

CALIFORNIA TECH

California Institute of Technology

Volume LIV

Pasadena, California, Thursday, February 12, 1953

No. 16

Eight schools combine for ICC dance next Saturday

Frederick Martin's orchestra will entertain at gathering of colleges (at \$2 per pair)

This is your chance to take your favorite girl dancing to the music of one of the nation's leading bands, Freddy Martin. The gala affair will be Saturday, February 21, which is only a week from this Saturday. The dance will be held at the new Ontario Armory (map in next week's paper) which is a mere four miles past Scripps. This adds up to a 50-minute drive from Tech but well worth every minute.

The dress will be suits for the fellows and party dresses for the girls. The dance is sponsored by the student bodies of Tech, Chapman, Occidental, CMC, Pomona, Redlands, Whittier and Scripps. The price is only \$2 per couple and the tickets can be obtained from the house social chairman or the book store.

Anyone wanting more information or wanting to take a chance on a blind date with a Scripps lovely should see Bob Lynam.

Beno Gutenberg receives award

Dr. Beno Gutenberg, Caltech geophysicist, has been selected by unanimous vote to receive the William Bowie Medal of the American Geophysical Society. The medal is given annually "for distinguished attainment and outstanding contribution to the advancement of cooperative research in fundamental geophysics."

Prof. Gutenberg plans to accept the medal personally from Dr. Morris Ewing of Columbia University at the Union's annual meeting to be held May 4-5 in Washington, D.C.

An authority on earthquakes, seismicity of the earth, geophysics, and the nature of the earth's core, Dr. Gutenberg is noted in the fields of sound wave propagation and structure of the atmosphere. During World War II he was technical adviser to the Navy Department on the use of microseisms in the location of hurricanes and typhoons.

Sailing club

Important meeting in 206 Dabney at 7:30 on Monday, February 16.

Interview Schedule

MON., FEB. 16—McDonnell Aircraft. Group meeting 4:15 p.m.—109 Mudd. Film to be shown.

TUES., FEB. 17 and WED., FEB. 18—BS, MS, Ph.D., CE, EE, ME, MS/PhD/Ae, EE, Ph. McDonnell Aircraft, St. Louis, Mo. Interviews. McDonnell Aircraft offers a graduate plan for men wishing to continue their education while employed.

TUES., FEB. 17 and WED., FEB. 18—BS, MS, Ph.D./Ch, ME, ChE, Shell Chemical Corporation. Representatives of the Ventura and Torrance plants will be on campus to interview. Employment in laboratories and various technical departments for work in connection with the manufacture of chemical derivatives from petroleum and natural gas.

TUES., FEB. 17 and WED., FEB. 18—BS, MS/CE, EE, ME, Ch, ChE, Shell Oil Company—Refining. The interviewers will be from the Wilmington Refinery.

THURS., FEB. 19—BS, MS, Ph.D./Ch, ChE, Dow Chemical Company, Midland, Mich., and Pittsburgh, Calif.

THURS., FEB. 19—Phillips Petroleum, Bartlesville, Okla. Information regarding interviews later.

WSSF and Community Chest combined in charities Drive

Deans and profs will wait on tables in the house collecting the largest fund

Monday, February 16, marks the start of the ASCIT Consolidated Charities Drive. This year three charities are represented, the World Student Service Fund, the Pasadena Community Chest, and the American Heart Association. The undergraduates and graduates are being asked to contribute to all three charities and the faculty members are being solicited for WSSF (World Student Service Fund) only.

Former Techman speaks on Navajos

Last Monday Hugh S. Bell, a former employee of the Hydrodynamics Lab, spoke to the Caltech Christian Fellowship of his missionary work with the Navajo Indians of Arizona.

During the war Mr. Bell worked on torpedo research project; but after the war he felt that as a Christian he should not continue to devote his life to the development of better ways to kill. Turning to the Navajo mission field, he soon became disappointed with the ineffectiveness of present methods and began to apply his technical abilities to the problem.

