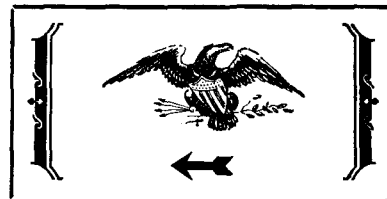


What is black and white and yellow all over?

California Tech

Associated Students of the California Institute of Technology



Volume LXV.

Pasadena, California, Thursday, May 7, 1964

No. 27



—photo courtesy of somebody or other

Jan Kistler is the leading lady in the ASCIT play, now being presented nightly in Culbertson Hall. Tickets for the 8:30 performances of tonight, tomorrow, and Saturday are available at the bookstore and at the door.

Six Characters Now Searching On Stage

BY HATTY HOPHEAD

Last night in Culbertson, Pirandello's "Six Characters in Search of an Author" sprang to life and took over from the poor unfortunate actors who were trying to rehearse a play. Pouring out their pain and philosophy, they succeeded in captivating the audience and dragging them right into the turmoil of their tangled lives.

The Characters posed the problem of Illusion versus Reality: Is life real or is it all just a big mirage? They didn't answer their own question; they left that to the audience. However, they certainly provided plenty of food for thought, and the violent conclusion of their ex-

pedition into reality was certainly shocking enough.

Performances were on the whole credible. Jay Romney was (Continued on page 2)

Niemann Dies On Vacation

Dr. Carl G. Niemann, professor of organic chemistry and one of the nation's leading chemists, died April 29 of a heart attack in Philadelphia. Niemann and his wife, Mary, were enroute to Europe for a vacation. He had been attending the annual meeting of the National Academy of Sciences in Washington and presided over a session of the Academy's chemistry section. A memorial service will be held Tuesday, May 12, in Dabney Lounge at 3:30.

He had made outstanding advances in the understanding of enzymes, and he has made contributions to the chemistry of amino acids, peptides, carbohydrates, and lipids. He once served as chairman of the Caltech faculty. Niemann also was a consultant of E. I. DuPont de Nemours Co. and Smith, Kline and French pharmaceutical company. He was author of many scientific papers and an editor of the series of volumes "Organic Reactions."

He was awarded the Presidential Certificate of Merit for his war work. He joined the Caltech faculty in 1937, and was appointed professor in 1945. He was elected to the National Academy of Sciences in 1952, and was a member of several professional organizations.

He is survived by his widow and two daughters, Mrs. Robert P. Krueger, and Linda, 17.

Lost Weekend, Prom Set For Coincidence

BY WALLY YIRBOFSKY

Lost Weekend, May 15-17, will include a banquet, trip to Catalina, and a brunch. On the Friday night of Lost Weekend the all-class prom will be held in the Huntington-Sheraton. This is a separate event from the Lost Weekend program.

According to Dave Jackson, ASCIT social chairman, the Lost Weekend banquet will be "the greatest dinner served at the cheapest price." The banquet will be served Friday evening, May 15, preceding the prom. The menu includes beef teriyaki, sweet and sour pork, and lobster tail. The price will be \$2 per couple for the barbecued meal, which will be served on the Olive Walk. This is a non-Saga affair.

The highlight of the weekend will be a day long journey to Santa Catalina island on Saturday. This is a repeat of last year's highly successful trip. The charge will be \$8 per couple. Again ac-

Wilm Shaxpr's Women Here

"Shakespeare's Way with Women," an anthology from Shakespeare's plays, will be given in Beckman on May 16 at 8:30 p.m. The presentation will star John Houseman and Nina Foch.

The event is sponsored by the Faculty Committee on Institute Programs and Assemblies headed by Drs. J. Kent Clark and Oscar Mandel. This presentation was given successfully at the UCLA Shakespeare festival. All seats will be \$2.50 with any student receiving a \$1 discount on presenting his student body card. Tickets may be purchased at the Caltech Bookstore or at the door.

EPC Poll Produces Some Preliminary Evaluations

Results of the Educational Policies Committee's Instructor and Course Evaluation Poll were recently distributed to over 100 instructors teaching undergraduate courses. Each teacher received a distribution of his students' answers to each of the poll's 20 objective questions, a numerical average of these responses, and a summary of all student comments received.

The poll was undertaken last term with the cooperation of ASCIT and with major financial support from the Institute's general contingency fund. To facilitate processing of data, each set of poll answers returned by an undergraduate was punched onto an IBM card — over 3000 cards in all. These cards were sorted by courses and the results were summarized in usable form by the IBM 7090 system. Freshman Kim Gibson helped the EPC greatly with his programming skills.

