

—photo by Phil Laipis

Eric Young, Ruddock frosh named Lucky Pierre last Thursday, shies modestly from camera by hiding behind one of his props, soon to be used as a weapon of imperialism. Note snakes turned to cats in background.

Young Shows Virility To Get ASCIT Bit Part

Caltech Dramatists To Perform Thriller

BY BOB BERRY

Eric Young emerged victorious from the "casting" for the bit part in the upcoming ASCIT play last Thursday in Blacker courtyard. For his demonstrated ability in feats of "strength, skill, and hair" he will play the prop man in "Six Characters in Search of an Author."

Ruddock Wins Again

Each house had one frosh (well-fortified) entered in the competition. They were Lot Ensey, Blacker; Terry Beard, Dabney; Terry Warren, Fleming; Gary Berman, Lloyd; Randy Dickenson, Page; Martin Dowd, Ricketts; and Young, Ruddock. It is to be noted that this is the third victory for Ruddock in the four years it has entered the contest.

The competition, which resembled a miniature election rally, was divided into three contests. The first consisted of downing a lukewarm quart of the universal solvent through a chocolate flavored straw. Young won, due to his extensive experience in such matters. Next came the traditional race on all fours backwards carrying a raw egg in the navel.

Not Here, Berman

In the last event, each contestant was given a broom, a chair, and two minutes with which to demonstrate their ingenuity, manliness, and hair. The proceedings were interrupted while Berman attempted to impress the judges (the ladies of the cast) with his romantic abilities. When the girls had been rescued, the contestants went on trying to make asses of themselves in various clever ways. Young won by breaking the broom and attempting to club his opponents and the judges with it. Beard (of Dabney) ran a close second. He stood on the chair and made shoveling motions with the broom to the accompaniment of a well-known chant from the crowd.

Said one of the judges afterwards, "It was gross." "It was American," her British friend added enthusiastically.

BY J. K. EVANS

Where's the author? Why did he abandon his characters? What kind of drama are they involved in? What did Father do to his Stepdaughter? What did the Boy do to his sister? What's purple and hides in the men's room?

If you like mysteries, "Six Characters in Search of An Author" by Luigi Pirandello has plenty of them. Also plenty of confusion. Nobody knows what's going on, including the Caltech Drama Club, which will present the play on May 6, 7, 8, and 9 at 8:30 p.m. in Culbertson Hall. Admission will \$1.00. Tickets are available at the Public Relations Office, the Winnett Center Office, from your friendly House Social Chairman, or at the door.

It's Risque

Seriously, the Drama Club's offering of "Six Characters" should be worth the price of admission.

Prom To Have Wild Sextet

BY RICHARD KARP

Featuring the music of the Keith Williams Sextet, the annual all-class prom will be held Friday, May 15, in conjunction with Lost Weekend, at the Huntington-Sheraton Hotel in Pasadena.

The Keith Williams Sextet considers themselves "America's most versatile orchestra." They consist of a drummer, who doubles on trumpet, an accordionist, a bassist, a saxophonist, a clarinetist, and a trombonist, who doubles on the vibes. As recording stars they have released five albums.

Although the prom is part of the Lost Weekend program, it is a separate event and one need not participate in Lost Weekend to attend. Dancing will be from 9 p.m. until 12:30 a.m. at the ballroom at the Huntington.

Dress for the occasion will be white dinner jackets or dark suits (the former is recommended) for men, and short formals for ladies. Corsages are in order. For those who need additional convincing, there is also a clincher: Art Johnson, senior class prexy, recommends it.

mission. Pirandello, who received the Nobel Prize for Literature in 1934, was the foremost playwright of the conflict between Illusion and Reality. This play is one of his best known; in it he eloquently states his beliefs and drives them home with a series of shocking actions, building to a violent climax in the last minute of the play. The play has something in it for everyone: it is in turn comical, risqué, philosophical, and bloody. Yes indeed, "Six Characters" offers something to delight every heart.

The Drama Club has encountered its usual difficulties in getting the production under way, but it is at last chugging along in high gear with only occasional derailings. There was a frightening shortage of femmes for a while, but diligent recruiting has filled out the cast with the Club's usual quota of lovelies. The problem now is to keep the cast from melting away under the heavy rehearsal schedule necessitated by the short time remaining to whip things into shape.

Physical Philosopher

A few notes on the cast:

The role of Father, Pirandello's philosophical vehicle, is filled by Tech junior Steve Morse. A physicist, Steve is used to close association with philosophy of one sort or another in everyday life and has had little trouble gearing himself to speak it rather than work problems in it. His association with the Drama Club dates from his freshman days but heretofore has been on the business side of the organization. His portrayal of the delightfully nutty Homer Witham in last term's production of Julia Carson's "The Monster" endeared him to all fans of delightful nuts. This play will endear him to all fans of lecherous old philosophers.

Jan Kistler of Westridge is certainly not type-cast in the role of the brassy, worldly-wise Step-Daughter. Jan is one of the sweetest little girls that has ever graced the stage of Culbertson. Her impersonation of an unwilling "lady of the evening" will certainly require acting on her part. Her association with the Drama Club dates to 1962's production of "The Philosopher" (Continued on page 2)

Glee Club Presents Concert in Beckman

On Friday and Saturday evenings, May 1 and 2, the Caltech Glee Club will present its annual Spring Concert. The concert will be held in Beckman Auditorium at 8:15 each evening.