He designed an inexpensive, durable, portable phonograph which was placed in the homes of the Navajos, along with recordings of the Gospel in the Navajo language, thus solving the language problem, since the Navajo language is too difficult for a white man to learn well. Mr. Bell's "mechanical missionaries" have been very successful, winning more converts each than most missionaries in that field, and costing only a fraction of a missionary's expense.

Dr. Buwalda given conservation award

Dr. John Buwalda has received a Conservation Honor Award from the California Conservation Council for his continuous work for the last twenty-five years with the National Park Service. He has done effective conservation work and served on both the board of expert advisers to the National Park Service and later on the Yosemite Advisory Committee.

In addition, he has been active in water supply conservation in connection with the Colorado River Aqueduct and construction of dams in California. During the war he worked to increase water supplies for army camps and military hospitals.

PLACEMENT NOTICE

Seniors and graduates were reminded today that February 13 is the deadline for filing applications with the State Personnel Board for three career civil service examinations.

The classes are Administrative Trainee, a training class for the State service, paying \$281 to \$325 monthly; Junior Real Property Agent, \$310-\$376, and Junior Staff Analyst, \$325-\$395.

Candidates for trainee and property agent need only college graduation to be eligible. Graduate work or a year in technical or personnel work will qualify for staff analyst. Some substitutions may be made in schooling and experience.

Applications and complete information may be obtained from State Personnel Board in Sacramento, San Francisco, and Los Angeles, or the student placement office.

Robinson here from Turkey for AUF staff

An authority on the Republic of Turkey is a visitor to Caltech this week. He is Richard D. Robinson, a representative of the American Universities Field Staff. Mr. Robinson is the third of four AUFs representatives scheduled to visit here this year. The last, Mr. A. Doak Barnett, will arrive Feb. 20.

True Turkish clue

Mr. Robinson comes to Caltech to report on current happenings in Turkey. His visit is one of a series sponsored by AUFs to better acquaint its member colleges with world affairs. He has already toured six of these colleges and will visit the others before returning to the field in about three weeks.

Mr. Robinson's stay here features speeches and discussion groups. "Turkey in Global Politics" will be his subject when he addresses the "Y" faculty-grad luncheon group today in the Athenaeum. Tonight at 6:30 he will address the faculty and their guests on "Introduction to Turkey."

At Y tomorrow

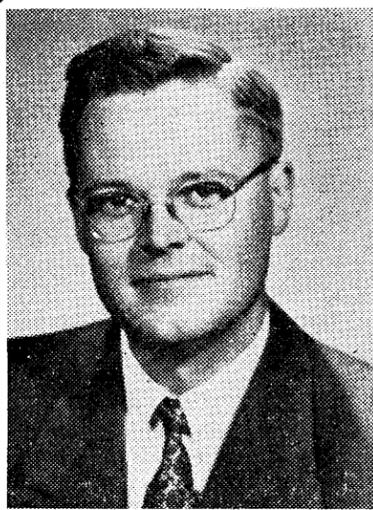
Tomorrow, Feb. 13, Mr. Robinson is scheduled to lead a "Y" graduate discussion group at the Y residence. He will visit Dabney and Ricketts Houses for dinner and discussion before leaving next Wednesday.

To return to Turkey

After leaving here he will either return to Turkey as an AUFs representative or move to Yugoslavia for a period of study there. Since Yugoslavia is a crucial area in world affairs today, Mr. Robinson hopes that Yugoslavian government regulations will allow him to study there.

Mr. Robinson's experience in Turkey includes three years as an Associate of the Institute of Current World Affairs. During this time he taught at Robert

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RICHARD H. ROBINSON

Tech not involved in LaForce case

Dean Strong announced this week that Caltech is not likely to be involved in any trial that may arise out of the charges against Richard La Force.