Due to money limitations, analysis of the poll results is

not yet complete. Overall results for each Division and for the school as a whole will be compiled and published in the near future by the newly-appointed EPC members. Detailed ratings of individual instructors will not be published.

Among the most highly rated courses in the poll were AM 95, AMa 101, Ch 14, Ch 144, Ec 4, Ec 126, EE 101, EE 115, En 10, Ge 1, ME 17, Ma 1, Mu 1, Ph 1, Ph 107, and Pl 102. Not surprisingly, high course ratings were most often associated with high opinions of individual instructors. One interesting result was that some graduate teaching assistants were rated as high or higher than many faculty members; one of the most highly rated courses, EE 101, is in fact taught entirely by graduate students. Also, most students seem to feel that they attend classes more often than is worth their while.

A subject of lively discussion has been the new Physics 1 and 2 courses. Opinion on the new physics program was by no means unanimous, but most freshmen and sophomores liked the new courses and their texts very well. In general, the criticism that the new physics courses are taught for the benefit

of a small number of physics majors is not widely held. Physics 1, in particular, was highly rated; the EPC believes that the efforts of the physics department have led to a marked improvement in the presentation of the course.

Many transitional difficulties of the past 2 years have been lessened or eliminated completely. Despite the criticism of some juniors who have taken the courses in the past, the new Physics 1 and 2 courses apparently are well received by those (Continued on page 2)

Notices

QUICKLY

Turn in Lost Weekend Questionnaires immediately, or sooner if possible. Don't miss out on any of the phantasmagorically bitchin' events to be held on the weekend of May 15, 16, 17.

COFFEE HOUR TODAY

There will, as usual, be a coffee hour in Winnett today at three. Come and bring a faculty member to look at the art display, and eat or drink the varied goodies available.

Y LOST AND FOUND

The Y's Lost and Found, a rather full closet in a corner of the Y office, may have your Feynman physics book, slide rule, false teeth or rosary. Check for your lost items now, before they are disposed of at auction on May 22.

STUDENT SHOP

There will be a cleanup of the student shop Saturday, May 9, from 10:00 a.m. to 4:00 p.m. Applications will also be accepted from anyone not presently a member who wishes to use the shop this summer. Anyone presently a member is entitled to use the shop during the summer without further charge.

USHERS NEEDED AT BECKMAN

If you want to be a permanent paid usher, ticket taker or ticket seller, sign up with Mr. Nelson at Beckman, ext. 1653.

SURFIN' IS THE ONLY LIFE . . .

There will be a meeting of the Caltech Surfing Club at 7:30, TONIGHT, in the Lloyd Conference Room. Officers will be elected and the results of the "Get money from ASCIT" campaign will be discussed. Be there!

RECORDER CONCERT

The Caltech Recorder Concert, perhaps the most erudite and unusual organization in Pasadena, will play again this Sunday at 2 p.m. in Clubroom No. 2 in Winnett. If you play, or even if you just wish you could, come on up. Remember, some of the greatest men on Earth have played the recorder; you can be one too. Come.

LITTLE T ADDRESSES

If you want your address in the little t changed, put the corrections in the C box in Ricketts or the little t box on the second floor of Winnett.

SOPH POOL PARTY

The Alumni Pool will be the scene this Saturday of a party for the members of the sophomore class. Come (stag or drag) about 1:00 and stay until the pool closes, to enjoy the water, and the food and liquid refreshments. If you're a sophomore, you've already paid for it, so take advantage.

Academy Of Sciences Names C. B. Millikan

Dr. Clark B. Millikan was elected to membership in the National Academy of Sciences at the Academy's annual meeting, held April 28 in Washington, D. C. Millikan has long been a professor of aeronautics at Caltech and director of the Graduate Aeronautical Laboratories. In regard to his new honor, Millikan said that he was "very sur-



Dr. Millikan.

prised, and obviously honored and pleased."

The Academy is a hundred-year-old association of outstanding scientists and engineers, organized by an act of Congress to further science and its use for the general welfare and to advise the President and Congress on technical matters. New members are elected in recognition of outstanding achievement in scientific research. Millikan's (Continued on page 4)

According to Jackson, the weather in Pasadena will be "hot and smoggy" while there will be balmy breezes on the beach.

A free brunch will be served in Manning's Coffee Cafeteria in Pasadena on Sunday morning from 9:30 to 11:30 a.m. The main attraction of this event is that it is free, a rare situation when Lost Weekend is concerned.

