

—photo by Amos Throop

Historic picture of Throop Hall was among the many shown by President DuBridge in his Assembly presentation yesterday. The picture was taken just before remodeling got under way, as evidenced by scaffolding in background. Note presence of more columns than now, as well as scanty interior structure.

President Du Bridge Tells of Caltech History and Idea

Caltech's President Lee A. DuBridge addressed a nearly capacity audience yesterday on "The Story of the Caltech Idea." Speaking in the "first student assembly in our magnificent new Beckman Auditorium," DuBridge related "what has gone on in the past to make this institution what it is, what were the ideals and ideas" of the people who built it, and "how it adapted itself to changing circumstances."

Throop Begins
The Institute began in 1891

when Amos G. Throop founded Throop University, with facilities in the Worcester Bldg., located at Green and Fair Oaks, now the Green Hotel. The University was a manual training school for the children of all ages that had come to Pasadena since its founding in '74. With 35 pupils, it claimed to be "the best equipped manual training school west of the Mississippi." But it grew so fast that, in the fall of '92, facilities were moved to two new buildings at Raymond and Chestnut, and the school was renamed Throop Polytechnic Institute. The emphasis was still on practical

training for ladies and gentlemen, with cooking, woodworking, and clay modeling as parts of the curriculum, along with the sciences. The Glee Club was known as "the troupe that made Throop famous."

Rate and Hearty
In 1907 George Ellery Hale, who had been Director of Mount Wilson Observatory since its founding in '04, became a Trustee and put forth a new goal for TPI — to become a "technical school of college grade the equal of any school in the country." It was a big goal for the small college that moved to a new site (donated by Arthur H. Fleming) at Wilson and California in 1913, becoming Throop College of Technology. Operating entirely within Pasadena Hall (now Throop Hall), the 16-member faculty taught under the philosophy that humanities should be complementary and subordinate to science in order to produce useful graduates; the idea of putting physics, chem-

(Continued on page 3)

Moessbauer Leaves Tech For Munich

BY TIM HENDRICKSON

Dr. Rudolf Moessbauer, 1961 Nobel Prize winner in physics, will return to the Institute for Technical Physics at Munich, Germany, "late this summer."

In a Monday California Tech interview, Moessbauer pointed out that he is not making a complete break; during "the next three years" he will come back to Caltech for third term.

Moessbauer gave several reasons for his exit from Bridge Laboratory. A native of Munich, he received his B.S. from the Institute for Technical Physics in 1949 and his Dr. rer. nat. in 1958. He now intends to help the Institute make the change-over from the classical German university system to the departmental system as at Caltech.

A second reason given by Moessbauer is that "I don't like the smog here." Because of this he selected third term to return to Caltech; "the smog seems to be the mildest during the spring."

And as a final reason, Moessbauer, grinning broadly, observed that "I have never remained at any one institution for over four years, anyway."

Moessbauer came to Caltech as a Research Fellow in 1960. He became a Senior Research Fellow and Professor of Physics in 1961. In this same year he received the Nobel Prize for his discovery of the "Moessbauer effect," used in solid state and nuclear physics and as a test of Einstein's general theory of relativity.

Debators Argue Education Aid

Two debating teams from Caltech will enter the Annual Cross-Examination Debate Tournament at Pomona College, Claremont, this Friday and Saturday. The Caltech teams are composed of two juniors, Roger Davison and Gary Scott, and two sophomores, Sean Solomon and Dave Close.

The topic of the debates is "that the Federal Government should guarantee a higher education to all qualified high school graduates."

Religious Topic Of Y Lecture

BY ANDY BEVERIDGE

Dr. Barbara Raines, Leader of the Foothill Society for Ethical Culture, described "Religious Humanism" at the Y's second meeting of the Varieties of Religions in America series, Tuesday night in Winnett clubroom #2 at 7:30. Raines, who has a PhD in physics, has been involved in the Ethical Culture Society in California for ten years. Her title of Leader is somewhat equivalent to minister.

