

California Tech

Associated Students of the California Institute of Technology

Volume LXII.

Pasadena, California, Thursday, February 2, 1961

Number 16

Jazz Concert Set February 10

ASCIT Picks New Wheels On Feb. 21

Nominations for all positions on the ASCIT Board of Directors, editor of the California Tech, and secretary of the Board of Control will open Monday at a student body meeting in the BOD room, 7:30 p.m.

Nominations will remain open for five days. Elections are February 21.

Candidates for ASCIT president and vice president must be current juniors. Candidates for representative at large must currently be freshmen. All undergraduates, except those in their fifth year of a four-year course, are eligible for the rest of the posts.

According to the ASCIT by-laws, the duties of the officers are as follows:

President: Official representative of ASCIT, preside at student body meetings, chairman of the BOD, member of ExComm and the Athletic Council, ultimately responsible for everything.

Vice president: Play president in the absence of the latter, chairman of the Board of Control, responsible for continuing the Honor System, member of BOD.

Secretary: Keep and post minutes of ASCIT meetings, third in command, member of BOD.

Treasurer: Keep track of where the money comes from and where it goes, member of BOD.

Business Manager: Report on status of student body publications, in charge of Board room and all ASCIT property, issue publicity about ASCIT to outside world, chairman of Honor Point committee, member of BOD.

Activities Chairman: Organize and present assemblies, keep track of cheerleaders, dance class, bands, glee clubs, and other activities, member of Honor Point committee, member of BOD.

Representative at Large: Run a blood drive and a charities drive, maintain a calendar of events, member of BOD.

The editor of the California Tech and the secretary of the Board of Control do just what their titles imply. They are not members of the BOD.

The California Tech hopes to publish detailed interviews with the ASCIT presidential and vice-presidential candidates in the February 16 issue, in lieu of the (Continued on Page 2)

Fresh Re-choose Calma, Conant

Jacques Calma and Spicer Conant were elected as the Freshman representatives to the Board of Control in a special run-off election held last Thursday. Calma and Conant will hold their offices until the end of third term, when general class elections will be held.

L.T. A. G. NEWTON



George Shearing and his quintet will be the featured artists of the last half of Caltech's February 10 Jazz Concert.

Pflaum To Cover Cuban Situation In AUFS Talks

Irving P. Pflaum, the third AUFS member to visit Tech this year, will arrive on campus next Monday, February 6, for a ten day stay. His reports will center on the Cuban situation.

Pflaum holds the degrees of Ph. B. (Chicago 1928) and J.D. (Chicago 1930) and was admitted to the bar of Illinois in 1931. In 1945 he was appointed a full professor by the trustees of Northwestern University and served in the Medill School of Journalism. He became a professorial lecturer in Latin American Affairs and Editorial Com-

ment courses in order to have time to continue his regular commentaries on WBBM radio station (CBS Chicago affiliate) and his regular columns of comment on world events in the Chicago Times and the Chicago Sun-Times and to carry out overseas assignments: Russia and Eastern Europe 1947-48; Western Europe 1949; Caribbean, South and Central American 1950-60. He has written reports on Cuba, Panama, and other countries for the Atlantic Monthly and full-length feature articles on Mexico, Panama, Guatemala, and Cuba. He has also covered a number of news developments in Venezuela.

Pflaum was born in Chicago and educated in that city. He was married in 1930 and his wife Melanie L. Pflaum is a novelist. They have three sons, two born in Spain where Pflaum was a

Hail to Beadle and Owen

Caltech's loss of Dr. Beadle is really Chicago's gain; But our beloved Dr. DuBridge has picked a winner again.

He elected Prof. Owen to occupy

Dr. Beadle's chair; And there is not a man on campus Who is more friendly, warm or fair.

Professor Owen is a man of action, And will help us move to a new frontier. Then we can always remember 1961 As Caltech's greatest year.

So to you Prof. Owen, We all wish you health and good will; And the entire campus personnel is with you, To see that Caltech never stands still.

L.T. A. G. NEWTON



Last week's AUFS visitor was Mr. George Hanessian.

correspondent for the United Press during most of the '30's, including the period of the civil war in that country. Pflaum has

(Continued on page 3)

Shearing, Hi-Lo's, Kessel Star In Annual Pasadena Festival

BY RICHARD KARP

Featuring the talents of the Hi-Lo's, Barney Kessel, and the George Shearing quintet, the Caltech Jazz Concert will play to an expected full house a week from this Friday, February 10, in the Pasadena Civic Auditorium. Tickets are available from the Caltech News Bureau or from Jon Kelly in 12 Blacker, and cost \$3.25, \$2.25, and \$1.50 to Caltech students.

GROUPS TO BE FEATURED

The Hi-Lo's, who combine their voices to create a blend that is rare and unique in today's music market, are well known for being the only vocal group whose appeal reaches all classes of music buyers. Barney Kessel, who has long been associated with the best names in jazz, is probably the best jazz guitarist in the country. Kessel's playing transforms the guitar into a versatile instrument, capable of being used beautifully both as a solo and as a section instrument. The George Shearing quintet, the number one group in jazz today, has produced the most exciting modern sounds in jazz. Shearing's car-

eer, which reads like a fairy-tale story, resulted in a meteoric rise to American stardom and a job recording for MGM and presently Capitol. Together, these three form what is probably the best all-around concert group existing today.

HISTORY OF CONCERT EXPLAINED

The first Caltech jazz concert was held in 1958 under the direction of Bob Thompson, then ASCIT Activities Chairman. The concert featured the Firehouse Five Plus Two, Mavis Rivers, and Louis Armstrong. The concert turned out to be such a success that it was decided to continue the concert on an annual basis. Last year, under the direction of Ascit Activities Chairman Hugh Kiefer, the jazz concert featured Andre Previn, Mavis Rivers, and Dave Brubeck. Again, the jazz concert proved to be a success both musically and financially. This year, the concert continues its tradition of fine shows under the direction of ASCIT Activities Chairman Jack Norman, assisted by Jon Kelly and Tom Keil.