The girls will be housed in Page for a charge of \$1.50 per date per night.

Debators Win Awards At Tournament

Six Caltech speakers received ten awards last weekend from the Pacific Southwest Collegiate Forensic Association Spring Tournament held at Pasadena College. The awards were three second place trophies in three events, a third place trophy, three certificates of superior rating, and three certificates of excellent rating.

Winning second place and a superior certificate in senior division debate was the team of Sean Solomon and Dave Close. Second in Lincoln-Douglas style debate (one-man teams) went to Dan Metlay along with an excellent certificate. In extemporaneous speaking, Caltech took both second and third places and two superior certificates. Second place went to Solomon and third place to Close.

Thirty-three colleges and universities from California and Arizona participated in the tournament. This brings Caltech's season record to 58 rounds of individual competition, and 121 debates of which we won 69.

Editorials

Help!

The newspaper you hold in your hands is the product of the toil of many people. Reporters, photographers, feature writers, sports writers, writers of garbage and fill, section editors and a business manager all work at producing the official news organ of ASCIT every week, theoretically leaving organizational duties only to the editors-in-chief, us.

But this rosy picture can use some improvement. Most important, we need a new sports editor, the present one becoming swamped with duties as a House President. If you were to volunteer for this job, not only would your name appear in bold-face in the mast-head, but innumerable opportunities to meet people and wield influence would come your way. For a few hours spent each week, with most of the work along the supervision line and a few chances to spout your brilliant ideas, invaluable experience can be yours; and you can get three units of A by BSing in En 15 at 4:00 on Thursdays.

There are also many, many lesser positions available. If you have the least bit of confidence in your ability to write reasonably, we are hungry for your outpourings. Reporting news, interviewing campus personalities, writing occasional humor, describing sports events — in any of these capacities would we welcome your help. If you like to take pictures of anything at all, we might be able to use them in the **Tech**. Or if you have artistic inclination, you might like to draw cartoons, heads for columns, or fealthy peektures. Even if you only read well, you can read proof on Tuesday nights and get the jump on your friends with news.

The most important thing is, that if you are reluctant to have the obligation to produce something every week, whether you want to or not, then this frightening situation can be avoided. We would be overjoyed to know your name, your abilities, and how you can be contacted for infrequent, occasional assignments. If you get an inspiration while taking a shower, and write something even remotely worthwhile, we would receive it gladly, advocating that it be published. You needn't be credited for your work, and it needn't be regular; if it is regular, then the aforementioned units of A are yours for the taking.

If you love your country, or your home town, or physics, or your navel, or anything — drop by some Monday night and join the group. We are confident you'll like it.

—Stuart Galley
Wally Oliver

Boyd Speaks on Mormon Group

BY ANDY BEVERIDGE

Dr. George Boyd, who has taken graduate work in comparative religion at Berkeley, spoke on the Latter Day Saints Church at the Y religion series last Tuesday in Winnett. Boyd outlined the history of the Mormon religion, and discussed the theology of this sect.

The religion, which is American in origin, started in 1831 with a divine revelation to Joseph Smith in New York. Driven across the country by persecution, the group has settled in Ohio, Missouri, and Illinois, always to be driven out by the other settlers. Finally, under the leadership of Brigham Young, they arrived in Salt Lake City. There their settlement flourished and grew, and the sect now claims over two million members.

The Mormons are mainly known for their non-conformist views on polygamy and the status of the negro. Boyd discussed both at some length. Polygamy was practiced because the leaders thought that it was the will of God, not because the Mormons have any unusual sexual drives.

The status of the negro causes the Latter Day Saints many other problems. The negroes may achieve everything a white man may in the church, except admission to the priesthood. The priesthood consists of over half a million Mormons, so this practice relegates the negro to a second-rate position.

It is felt by many leaders of the church, that this practice may be abandoned before too long and the negro will be admitted into full partnership in all of the church's functions.



BY DICK MCGEHEE

The show at the Ice House this month can best be described as "unethnic" and "not for the folk purist." If you like Bob Dylan, but think the Kingston Trio and the Smothers Brothers are too commercial, you'd better miss this show.

The Turtles are back again as the feature performers, and, although the jokes were just as corny the second time, they seemed to be very well received by the big audience which was there Friday night. The only change I could detect in their program was that they moved their serious number to the middle and sang a piece from "West Side Story" for their encore. Their show is still mostly original satire on modern America.