Two Here Win Guggenheims

Two Caltech professors have been awarded John Simon Guggenheim fellowships to work on research projects in their fields. They are Dr. Leon T. Silver, associate professor of geology, and Dr. Theodore Y. Wu, professor of applied mechanics.

They are among 312 winners, chosen from 1887 applicants for having demonstrated high capacity for scholarly and scientific research or outstanding creative ability in the fine arts. (Guess which category our professors are in.) The average award this year is \$6,040, to slide-rule accuracy. The foundation was established in 1925 by the late Senator Simon Guggenheim and his wife in memory of their son.

Continents and Europe
Silver will use the fellowship to study the correlation of early episodes in the geological history of the continents, specifically in the pre-Cambrian era. He plans to utilize radiometric methods of geochronology in Norway and North America.

Wu's project will be research concerning viscous effects in free-surface flows. This should result in a better understanding of wakes and related phenomena, and in improvements in the technique for analyzing body motions that create wakes and waves, such as the motion of ships. The larger objective is the gradual broadening of fluid mechanics, especially in relation to geophysics and biophysics. Wu plans to investigate the correlations between these fields in Europe. He explained, "I believe it is important to get away and take a bird's-eye view of what we are doing and what others are doing."

Humanism Y Lecture Y Presents The Cousins

In Ethical Culture it is not what you believe that counts, but "what you do on account of what you believe." The values a person has are derived from experience. The society takes no position about things which can not be proved in a scientific way. A religion consists of three elements — belief, action, and devotion. In this sense Ethical Culture is a religion because there is a belief in the brotherhood of man, and devotion and action to improve man's lot.

The society stands somewhat to the left of both the Humanists and the Unitarians. The similarities between the groups are marked because they all lack a dogmatic position. The society takes no dogmatic stand because such would be hostile to new thought.

Leftist Speaks Here Tonight

Mr. Steve Murdock, left-wing journalist and political analyst, will speak on "The Press and Politics in California" at 7:00 p.m. tonight in Chandler Dining Hall.

The Caltech YMCA is sponsoring the event and invites interested students to have dinner with Murdock at 6:15 in Chandler. (Undergraduates who normally eat in the student houses are entitled to \$1.35 worth of Greasy food.) Please let the Y office know in advance if you will be coming for dinner.

Murdock has been active in radical activities in California since the 1930's. His firsthand experience with the sometimes turbulent California labor movement includes active participation in the railroad and agricultural strikes that occurred in this state during the 1930's and 1940's. While he is interested in all phases of the California labor movement, Murdock is especially interested in the problem of migrant labor.

Following Murdock's talk, a reception and informal discussion will be held for those interested at the home of Mr. John Zeigel. Appropriate discussion-enhancing refreshments will be served. (The Y intends to have a New York Times reporter present a different view of California politics in the near future.)

Y Presents The Cousins

This Sunday evening, April 12th, at 7:30 p.m. in Beckman Auditorium, the Caltech YMCA Film Series will present "The Cousins." This film, one of the recent (1959) productions of the French "New Wave" writer-director Claude Chabrol, will be the highlight of this year's film series.

The major characters in "The Cousins" are two law students, cousins, who are as different as two students could be. The first is urbane, very bright, nihilistic, and seldom attends classes. He spends most of his time planning and conducting orgies. The second is idealistic, romantic, and not too bright. He spends his time attempting to study in the same apartment complete with its atmosphere of "total dissipation" created by his carousing counterpart.

Hard to Criticize

The critics found this film very difficult to appraise, although almost all of them agreed that it was a remarkable achievement. The redoubtable Bosley Crowther of the *New York Times* considered the film to be "... the most dismal solution to ... the problem of youthful disillusion." Pauline Kael, veteran of *Film Quarterly*, has written "... 'The Cousins' doesn't offer any solution ... it tells a story."

The explanation for these widely different and yet agreeing positions may be found in the critics' frame of reference. Most unconsciously associated and identified themselves with the idealistic, tragic figure in the film and, as a consequence, have written "dismal" reviews. Others have taken the film as a whole without being aware of the complex problems which Chabrol is presenting.