The Glee Club has recently returned from a week-long tour of the Chicago area, singing in many colleges and churches in Illinois and Wisconsin. This journey was the first out-of-state tour for the Club, their previous engagements being limited to the Los Angeles, San Francisco, and central California areas.

Repeat Concert

The concert will present much of the same material performed on the recent tour, including works by Palestrina, Byrd, Viadand, Berlioz, Rachmaninoff, Copland, Orff, and other composers, as well as a selection of folk and work songs. In addition to the Glee Club, the concert will feature the Caltech Quartet and the Caltech Madrigal Society.

The Club has garnered praise from many critical audiences and has been ranked as one of the outstanding male choruses in the country.

Although the Glee Club is nearly as old as Caltech itself, it acquired a new stature eleven years ago, when Olof Frodsham began to take time from his position on the Occidental College music faculty to work with

the Tech men. Since that time, under Frodsham's direction, the Club has undergone a major transformation, from a poorly organized glee club into a nationally ranking male chorus. **Salute to Pasadena**

Highlights of this transformation include the beginning of its annual tour schedule six years ago and its appearance at the closing ceremonies of the Winter Olympics at Squaw Valley in 1960. Future plans include more tours to the eastern parts of the United States, and an appearance at the salute by Governor Brown to the city of Pasadena on its 75th anniversary.

Tickets for the Spring Concert are \$1.50 for general admission and \$1.00 for students (Tech undergrads free), and may be obtained from the News Bureau, extension 213; at the door on the evenings of the concert; or from any Glee Club member.

Oppenheimer Here May 13

Dr. Robert Oppenheimer will speak on "Hope and Foreknowledge" on Wednesday evening, May 13, at 8:30, in Beckman Auditorium. His talk will inaugurate a new series sponsored by the faculty committee for "Institute Assemblies and Programs." Dr. Edwin Munger, professor of Geography, is chairman.

Admission to Dr. Oppenheimer's lecture is free, but seats are reserved and a tentative allocation of tickets assigns 400 total to graduate and undergraduate students. Therefore, **Undergraduates** who wish to attend (Continued on page 6)

Dr. Carl Nieman, Professor of Organic Chemistry at Caltech since 1945, died in Philadelphia of a heart attack. Nieman had been here since 1937. He received his PhD from the University of Wisconsin in 1934.

Alumni Day To Feature Exhibits

BY TIM HENDRICKSON

About 1400 Caltech graduates and their wives are expected to attend the twenty-seventh annual Alumni Seminar this Saturday, according to Dr. Donald S. Clark, Director of Placements.

After an early registration in Dabney Lounge, the participants will attend two morning lecture sessions. In the dark recesses of Bridge, Gates, Arms, and Culbertson, they will be exposed to such intellectual delights as "New Schemes to Teach Arithmetic," by Dr. Richard Feynman, "Quasi-Stellar Radio Sources," by Dr. Maarten Schmidt, "Sea Urchins, Seaweed, and Sewage," by Dr. Wheeler North, and "The Brain of It All," by Dr. Hugo Benioff.

The alumni will then assemble in Beckman to hear Dr. DuBridge talk on "Science in Space," preceded by the Caltech Glee Club. Afterwards, three special exhibits will open: the tandem accelerator, "Tranquil and Torrential Flows" in the new 130-foot tilting flume, and "Dynamic Tests of Structures."

Presiding over the informal evening program will be Sidney (Continued on page 3)

Notices

STUDENT ART DISPLAY

A display of various forms of the graphic arts including painting, photography and sculpture, done by undergrads, grads, and faculty, will be held during the week of May 4-10 in the lounge of the Winnett Student Center.

SURFERS RULE!

There will be a short (15 minute) organizational meeting of the Caltech Surfing Club at 7:30 p.m., TONIGHT, in the Lloyd Conference Room. All interested please attend, as Coach Emery will serve as advisor if there is enough interest, not to mention the fact that we will get more money from ASCIT.

HEY YOU!

Come to the coffee hour this afternoon, but not unless you drag along at least one faculty member. Be brave, be bold, just walk right into a faculty member's office and drag him over to Winnett. We know he'll be frightened of the students there, but after consuming a cup of coffee or tea to soothe his nerves, and eating a donut to calm his twitchy stomach, he'll be right at home. Remember: "A faculty member at the coffee hour is worth about thirty in the lab."

Editorials

Gassed

Back in our first issue we stated that the record we make would be our responsibility alone, catastrophic as it may turn out. Last week the first catastrophe occurred. The statement was made, in effect, that Saga was responsible for a proposed double-shift lunch schedule late in the term. This is not the case. Mr. E. E. Taylor, Manager of Student Houses, who is responsible instead of Saga for any inconveniences, assures us that there is 99 per cent probability that renovation of the old Houses' kitchen will start on June 15 and will be completed by the beginning of first term next year. We certainly hope that this will be the case. We are sorry this mistake was made.

However, the second half of the editorial still remains our opinion.