KMPC SUPPORTS CONCERT

The concert will probably be emceed by Bill Stewart, a KMPC disk jockey, who has emceed all three of the previous concerts. Stewart and the staff of KMPC have been ardent supporters of the jazz concert, and have given the concert radio publicity each year. The concert itself, partly through the talent invited each year and partly through the good work of KMPC, is one of the most highly respected jazz concerts in town. The Pasadena Civic Auditorium, locale of this year's concert, is located on Green, near El Molino.

Noticed ??

Question of the week: What is wrong with the cover picture of the current issue of Engineering and Science magazine? (That's the one of the Rose Bowl RF.)

Answer in next week's California Tech.

Apply This Week For Honor Awards

It's time again to apply for Honor keys and Honor certificates, the only recognition given by the Student Body for outstanding extra-curricular service to the Associated Students. Applications (your name and a summary of your qualifications) should be submitted to the N (for Norman) box in Blacker. Period of activities covered includes third term last year, and first and second terms of this year. Deadline for applications is Thursday, February 9. The awards will be announced a couple of weeks later.

YMCA Plans Coed Retreat

In its annual attempt at co-education, the Caltech YMCA is sponsoring a retreat with the University of Southern California YWCA.

The retreat, to take place the week end of February 24-25, will be held at the Firestone Boy Scout Camp in the mountains east of Whittier. About 35 Techmen and 35 SC girls will attend, plus faculty members from both schools.

Subject of the retreat will be a play by Christopher Fry, called "A Sleep of Prisoners." The play will be presented in sections by the YMCA Traveling Players, headed by Al Green, local assistant secretary, and there will be discussion groups after each section is presented.

"Sleep" is a story about soldiers imprisoned during a war. They are kept in the same cell, and the play recounts the dreams one of them has during a night.

Each dream involves only the dreamer and the other soldiers, and each is patterned after some story in that reliable old plot-book, the Bible. This makes for a "searching analysis of modern life," says Green.

Besides "Sleep," the conference will feature fun and games with SC girls. On the agenda, besides discussion groups, are

C.E.C. Exhibit

Here Monday

Caltech students will have an opportunity on Monday, February 6, to see the latest developments in electronic instrumentation at their "doorstep."

Pasadena's Consolidated Electrodynamics Corporation, one of the nation's leading manufacturers of electronic and electro-mechanical equipment, will bring its mobile instrument exhibit to the campus from 9 a.m. to 5 p.m. The 17-ton truck-trailer will be parked near Olive Walk and Dormitory Lane (?).

Inside the mobile instrumentation van, CEC engineers will demonstrate the newest "state-of-the-art" techniques being used to acquire, record, and process flight-test data of missiles and aircraft.

Devised five years ago, CEC's mobile instrumentation van is on its seventh nationwide tour. It has traveled 135,000 miles during that time to apprise 78,000 engineering personnel in 800 industrial plants and military installations of the newest developments in electronics. The popular exhibit has been featured in 15 major instrumentation trade shows.

Caltech and CEC have shared knowledge and capabilities for many years. Philip S. Fogg, Consolidated president, is a former professor of business economics and registrar at Caltech and Caltech professors Frederick C. Lindvall and Robert F. Bacher were for many years on CEC's Board of Directors.

All three are now on the board of Bell & Howell, CEC's parent firm. In addition, a great many Caltech-trained engineers are members of Consolidated's professional staff.

square dancing, hiking, and partying in general.

Sign-up lists will be posted sometime in the future in the Y Lounge. Watch the Tech for further details. Also watch Carl Rovainen, who is in charge of the conference and who would appreciate help.

Y Film Series

"The Brothers Karamazov," a well-known Russian novel, will be presented in motion picture form by the YMCA film series this Sunday night. Showtime is 7:30 in Culbertson Hall, and admission is 65 cents.

This version of "The Brothers" is American made, and features the copious talents of Yul Brynner and Maria Schell. Schell alone makes it worth seeing (she rivals BB), and the photography is interesting.

California Tech

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CAMPUS INTERVIEWS

Thursday, February 16

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of the Massachusetts Institute of Technology

ASCIT Nominations Next Week

(Continued from Page 1)
traditional 100-word statements.

Also, it will attempt to get candidates for the other BOD offices to answer three or four specific questions, again rather than the traditional 100 words.

Sample questions:

How do you plan to get the ExComm functioning efficiently?

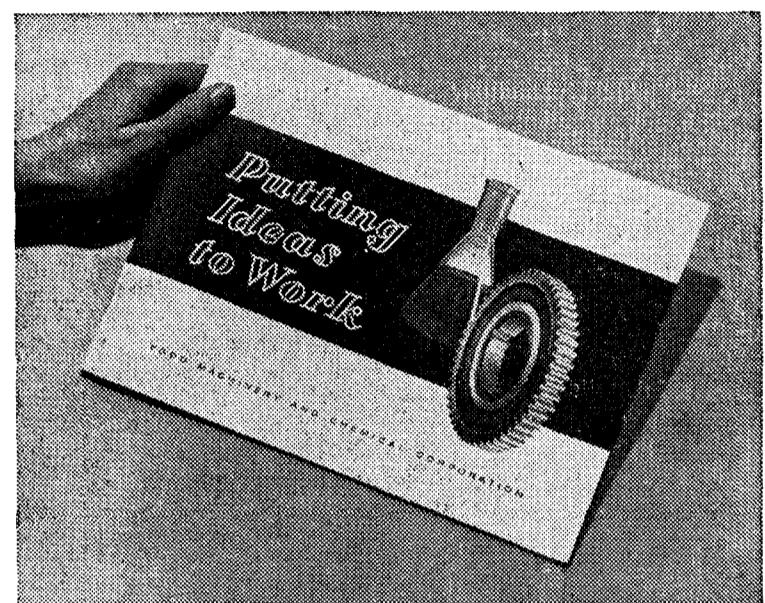
Do student-faculty relations need to be improved, and, if so, what part can ASCIT play?