According to J. H. Rickerman, YMCA Film Series chairman, "We at Caltech, however, need not view this film from the position of an uninitiated reviewer. We have the unique ability to see from the position of the principals. This makes our Sunday presentation an ideal choice for students, in addition to its being a fine artistic film."

Film notes will be supplied, as usual, and a short will accompany the main presentation. Admission is 75c.

Roy Wilkins Next Leader of America

Roy Wilkins, Executive Secretary of the National Association for the Advancement of Colored People, will visit Caltech Wednesday and Thursday, April 22 and 23, as the YMCA's third Leader of America this year. Wilkins will speak on the history of the racial problem and the NAACP, and the future of the civil rights movement. Discussions will cover such topics as the power struggle in the Senate over the civil rights bill, relations between various organizations within the civil rights movement and the place of the white college student in the movement.

Time Magazine has said that "if there is one Negro who can lay claim to the position of spokesman and worker for a Negro consensus, it is a slender, stoop-shouldered, sickly, dedicated, rebellious man named Roy Wilkins." The main event of his visit will be an address on Wednesday evening, April 22, in Beckman Auditorium, when Wilkins will speak on "The Drive to the Civil Rights Explosion of the Sixties."

Notices

KENNEDY MEMORIAL LIBRARY DRIVE

If anyone is interested in running a fund drive to aid the Kennedy Memorial Library to be erected in Cambridge, Massachusetts to house the late President's papers, please see Rodger Whitlock in Page, or leave a note. This drive will be during late April and early May.

RECORDER SOCIETY

The Caltech Recorder Society meets Sunday at 2:00 p.m. in Clubroom 2, Winnett. Visitors and new members eagerly awaited.

THERE WILL

be a Coffee Hour at 3 today — Winnett Lounge.

Editorials

PE Revisited

When the new PE program was discussed and decided last year, the general consensus of opinion was that there existed a desperate need for a change of systems. After a trial of two terms, the PE program has shown to the majority of the students a marked improvement. In an evaluation of this program, the **California Tech** has some comments and suggestions.

To begin with points we like, the idea of only two years of PE and a two-day-per-week requirement coupled with an adequate instructional program is good. By the time a man has reached the age of nineteen or twenty, the decision of how much athletic activity he should participate in ought to be his own. The only advantages of having PE in college at all is to satisfy those who enjoy athletics and give the rest an opportunity to try out a few sports in hopes they will find one that they will enjoy. Two hours per week is much easier to fit into a crowded schedule than three. Anyway two hours of instructional PE is worth much more than hours of playing volleyball in the smog.

The grave forebodings heard last year that Interhouse and intercollegiate sports would suffer because juniors and seniors would not come out without required PE has been proved completely unfounded.

However, complaints have been lodged about the PE system. The major criticism heard from the sophomores is that they have to take a different activity for each term. Some persons complain that they have just gotten to enjoy an activity and are getting some good out of it when they must go on to some other sport which they do not like. To be specific, why should a person who has discovered that he enjoys tennis be forced to take weightlifting or badminton, which he neither enjoys nor benefits from? The same holds true for frosh who are rushed through six activities per year. The **Tech** believes that a choice of activities should be offered with the possibility for an individual to skip some sport, for instance gymnastics, for which he is not physically or psychologically suited.

The **Tech** would like to see the possibility for sophomores of repeating a sport twice. This could be arranged so the coach of a sport would approve the repeating of that activity by a person. This approval would be based on the coach's opinion of the benefit to the specific person of continuing the activity.

The **Tech** believes that the PE program should be designed for the enjoyment and benefit of the students, and not what the PE department thinks we need to exercise our frail unexercised bodies. An hour of PE should be a time of fun and relaxation from classes and studies, and not a long hour of uninteresting drudgery.

—Wally Oliver
Stuart Galley

Bishop's To Present
St. Joan In Beckman

Highlights from George Bernard Shaw's **St. Joan** will be presented in Beckman Auditorium at 8:15 on Saturday, April 18, by the Bishop's Company, a nationally famous repertory company. The program is sponsored by the Caltech YMCA. (The one act play, **Occupied Territory**, which was announced to appear on the program has been dropped to allow for an expansion of St. Joan.)

