that offered by his theory.

Citations

Flying back to the U.S., Dr. Pauling gave the Treat B. Johnson Lectures in chemistry at Yale University. Next he went to New York, where he was the recipient of the Newspaper Guild of New York's annual "Page One Award" for his distinguished work in "opening the way understanding the structure of the substance of life, the protein molecule."

Next stop on the journey was his attendance at the Philadelphia meeting of the American Philosophical Society. The society, numbering about three hundred members, reelected Dr. Pauling vice-president for the coming year.

Following the Philadelphia meeting, Dr. Pauling attended

the conference of the National Academy of Sciences in Washington. At this meeting Professors Benioff and Du Mond of Caltech were elected to the society. Dr. Pauling then gave a series of lectures on protein structure at the University of Buffalo and returned to Pasadena on May 6.

THE SPACE BEAVER

By WALT LEE

Putting James Thurber's droll humor into a motion picture fantasy is the latest project at UPA. "Unicorn in the Garden" will be the title of this intriguing creation.

Since Thurber draws in black lines on white paper, problems arise in presenting a film in full color. Because Thurber had never painted before, it was decided that if he were to have painted the film, he would probably apply the color washes rather freely and roughly.

UPA has reinforced Thurber with inventiveness and humor to produce another fantasy of great satire and comedy.

"The Tell Tale Heart" by E. A. Poe is also being released by UPA. A secretary there has described it as completely horrifying.

Science Fiction Plus

Hugo Gernsback's large size slick-paper magazine, SF Plus, will feature a short novel, "Lost Space Generation," by Clifford D. Simak, in its fifth issue. I wish they could get some better artwork for their back covers; those ludicrous things by Tine and Paul have got to go.

The sixth issue will contain a 20,000-word yarn by Philip Jose Farmer. The cover will be by Paul, his second for the magazine.

War of the Worlds

Paramount's version of H. G. Wells' famous novel has been finished for several months now. In fact, it has been shown in England where Arthur C. Clark has praised it highly. It is a color film with excellent technical effects.

George Pal has evidently turned out another film on a level with "Destination Moon," with a cast headed by Gene Barry and Ann Robinson, in keeping with the policy of using little-known players.

CAMPUS BREWIN'S (Continued from Page 4)

looms high.

Where?

Rumor has it that Enright has ordered seconds on house pins (line forms at the rear, girls.)

And This Little Piggy . . .

As for co-eds Crosby & Wall's complaints about determining column lengths, take off your shoes, boys, this rag's bigger than that! (before Chesterfield).

Dudekophobia

Fleming House's reputation for rowdiness this year stems (Continued on Page 8)

Many new scholarships given to Caltech

Jim Robins

Three new freshmen scholarships have been added this year. They are the Union Carbide scholarship, the Alfred P. Sloan National Scholarship and the Lockheed Scholarship.

Union Carbide

The Union Carbide Scholarship will provide four years tuition and an allowance to cover the other required fees and books as estimated by the school. The purpose is threefold: 1) To help deserving students interested in a business career to obtain a college education; 2) to assure larger numbers of men and women trained in technical and non-technical colleges for future executive and administrative careers in business and industry; and 3) to encourage and give limited financial aid to a cross section of smaller American colleges and technical institutions of traditionally high standing.

Sloan

The Alfred P. Sloan Founda-

tion will award a minimum of 25 National scholarships valued up to \$8000 each to men of high character, sound personality, leadership potential, and scientific promise who plan to enter any of the four participating colleges. The participating colleges will be Caltech, Carnegie Institute, Cornell and M.I.T.

Awards will range from a prize scholarship of \$200 per year for a student not in need of financial aid, to amounts of \$2000 per year covering tuition, room, board, travel and miscellaneous expenses. In allocating awards it will be assumed that needy students will work during summer vacation but be free to devote full time to college life during term time. The Lockheed Scholarships will be awarded on a similar basis to the first two.

Braun

There will soon be available a scholarship from the C. F. Braun Co. of Alhambra. This scholarship will also be for entering freshmen.

Monsanto

The Chemistry Department is hoping that the Monsanto Co. will renew their Senior Scholarship in Chemical Engineering. The Monsanto Scholarships have been given to seniors each year and all indications hint a renewal.

Square D Co. has announced a scholarship to go to a junior M.E. or E.E. The basis for award will be recommendation by faculty, interview by Square D, and need for financial assistance. The

recipient will be given the opportunity to work for Square D during the summer if he wishes. Three sophomores have already been nominated this year, and the lucky one will probably be notified shortly. The scholarship will apply to his junior year.

