

## Athletic Center in Operation

### Hours for new gym fixed; swimming lessons given

With the expanded facilities afforded by the new Scott Brown Gymnasium and Alumni Swimming Pool, Caltech's physical education department will be making several changes in its program. The new equipment will be given hardly a moment's rest afternoons, according to the plans that have been set up for the present.

For the remainder of the basketball season the varsity and frosh basketball teams will be using the entire gym floor from four to six in the afternoon. Several home basketball games have been scheduled, beginning next week. The courts will be open to P. E. classes from two to four Monday through Friday.

Director of Athletics Hal Muselman, has urged Techmen who have equipment in the old fieldhouse to move it to lockers in the new building immediately. The fieldhouse will be locked at six o'clock tonight, and students should have their gear moved by that time.

In about two weeks the swimming pool will open. On weekdays from noon until two o'clock the pool will be available to all male Institute personnel for recreational swimming. Swimming classes will be offered, beginners' classes at two and four and advanced classes at three and five. It is hoped that all Techmen who cannot swim, or who wish to improve their swimming, will take advantage of these classes.

### Collister will talk about Christianity

Allan Collister, assistant minister at Lake Avenue Congregational Church, will speak on "Christianity — What Does It Matter?" at a discussion session sponsored by the Caltech Christian Fellowship.

The meeting will be held next Tuesday from 12:05 to 12:50 in 208 Dabney. Everyone interested is invited. Bring your lunch.

### Dr. Speaker brightens infirmary with brilliant wit and sparkling personality

By Al Helgesson

"Wonderful sense of humor." "All of the makings of a good doctor." "Real keen." There are the comments that I got from nurses when I walked into the health center and asked about the "new doc," Robert J. Speaker.

Dr. Speaker can usually be found in his beautiful office on North Madison Street. The office looks more like a swank New York apartment than a doctor's office. One of his major problems other than building up his practice is trying to get the plaster to stay on one wall of the office.

I thought it was the latest in modern design until he clued me in. In one of the back rooms a giant plant covers an X-ray machine. Dr. Speaker claims that

### Wes Hershey off to Europe next Monday

Wes Hershey, executive secretary of the Caltech Y, will leave here Monday on an extended trip to Europe. Mr. Hershey, who is taking an eight-month leave of absence from the Institute, will be accompanied on the trip by Mrs. Hershey and their two children.

While he is abroad, Mr. Hershey plans to make a study of the extra-curricular activities of students in a dozen universities in the British Isles and on the Continent. He will make his headquarters in England, and from there he will make brief visits to university campuses. During this phase of the trip Mr. Hershey plans to concentrate on the problems which confront European students in the areas of international understanding and religious concern.

#### American delegate

Mr. Hershey will also serve as an American delegate to the Centennial Conference of the YMCA's World Alliance. This conference, which will gather together YMCA leaders and workers from all parts of the world to discuss organization, principles, and objectives, will be held in Paris in August, 1955.

While Mr. Hershey is away, the Caltech Y will function as usual, under the sponsorship of Dr. Beach Langston, English prof, who has already taken over most of the duties of the Y secretary.

the plant was there when he rented the office, but I suspect his hobby is growing man-eating plants for science fiction TV shows. In another room is equipment for minor surgery, which he does in addition to his general practitioner's work.

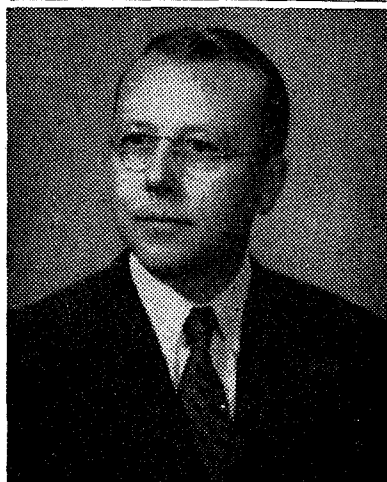
Dr. Speaker comes to us from Pennsylvania, his native state. He graduated from the University of Pittsburgh in '52, and then came to California to do his internship at Huntington Hospital and spend a year in surgery residency at the Veterans Hospital in LA. He was sold on California in one brief Christmas visit to this state in 1951, but he admits that he didn't see a trace of smog then.