Best Joan

This play is considered by many to be the finest work about Joan of Arc. It not only portrays the simple peasant girl who crowned a king and saved a nation, but it explores the significant relations between church and state.

The Bishop's Company, which was well received at its Caltech appearance last year, has performed on campuses throughout the nation. It is the first American touring company to revive the tradition of church-oriented drama.

Admission will be \$1.25, \$0.75 for students, with profits going to the Y's service projects fund.

The Bishop's Company will have the honor of being the first group to attempt to stage a

dramatical production in the newly dedicated Beckman Auditorium. The first two rows of seats will be removed and a temporary stage will be put in place to enlarge the cramped stage area of the auditorium.



THIS AND THAT

Yesterday, Today, and Tomorrow is another of the tripartite ilk of **Boccaccio 70**. The title is irrelevant; the three episodes are all in the present, and their displacement is spatial, with scenes set respectively in Naples, Milan, and Rome. Each episode is a vehicle for Marcello Mastroianni and Sophia Loren, who seem to love the chance to demonstrate their versatility by switching from one extreme of character to another. Of the three sketches, the first two are what I'd call humdrum; the last one is very funny.

Good Hearted Whore

Of numbers one and two, I'll only say that they're put-up jobs, clichés about Naples and Milan that even I, who have no acquaintance with Italy beyond what I get in the flickers, recognize as tired. Everybody in Naples is loud, passionate, poor and warm-hearted; everybody in Milan is rich, sophisticated, and rather bored. In number three, Miss Loren is a Roman callgirl, and Mastroianni is a feverishly avid member of her clientele. Proceedings are interrupted when Loren accidentally captivates the young divinity student who lives next door. The humor of the thing is provided by Mastroianni's foaming at the mouth, as his purpose is thwarted by one thing after another — this is the best thing he's done since **Divorce—Italian Style**. Miss Loren brings a satisfactory light touch to the role of goodhearted whore, and she's very, very easy to look at. The biggest drawback to **Y. T. & T.** is that it is avowedly, aggressively trivial, providing no intellectual or spiritual nourishment whatsoever. Like a dinner of underinflated cream-puffs, it is likely to leave you with feelings of malnutrition.

Significantly Fraught

On the other hand, **Point of Order** is fraught with significance (it says here). **P. of O.** is a documentary made up of film clips from the Army-McCarthy hearings, and it comes highly recommended as a reminder of what can happen here, and as a warning to future generations. Perhaps it succeeds in the first objective — most of the praise seems to come from persons who recall the McCarthy era — but I'm afraid it fails in the second. In fact, if I hadn't known something about McCarthy in advance it would have been hard

By Steve Schwarz

to tell just what was going on.

It simply does not do to go into **Point of Order** as an unbiased observer — one may as well take **Operation Abolition** with an open mind. Here is an amalgamation, cut and pasted together by somebody to illustrate something. It seems obvious that by cutting and pasting suitably the maker could have "proved" anything whatever that he wanted. Moreover, the audience is all too likely to forget that such a thing as cutting exists, and be entirely taken in. I'm not saying that any falsification is present, mind you; but I've heard the film acclaimed as a historical document, and even the suggestion that it be shown in the schools. That is utter nonsense. The best thing about **Point of Order** is the marvelous jobs of acting turned in by the real life McCarthy and Welch (the army counsellor). Thanks, no doubt, to clever editing, McCarthy comes out with the visible physical appearance of a no-good skunk, while Welch comes out a cross between Daniel Webster and Ivanhoe.

* * *

NOW HEAR THESE

It's debatable that movies are better than ever, but starting this week they're closer. For those who haven't heard, there's a new, honest-to-goodness art movie house opened in Pasadena, called the Esquire. Their first offering is a French film called **Lovers of Ternel**. Reports have been contradictory, which is generally the sign of an interesting movie. I gather it's ballet-influenced, symbolic, and highly arty, with lots of experimental innovations. Students get in for ten bits.

Even closer to home is the YMCA showing of **The Cousins** next Sunday in the Beckman thing. This film is among the best I've ever seen, and I'd recommend it more than that if I could think of how.