What changes do you foresee in the ASCIT budget?

Why do you feel you are more qualified for the office than your opponent?

What do you see as the job of the ASCIT president?

ENGINEERING STUDENTS TO DISCUSS INDUSTRY CAREERS



Students majoring in chemical, mechanical, or electrical engineering are now scheduling appointments to obtain information on Food Machinery and Chemical Corporation, a major national producer of diversified machinery and chemicals. Company representatives will visit the campus on February 7.

Arrangements for individual interviews may be made through the local college placement office.

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Appointments for interviews on Monday, February 6, can be arranged through the Student Placement Center.

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'Exodus' And Athletics Dealt Smashing Blows

BY ROGER NOLL
and
JAMES JOHNSON

ITEM: "Exodus" transferred from paper to screen with little change in quality.

COMMENT: Leon Uris' book comes across like a deodorant commercial. The movie fares no better. Depicting an obviously inferior race as actually better than the English, he blows into fantastic proportion the rather insignificant historical event of stealing a few acres from the Arabs. The movie, one of the best pieces of pure fiction gracing the screen at present, suffers from bad dialogue, trite situations, and low-budget acting. And the musical score, while appropriate for a "B" soap opera, at least has the dubious

Disarm Now For Survival

BY DAVE PRITCHARD

It is infrequent that a member of such a distinguished body as the British Parliament speaks here on campus; rare that he lives up to our expectations. Sir John Strachey, last week's Carnegie series speaker, is one of these rare individuals.

No stranger to public speaking, Mr. Strachey proved himself to be no stranger to the pertinent arguments in the disarmament discussion — possibly as a result of spending several days at the Rand Corp. Although his arguments were not new, their logic, plus his eloquence, combined to make them exceedingly penetrating.

Strachey accepts Herman Kahn's position that a nuclear war at the present time would not wipe us off the earth. But he argues that since one war wouldn't finish us off, there would certainly be others. This, he says, makes it essential for us to disarm at some point in our history if we are going to survive.

Toward this end, he proposes that the United States eliminate its weapons which have a much stronger first-strike capability than a retaliatory strength (such as vulnerable SAC bombers). He argues that these weapons will soon be obsolete anyway, so why not throw them away while we can get some propaganda from them.

Pflaum Talks

(Continued from page 1)
returned to Spain frequently. In 1940 he was assigned to investigate Nazi influence in Latin America and visited 29 of the republics in a long journey around the hemisphere.

In mid-1941 Pflaum became one of the organizers of a branch of what became the OSS. He joined Col. Donovan's staff in Washington in July 1941 on loan from his newspaper. After Pearl Harbor was bombed he was sent to London as liaison for the United States to the British Political Warfare Executive. Later he returned to a Washington post in OWI and to his newspaper for wartime service at home and abroad.

Since 1933 Pflaum has reported and commented upon events abroad with emphasis on Spanish and Latin American develop-

(Continued on page 6)

merit of distracting one's attention from the plot. It is too bad that the excellent film editing of talented Hans Mueller has to be wasted on such as this.

ITEM: NCAA issues wholesale penalties to athletic colleges.

COMMENT: Caltech sports enthusiasts' hopes for national honors were dealt a smashing blow last week when the NCAA, in secret session, slapped a ten-year ban on the Golden Beavers, disallowing them to play in any post-season bowl games or NCAA championships. The reason for this ban was that a recent NCAA investigation revealed fantastic recruiting violations and special treatment of athletes to be commonplace at the tiny but powerful Southern California school. Head football coach Bert LaBrucherie, who left UCLA several years ago to get a chance at real big-time athletics, took the whole thing in stride, commenting, "I guess we'll have to drop Redlands and Whittier from our schedule next year."

ITEM: Caltech undergrad caught ghostwriting.

COMMENT: The literary world was shocked at the announcement last week by supposed great author Vladimir Nabokov that his epic-making novel, *Lolita*, was in reality ghost written by Caltech author-student Clyde Zaidins.

Although his literary might has been pooh-poohed by everyone who has read his works (and by many who know of him only by reputation), Zaidins admits that his good work comes in spurts, and that he wrote *Lolita* immediately after one of them. When asked to comment on whether the book was, to some degree, autobiographical, Zaidins replied, "Wait till I get you before the BOC".

ITEM: New movie studies Caltech life.

COMMENT: Hal Roach studios announced this week that Caltech will be the scene of a new, multi-million dollar film,

entitled "No More Kissing After." The movie, based on old issues of the *California Tech*, the campus newspaper, will depict, in the words of Roach, "the triumph, disaster, passion and frustration that only a scientist can know." Although the casting has not been completed, several key roles have already been filled. Talented Paul Newman

Fine Films Again Shown At P.C.C.

After a very successful fall season, Cinema Limited, Inc., will again present a series of fine films this coming term. The shows will take place on Saturday evenings at 8:15 p.m. at Sexton Hall, PCC.

ITEM: NCAA issues wholesale penalties to athletic colleges.

The first showing on February 25 will be "The Cranes Are Flying," a Russian film made in 1958. It is a tragic and dramatic story about people in Moscow during World War II, directed by Mikhail Kalatozov and winner of the grand prize at the 1958 Cannes Film Festival. The second feature will be "N.Y., N.Y." a kaleidoscopic view of the great city.