Dr. Speaker spends only Tuesday and Thursday at Caltech.

### Maddox heads list of AUFS visitors to Tech

By Jerry Fried

Recent technological advances in Latin American Republics will be discussed by agricultural economists Dr. James G. Maddox during his visit to the Caltech campus next week. Dr. Maddox, who has been active in technical assistance programs to Latin America since 1949, is at present studying political and social developments in such countries as Peru, Bolivia, and Venezuela under the auspices of the American Universities Field Service (AUFS).



Dr. James B. Maddox

Under this program, Dr. Maddox and other qualified men are given an opportunity to study, firsthand, foreign areas about which there is a great lack of knowledge in this country.

Tuesday at 12, Dr. Maddox will speak to the Y Undergraduate Lunch Forum on "Training North American Technicians to Work in Latin America." He will discuss the problems North Americans face in adjusting to the Latin culture and living conditions, and what Latin Americans expect of North American technicians employed in the Point Four programs. A seminar on nationalism will be held that

(Continued on Page 4)

### Gym open to classes now; pool ready in two weeks

...Caltech's new physical plant is now open for student use as the last business of construction is being completed. The Scott Brown Gymnasium and the new athletic department offices are finished, while the Alumni Swimming Pool will be ready within two weeks.

Money to pay for the athletic center was obtained from the estate of the late Scott Brown and from alumni contributions. The new structure includes the gymnasium, offices, a lecture room, a coaches' room, locker rooms, and the swimming pool. The gym is equipped with two electric scoreboards, which were paid for in part by the classes of '52 and '53, and temporary bleachers seating 1000 people. Two one-meter boards and one three-meter board will be erected at the pool.

When the plant itself is complete, considerable work will remain to be done on the grounds. Outdoor basketball and volleyball courts will be placed west of the pool, fenced in and black-topped. A new backstop will be erected for the frosh baseball diamond, which will be moved west from its present location.

Additional work was involved in piping heat and power into the buildings from the main campus through tunnels under California Street; in tearing down the brick wall along California Street to make way for the sidewalk which leads to the gym entrance; and in extending the parking lot around the eastern end of the building.

Escherich Bros. Construction Co. were contractors for the construction. Architects were Marsh, Smith, and Powell, while consulting architects were Pereira and Luckman, who serve as consultants for all Caltech construction. Nowell and Hillman furnished structural engineers. The heating, mechanical and electrical plans were drawn up by the Caltech Buildings and Grounds staff.

The roof of the gymnasium is (Continued on Page 4)

### Marine Corps holds interview

The United States Marine Corps Officer Procurement Team, headed by Captain J. S. Gestson, will be here on campus next Wednesday, January 12, from 9:00 a. m. to 3:00 p. m. to interview students interested in learning about the Marine Corps officer candidate programs.

The Marine Corps offers two programs, each leading to a commission as second lieutenant in the Marine Corps Reserve. The platoon leaders class is open to students who have not yet reached their senior year of college. Students who enroll in this course will be deferred from the draft and are not required to attend meetings, drills or special classes during the school year.

The officer candidate course is open to college seniors and graduates under 27 years of age. Seniors may apply for this course during their last term prior to graduation.

### Dr. Lindvall talks Friday

Dr. F. C. Lindvall will give the first Friday evening demonstration lecture of '55 at Caltech campus this week. Chairman of the division of Engineering, professor of mechanical and electrical engineering, and a member of the Caltech faculty since 1930, Dr. Lindvall, will speak on "Work and Energy."

#### Weekly series

He will discuss fundamental principles of basic mechanics and how they apply to engineering problems, particularly of power generation.

The Friday evening demonstration lecture is given weekly at 7:30 p. m. in room 201 of the Norman Bridge Laboratory of Physics by a member of the Caltech faculty on some popular phase of science or engineering.

Each week it attracts not only members of Caltech, but also has proven popular with the public of the area. Many times the audience has exceeded the capacity of the hall. For this reason it is urged that those interested arrive well before 7:30 to insure seating.