Alaskan Jolt
Rings Earth
Like Bell

The recent Alaskan earthquake set the earth ringing like a bell, according to Dr. Frank Press, director of Caltech's Seismology Laboratory. The jolt, of magnitude 8.2 or more, acted as a giant hammer, striking the earth and setting it ringing at its own natural frequencies. Due to its rotation, the earth has two fundamental pitches. Their periods are 53.1 and 54.7 minutes, or in musical terms they are about 20 octaves below middle C.

Last week Caltech flew two portable seismological stations to Alaska to record aftershocks. Dr. Press commented, "Aftershock activity will continue for months or even years. These stations will provide valuable data on the length of the fault and the amount of strain released. The equipment will include a strong motion seismograph to provide information on ground acceleration that will be useful in designing new buildings for the area."

Ring Effect Discovered

For more than 80 years theoreticians have discussed the possibility of such oscillations being touched off in the earth. This was verified in 1960 when Caltech instruments first detected the bell-ringing effect from a large Chilean earthquake. The oscillations continued for two weeks before fading out, enabling seismologists to "map" the fault action that caused the quake.

Describing this motion further, Dr. Press said, "In the fundamental mode the earth changes shape, slightly, alternately compressing at the equator and simultaneously elongating at the poles, with respect to the earthquake's epicenter, and vice versa. The amount of motion in this oscillation is very small, less than the normal tidal motions of the earth."

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Wally Oliver, Stuart Galley

Managing Editor
Norton Greenfeld

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Jim Austin, Bob Berry, Andy Beveridge, Bob Gillon, Tim Hendrickson
Photographers: Phil Laipis, Kent McCaulley, John Williams

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Circulation: Stewart Davey

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Hootenanny



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Whittier Gets Two; Tech No-Hitted

The Caltech varsity nine opened its league season Saturday by dropping a pair to Whittier, 7-1 and 5-0. The losses, while annoying, were not really surprising since Whittier is the hands-down favorite to win the league championship this year.

The story of both games lay in the Whittier pitching. In the first game a southpaw by the name of Jones threw a three-hit game without really trying. This was the first time the varsity has ever seen Jones, but the sophomores had seen him before as frosh and had warned the rest of the team what to expect. When Jones retired the first man without throwing anything that our own chuckers couldn't match, the sophs took a little gas. Weber stepped up to the plate with a confident smile on his face, and Jones threw him his fastball. Bill swears he was still watching for the pitcher to release the ball when he heard it land in the catcher's glove. Much shaken, Bill fanned, setting the standard for the day.

Lone Score

Tech's lone scoring effort came in the fourth inning when with one out Weber walked, ruining Jones' perfect game. Tom Resney then singled to move Weber along to second base. Jones then made the mistake of feeding Dahlman one of his fast ones. Gary probably didn't see it, but, then, neither did the Whittier catcher. The ball sailed by, or perhaps through, his mitt to the screen, advancing both runners. Dahlman then picked a little more reasonable pitch and sent a fly ball deep enough to center field to allow Weber to score after the out with Tech's only run of the day.

The second game was too sad to write about. A right-hander

Ruddock, Ricketts Win IH Basketball

The Interhouse basketball season got off to a fast start, Monday, as both Ricketts and Ruddock notched victories over Page and Lloyd, respectively.

Ricketts got off to a very fast start and raced to a 17-12 lead at the end of the first period. This was sparked by an eleven-point period by Frank Potter. Page crept up to tie the score at 30 all. This period was marked by sloppy play and sloppy defense by both teams.

Ricketts moved the ball better in the next period and spurted for ten quick points in the be-



ginning of the half. Hot shooting hands and the fast break marked this spurt. The rest of the game was a standoff as Page couldn't cut the lead. The game ended at 49-41.

In the other game played Monday Ruddock stayed off Lloyd in a close one, 38-33. Lloyd was

extremely cold at the start and fell to an 11-4 deficit despite the cold shooting of Ruddock. The game Lloydmen stayed in the contest till the end, but they just couldn't beat the Ruddock lead. Beeghly of Ruddock and Angel of Lloyd were the high scorers with 12 points.