—Wally Oliver
Stuart Galley

Lucky Breaks Give Theory of Quake Origins

Earthquakes seldom cooperate with anyone, but two quakes occurred at just the right place to help Dr. Hugo Benioff, professor of seismology at Caltech, develop a new theory of the cause of deep earthquakes.

It had been thought that all quakes are the results of sudden movements of land masses along fault planes, releasing strains built up by long, slow movements of the masses.

However, Benioff has found evidence that deep quakes are caused by the sudden concentration of blocks of mantle rock about a quarter-mile cubed. These contractions may be due to sudden changes in the crystalline structure of the rock because of slight changes in temperature. When this occurs, the overlying material falls and an earthquake occurs.

The evidence for the theory comes from the study of certain long-period waves generated by two deep quakes in Peru. A special recorder happened to be at the location to detect these waves. The quakes registered 7 and 7.5 on the Richter scale, and occurred twelve days apart at almost the same place. Their foci were about 400 miles down. Benioff feels that these waves can tell something of the nature of the rock in the earth's mantle.

Astronomers See Distant Stars

Two Caltech astronomers, Drs. Marten Schmidt and Thomas A. Matthews, have identified an exploding object that is farther from earth than any previously measured object. The discovery, several billion light years distant, is one of the very bright "quasi-stellar radio sources" that astronomers are using as beacons to determine the geometry and the dimensions of the universe. According to Dr. Ira Bowen, director of the Mt. Wilson and Palomar Observatories, if the red shifts from these very distant objects can be determined, a true model of the universe can be constructed.

The object was located by Matthews, a radio astronomer, with the twin 90-foot dishes of the Caltech Radio Observatory. Then, Schmidt measured the recession rate from spectra he photographed with the 200-inch telescope of the Palomar Observatory. From the two definite lines obtained (ionized oxygen and neon) Schmidt calculated an apparent velocity of 76,000 miles a second by measuring the

(Continued on page 6)

ASCIT Play

(Continued from page 1)

duction of Saroyan's "The Time of Your Life" and includes the only sane role in "The Monster." PCC Mother

Tina Carter, PCC coed, tops off a long string of high-school and college efforts at maternalism with this appearance as the tormented Mother. Not only is this her fourth role as a mother, but, being the oldest of ten children, she has had plenty of opportunity to go through the motions of mothering. This is not type-casting, however, because all her mothers have been different, from a glamorous nymphomaniac to Pirandello's mentally deaf vessel of mother-emotions. After her notable display of pulchritude in "The Monster," it seems a shame to bury her under 45 year's worth of makeup, but that's show biz.

Suicide Smoker

Bob Roberts, fresh from his triumph as a would-be suicide in "The Monster," draws on his own fanatical distaste for smokers to add fuel to his portrayal of a Son who cannot stand the sight of his parents. Bob's association with the Drama Club includes a role in last year's "Man and Superman."

Frosh Jay Romney brings fire, finesse, and frustration to his role as the harassed Director who is accosted by six seemingly mad characters. He is the foil on which the Father directs his philosophic outbursts, and if you think it's hard to play straight man to a comedian, you should try playing straight to a philosopher. Jay has some high-school experience to draw on, as well as a year with the Drama Club (Hooboy!).

I'm Director

The job of cajoling brilliant performances out of these temperamental artistes lies on the Hughes, Mike Cunningham, and stooped shoulders of Director J. K. Evans, who has absolutely nothing to recommend him except that he wanted the job. He has a little acting experience, with roles in "Brigadoon," "The Time Of Your Life," and "Man and Superman," but this is his maiden voyage as a director. However, if temper tantrums and vocal volume have any positive influence, this will be a hell of a good play.

Other roles are filled by Technicians Mike Costello, Larry Hughes, Mike Cunningham, and Lucky Pierre Eric Young. Additional women include personnel secretary Barbie Browder, Englishwoman Stephanie Digby (an accomplished comedienne), and Diana Leach, who hasn't revealed her origins.

Club Advisor Dr. Ricardo Gomez has repeated his wildly enthusiastic response to the question of why the Drama Club chose a nice hard play like this instead of something like "Cinderella." He said, "I like thees play." So will you. Come.

Frank Winkler Reports on Orient

(Editors' note: Frank Winkler reports on his visit to Japan, Formosa, and Hong Kong as a winner of a Junior Travel Prize. This is the first of two parts. The second installment will be published next week.)

BY FRANK WINKLER

When I arrived in Tokyo, beginning my travel prize tour of the Orient, the whole thing was very hard to believe. It seemed unreal that someone such as myself who had never before left the shores of the good old U.S. of A. should be transported in half a day's time almost half way around the world to spend the summer in a strange land, with strange people, who spoke a strange language in which I could barely say "hello." It was frightening to think about it, so I didn't think, but just accepted it as being real — no fantasy or fairy tale.

It was a hot, sticky night, as were most of the summer days and nights in Japan, and the Tokyo airport was a terrifically confused mass of humanity — Japanese and Chinese and herds

of American tourists all trying to find their baggage and run the gauntlet of custom offices. Much of the confusion resulted from the fact that the airport, like all of Tokyo, was being completely rebuilt in preparation for the 1964 Olympics.