### Naval Reserve officer comes

An officer from the Office of Naval Officer Procurement will be on campus Thursday, January 13, at 9:00 a. m. in the lobby of Throop Hall to explain the Naval Officer Candidate program to interested seniors. Applications for the Officer Candidate School may be made 180 days before graduation so that the papers can be processed and the seniors can be assigned to a class convening shortly after graduation.

Officer Candidate classes are now scheduled to convene in March, May, July, September, and November, 1955. There are openings for Unrestricted Line, Restricted Line, and staff corps such as supply and civil engineering. Selected applicants will be sent to the Officers' Candidate School at Newport, R. I., for four months and, after commissioning as Ensign, will serve on active duty for three years. The quotas for these classes have been greatly increased.

Seniors desiring to apply for a Navy commission should contact the officer on campus or the Office of Naval Officer Procurement, 751 South Figueroa St., Los Angeles.

## California Tech

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## A plea for "Pendulum"

Our sister publication, the **Pendulum**, is in trouble. If subscriptions don't increase, Caltech may lose its literary magazine.

For four years, Tech's rival to the **Harvard Advocate** and the **Atlantic Monthly** has thrived with an abundance of contributions from literary scientists and engineers. Each term the campus looks forward to seeing what the imaginative boys have in the back of their heads when they sit staring through a physics book. Although not every article is a prizewinner, the magazine has shown that Tech men can be deeply expressive. **Pendulum** has served as a stimulus and a medium for creative self-expression. Its editors and contributors deserve special acclaim for the most recent issue, which should be recommended reading for all students and faculty.

### Trouble Ahead

Unfortunately, financial problems are clouding the future of this jewel of journals. With its fine quality printing, production costs are triple the reasonable dollar-per-year subscription rate. The Carnegie Institution has felt that the **Pendulum** is worthwhile enough to grant some \$1200 a year to make up the deficit, but this is the last year this subsidy is available. To interest other sources to carry the load, **Pendulum** needs to prove a strong support with a large number of subscriptions. Now only 150 subscribers are on the list.

### Dilletantes Wanted

This is therefore a plea; a plea to students to shell out a buck for a good cause—and some entertaining reading, a plea to the faculty to kick in to "see what the kids are up to," and a plea to the **Pendulum** staff not to give up, but to keep pushing a magazine that deserves more subscribers than it has.

## Laurels to La Brucherie

Tech always has been proud of football coach Bert La Brucherie. This guy, we thought, deserved more public recognition than he has received of late.

It seems that La Brucherie undeservedly has lost publicity space to men like Red Sanders, Bud Wilkinson, and Eddie Erdelatz, fotoball coaches who attract the public eye the easy way—by winning all their games. Of course, this shouldn't be the only critrion of success, and at last, in the December issue of **Saturday Evening Post** the nation's press has given due space to La Brucherie, who describes his rather unique position at Tech, and concludes that "Big Time Football Is Not For Him."

Hats off to you, Coach! Your article, we thought, spoke well for you and for Tech's sportsmanlike athletics, which sometimes seem to be misunderstood by a public that wants more of a circus than a game.

However, some of us chauvinistic Tech men want to correct the impression that we have a casual attitude toward winning. Despite our elusive vision, our desire to stay in school, and our house loyalty, we're out for victory. We'll use all our brains, and since, as you observed, it takes more than brains, we'll resolve to work hard and give the ole' college try for victory in '55.

## Interview Schedule

### JANUARY—

Monday, 10—BSup/EE, ME, Ph, Ma Raytheon Manufacturing Co., Waltham, Mass.

Monday, 10—MS, PhD/Ch, ChE, ME) Rohm & Haas Company, Employment at the Research Department in Philadelphia, Pa., Redstone Arsenal Research Division in Huntsville, Alabama, and plants at Knoxville, Tenn., Bristol, Pa., and Houston, Tex.

Monday, 10—BSup/Geoph; MS, PhD/Ge California Company.

Monday, 10; Tuesday, 11—BSup/Ae, EE, ME, Ph, ChE Pratt & Whitney Aircraft, East Hartford, Conn.

Tuesday, 11—BS/CE U. S. Bureau of Public Roads.

Tuesday, 11; Wednesday, 12—BSup/ME, EE, Ph, Ae; MS, PhD/Ph Minneapolis-Honeywell Regulator Company

Tuesday, 11; Wednesday, 12—BS/ACh, CE, EE, Ch, ME; MS/ChE, CE Standard Oil of California and California Research Corporation.