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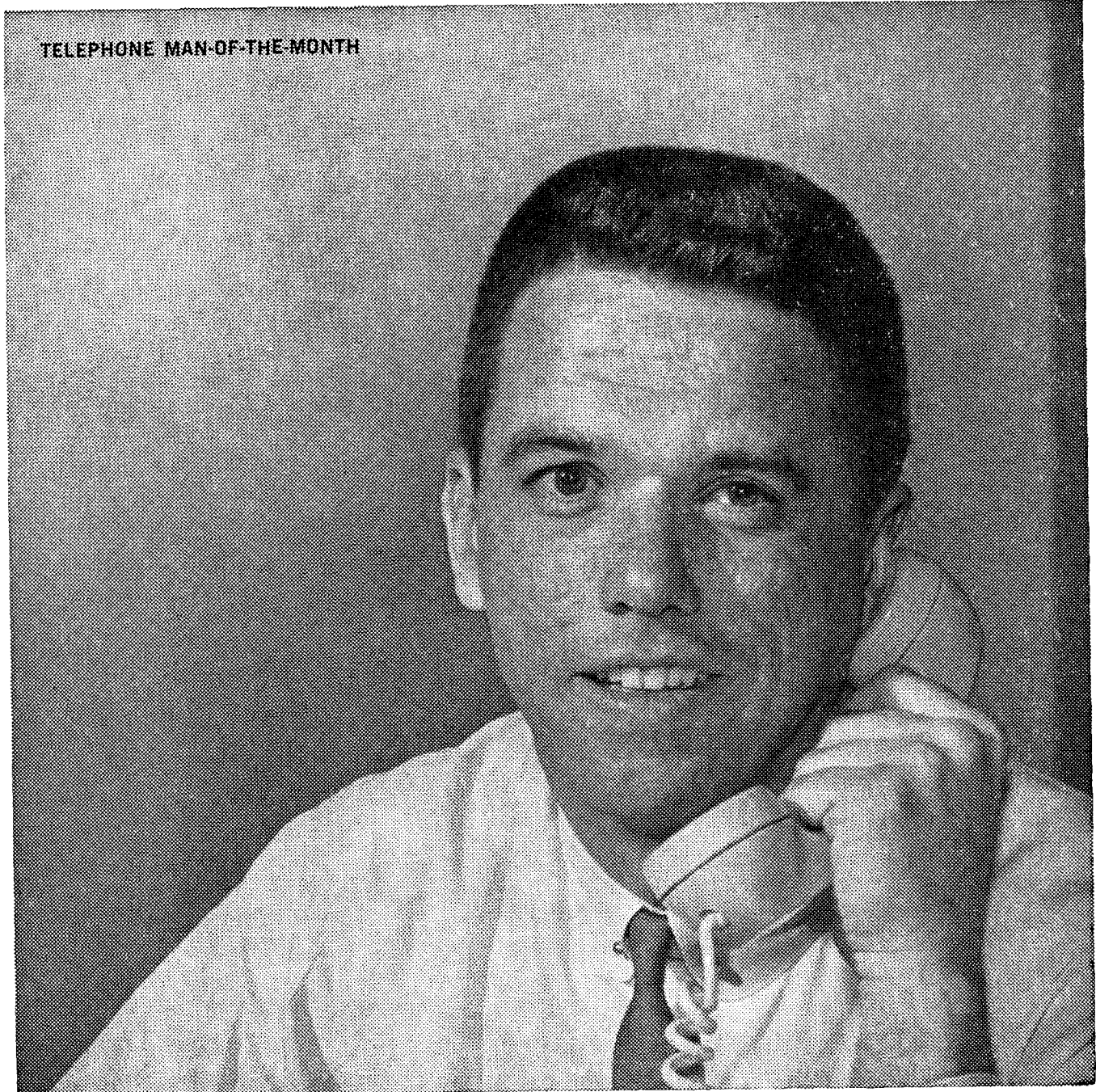
His present assignment puts him at the hub of telephone operations, a pressure job that demands the very most of his telephone knowledge and his supervisory abilities.