News Bureau Chief Bob Fiedler said that metropolitan newspapers may send reporters here to see what they can find out about the 19-year-old Caltech junior from his student associates. Discretion in this respect is up to the individuals who might be approached. No one is under any obligation to disclose his personal opinions unless he wants to.

Friday the 13th

Are you superstitious? Do you cringe at the sound of Friday the thirteenth? This Friday is your lucky (or unlucky) day for dropping courses. In fact, it is the last time that you can do it this term.

ASCIT march 6

By popular request this term's ASCIT dance will be a costume ball. It will be held at the Altadena Town and Country Club on March 6. Anyone willing to help decorate please see Bob Lynam.

FBI gets curious when wingless jet takes off

Last week about this time there was considerable turmoil on the campus about the disappearance of one wingless F84. Most people on campus, including Dean Strong and Colonel Small, got a kick out of it, but the Air Force took a rather dim view. They called in the FBI and asked that enough information be collected for a grand jury indictment of the men most responsible for the theft. When the FBI investigators arrived Dr. Weir and the Interhouse Committee persuaded them to

allow the students to conduct the major part of the investigation.

Deans Strong and Eaton, anxious to see the whole business cleared up satisfactorily, called the local head of the FBI. This gentleman sympathized with the deans and the students, saying that he had been a college student once; but said that it was the duty of the FBI only to make an investigation and submit a report to the United States attorney, who would decide

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Campus Calendar

THURSDAY, FEB. 12—
12:00 YMCA Graduate-Faculty Luncheon Forum
7:30 SAE Meeting, 010 Engineering
8:00 Athenaeum Lecture, Athenaeum "Introduction to Turkey" (Illustrated)
FRIDAY, FEB. 13—
7:30 Friday Evening Demonstration Lecture, 201 Bridge, "Liquid Air"
8:45 Frosh Basketball vs. Pomona at Oxy
SATURDAY, FEB. 14—
8:45 Varsity Basketball vs. Pomona at PCC

The case of the F84

Last week a wingless F84 somehow travelled from the campus to Colonel Small's doorstep. Most people got a good laugh out of it but apparently the US government objects to airplanes that move and sent two of their men around to do something about it. It was never very clear to us what the FBI wanted to find out; they went about their job in a very strange and perhaps unique way; they turned over the investigation of the suspects to the suspects themselves. This probably indicates something of what people think of the integrity of Caltech students. However, this is not what we started out to talk about.

Apparently the FBI wanted to find the two or three men who were most responsible for the prank so that they could say they had found the culprits. It was mainly through the efforts of Dean Strong and Colonel Small that the case evaporated so rapidly. It took a whole afternoon of talking and explaining on the parts of Dean Strong and Colonel Small with the two FBI men and the US attorney to persuade them to drop the case.

We think some thanks are due these people who got us off the hook so fast and we'd like to say, "Thanks, it's nice knowing you're on our side."

Perhaps there should be some admonition from the California Tech about such stealing. So all we can say is that we shouldn't do such things; next time take something like the dome of Pasadena City Hall; that isn't a federal offense.



All things are caused by Nature or by other causes. —Aristotle

To the rescue

Willing to be a genial sort of fellow, we will harbor no grudge about being cut short last week to make room for the XF 84.5 Thunderspray ad, and will try again with a story about the Dabney men who lucked out again with Kenyan Hall week before last. The Kenyan girls, connoisseurs of masculinity, called the Darbs to their rescue on Sunday by beseeching Stocky to supply men for a combination bridge-beach party at the beach house of one of their swank group. Stocky, always one to lend a helping hand to a woman in distress, arranged to have Dabney's emergency gigolo squad of Bryan, Kausen, Barnes,

Szold, and T. S. himself serve as handsome, witty, and charming Lotharios. Reports indicate that the Darbs made much of their guests, who greatly enjoyed it.