West Coast Electronics Manufacturers Association has awarded two scholarships to Caltech. The selection of the recipients is entirely up to the school. W.C.E.M.A. is looking especially for E.E.'s, and the award is available for any of the undergrad classes.

Most of the scholarships are awarded first on a basis of need, and second on G.P.A. The rest are awarded on G.P.A. and general ability. Borrowing a saying from another column, we derive by the theory of Root-Mean-Square that if you are out of it financially, or really in it scholastically, you have a chance at some money.

Since W.W. II our scholarship funds have been of sufficient size to keep within the budget, because many of the returning GI's did not need school aid due to the GI bill. In the past several years fewer Ex-GI's have been attending Tech, and the funds have been decreasing. The new scholarships recently awarded will help to fill the diminishing funds. We hope that more funds will be made available to the school in the near future.

To qualify!

At present, in order to qualify for aid, one must either have a 3.0 or better G.P.A. or be in the upper fourth of the class. The scholarship committee is in hopes that enough new scholarships can be awarded to and through Caltech so that the scholastic requirement may be widened to include the upper one-third or one-half. Dr. Swift, speaking for the committee says: "We are very pleased with the cooperation of the students in limiting their aid requests to real and reasonable needs."

During the 1952-53 school year 126 undergrads are receiving aid upward of \$150 per term.

Frosh dipped in it

The largest percent of fresh- (Continued on Page 6)

MUSICAL SHORTS

Stanley Grotch

Last Saturday afternoon I visited the new studios of station KFAC in Prudential Square. This station, perpetually dialed by most Tech music lovers, offers an excellent selection of classics and lighter music. Unlike several local stations featuring popular music (stations that play commercials interrupted only infrequently by music) KFAC tries to keep its commercials at a minimum. One of the announcers aptly remarked, "We don't like the commercials any better than you do."

All the jobs these announcers have amaze me. Though Saturday is an unusual day, Bill Carlson, the only one on duty, made the selections for the program, announced the recordings, played them, read the commercials, monitored the sound, and answered the studio telephone! Other personnel were extremely congenial and especially glad to hear about the enthusiastic Tech following their station has.

Casual Announcers

I was impressed by the calmness exhibited by the group while on the air. Thomas Cassidy really gave me a scare. At 3:59 he was nonchalantly listening to a recording he had just made; then at 3:59½ he calmly walked into another studio and began his "Musical Masterpieces" at 4:00. Cassidy told me he had started out to be an opera singer and to prove it sang a short aria for me. He still has a good voice. When asked if he ever became tense while on the air, Cassidy replied, "I feel tense only when I'm recording. Although it may sound strange, when I'm on the air I actually feel a direct relationship to my listeners—something I don't experience while recording."

Mark Brenneman showed me around the new studio. They have two studios where they play recordings, two studios

MEZZANINE

(Continued from Page 3)

ficer on a Navy ship far behind the lines running "toilet paper and tooth paste" between various islands without ever getting near action. Mr. Roberts, a patriotic soul and loved by his crew, wants action, but the black, black captain knows a good deal when he sees one and vetoes all of Roberts' requests for transfer.

Out of this potentially powerful situation comes one of the most heart-warming and humorous plays of the present-day, and no one with an opportunity like this should miss one of the Playhouse's closest approaches to professionalism in a long, long time.

where they can record discussions, and a newsroom. Mr. Brenneman is quite a character and has a sense of humor that would put to shame many after-dinner speakers. These three men all like the music they play and have a real feeling of pride for their work. KFAC certainly gives free entertainment to thousands of appreciative people in this area.

Mountaineering Literature

A collection of mountaineering literature is now on exhibit in the humanities library. Many books belong to the library and others have been loaned by students. In addition, there are the periodicals of two of this country's foremost mountaineering organizations—the Appalachian and Sierra Clubs, which give accounts of extraordinary climbs recently made throughout the world. In all these books there is excellent and breath-taking photography. We will appreciate any other books that may be loaned for the exhibit.

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NEW SCHOLARSHIPS

(Continued from Page 5)

man scholarships are given by a memorial fund of some type, while most of upperclass scholarships are given by corporations. Corporations, much to the delight of all, are expanding rapidly to the freshman scholarship

category, making a larger total fund available.