Airport Wading

It was a rather inauspicious beginning, but after a couple of hours I waded out of it all and was relieved to find some friends to whom I had been introduced by mail, and who were much in sympathy with the difficulties to be encountered by a naive young foreigner. This was the beginning of my association with the men of Nippon Pulp Company, who were, in the days ahead, to open the doors of much of Japan to me and to become my very good friends.

To go backwards a step or two, my travel prize project was studying the Japanese paper industry. This may seem like a rather unusual project for a Caltech physicist, but then most of the travel prize projects are pretty unusual. I selected this

for several reasons. First, Japan seemed like a wonderful place to spend a summer — a fascinating and beautiful country and a people whose cultural roots are completely different from our own. It was a place which I'd always wanted to visit and one to which the opportunities for travel are much more limited than Europe.

Paper Interest

My interest in paper-making came about quite naturally, for my father has been in the paper business for many years, and we now live in Chillicothe, Ohio — a town whose two claims to fame are an unpronounceable name (it's especially hard for Japanese, I found) and some of the world's largest paper mills. I had become familiar with paper-making through these natural associations and through summer jobs in the paper mill — a source of employment for virtually all college students from Chillicothe.

Japan is the ideal place to study paper-making, for the Japanese have been at it since the seventh century, and have a long tradition of making fine paper. In recent years they have supplemented the hand-making of paper with modern methods, and their newest mills rival the best in this country. However, they still make a great deal of paper by hand, and this is generally conceded to be the finest in the world today.

Tokyo Rose

Most of the first week after my arrival I spent in Tokyo. This is a truly remarkable city — the largest and probably the busiest and noisiest in the world. Everywhere there are people, packing the streets, stores, buses, and beer halls, with a bustling atmosphere which makes Los Angeles or even New York seem tame by comparison. The public transportation systems are very good, with subways, buses and streetcars making it possible to go anywhere in the city for about five cents. These are incredibly crowded at rush hour though, when subways and buses have seemingly unlimited capacity. At the subway stations one finds professional pushers, who are employed to shove people into the cars so that the doors may close.

The automobile traffic is amazing, too. There are now far too many cars for Tokyo's tiny streets to accommodate, but the drivers refuse to acknowledge

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Biology Division Investigates Fly's Eyes and Split Brains

BY ANDY BEVERIDGE

"In the basement of Booth you'd see crayfish and flies. It's a regular biology laboratory." So said Dr. Ray D. Owen, chairman of the Division of Biology, when discussing the current developments in the Division. Caltech's expanding biology division runs several experiments below the 7090 to make use of the computer facilities.

These experiments, which are run jointly with the electrical engineers, are plugged into the computer upstairs to process the data rapidly. Dr. Gill McCann, director of Booth, has become "absorbed in this." Some of the experiments include trying to find out how the eye of the fly works.

Squirring Flies

A fly is attached to a torque-meter, placed stationary in the middle of a rotating drum. The drum rotates a pattern of black and white, and the torque-master measures how hard the fly tries to follow the pattern. From this type of experiment they hope to find out how the brain of a fly works.

Other questions this type of research tries to answer include: "Can the brain be thought of as a computer with electrical circuitry?" If so the electrical engineers hope to be able to design better computers by patterning them after nature.

On the third floor of Alles, related research is being conducted under the supervision of Dr. Wolcott Sperry Hixon, Professor of Psychobiology. These experiments include surgically splitting the brains of mankeys and other animals and performing experiments on the animals with their brains divided. A brain is actually like two brains with the two parts interconnected. When it is split, the connections are cut. This way information can be gained on the way the right and left hemispheres are connected.

Split Your Brain?

One of the most important outgrowths of this research, at least to an outsider, is the case of a man whose brain was accidentally split. Because of this, he has become subject of several experiments. His split brain causes interesting effects. For example, if he is blindfolded and a pipe is placed in one of his hands, he can tell that it is a

pipe, however, he cannot say the word. The reason he cannot is that his speech center is in one side of his head only, and it is not connected to the part of the brain that controls that hand.

The whole area of psychobiology is growing, and it is one "that young people might be interested in." Owen believes that in the next couple of decades this will be a major field though it is not now as popular as molecular biology.

Eggs and Genes

The other major area of interest at Caltech is, of course, chemical or molecular biology. The type of subjects investigated by the researchers in this field include: "How genes control development chemically, how cells with the same genetic makeup become different as the organism develops, what happens at fertilization of the egg by the sperm."

Caltech has a large electron microscope installation under the direction of Dr. Alan J. Hodge. This is a valuable tool in the search for information in this area. In the whole field of molecular biology Caltech has been a leader from the very start when Thomas Hunt Morgan came from Columbia to start the Division in 1928. George Beadle carried on the tradition, and it continues today.

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Brachiopods Give Clues To Earth's History

The geology and geography of the earth of 400 million years ago is being determined today by the study of fossil brachiopods. Brachiopods are similar to clams but have a distinctive shell configuration and a distinctive food-gathering organ. For fifteen years Dr. Arthur J. Coucot, paleontologist at Caltech, has been studying the world-wide distribution of these fossils over the time span of from 430 to 340 million years ago.