Wednesday, 12—BS, MS, PhD/Ae, EE, ME, CE, Ph. The Glenn L. Martin Co., Baltimore, Maryland.

Wednesday, 12—Representatives of the U. S. Marine Corps Officer Procurement will be on campus to discuss Officer Candidate Programs. The representatives will be located in the front hall of Throop from 9:00 A. M. until 3:00 P. M.

Thursday, 13—Representatives of the U. S. Naval Officer Procurement will be on campus to discuss Officer Candidate Programs. The representatives will be located in the front hall of Throop.

Thursday, 13; Friday, 14—Shell Oil Co. BS, MS/ChE, EE, ME, CE, Ge, Ach. Production Department (Oil Field Production). BS, MS/ME, EE, CE, Ch, ACh. Manufacturing Department (Refining). BS, MS/ChE, ME, Ch. Shell Chemical Corp. (Chemical Manufacturing). BS, MS, PhD/ME, Ph. (Engineering) Shell Development Co., (Research, Houston, Texas).

## ENGINEERING NOTICE

The Glenn L. Martin Company representative will visit the campus on January 12th, 1955 to discuss opportunities for graduating seniors of the school of engineering.

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Tuesday, January 11  
to interview

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**COLLEGE PLACEMENT OFFICER**  
for an appointment on  
Monday, January 10  
and  
Tuesday, January 11

# Tech cagers meet Chapman Long Beach

The basketball season rolls into high gear tomorrow night when the Caltech team travels to meet Chapman College. It will be the first game in a month for the Beavers, who have a record of one win and four losses to date. Center Phil Conley, with a 20 point plus scoring average, will lead the team into action. Tuesday the team will meet Long Beach State at home. Both these teams are independents which Tech is playing in preparation for the first league game of 1955—with Oxy next week.

The Redlands Bulldogs defeated Tech in a league game on December 10. The game was played in the Pasadena Armory, former home of Caltech basketball teams, and the final score was 86-64. The game was very close for the first half and Redlands held only a 31-27 lead at half time. In the second half, however, the Bulldogs began to use a full court press and they pulled further and further away from the Beavers. Al Endeman of Redlands was high-point man for the game with 30 points.

Caltech	FG	FT	PF	TP
Chambers	3	6	3	12
Lindfors	5	3	2	13
Bloomberg	0	4	0	4
Conley	8	8	4	24
Madsen	1	3	5	5
Koontz	1	0	1	2
Moody	2	0	5	4
	20	24	20	64

# HERE'N THERE IN SPORTS

By Arne Kalm

Happy New Year! And welcome back for another term of activities at Tech. Football and soccer and water polo and cross country are all in the past now, and basketball is the present attraction, with everybody all enthused about the new gym.

First basketball practice on the new floor was held on Monday. All the varsity stalwarts were out and the frosh also had an excellent turnout. First game in the new structure will be an afternoon encounter next Tuesday with Long Beach State.

### Tennis Begins

The Caltech tennis season is also getting under way as both interhouse and intercollegiate players are knocking the ball around on the Tournament Park court. Prospects in varsity tennis are real good, as almost the entire team of last year will be back and a number of stellar performers from last year's frosh team will add needed depth.

Beaver track and field men are limbering up their arms and legs for the fast-approaching track season. Coach Bert La-Brucherie will open full-scale workouts next week and both frosh and varsity are urged to come out as soon as possible.

### Interhouse Sports

Tennis heads the list of sports for interhouse competition during the second term. Track will be next and swimming will follow. The IH tennis matches will be held on Saturday, January 22, which is only two weeks away.

**SPORTS SHORTS:** Wes Santee will renew his assault on the four minute mile in a race before the beginning of the All-Star Pro Bowl Football Game on January 16 in the Coliseum. The field will also include Bob McMillan and Jim Terrill, both former Oxy trackmen. . . Bert La Brucherie was the author of a recent Saturday Evening Post article entitled "Big-Time Football is Not for Him." It was probably quite an eye-opener for many people not connected with Caltech.