On March 18, "Mexican Bus Ride," a Mexican film, will be presented. Another Cannes award winner, this picture is a satire, brutal in parts, but at the same time decidedly human. With it will be "The Kiss", a spoof on love and the "boy meets girl" theme.

A French award winner, entitled "A Man Escaped", tells the dramatic story of the escape of a young lieutenant in the Resistance in 1943, imprisoned in Fort Montluc in Lyons. Presented with this, on April 22, will be "Surprise Boogie," a series of abstract patterns with a jazz background.

The only Ingmar Bergman picture in the series will be "A Lesson in Love," to be shown on May 13. This is a comedy, light and romantic. But it loses none of the great insight that Bergman possesses. An English cartoon will be shown, also.

On June 10, the last showing

entitled "No More Kissing After." The movie, based on old issues of the *California Tech*, the campus newspaper, will depict, in the words of Roach, "the triumph, disaster, passion and frustration that only a scientist can know." Although the casting has not been completed, several key roles have already been filled. Talented Paul Newman

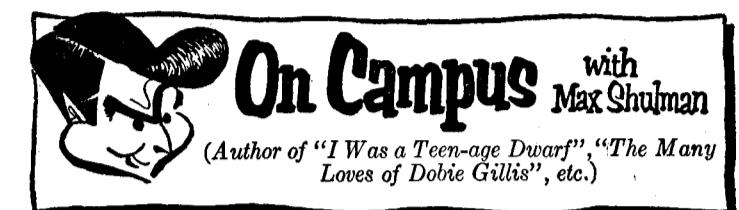
will be "Nights of Babiria," an Italian award winner describing life in Rome and the tragedy of the life of a streetwalker there. With it will be "The Adventures of . . .," a modern art interpretation by John Hubley.

Student Memberships are available on the first night, for \$4. Individually, each performance, seats permitting, will be \$1.

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"A GUIDE FOR THE DATELESS"

With the cost of dating rising higher and higher it is no wonder that so many of us men are turning to discus throwing. Naturally, we would prefer nuzzling warm coeds to flinging cold discs, but who's got that kind of money? Prices being what they are, the average man today has a simple choice: dating or eating.

Unless the average man happens to be Finster Sigafoos.

Finster came to college with the normal ambition of any average man: he wanted to find the prettiest coed on campus and make her his. He looked long and carefully, and at last he found her—a tall job named Kretchma Inskip, with hair like beaten gold.

He asked her for a date. She accepted. He appeared at her sorority house that night, smiling, eager, and carrying a bouquet of modestly priced flowers.

"Now then," said Kretchma, tossing the sleazy flora to a pledge, "where are we going tonight?"

Finster was a man short on cash, but long on ideas. He had prepared an attractive plan for this evening. "How would you like to go out to the Ag campus and see the milking machine?" he asked.

"Ick," she replied.

"Well, what would you like to do?" he asked.

"Come," said she, "to a funny little place I know just outside of town."

And away they went.



The average man today has a simple choice:

The place was Millionaires Roost, a simple country inn made of solid ivory. It was filled with beautiful ladies in backless gowns, handsome men in dickeys. Original Rembrandts adorned the walls. Marlboro trays adorned the cigarette girls. Chained to each table was a gypsy violinist.

Finster and Kretchma were seated. "I," said Kretchma to the waiter, "will start with shrimps remoulade. Then I will have lobster and capon in madera sauce with asparagus spears. For dessert I will have melon stuffed with money."

"And you, Sir?" said the waiter to Finster.

"Just bring me a pack of Marlboros," replied Finster, "for if ever a man needed to settle back and enjoy the mild benefice of choice tobacco and easy-drawing filtration, it is the shattered hulk you see before you now."

So, smoking the best of all possible cigarettes, Finster watched Kretchma ingest her meal and calculated that every time her fetching young Adam's apple rose and fell, he was out another 97¢. Then he took her home.

It was while saying goodnight that Finster got his brilliant idea. "Listen!" he cried excitedly. "I just had a wonderful notion. Next time we go out, let's go Dutch treat!"

By way of reply, Kretchma slapped him across the face with her housemother and stormed into the house.

"Well, the heck with her," said Finster to himself. "She is just a gold digger and I am well rid of her. I am sure there are many girls just as beautiful as Kretchma who will understand the justice of my position. For after all, girls get as much money from home as men, so what could be more fair than sharing expenses on a date?"

With good heart and high hopes, Finster began a search for a girl who would appreciate the equity of Dutch treat, and you will be pleased to hear that he soon found one—Mary Alice Hematoma, a lovely three-legged girl with sideburns.

© 1961 Max Shulman

* * *

We're no experts on Dutch treat, but here's an American treat we recommend with enthusiasm—Marlboro's popular new partner for non-filter smokers—the Philip Morris Commander.

Memo for opportunity

Ingersoll-Rand
will interview
Graduating Engineers
(B.S., M.S., Ph.D.)

February 23

I-R is one of the foremost builders of fine machinery for world-wide applications. If you are mechanically inclined (no matter what your engineering major is) and are interested in sales, design, and/or production, come in for an interview. Combination engineering and business degrees are most welcome.

Caltech Astronomers Pinpoint Radio Star

What is probably the first true radio star ever found has been located by the Caltech Radio Observatory and confirmed by the 200-inch Hale optical telescope at Palomar Mountain.

The stellar object is the most "odd-ball" star yet to be analyzed by spectroscopy. Its spectrum disclosed the existence of conditions that astronomers haven't yet fathomed. One possible interpretation is that the object is a remnant of a star that exploded a long time ago. Or it may be a star in a hitherto unknown stage of evolution.

The object, known only as 3C-48, is believed to be a true star and perhaps not very far away. Other identified "radio stars" that produce natural radiations in the radio wavelengths of the spectrum are luminous gas clouds, entire galaxies of stars, galaxies in collision, or the shells of violently exploding stars. Our own sun is a radio source; but 3C-48's signal is probably more than 10,000,000 times stronger than the sun's signal.