Continents Submerged

The evolution of brachiopods proceeded faster in small, isolated seas than in larger waters. Therefore, study of the fossils provides clues to ancient geography. Boucot concludes that during the Silurian Period the Northern Hemisphere was mostly covered with shallow seas. South America and eastern Australia were also under water. Later, in the early Devonian, the seas apparently retreated. After a few more million years, large areas of the present continents were again submerged.

The evolutionary changes were always to new forms; there were no reversions. The changes were in the intricate bumps, knobs, spines, and grooves of the shells.

Wandering Poles?

Many invertebrates are sensitive to temperature. It is hoped that data about the distribution of fossil invertebrates will provide information concerning the past locations of the poles. The question of whether the poles have wandered is still debated by geologists.

The fossil remains are even found high in the Rockies and Himalayas, indicating that these ranges were not in existence during the Silurian and Devonian Periods.

Boucot obtains fossil-bearing rocks from all over the world, collecting many of them himself. Sixty per cent of the specimens come from North America and thirty per cent from Europe. The samples are from road and railroad cuts, quarries, wells, and outcrops.

Rock Crushed

Boucot and his group use two rock-crushers to break up the rocks. The rock is then cut away from the fossils with small emery wheels mounted on dentist drills. The final phases of this work are done under binocular microscopes with minute chisel-edged needles. The specimens are then classified as to species, age, and location. After study, the fossils are filed in Boucot's laboratories or shipped to the National Museum in Washington, D. C.

Boucot summarized his brachiopod research in this way: "They all look alike at first. Then as you continue to look patiently, differences begin to emerge. Soon you are able to detect the subtle differences that are the hieroglyphics which tell the story of their evolution."



BY DICK McGEHEE

After the inimitable Gorman fashion I freighted my little body down to the Ice House last Thursday night to see if the Turtles were any relation to the Beatles. They aren't, but I happened to go the same night that ye olde ASCIT board picked to squander its graft and corruption wad, and Caltech's finest were there in well-oiled form.

The show started off slow with Pat and Victoria, a Brand-X group which sounded like the records Simpson gets in the mail. Pat played a big Martin and Victoria alternated between a banjo and an autoharp. They played a few standard blues and blue-grass pieces plus something they wrote themselves. It made good background music to get in the mood for the rest of the show.

Lieb Horny?

Next came the best part of the show: Stewart Clay. Clay is a night-club-type performer who was able to establish a real audience contact right off the bat and hold it for the whole performance. His audience contact extended as far as kicking a sleeping Brunswig into wakefulness and putting a verbose Liebermann in his proper place. Liebermann volunteered the word "horny" as a rhyme for "corny"; Clay promptly and appropriately told Liebermann to speak for himself.

Clay and his banjo made their professional debut three years ago in a bar in West Virginia for \$4. Since then he has picked

up a guitar and, just recently, a 12-string (which he plays like a 6-string). He has a good baritone voice which blends well with his cool guitar accompaniments. In all, he is a very able and talented performer.

Motherhood and the Flag

Finally came the Turtles, who, I was informed, are still trying to establish an image but will improve as time goes on. The Turtles consist of Jimmy Gavin, and ex-aspiring New York actor, and Maury Hayden, and ex-off-Broadway New York actress, who sing mostly songs written by themselves satirizing modern America, from Motherhood to Howard Johnson's. They are actually pretty talented, but should spend much more time on serious songs. When I talked to them after the show they told me they planned to intersperse more seriousness, and I think they'll end up with a pretty good act.

Unfortunately, Clay isn't going to be at the Ice House much longer, although the Turtles will be there until May 17. However, the Ice House generally puts on a good show which for the money is hard to beat.

Alumni Come

(Continued from page 1)

K. Gally, General Chairman of the Alumni Committee. The last speaker of the day will be Mrs. Georgiana Hardy, president of the Los Angeles City Board of Education; her closing topic — "The Little Red Schoolhouse Still Haunts Us."



EXHUMATIONS AND EXHILARATIONS

Once upon a time, Los Angeles was a center of cinematic art. The other Saturday night I saw some evidence of what Hollywood moviemaking used to be — and more important, some indication that L.A. is about to be on the map once again. Let us all look respectful; a renaissance may be among us.

The way I've gotten into this messianic mood is by going to the Saturday midnight show at the Cinema Theater. Arriving around ten o'clock, one takes in the regular double feature. Then one wanders outside and encounters a crowd of wild-eyed movie fanciers, who are pounding on the box office, waiting to get into a semi-clandestine irregular showing that's about to begin. So one pays another smallish admission and goes back into the wombish darkness, to be as happy as a cinema weevil in a pile of old celluloid — until, say, four in the morning.

Usually even the regular features at the Cinema are of more than usual interest. The other week I caught *Beat the Devil*, an excellent 1953 Anglo-American comedy, and "M", the 1930-ish German thriller about a child killer in which Peter Lorre made his debut. But that was only the beginning. After the second admission we got *Actors and Sin* (1939, Edward G. Robinson), *Woman of Sin* (1938, produced by Ben Hecht), a scrofulous jape called *To L.A. With Lust*, and Chapter Twelve of a 1940 serial called *The Phantom Creeps*.