Herb Sutton, like many young engineers, is impatient to make things happen for his company and himself. There are few places where such restlessness is more welcomed or rewarded than in the fast-growing telephone business.



BELL TELEPHONE COMPANIES

TELEPHONE MAN-OF-THE-MONTH



DuBridge Speaks

(Continued from page 1)

istry, and math at the center of the curriculum was a new idea, imported from MIT.

Becomes Caltech

In 1917, with A. A. Noyes, former vice-president of MIT, and Robert A. Millikan, of the University of Chicago, having joined the organization, another new facet was added to the Caltech idea: "to go into the field of research and graduate study." World War I postponed the adoption of the new overall policy, whose original words are still used in the catalog, but in 1921 the California Institute of Technology came into being.

With the emphasis now "equally on basic sciences and cultural studies," engineering applications being to the side, building after building sprang up around renamed Throop Hall. Men like Morgan, Bell, Sorensen, Thomas, Karman, and Sterling (now President of Stanford) joined the organization. World War II found most of the students in Navy uniforms. JPL, Palomar, and the synchrotron were added; then in 1958 a major development program began, the source of all the new buildings now planned and under construction.

Concluding, DuBridge said that Caltech is "a place to build men, men of ability, into men of character and integrity . . . This is your institution; your opportunities are here . . . to become the men our country needs."

Spikers Beaten; Freshmen Sparkle

The Caltech trackmen traveled to Pomona last weekend and came out on the losing end of the score. The individual performances hoped for didn't materialize, as the long holdover seemed to have affected the individuals.

The frosh spikers lost their second dual meet of the season on Friday to Pomona 80-64. The frosh showed power in the field events but failed to win a race.

In an amazing performance, Walt Innes took one first and three seconds after spending the morning in the Health Center. Gary Ihas took a first in the intermediate hurdles and a second in the highs. Peter Cross threw the javelin 140 feet, an improvement of 13 feet over his previous record, and good enough for a first. He also captured a second in the two-mile run.

The big star of the meet was Pomona's Don Hoyt. He raced to a school freshman two-mile record after victories in the half mile and mile.

Scott Leads Darbs To Ski Victory

Spearheaded by Bob Scott and Richard Touton, Dabney swept to a victory in the 1964 Inter-house ski meet.

Scott, winner of both the slalom and the giant slalom, raced down the slalom slopes twice in an accumulated time of 40.7 seconds to beat out second-place Touton by almost four seconds. Touton had trouble with spills on the giant slalom course and as a result, Dave Goodmanson of Page finished second in 91.0 seconds, behind Scott, who made it through the course in 89.8 seconds. Pete Cross of Ricketts took third place in both events.

Brewing



Sir Robert Chiltern: You think science cannot grapple with the problem of women?

Mrs. Cheveley: Science can never grapple with the irrational. That is why it has no future before it, in this world.

—Kalbfus' "Manfred"

Something there is that doesn't love a Tekman. Ah, the sorry, sorry lot that befalls us when we fall under the mesmeric influence of Destiny. The case in point moves Beak to inhuman sympathy for its victim.

Hornswoggler, denizen of Buttock House and well-known sog-gier star, known more familiarly now as the Fallen Innocent, began his saga near last midterm time, when he met a comely wench from PPC at a dinner sexchange. While eating it with the wild and woolly one, Hornswoggler made date (the very first one in his blue-eyed life) for Big Fat Party; then early next week was he called and invited to her novaya pad, for a padwarming. Leaving at midnight, he can hardly be blamed for keeping her warm until seven before the meridian, and who knows what they discovered together for eight weeks thereafter.