If the star is surrounded by high-energy electrons traveling in a magnetic field at near the velocity of light, the resulting synchrotron radiation would produce both its light and its radio signal. The star's emission in the ultraviolet wavelengths is unusually high for its yellowish color, another indication of synchrotron radiation.

Thomas A. Matthews, senior research fellow in radio astronomy, obtained a very precise location for 3C-48. The position agreed with the most precise determination done at England's Cambridge radio observatory, but reduced the uncertainty of the position by a factor of six.

England's Jodrell Bank radio observatory had determined the diameter of the radio source to be less than four seconds of arc. A strong radio signal coming from such a small area produces what radio astronomers call an intense surface brightness. Matthews explained that this usually indicates peculiarity in the optically identified radio sources. For this reason he sought help from optical astronomers to obtain a photograph of 3C-48.

Dr. Allan R. Sandage, staff member of the Mt. Wilson and Palomar Observatories, directed the 200-inch Hale telescope at the location fixed by the Caltech Radio Observatory and obtained a photograph of a star that is accompanied by a faint, luminous cloud. The exposure required 90 minutes. Other photographs showed that the image of 3C-48 was that of a star.

Spectrograms showed a combination of emission and absorption spectral lines unlike that of any other star. The star or its gaseous envelope contains ionized calcium, ionized and neutral helium and possibly oxygen ionized many times. Many of the spectral features cannot be understood at present. An outstanding peculiarity is that the spectrum shows no hydrogen, normally the elemental fuel of stars and almost always seen in stellar spectra.

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Since the distance of 3C-48 is not yet known, there remains a remote possibility that it may be a galaxy of stars very far away. However, the astronomers who have worked on the identification agree it is much more probable that 3C-48 is a nearby star with most peculiar properties.

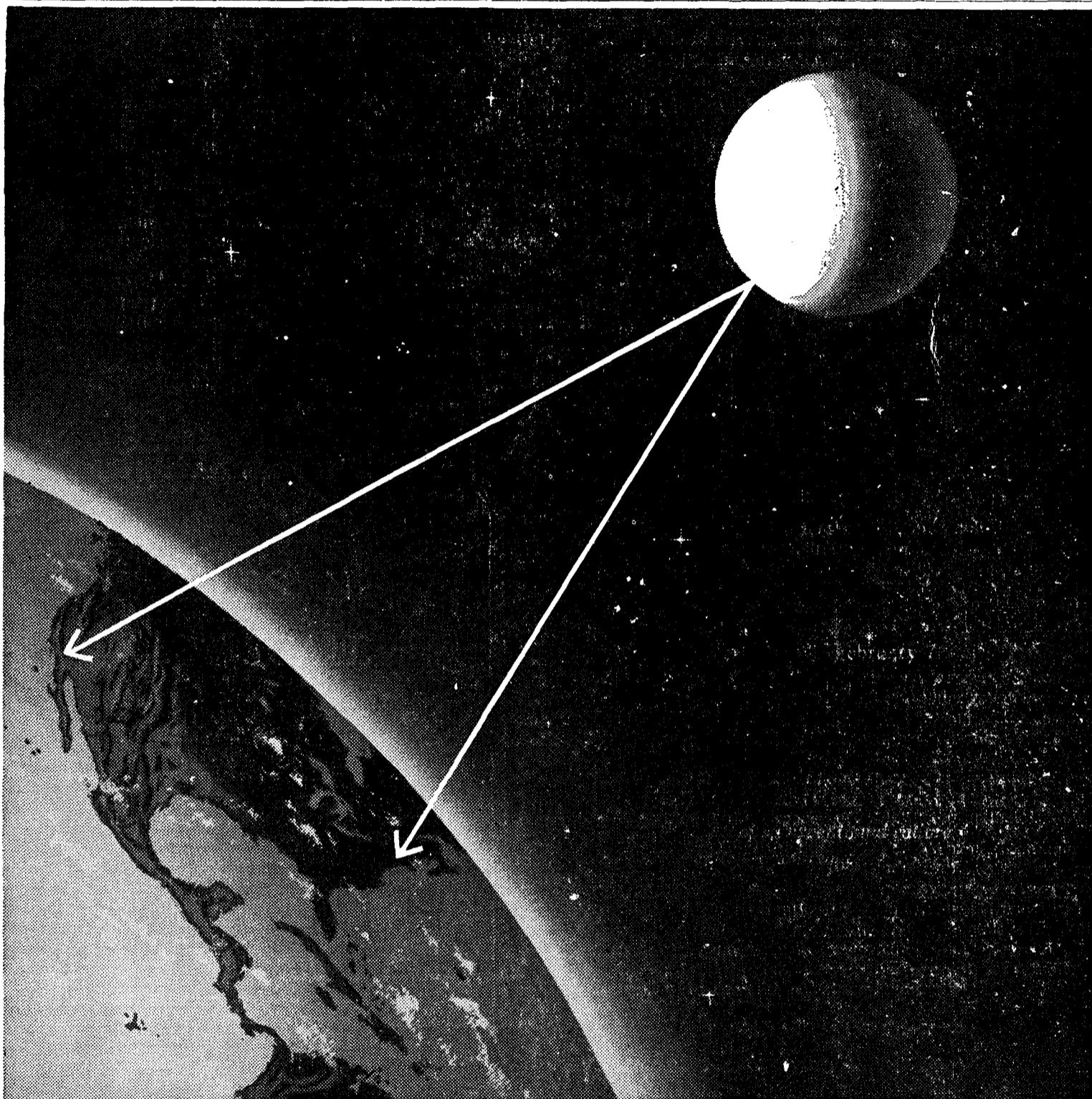
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Bell System Scientists, working with the National Aeronautic and Space Administration, bounced the first phone call off a man-made satellite, Echo I, in August 1960. The call traveled cross country between Goldstone, California and Holmdel, New Jersey.