Sophs out of it

At present the sophomore class has the least number of scholarships available. As a matter of fact they are almost a neglected lot. An effort is being made to correct this sad state of

affairs by awarding the Management Club Scholarship to a sophomore next year. Formerly it went to a freshman. The Management Club is an organization of the various departments at Tech. (Personnel, Accounting, Buildings & Grounds, Bookstore, etc.) Many of the students may

not even know that the profit of the bookstore goes to this fund.

Loans

Tech is not anxious to lose any of its students who are in good standing (1.9 or better), so adequate loan funds, with nominal interest, are available. A complete list of other stand-

ing scholarships at the Institut on page 133-137 of the 1952-53 catalog.

Egaditorial

And then there were the ten doctors who tried CAMELS, but four of them went back to their wives.

One
hour's
work

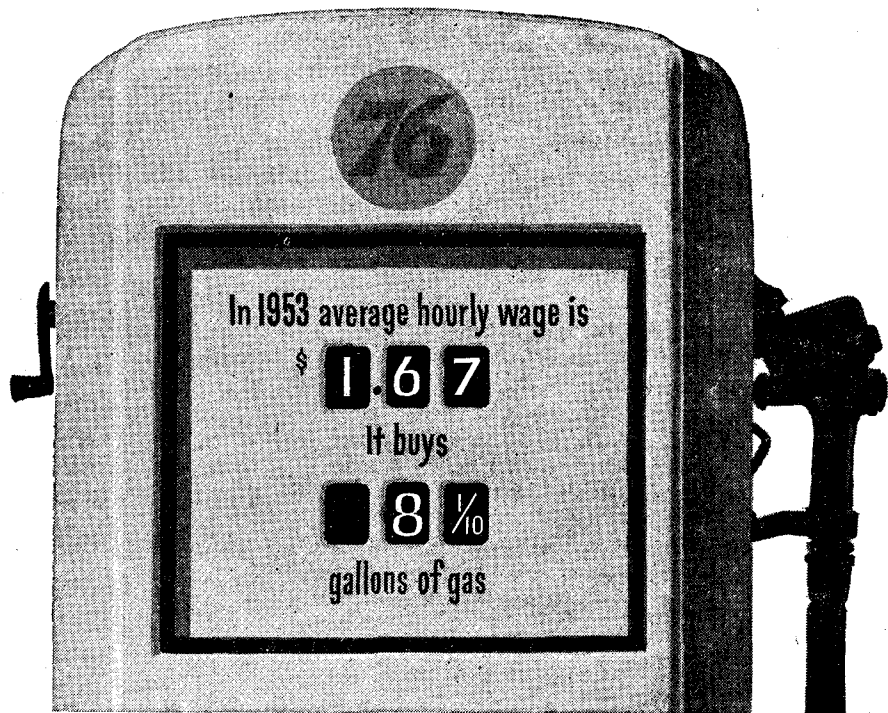


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Swingers Slaughter Sagehens

Caltech slaughters Whittier! Sounds unusual doesn't it? For the first time this year a varsity team defeated the Sagehens when the golf team came through with a 30 to 6 victory last Friday on the Hacienda Course.

Comes through

With Don Turcotte and Paul Farley leading the way, the Tech golfers won every match. Turcotte came through with a 76 to defeat his opponent 6 to 0 and take medalist honors for the day. Farley defeated Jack Kirkwood, third ranking golfer in Southern California, 5 to 1.

Cage stars loose

Ed Daw and George Patraw did what the Tech basketball team was unable to do all season. They outscored Don Turner and Jerry Johncox, Whittier hoop stars, 4 to 2 and 6 to 0 respectively.

Meet again

The two teams play a return engagement tomorrow at Brookside Park. A win by Tech would cinch a second place finish in the standings if Pomona comes through as expected and beats Oxy.

Frosh drop big one Weymann fans 18

With one of the most miserable exhibitions of fielding seen in Tournament Park or on any other baseball field in many a moon, the frosh horsehiders handed a baseball game and most of their pennant hopes to the Redlands Bulldogs last Saturday.

Extra Inning Contest

The Beaverbabes fared little better at the plate as they garnered only six hits off David Farmer, who tossed a no-hitter at them last time out. Farmer also allowed only two earned runs and struck out a phenomenal 21 batters. Sparks of the Tech attack were doubles by Nelson and Laws in the seventh inning to put CIT back in the ball game. The blow was Laws' first hit in league play. The Techmen rallied in the ninth inning to tie up the ball game but lost it in the tenth when Redlands scored five times on three errors and two home runs.