# USF Dons beat Tech soccermen in finale

By Al Helgesson

The soccer team wound up its season on the Saturday before finals by losing to USF by the score of 6-1. Caltech played their usual disastrous first quarter, letting in three goals in the first few minutes. Rafn Stefansson scored Caltech's only goal on a penalty kick. The JV's lost their game to the USF JV's 3-0. Oddly enough, both games ended with the same scores as last year's encounters with USF.

### Caltech Second

Caltech ended in a second place tie in the Southern California soccer league this year. UCLA was first; Cal Poly, second; and Pomona, fourth. In league play the Beavers won 2, lost 2, and tied 2. In addition they lost two non-league games. Rafn Steffansson was the high scorer for the

season, accounting for 9 of Caltech's 13 goals. Matthes, Bingham, Serdengecti, and Boedecker each scored one goal.

The JV team finished a little lower in league standings as it won none, lost 5, and tied 1.

Varsity prospects are a little better for next year as only Matthes, Serdengecti and captain Helgesson are leaving. Several experienced men on the JV team look like varsity material, and if the admissions committee comes through with some foreign talent, Caltech might regain its league-leading position.

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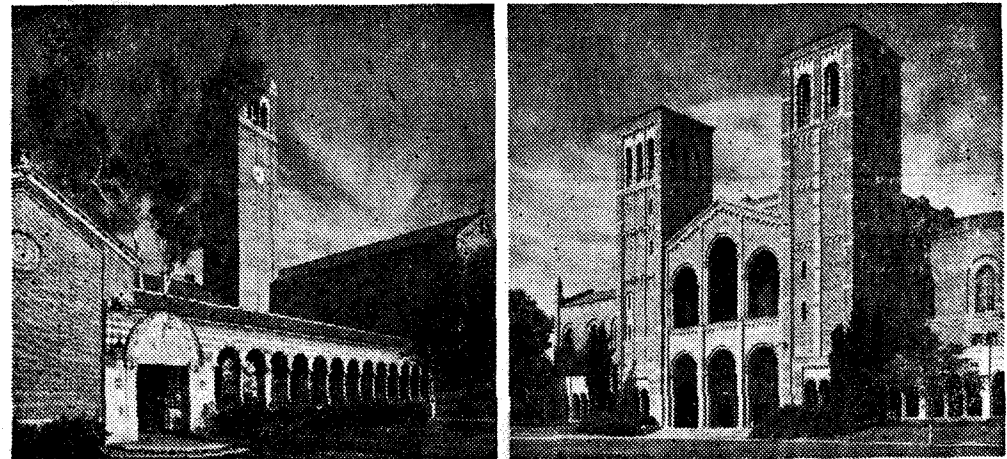
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<p>During the regular school year the industrial assignment will be coordinated with the Study Program to permit a half-time University schedule of advanced study. During the school vacation periods participants will be employed full-time at the Lockheed Missile Systems Division.</p>	<p>Salaries will be determined by the individual's qualifications and experience in accordance with accepted current standards. Participants are eligible for health, accident and life insurance as well as other benefits accorded full-time staff members.</p>	<p>Tuition, admission fees and costs of textbooks covering the number of units required by the University for a Master of Science Degree, will be borne by Lockheed. A travel and moving allowance will be provided for those residing outside the Southern California area.</p>

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# DuBridge optimistic about science manpower situation

Optimism was the theme as President DuBridge spoke last week on the nation's problem of Scientific Manpower. Speaking at a Berkeley meeting of the American Association for the Advancement of Science, Tech's President assured the assembled scientists that the future holds not only a continuing demand for trained talent, but also a good chance of filling that need.

Science, which is not alone in its need for college trained men, is different from the arts and social sciences in that there is a "gilt-edged money backed demand for scientists." While salary inducements don't make better scientists, they do give scientific fields a slight advantage over their competitors for talent.

Drawing from a recent report by Dr. Dael Wolfe, Dr. DuBridge concluded that the future prospects for filling the demand are bright and that "there are enough potential scientists among the boys and girls now of grade school or high school age to meet the foreseeable need in the coming years."

An even bigger and more general problem which we face, Dr. DuBridge told his colleagues, is overcoming the apathy toward intellectual or scholarly pursuits in general. Too many bright people "drift off into the hardware business and eventually take over Dad's store," when they are badly needed elsewhere.