The team that bounced phone calls off ECHO I needs good technical and management talent

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INTERVIEWS ON

FEBRUARY 8 and 9

ENGINEERS • PHYSICAL SCIENTISTS

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Sign up now, at your placement office

SPORTS

Cagers Dump Riverside For Third Win In Row

Caltech's varsity basketballers rolled to three straight wins during the past week, building up momentum for a rematch with Pomona on Saturday. The Beavers scored impressive wins over LaVerne and Riverside, and in spite of a bad showing overcome Upland.

Tuesday Caltech harvested revenge over Riverside, whipping UCR on the Caltech court, 72-60. The Beavers jumped off to an early lead, gradually increased it to more than ten points, and then clung to that margin for more than half the game. With the score at 44-31 at halftime, the Beavers coasted home by playing on even terms with the visitors for the rest of the contest. Top scorer for the Beavers was center Roger Noll who tanked twenty points, followed closely by Tom Bopp who collected eighteen.

Caltech's varsity basketballers downed La Verne Friday, 66-49. Even though star forward Tom Bopp was in bed with the flu, and Captain Bill Ripka had a bad enough cold to keep him on the bench for most of the game, the Beavers had a relatively easy time whipping the tall but slow Leopards. Center Roger Noll paced the attack with 19 points, with John Arndt close behind with 17. Forward Mike Perlman and guard Andt turned in great performances while subbing for the two stricken starters.

The Beavers led throughout the game, as they persisted in slowly stretching their lead to seven points at halftime, and to nearly 20 with two minutes remaining. The game was much easier than the Beavers expected, and displayed the ability of the varsity to play a good ball game when they are ready.

Saturday night, the Beavers displayed their ability to play a bad ball game when they aren't ready. Although managing to beat Upland, 63-58, the win was anything but impressive over a team that Occidental crushed by 50 points. Upland's poorly lit gym, together with the Uplanders' determination, nearly proved the undoing of the Beavers. Bopp led the scoring with 23.

At the beginning of the game, the Beavers fell far behind as they could not find the basket, due primarily to the poor lighting. With 10 minutes gone, the Uplanders led by 11 points, 17-6. Finally, the Techmen seemed to catch on to playing in the dark, roaring back to lead 26-25 at half-time. The game remained very close until the final minutes, when the Beavers scored six straight points to grab the final victory margin.

Saturday night the Beavers host cellar-dwelling Pomona in a conference game, starting at 8:15. The Sagehens will be out for Beaverskin, for it will be their last hope to win a conference game. When the teams met three weeks ago, the Beavers pulled out a win in the last seven minutes after trailing the

whole game. At that time, Pomona was suffering from a long list of injuries to key players, and although their situation is little improved, at least the psychological effect of the injuries has had time to wear off. Thus far Pomona has lost twice to La Verne and Claremont, and been creamed once by each of the rest of the SCIAC teams.

Tuesday the Beavers host Cal Western, who beat them rather soundly at the first of the season. The Westerners have been inconsistent this year, being unbeatable when they are hot, but mortal when cold. They certainly haven't improved as much as the Beavers, and could be in for quite a shock.

Riflemen Down Oxy For Trophy Newton Does Duty . . .

In a recent shoulder-to-shoulder competition, the Caltech AFROTC rifle team defeated usually strong Occidental on Oxy's home range, 1771-1690.

Top scorer for Tech was rifle team captain Gary Walla, with 372 out of a possible 400 points. Walla fired individual position scores of 95 prone, 98 sitting, 94 kneeling, and 85 standing on his way to this score.

Other Tech firers were David Hearn, 367; Bill Sconce, 366; David Clark, 337; and Richard Harris, 329.

Next scheduled match is the Secretary of the Air Force nationwide competition for Air Force ROTC units, after which Oxy will get a chance to win back the trophy they insisted be set up for the last match.

Bauer Seeks Counselors

Anybody interested in going to New Student Camp next year as a counselor should apply in the next week. Applications are made by putting a note in the B box in Dabney (for Bill Bauer).



Think you've got it bad? A young mother parked her stroller outside Throop Hall, went in on business, and . . . "Illegal parking, & I done my duty," said the officer. The baby said, "Goo," found the first decent use for a parking ticket.