Weymann Fans 18

Ray Weymann struck out 18 batters but was in hot water most of the time. Redlands had men on base in all but one inning, but big Ray allowed them to score in only two until the ill-fated tenth.

Can Tie for Title

Tech won the ball game with Whittier last Wednesday by a score of 7 to 6, and now has a record of five wins and two losses. They play their last league game of the season against Oxy next Saturday and a win will give them a tie for the championship.



Football now?

220-lb. Brute: "There's still time."
120-lb. Weakling: "There's still time for what?"
220-lb. Brute: "There's still time for spring football practice!"
120-lb. Weakling: "Let's go!"

Why did we lose every football game last fall and how can it be prevented from happening again? That is the question that should be answered now, not next fall. Some say that it is lack of manpower; well, we won't have this excuse next fall, for one-plateon football is back with us. And no one claims that we don't have a reasonable number of individual stars. The only excuse we can possibly give will be lack of conditioning. This will be increasingly important with the return of the sixty-minute man. It is rather difficult to build this conditioning in a few weeks on a diet of six hours' sleep a night and one and a half-hours' practice. There is a remedy for this: practice now, get in condition, and stay in condition during the summer.

—The Sports Editors.

Frosh 2nd, Varsity 4th in S.C.I.C. swim meet

The frosh swimming team, led by Bill Davis, scored 46 points in the All-Conference Swimming Meet at Pomona last Saturday to place second behind Pomona, which had 68 points. Redlands, Whittier, and Occidental followed with 35, 14, and 4 points, respectively.

Records set

Davis not only won the 200 yard breaststroke in a faster time than the winning varsity time, but also broke the school frosh records for both 100 yards and 200 yards with times of 1:14.0 and 2:44.2.

Sunblad places

Bill Sunblad placed second in the 220 and 440 yard freestyle. Jim Ball, who plays tennis all week and just shows up for meets, placed third in both the freestyle sprints. The medley relay team of Johnson, Davis, and Ball and the freestyle relay team of Johnson, Brown, Phillips and Kehle each placed second. Third places were picked up by Davis in the individual medley, Johnson in the backstroke, and Brown in the breaststroke. Brown also placed fourth in the individual medley to complete the Tech scoring.

Ball shines

Ball, Davis, and Sunblad have consistently been beating the Tech varsity swimmers in their events, and are expected to form the backbone of the varsity team next year.

As was expected, Pomona won the All-Conference Varsity Swimming Meet at Pomona last Saturday. They scored a total of 68 points to put them well ahead of Occidental, with 57 points. Redlands nosed out Caltech for third place by scoring 26 points to the Beavers 23. Whittier finished last with 9 points.

The Pomona four man freestyle relay established a new meet record of 3:49.3, and in the individual medley Hayes of Redlands tied the meet record of 1:46.8, which was established last year by Von Herzen of Caltech. The times generally were rather slow. The only man from Caltech to come home with a medal was Norm Ellett, who placed second in the 200 yard breaststroke.

Results:
300 yd. medley relay: Caltech (Roberts, Ellett, Wyman), third.
220 yd. freestyle: Perdigao, fifth.
50 yd. freestyle: Wallace, fifth.
150 yd. ind. medley: Haire, fifth.
Diving: Barnes, fourth.
200 yd. backstroke: Roberts, fifth.
200 yd. breaststroke: Ellett, second; Haire, fourth.
440 yd. freestyle: Perdigao, fourth.
400 yd. freestyle relay: Caltech (Haire, Stofel, Wallace, Wyman), fourth.

L'Egad

"How many drinks does it take to make you dizzy?"
"Three. And my name's Daisy."

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WRITE

MR. JOHN ROURKE

1154 West Vernon Avenue

Los Angeles, California

Caltech hosts at net tournament

Eric Ward, Gene Barnes Carry Hopes

The sports spotlight will focus brightly on the newly completed Tournament Park tennis courts and upon the venerable Athenaeum courts where the annual SCIC net tourney will be held. Friday and Saturday some forty netmen who have survived the qualifying rounds last week will converge upon the host Techmen.

Ward-Emery Seeded

Principal contenders for the singles crown are Jose Cortes of Pomona, the favorite, and Jerry Boas and Bill Walcher of Redlands. On this basis, Redlands is expected to take their fifth straight title. The doubles team of Cortes and Blair is seeded first while a couple of Redlands teams are seeded second and third. The Tech duo of Eric Ward and Tom Emery rank fourth. They should reach the semi-finals without much trouble and will meet Boas and Gillette there.