I have to admit that *The Phantom Creeps* was the most fun of the lot. It's been a long time

By Steve Schwarz

since I've heard a line like "What have you done with Dr. Zorka's meteorite?!" But seeing these other old films is worth-while. Cinema, like any art, has a history, and if one wants to understand trends taking place today, one needs to know what went on before. Some very good moviemaking went into a film like *Actors and Sin*, which today seems utterly cornball. The reason it seems cornball is that moviemaking conventions have changed. Movies were not as dry in those days, using the alcoholic sense of the word. The writer poured in as much pathos and serendipity as was required to produce a good cry and/or a happy ending.

The actors played that game too; not yet being entirely free of the stage tradition, they mugged their emotions in ways that were meant to be made out by nearsighted patrons in the back rows. Yet we don't criticize Da Vinci because he didn't paint in the style of our day; we should agree that Edward G. Robinson was a great actor in the style of his. Moreover, Hollywood was doing good work in the idiom of the thirties. Can anything be said for what it is doing in the idiom of today?

Why then, do I talk about signs of an L.A. movie renaissance? The best way to see that is to attend the Saturday night show yourself, and take a look at the audience. Certainly it is one of the liveliest you've ever seen: dressed mostly in the disheveled uniform of artists and the arty, they stomp, applaud, boo, and sometimes express disapproval in the time-honored

(Continued on page 6)

Why Wait Until Next Week?

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HENRY I. WEITZEL
Registrar

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Ricks Stops Claremont; Webmen Over CHM; Diebel Hurls Shutout Prepare For Finals

The Caltech baseballers won their second league game last Wednesday, 6-1, over a very confused Claremont-Harvey Mudd team.

Wildness on the part of the Claremont pitcher handed the Techmen a run in the first inning via walks and wild pitches. After that, though, both pitchers dug in and gave up nothing until the sixth inning. In the sixth, Claremont got a man on base against Tech's Bill Ricks on an error. Claremont sent him to second on a fine sacrifice bunt.

All the Way

Somehow, though, the Claremont runner got his signals crossed. He kept on running as though the bunt had sailed over the head of one of the outfielders. He rounded second base and headed for third. At about this time, the Techmen began to notice that he was still running. Not content with having the rest of the league whispering that Tech had allowed a man to be bunted to third, Tech proceeded to overthrow third base. The story was now complete as the baserunner scampered home untouched.

Big Inning

Angered by such blatantly unfair and unsportsmanlike tactics, Coach Preisler unleashed his own secret weapon in the bottom of the inning. After Tech's leadoff man had walked, the next man bunted, and then the one after him, and the one after him, and the one after . . . The big blow of the inning was a suicide squeeze play with the bases loaded. The play worked to perfection as it was run by sophomore Bob Weatherwax.

50-Footer

With the lead run on third, despite visions of missing and never playing again, Bob slammed his 50-footer between the pitcher and the third baseman.



Ricks hurls against CHM.

SPORTS

He did it in such a way as not only to score a run, but to earn himself a hit, the only hit of a five-run inning. So went the Claremont game.

Ricks Magnificent

Again, the most significant feature of the game was the pitching of Bill Ricks. Bill went the full nine innings without allowing an earned run to gain one of the best ERA's in the league, despite his shaky start.

Diebel Hurls

On Friday, John Diebel blanked Rio Hondo, 8-0. John got such

fine support (five errors) that you know he didn't have to pitch too well to get his shutout. Offensively, Tech played batting practice with the two Rio Hondo pitchers. Resney slammed a double and a home run. Diebel contributed to his own cause with a double, and everyone else got hits.

These two wins made Tech eight and eight on the season. Look for the baseballers to maintain that .500 average in their remaining six games.

BY MIKE McCAMMON

Relying on the strength of its stroke men and Ted Jenkins, the Beaver swim team defeated CHM last Friday 54-40.

The medley relay team was unopposed. Larry Anderson took the individual medley in 2:21.7 with Bill Owens third. The Turk brought his time down to 2:30 to win the 200 butterfly. In the 200 back Owens teamed with Mike McCammon to sweep the 200 yd. backstroke. Jerry Nelson then came through in the 200 breaststroke in 2:45 to give Caltech a clean sweep of the non-freestyle events. Caltech divers Chuck Smythe and Rod Bergman faced no opposition.

This was about it for the home team as they were able to win only the 500 yd. race among the freestyle events. Jenkins came back from a fine performance against Redlands to edge out Tom Allen of CHM in a time of 5:55.7 in the 500, but lost by a touch in the 200. George McBean was beaten in both the 50 and the 100 by Lawson of CHM; and the freestyle relay team, swim-

ming poorly, finished far behind Claremont's team.

Despite a fine performance by Rich Touton, who won both the 50 and 100 yd. freestyle races, the frosh lost to CHM.