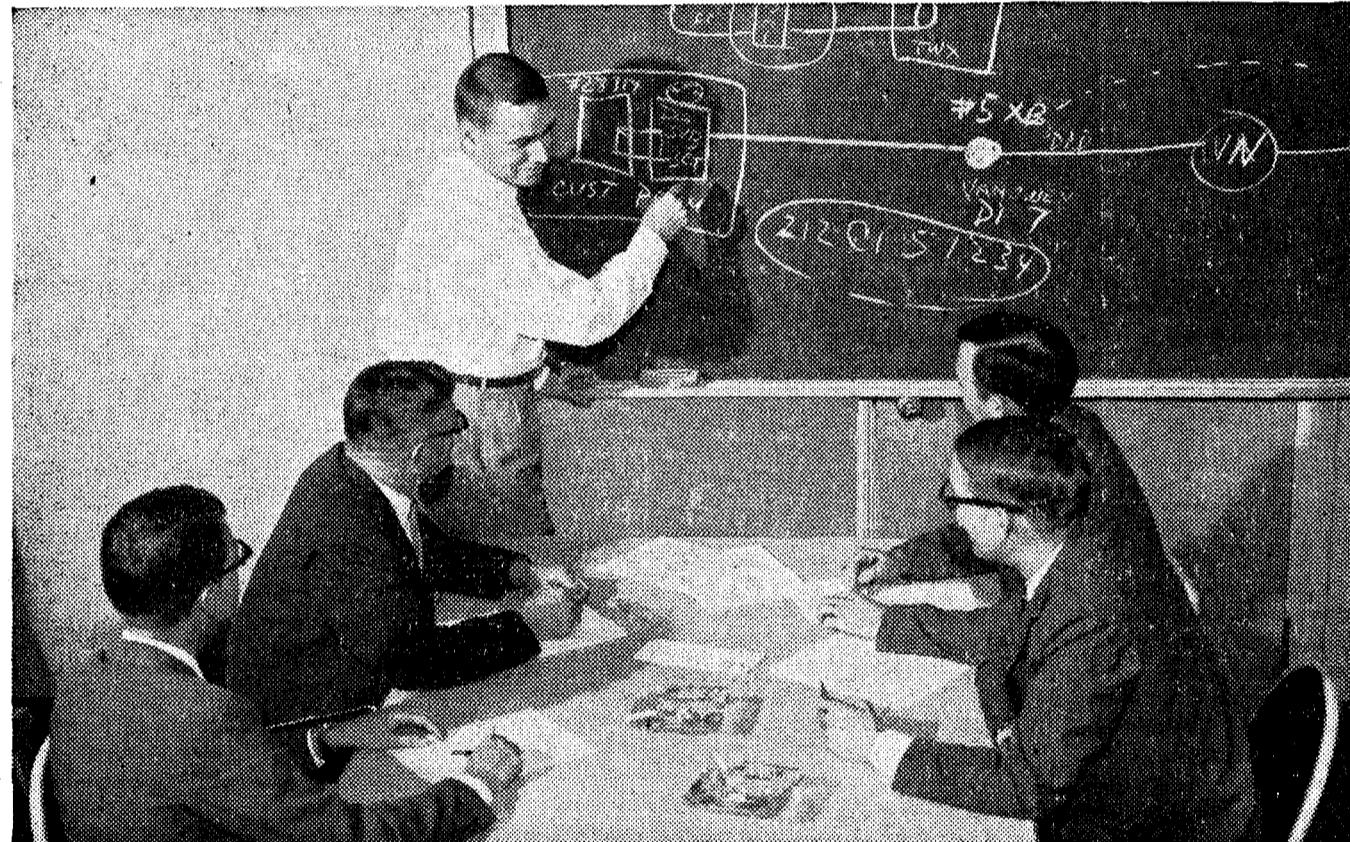
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STU'S EXPLAINING HOW MACHINES WILL SOME DAY "OUTTALK" PEOPLE

"Stu" Smith graduated from Southern Cal with a powerful yen for excitement. His kind of excitement—Engineering.

He got what he bargained for (and a little more) when he joined Pacific Telephone. One of Stu's early assignments was to find out how existing Long Distance networks could be used to pipeline high speed "conversations" between computers in distant cities.

The fact that he did a fine job did not go unnoticed.

Today, four years after starting his telephone career, Senior Engineer Stuart Smith heads a staff of people responsible for telegraph and data transmission engineering in the huge

Los Angeles area. As a pioneer in this new data transmission field Stu predicts data processing machines will some day do more Long Distance "talking" than people.

Stu contacted 12 other companies before joining Pacific Telephone. "I don't think there's any limit to where a man can go in the telephone business today. Of course, this isn't the place for a guy looking for a soft touch. A man gets all the opportunity he can handle right from the start. He's limited only by how well and how fast he can cut it."

If Stu's talking about the kind of opportunity you're looking for, just visit your Placement Office for literature and additional information.

"Our number one aim is to have in all management jobs the most vital, intelligent, positive and imaginative men we can possibly find."

FREDERICK R. KAPPEL, President
American Telephone & Telegraph Co.



BELL TELEPHONE COMPANIES

Marceau Bares Emotions, Life With Exciting Pantomimes

BY TOM TISCH

Have you ever seen a hand talk, or a heel sound the breaking of a balloon? These and a host of other exciting experiences would have been yours had you been fortunate enough to see Marcel Marceau, the world's most famous pantomimist perform at the Huntington-Hartford theater.

Marceau's art — and it is art, sheer and undiluted — is strangely appealing. He indicates that its appeal comes from its simplicity and universality. The impression that he conveys to the audience is unique — laughter and tears occur simultaneously — and not clouded with the shades of meaning that often cause the misinterpretation of spoken words.

Whether masquerading as the balloon vendor at the country fair, the side-show weight-lifter, a street-musician, or an elderly man sitting in a garden, Marceau's portrayal is both effortless and exciting. His pantomimes are drawn from the whole of human experience, re-

lief — you can feel it about to break — but just at the "breaking point" Marceau stops, peeks again slyly at the audience with an "I fooled you" glance.

Did the balloon break — you bet it did, with a thump on the floor of Marceau's foot, and a relieved twitch on the part of the audience.

The serious side of Marceau is most effectively shown in his short interpretation of "Youth, Old Age, and Death," where, with silent sound and colorless paints, he shows at once the vivaciousness of youth, the accompanying calm of maturity, the serenity of old age, and the peace of death.

In his last number — The Mask Maker — Marceau is extremely style conscious, working overly hard to show the full range of his art, and yet overlaying this with a strange note

of depth and seriousness.

In trying on the large variety of "masks," Marceau causes his face to take on the wide range of emotions — from extreme evil to the silly clown's grin — instantaneously, so there is no trace of the transition.

At the end, Marceau's face is "stuck" in a silly grin, but behind which he demonstrates the full range and depth of human feeling — from folly and foolishness to fervent supplication or help in getting the mask off. Who needs facial expression. Marceau doesn't and implies that other people don't, either.

The Marceau interpretation of life is vibrant and realistic. His presentation the same. You are left exhilarated, as many of your emotions are brought to the surface — for a while you've attained the same level of sensitivity as a master of emotion.