The best performer of the show is a little pantomiming Frenchman named Pradel. He has been in acting for ten years and left Paris three years ago on a world tour. He has performed in 35 countries and just started in the U.S. I admit that my knowledge of the art of pantomime is limited to watching Red Skelton on TV, but Pradel really impressed me as an artist. He is a master of facial expressions and there is never any doubt about what he is doing. He kept the crowd in stitches his whole performance, and your sex education just isn't complete

until you've seen his "Creation of Man and Woman."

When I talked to him after the show, he made a point of telling me to mention that he is assisted by his sister Dominique, so I am pointing out that the blond who talks out on the stage before each pantomime and holds up the flag announcing the title is his sister.

Starting off the show are the Cherry Hill Singers, a group of three clean-cut college-age kids who have Kingston Trio written all over them. There used to be four of them, but Uncle Sam called, and then there were three... (and I don't think the story is over). One of them is from New Jersey, another from Texas, and the third from California, so they named themselves after a place near Denver. They've only been together since September, and it shows.

They're basically talented (anybody with a Martin has taste, if not talent), but they lack stage presence, and frequently the lyrics are muffled or drowned out by the accompaniment. They do get off a few good lines, however, and they are enjoyable to listen to. With a little polish, they'll be good.

If you go to the Ice House this month, be sure not to miss Pradel and Dominique; as long as you're there you might as well see the other two acts — they're not disagreeable.

EPC

(Continued from page 1)

taking them now. Incidentally, the most highly rated textbook in the poll was another physics book — the Physics 112 text.

The ultimate effect of the poll will probably not be evident for some time. The EPC feels its influence will be felt mainly in improved teaching techniques and better course organization. The poll was not intended to be a verdict on any individual's teaching capabilities, nor to provide a means of revenge on any unpopular instructor. It was intended to provide an objective, constructive form of feedback from students to faculty members in order that the quality of undergraduate instruction at Caltech might be improved.

Characters Search More

(Continued from page 1)

convincingly harrassed in his role as the Director. Steve Morse spouted his philosophy with a straight face and a solid interpretation. Jan Kistler, though not as sexy as one might expect a prostitute to be, was still bitterly amused at the whole process. Tina Carter as the tormented Mother showed plenty of pain, and Bob Roberts as the Son was a cold fish turned violent. Mike Costello and Stephanie Digby were never more stagey in their roles as actors. Barbie Browder looked great in her yellow sweater. Diana Leach as the Italian Madame would have done credit to the House of the Rising Sun.

Those who have read Piran-

dello know that he tends toward long-windedness, but there is little of that evident, due to a reasonably competent cutting job which has removed almost all the extraneous material and left only the meat of the play. The action doesn't bog down in 'Confounded philosophy' but roars right along and finishes up with a literal bang. The ending alone is worth your dollar; this is two hours' entertainment with a point.

STUDENT RATES

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Diebel Beats Pomona, Loses Squeaker To Oxy

In two tightly contested games played at home on Saturday, the Caltech baseball team split a doubleheader with Pomona. Pomona took the first game by the score of 8-3. However, Tech came back strong to win the second game by a 4-2 margin.

Bill Ricks was the losing pitcher for Tech in the first game. Bill has been trying to recover from a cold and just couldn't get started on Saturday.

The fine performance of the day, however, was turned in by John Diebel. Pitching well and getting the outs when he really needed them, Diebel held Pomona to two runs in the nitecap. Tech scored four runs for John and he was rewarded for his performance with the victory.

In a game played earlier in the week, Oxy downed the Techmen by a 4-2 score. Diebel was the losing pitcher for Tech. Despite the loss, Diebel did a fine job in holding the Oxy sluggers to a mere four runs.

The performance of the last week moved the baseballers' record to nine wins and ten losses. For a Caltech team, this is a very respectable record. Highlights of the season so far have been the fine pitching of both Diebel and Ricks. The de-

Ruddock Scores Win Over Ricketts

Ruddock successfully defended the Discobolus trophy last Sunday as they defeated Ricketts House in a soccer match, 2-0. The game was well played on both sides.

Although Ricketts kept good control over the game in the first half, Ruddock led at the end of the half, 1-0. Lubensky of Ruddock scored on a breakaway and a fine shot at a difficult angle.

The story was much the same in the second half with both teams playing hard soccer. Ruddock again broke the scoring ice in the middle of the half when Cosgrove pushed on through the uprights.