Frosh Chance

Caltech has a fine chance to carry off top honors in the freshmen events. Gene Barnes is seeded second in the singles and he teams up with Jim Ball for a second-ranking in doubles. Chief opposition comes from (you guessed it) Redlands.

Stop, Look, Listen

First-round matches start Friday afternoon at 1:30 with the semifinals slated for Saturday morning at 10 and the finals on Saturday afternoon at 2:30. All Techmen who can are urged to come out and watch the tourney in progress. Fine playing and keen competition will be the key-notes.

Gadbag

"Daughter, you hair is all mussed up. Did the young man kiss you against your will?"
"He thinks he did, Mother."



The American way—condemning a naughty movie; attending it to see if it's shocking as advertised; kicking because the naughty parts have been cut out.

Long Hitter

Ed hits a crazy ball, the longest on the golf team, and he has fiery red hair, which may explain the fact that he is a real-gone competitor.

Recommendations

Ed is a senior E.E., a member of Tau Beta Pi, 26 years old, 6 feet 2 inches tall, weighs 180, and, Heaven forbid, he's married and already has a daughter!!!

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NINE EDGED

(Continued from Page 7)
 enteen Tech batters fanned the breeze and of the others only one was able to get the ball out of the infield.

no-hitter when he smashed a mighty infield single down the third base line in the eighth inning. He even waited to make sure the ball was in fair territory and that the third baseman would not forget to field it be-

fore coolly scrambling to first in time to beat out the throw. A few minutes later he was considering the possibility of stealing second when he noticed the second baseman running at him with the ball. When he tried to get back to first, he found the first baseman in his way, also with the ball; so, deciding not to press the matter further, he

walked over to the bench and sat down. When the coach asked him about it later, Bob sheepishly admitted that he had been trying to think for himself and promised never to do it again.

The baseballers play their final game of the year Saturday when they meet Oxy at Oxy. The Beavers will be out to revenge an early season 22-9 loss. With Winslow back in form and with the knowledge that the Oxy pitcher is hittable the atmosphere should be ripe for an upset.



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Headquarters of Caltech Bowlers
Open 11 a.m. to 1 a.m. SY. 3-1341
Special Student Rate before 6 P.M.

Galston awarded research money

\$11,000 has been awarded a Caltech biologist to continue his studies in plant research. Dr. Arthur W. Galston, associate professor of biology, will receive this amount from the National Science Foundation in Washington, D.C., for his research on the effect of light on the growth of plants.

The grant is part of a comprehensive Foundation program to support basic scientific research. It will provide for two years of work on the basic reactions of organic photochemistry.

Dr. Galston, a graduate of Cornell, received his M.S. and Ph.D. degrees from the University of Illinois, and has been at Caltech since 1947. In this work, he will be assisted by Glenn W. Todd, who received his Ph.D. last year at Caltech.

"LIVE WIRE"

(Continued from Page 1)

ASCIT play here since "Maid in the Iceplant." Laurels are belong to producer Bob Smith, who came out with a substantial profit as a result of his concentrated publicity drive for ticket sales on campus.

Bouquets also are in store for actors Jim Kliegel, Chek "Finch—FINCH" Beuf, Jack Rocchio, Martin Roth, John Holland, Bill "Mee Mo Mo" Barlow, Jerry Royce, Figgie Ryan, Ross Brown, and Lampshade Ratney, with special thanks to actresses Ingrid Cessna in the top role of Ursula Poe, and Michele Reiner and Barbara Brown, representing the "press."

CAMPUS BREWIN'S

(Continued from Page 5)

from a small minority of low-lives, who, happily all live in Alley 2. The last episode to take place was carried through by Mad Dog Kai Kristensen under the direction of the warped mind of Gerald Dudek, and we do mean warped. Mad Dog was only an instrument of Dudek's wrath against the alley . . . Phallic Phil Ferral, in placing a lachrimatory gas on his pillow while he slept.

We expect more bloody happenings will have occurred by next week as Phallic Phil and his henchmen Jon (Lippy) Robinson, and Rabid Ron Corsak are not likely to sit idly by. The source of all the trouble is a trophy, donated by a churlish chem grad student, which represents a gesture. Since the most evil person in the alley for the week gets the trophy, it wanders as rapidly as the Discobolus.

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. . . 15% higher than its nearest competitor and Chesterfield quality 31% higher than the average of the five other leading brands.

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2. First to Give You Premium Quality in Regular and King-size . . . much milder with an extraordinarily good taste—and for your pocketbook, Chesterfield is today's best cigarette buy.

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