Winter Athlete? Sing! Get Measured

(Continued from Page 1)
etts, and Dave Helfman of Ruddock House.

In talking to the directors this reporter found that only a few have selected songs to date. Among those songs that will be heard at the Song Festival will be "Shenandoah" and "Aura Lee" by Lloyd House, and " Didn't My Lord Deliver Daniel" by Ruddock House. In addition to the folksing, Ruddock will sing "Eulogy" by Bialik-Helfman and Blacker House will sing "The Vagabond" by Steven Williams.

To Highlight the Program The Cal Tech Glee Club will sing two numbers, one of which will be "Sound of Music" by Hamerstein. A special feature of this years festival will be quartet contest. The Glee Club will give a trophy to the house presenting the best quartet. It should be a delightful event.



flect the whole of human feeling, and cause the audience to actively participate emotionally in the mimo-drama taking place on stage.

Marceau's entire background has been drawn from the art of mime. He himself says, "As a little boy, I sat entranced in movie houses as I watched those shining images (silent films) unfold before me. It was then that I determined to become a mime. To be capable of expressing a wealth of emotion in one look, one gesture, to be able to interpret the slightest nuance of the soul — was not that a prodigious ambition." And well he has done.

There are three sides to Marceau — at least three that are easily distinguished.

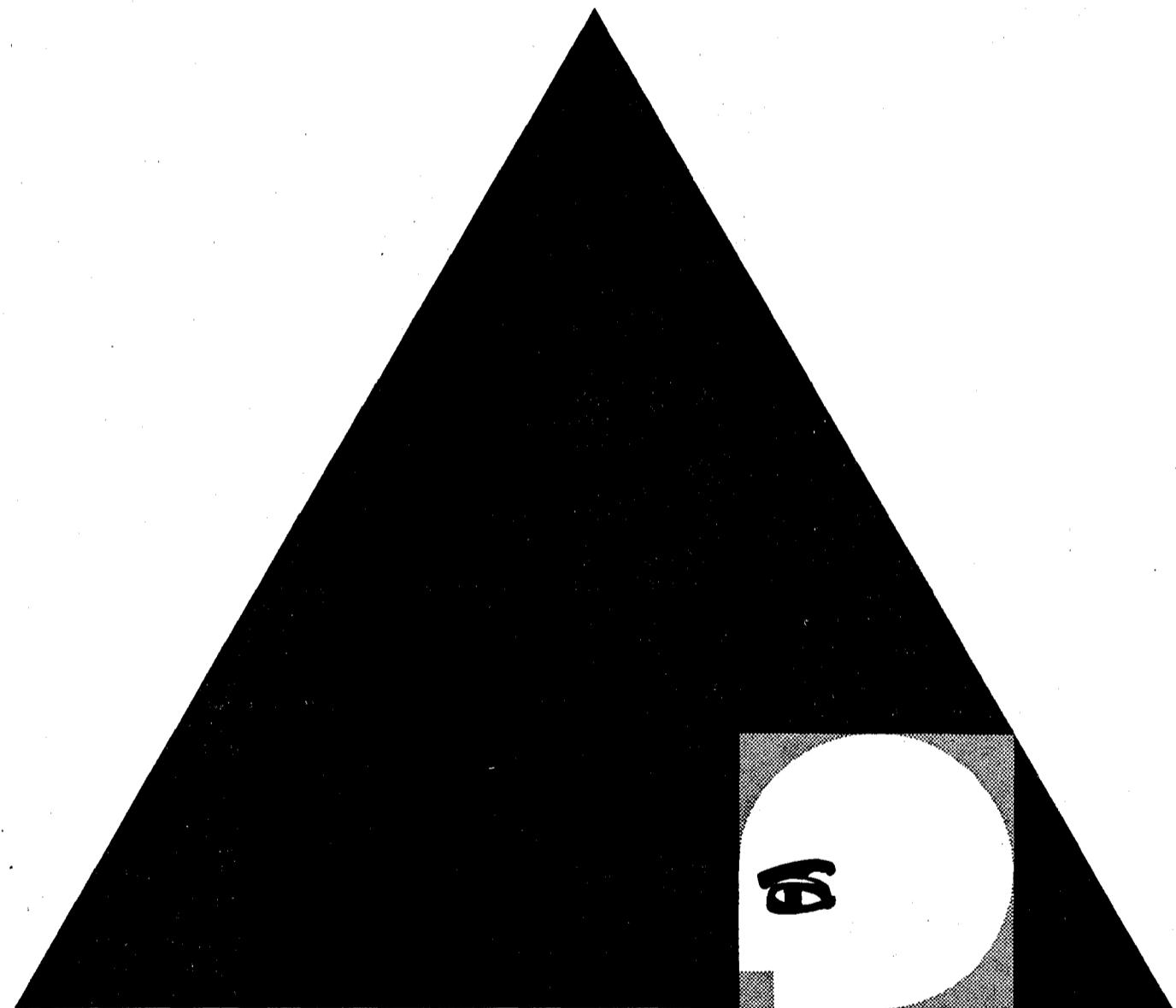
First, Marceau can be playful, teasing the audience with silent pictures and wordless gestures. Typical of this is his balloon blowing scene — a common experience — but wonderfully "told." Imitating a balloon with curved, outstretched hands as he pretends to blow it up, Marceau is the epitome of concentration. A huge breath — the balloon grows — and breaks? No, not yet. Marceau peeks slyly around the edge of the imaginary balloon.

Another breath, a bigger bal-

Pflaum Talks

(Continued from page 3)

ments. He has won a number of awards in journalism, the latest being the 1958 Marshall Field Award for excellence in editorial work on his newspaper. To carry out his AUFS duties Pflaum was granted a leave of absence by the Chicago Sun-Times.



TOP TALENT GOES MARTIN

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The Martin Representative will be on campus February 7th.