Dick McGehee played a fine game at the goal for Ruddock as he thwarted numerous Ricketts scoring opportunities. Also playing a good game for Ruddock was Mike Hunsaker.

WHAT'S NEW IN THE MAY ATLANTIC?

"The Squeeze on the Liberal University" by J. Douglas Brown: Can the liberal university survive in a climate of bigness, diversity, and specialization? And what values would be lost if we succumbed to the concepts of the multiversities?

"Liebling, Libel, and the Press": Louis M. Lyons discusses the responsibility of the press, the threat to the freedom of the press from libel suits, and inadequate training of reporters.

"The Computers of Tomorrow": Martin Greenberger analyzes the extent to which computers will reach into our daily lives.

PLUS: "The Mad Strangler of Boston" by Erle Stanley Gardner, "Tokyo and the Olympics", "People on Fire: The Congo" and "A Rough Map of Greece".

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fense has tightened considerably since the beginning of the season. The hitting attack has been very spotty for most of the season, but even this attack has been a vast improvement over previous years.

Cricketers Win over Westwood

BY JOHN JOHN

The Caltech cricket team gained its second victory of the season when it easily accounted for Westwood by six wickets. The Westwood team, on being put in to bat by the Caltech captain Huttenback, made a steady start, and had 40 runs on the board without a loss.

However, once the opening pair had been separated, the remaining batsmen succumbed to the bowling of Trischuk and Cheema, the latter taking four wickets for only five runs. In keeping the Westwood total down to 69 runs, credit must also be given to the Caltech fielding, which showed a great improvement.

In replying, Caltech lost an early wicket, but again Ge-Clough and Wade batted soundly, and their partnership of 45 put the issue beyond doubt.

Thinclads Last; Swimmers Crush Pomona; Frosh Fourth Conference Finals At Oxy

As predicted, the Caltech track team didn't exactly burn up the track at the SCIAC finals on Friday. Tech came in a predictable last. Point gaining performances were turned in by Gage and Williams in the high jump.

The frosh did considerably better, finishing in a tie for fourth place. Walt Innes led the team as usual. Walt accumulated firsts in the high jump and the intermediate hurdles. Incidentally, he has only been running the hurdle event for two weeks. In addition, he also picked up points in the pole vault. Gary Ihas picked up a third in the high hurdles with a great performance over a fine field. Benford also placed in the triple jump. Rounding out the point gathering, the relay teams placed fourth and fifth in the two relays run. The performances of the frosh leave hope that Tech may someday leave the cellar in the SCIAC track finals.

Last Friday, the swim team defeated Pomona, 65-28, in their own pool for the final dual meet of the year. Thus, the varsity did in fact finish second in conference competition. It was a day of triumph for the frosh squad, also, as they won, 52-32.

The small Pomona squad was forced to seek points in the individual events and gave the Beavers victories in both relays. The Caltech swimmers went on to win six of the remaining nine events in addition to picking up many valuable second and third

places. Ted Jenkins won both the 200-yd and the 500-yd freestyle events while Larry Anderson copped the 50 free and George McBean beat him out in the 100-yd freestyle race.

Both Caltech teams meet the final test at Occidental College tomorrow at 3:30 p.m. in the conference finals. Diving will be this afternoon in the Claremont pool. This meet provides an excellent opportunity to see the whole conference in action in their final swims of the season.

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Golfers Finish Sixth in SCIAC

Caltech's always surprising golf team finished an unsurprising last in the conference golf tournament at Whittier last Friday. The tournament was a 36-hole event with 18 holes being played in the morning and 18 more in the afternoon. The top four men from each team count in the official scoring.

Top men for Tech were John Vitz and Earl Reiland with scores of 178. Next came Dave Hyde with a 179. Incidentally, Dave had the second lowest score of the day on the back nine holes. He shot a blazing 37 to bring in his 179. The winning team was CHM. They were also the defending champions. Medalist was Bob Campbell (CHM).

Millikan

(Continued from page 1)

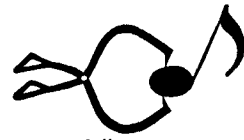
contributions have been in the fields of aerodynamics, fluid mechanics, wind tunnel design and operation, and guided missiles.