Prepare for Conference

The swim teams are now preparing for their final big effort, the conference swim meet on May 8. This meet, which until this year determined the conference championship, no longer has this importance. Under a new system, the final conference standings are now determined by the results of the dual meet schedule. In addition, since the meet will be held this year in Occidental's pool, an old and poorly marked facility, it will be much harder for the swimmers to perform to the best of their abilities. These factors could conceivably affect the efforts of some of the swimmers and it is hoped that it will be possible to return this meet to the best pool in the league in the future. In any case, the conference meet should be the best test of the relative strengths of the conference teams. Although it looks like Oxy has too much speed and depth for the rest of the league, the Beaver swimmers have traditionally come up with their best efforts in this meet and the results could be surprising.

Page Downed By Ruddock

BY A. N. ONYMOUS

Ruddock notched its second Discobolus basketball victory by defeating Page 59-50 on Saturday. The win came surprisingly easy as Ruddock led 19-12 at the end of the first quarter and 49-32 at the end of the third quarter. Page was plagued by sloppy ball handling in the first half as Weis intercepted several passes to score 11 points in the first quarter.

Sherman and Shlegeris rebounded exceedingly well against the taller Page team and this, with Ruddock's superior speed in Tucker and Barbosa, was the deciding factor. In addition, Ruddock's teamwork had improved significantly since its Discobolus victory over Blacker.

Dennis McCreary played a fine steady game and finished with 22 points. Burgess hit 14 and Jubin 8. Ruddock scoring was Weis 25, Sherman 12, Tucker 11, Barbosa 7, and Shlegeris 4.

Ricketts has challenged Ruddock in soccer for the next Discobolus match.

Landis Comments

Cardinals Favored To Win

The time of year has finally arrived for all good editors to go out on a limb and pick the winners in major league baseball. I'll do it anyway, though.

Owing to the fact that the American league can't compare with the senior circuit, I will restrict myself to the National league. Sportswriters everywhere agree that there are only six teams in competition for the first division. Houston, New York, Pittsburgh, and Chicago are lucky to be in the league.

Of the six teams remaining, Milwaukee and Philadelphia are battling for fifth. Cleve Herman and the **Sporting News** are both out of their minds picking the Phillies. Of the remaining teams, San Francisco is well known for its September choking. This leaves the Dodgers and the Cardinals. Is there a choice? The Dodgers are dead. All pitch, no hit. Now they don't even have the pitching. Well, fans it looks like this may be the year for the Cardinals.

The Cards had the finest hitting in the league last year. They've started slowly and are still doing all right. Their pitching has improved immensely. It was great at the end of last year. This year it will be even better.

(Continued on page 5)

Pomona Takes Squeaker Conference Finals Soon

In a hard-fought battle to the finish, the Tech golfers went down in the usual manner. Though suffering a 48-6 loss to Pomona, the local divoteers were hanging in there all of the way.

John Vitz, with an 86, and his partner, Earl Reiland, with a 78, were each downed by a single stroke. Dave Hyde, shooting an 84, completed the list of point winners. Also putting in an admirable performance was Bill Colglazier with a 77.

The Tech golfers' next encounter is the Conference finals, tomorrow at Whittier. The tournament will be a 36-hole medal tournament with each school entering a maximum of six golfers. Caltech will enter seven men, but the rest of the league has given us the o.k. since they don't consider any of our men golfers. Since the tournament is 36 holes long, caddies are allowed and any volunteers to be caddies should see Dave Hyde. Hurry; there are only a few places left.

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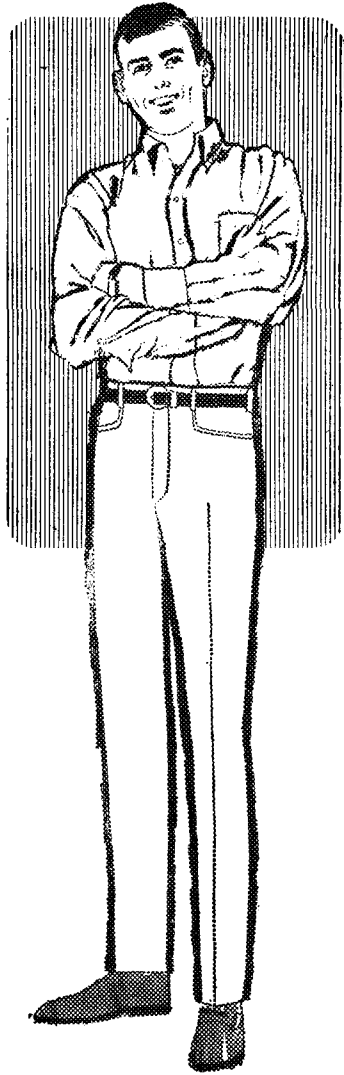
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Caltech Cricketers Tie Corinthians

BY JOHN JOHN

In the first match of the season proper, held fortnight ago Monday at Griffith Park, Caltech forced a fighting draw with the Corinthians.

The Corinthians, batting first, scored a total of 144 runs, aided a great deal by some rather inept Caltech fielding. The wickets were shared between Brady, Cheema, and John. This left Caltech two hours to get the required runs. However with the departure of Gee-Clough, who made a brisk 20, the team resorted to dour defence. This strategy eventually paid off, in that the Corinthians failed to dismiss the team.

Thinclads Beat Pasadena, 86-59; Conference Finals On Saturday

The combined frosh and varsity track team scored their second victory of the season, Saturday, as they downed Pasadena College of the Nazarene by the score of 86-59.