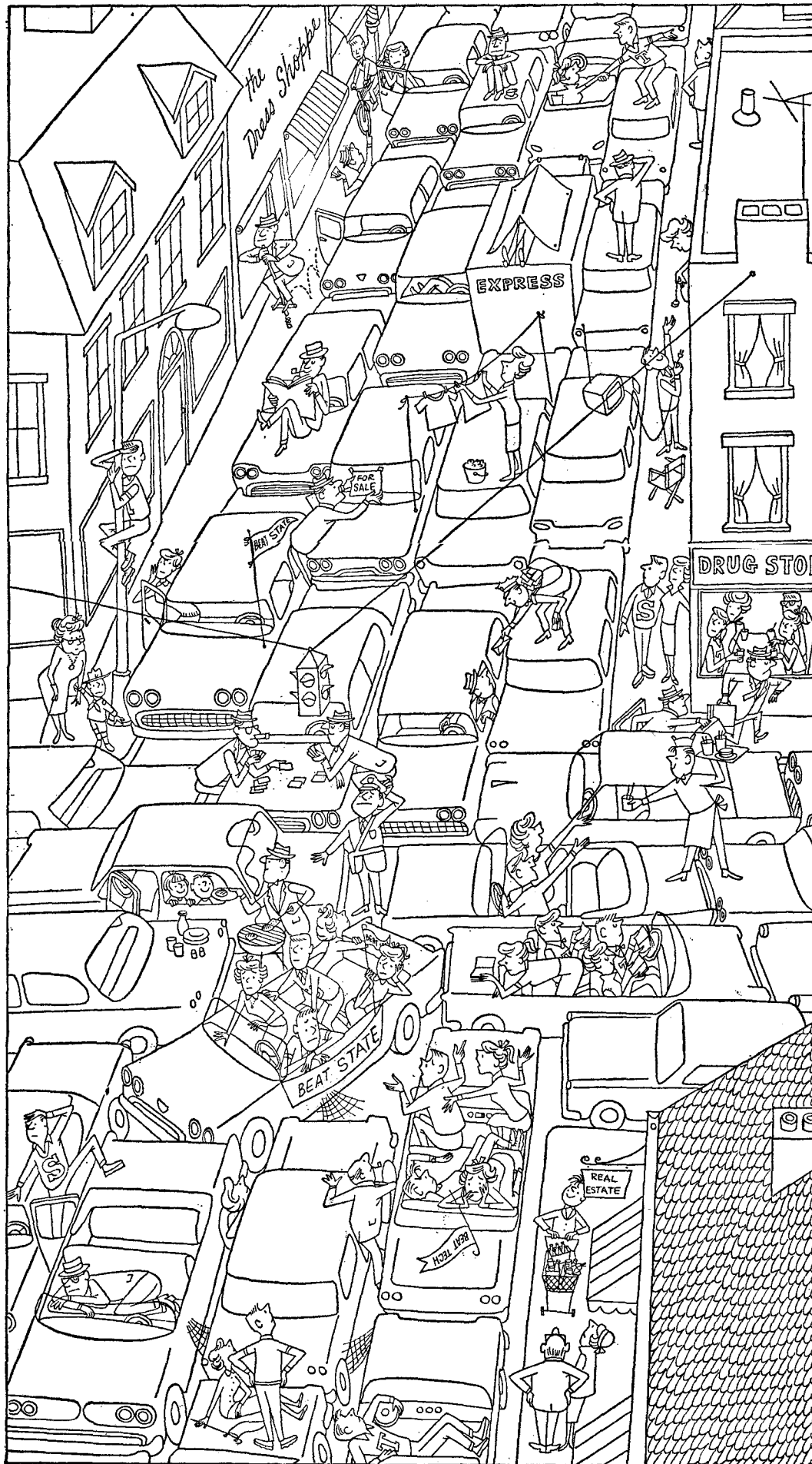
A sad tale? Yes, dear friend, for then did the bliss end, as she, taking a leap like the year, proposed to him her alternative, at which he could but be dismayed. Well, kissing off the first one, Hornswoggler now consults DSC Shuckstrain to find a second one, just as woolly but not quite as anxious for domesticity to

match forward plasticity.

Just a reminder for a Happy Barfday wish to El Presidente of the Northeast House. And barf it was, on and on and on, from the source, which was nine or eleven Scotia drinks, down the tubes of El Janitore's sink.

After a gay party at The Truck, adjournment to presidential lair brought infinite rounds of handshaking and even more promises to various innocent bystanders not to divulge the sacred inner contents of our hero's gastro-nomy.

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