Millikan was born in Chicago in 1903, graduated from Yale in 1924, and received his PhD in physics and mathematics from Caltech in 1928. He joined the Caltech faculty the same year, became a full professor in 1940,

and was appointed director of GALCIT in 1949. He was a member of the Executive Committee of the Institute from 1945 to 1947, and has been chairman of the JPL Committee since 1949. He is a member of the Air Force Scientific Advisory Board and the Scientific Advisory Committee of the Army Ballistic Research Laboratory. He is also director of The Aerojet-General Corporation and of the National Engineering Science Company. Millikan is an Honorary Fel-

low of the American Institute of Aeronautics and Astronautics, and a past president thereof. He is a Fellow of the Royal Aeronautical Society of Great Britain, the American Academy of Arts

and Sciences, and the American Physical Society. He has been awarded the King's Medal for Science in the Cause of Freedom by the British government, and the Medal for Merit by our own.



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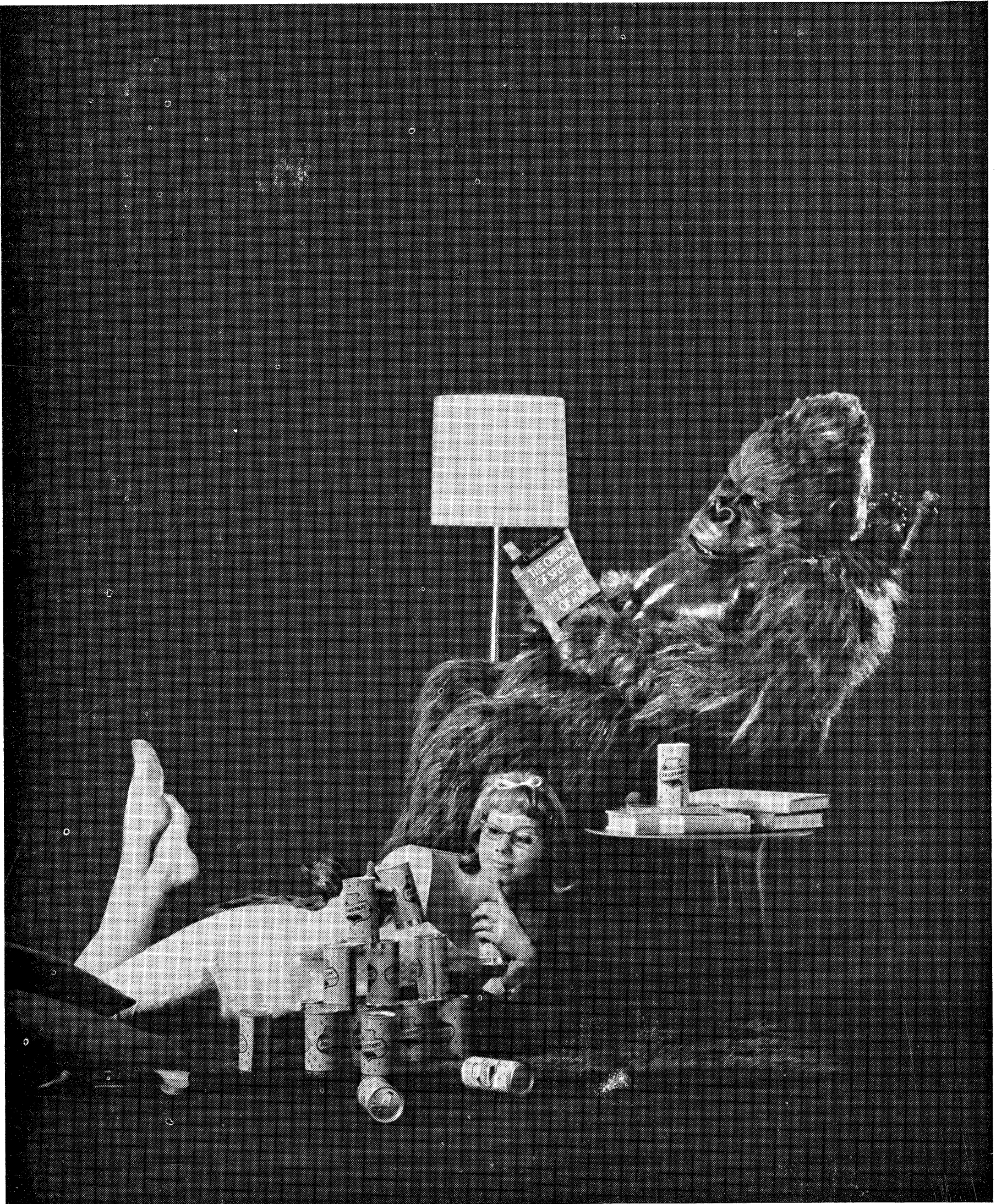
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