## ATHLETICS CENTER (Continued from Page 1)

an arched structure with supporting timbers in a diamond pattern made of Lamella wood instead of the more customary steel girders. It is said by the contractor to be the largest such structure of Lamella wood west of the Mississippi. Maximum height of the roof is 35 feet; it is 22 feet above the corners of the playing court and 20 feet high where it meets the walls. The floor, which is 50 feet by 94 feet, can be used as a single basketball court, as two cross basketball courts, as three volleyball courts or as five badminton courts.

The swimming pool will be 60 feet by 75 feet and will vary in depth from 3 feet 6 inches to 12 feet 6 inches, including a special deep end for water polo. A ten foot wall surrounds the pool except where it abuts against the main building. Lighting will be furnished from 40-foot towers and also from small underwater lights on the pool walls.

## Visitor Coming to Caltech (Continued from Page 1)

evening in Dabney Hall at 7:30. "The Andean Indian's Way of Life," an informal lecture illustrated with color slides, will be delivered at 11:00 a. m. in 206 Dabney, Wednesday. At 12:00 a. m. Dr. Maddox will discuss the Venezuelan boom, how the income from oil is being used to modernize and rationalize the economy, at the Y Graduate-Faculty Forum in the Athenaeum.

Dr. Maddox will conclude his series of discussions with a talk on the major obstacles to technological advance in Latin America to be given Wednesday, January 19, at 11:00 a. m. in 206 Dabney.

Future guests under the AUF's plan will be Mr. Willard A. Hanna, studying Japan's problems; Mr. Richard H. Nolte, Middle East expert; and Professor Fred Warner Neal, who is studying the Yugoslav state under communism.

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A representative of the Warner & Swasey Company, leading manufacturers of machine tools, and other precision machinery, will visit Calif. Institute of Technology on Thursday, January 20th, to interview high caliber men with technical backgrounds or mechanical interests who are interested in an industrial career in sales, manufacturing, engineering, finance, etc.

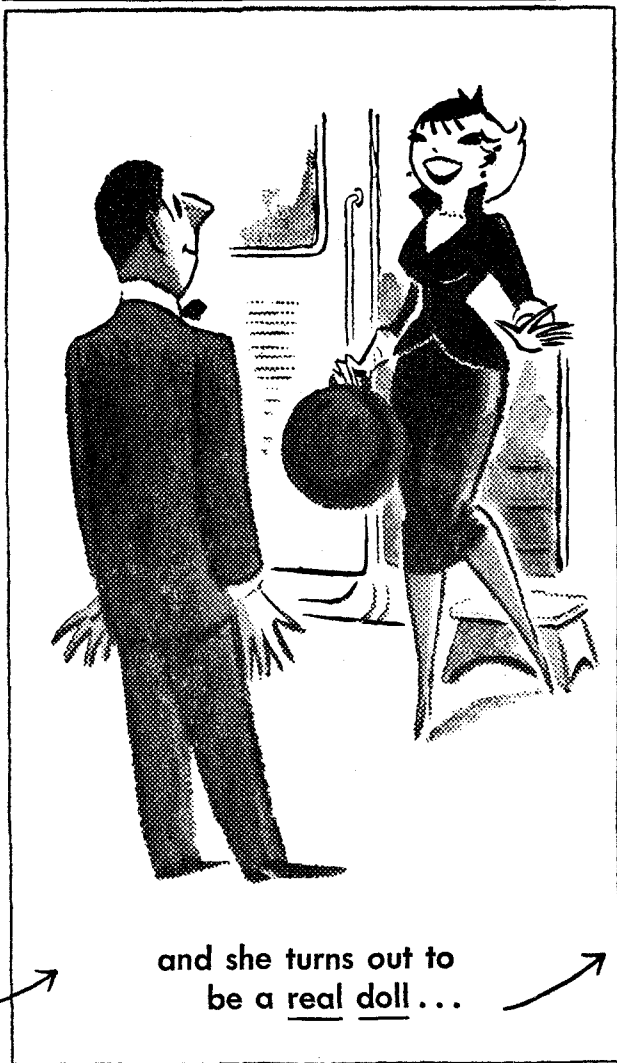
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