The key man in the victory was Ken Brown. Ken took firsts in both of the sprints and anchored both the sprint relay and the 880-yard relay. These were winning causes. Joining Ken in the winner's circle was George Radke in the shotput. In addition, Steve Garrison in the pole

vault, Pete Wyatt in the intermediate hurdles, Doug Gage in the high hurdles, Charlie Sawicki in the javelin, and Steve Blumsack in the 880-yard run, all took firsts.

Although none of the frosh took first places in any events, they took several seconds and thirds. Pete Cross came through with seconds in the mile and two mile events.

A highlight of the meet was a fine high jump by the Pasadena jumper. He cleared 6' 6 3/4".

He missed three times at 6'9". This is the highest jump seen by the Caltech team in many years.

Both the varsity and frosh travel to Redlands tomorrow for the league finals. This meet should be a replay of the conference relays, where Tech was nearly shut out. The only difference is that Occidental will be there this time. Redlands, who almost swept the relays, will have to take a back seat to Oxy tomorrow.

Cards Win

(Continued from page 4)

The Cards have six good starting pitchers, and a fine bullpen.

No one can compare to the million dollar infield. Four all star players in the infield and a future all star behind the plate. The outfield is fine defensively and the hitting there will improve with time. It'll be the Cardinals this year. Any team which can win 19 out of 20 games in the National league just has to be great. This Cardinal team will be remembered for a long time. With Johnny Keane as their manager, they may dominate the national league for a long time.

The only team with a ghost of (Continued on page 6)



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More Winkler

(Continued from page 2)

this fact. There is usually a 24 hour a day traffic jam in the downtown section, to which drivers react with an angry bedlam of horns. In any clear stretch of street the drivers will roar along at one another at break-neck speed, veering to the left at the last minute. To add to the sport most drivers will not use the headlights at night, only flashing them as they approach in intersection. The pedestrian really takes his life in his hands, which makes things pretty dangerous for a spoiled Californian such as I.

Life in Tokyo

One finds an immense amount of contrast in Tokyo. The downtown Ginza area is lined with huge modern department stores, hotels, and office buildings, very much like any large city in the United States. You do not have to go far, however, to find the narrow, winding streets, the innumerable market stalls, the tiny tempura and sushi bars, and the small houses which characterize most of Tokyo. The common denominator of it all is noise and confusion. In addition to this din of traffic, there is an incessant pounding of jackhammers and roaring of bulldozers, as Tokyo undergoes a massive and long overdue modernization program, sparked by the coming of the Olympics.

After about a week in Tokyo I left on a trip which by a devious route covered most of the southern portion of the country and which lasted seven weeks. During much of this time I was accompanied by a Japanese university student, Terunobu "Terry" Arakawa. He was studying biochemistry and hoped to do graduate work in the United States, and he figured that his traveling with me would not only help me immeasurably but would also give him an introduction to America — "the next best thing to being there" so to speak. He too was interested in paper, and it was through the Nippon Pulp Company that we were introduced. Our cooperative venture turned out to be very successful, at least for me, for I was able to see Japan much more intimately with his help.

Yonago Inn

Our first stop was Yonago, a small city on the Sea of Japan and site of Nippon Pulp's largest paper mill. Here I was the company's guest at a really marvelous Japanese inn — located on the beach and with hot spring water feeding its mixed public baths. The Japanese inn is one of the fine jewels of Japanese culture, and this one was outstanding. Here I began sleeping on the floor, as I was to do almost everywhere, and eating truly Japanese food — rice, seaweed, snails, fish, etc., and rice.

(Continued next week)

Frisco Loses

(Continued from page 5)

a chance of catching the Cardinals is the Giants. The Giants have the greatest ball player ever to play the game, Mickey Mantle included. Mays is great. If he holds up for the whole season, the Giants may be stubborn. However, with their pitching, they had better score at least five runs a game. Their pitching and fielding will probably give up four.

This editor is open to discussion on the topic. All letters should be sent to the sports editor of the **California Tech**. They will be read and considered for publication.

Astronomers

(Continued from page 2)

shift in wavelength towards the red.

While there are many unanswered questions about the composition and the origins of these objects, Dr. Matthews estimates that they make up perhaps a quarter of the thousands of radio sources in the universe. Their spectra indicate that on the surface they are remarkably similar in composition to glowing gas shells that surround some very hot stars. In spite of the mystery, astronomers agree that these strange objects are extremely interesting and should be looked into.

Audience

(Continued from page 3)

anal fashion. The Cinema Theater (Western Ave. near Santa Monica) is becoming a nucleus for a crowd of people which, I suspect, is anxious for serious avant-garde efforts in films, and includes persons who are actually making such films. This looks like the cinema equivalent of Off-Broadway; there seems to be hope of an actual cinema movement developing here, which at best may contribute something important to the medium, and at the least provides us with an exciting place to go on Saturday nights.

Oppenheimer

(Continued from page 1)

are asked to sign up on lists provided in the Houses before dinner next Monday, May 4. (Graduates, faculty, and employees will be handled by mailings, through departments, etc.). Undergraduates not affiliated with a House may sign up in any House. Tickets will be distributed through the Houses later.

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