Service with a smile

Private maid service isn't very common around Tech; in fact, Don Hook seems to have a corner on the market. Last week he walked into his room, which he had left in a state of complete chaos, shortly after lunch to find his bed made, the room neat as a pin, and a note on the desk saying, "Dear Don—Stopped by, but you weren't here. This is a little present for you. Love . . ." (Signed by a young lovely from SC we understand). We think this is fine, but for God's sake, Don, bring her around so we can have a look. Not only is this girl a queen, but she seems to be able to fix other people up with queens as well. Friday night Neil Stefanides, who as you know had already gone the way of all healthy males, double-dated with Don and his girl. She fixed Steff up with a gal who was really ooh-lala stuff from the first hello. The next time we saw him he wouldn't say much, but he had that cat-who-just . . . (that isn't the right expression, but they censor this

(Continued on Page 3)

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Corsages Our Specialty

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California Tech

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MUSICAL SHORTS

by Stanley Grotch

This weekend American opera lovers will be treated to a rare event. Saturday the Metropolitan Opera Co. will present the American premiere of Igor Stravinsky's opera, "The Rake's Progress." The performance will be broadcast over station KECA starting at 11 am. The cast includes Hilde Gueden, Blanche Thebom and Eugene Conley.

The libretto, written by W. H. Auden and Chester Kallman, was suggested by the famous paintings of George Hogarth. Since I was totally ignorant of the plot, I have taken the following resume' from the column of Olin Downes of the New York Times.

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"LEAVE IT—"
"WE DO IT."

8 a.m. to 6:30 p.m.
Sat. 8 am. to 6:30 p.m.

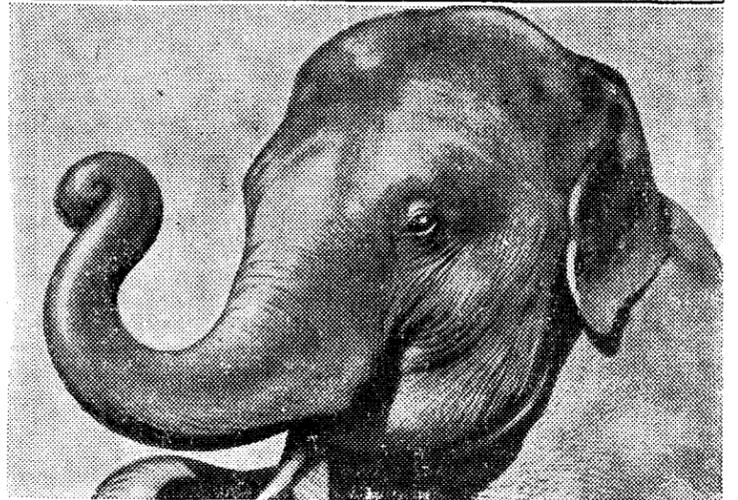
LAKE AVE. WASH-OUT

563 S. LAKE AVE.

(at California)

SYcamore 2-0687 Pasadena 1

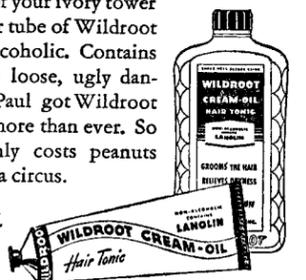
J. Paul Sheedy* Switched to Wildroot Cream-Oil Because He Flunked The Finger-Nail Test



"HURRMPH"! trumpeted Sheedy, "What a elephant time to have my hair act up. Might as well break my date and get trunk!" Luckily he was overheard by a Pachydermitologist who said, "Tusk, tusk! You've got a messy big top from pouring those buckets of water on your head. Get out of your ivory tower and visit any toilet goods counter for a bottle or tube of Wildroot Cream-Oil, "Your Hair's Best Friend". Non-alcoholic. Contains soothing Lanolin. Relieves dryness. Removes loose, ugly dandruff. Helps you pass the Finger-Nail Test." Paul got Wildroot Cream-Oil, and now all the girls tent to him more than ever. So why don't you try Wildroot Cream-Oil? It only costs peanuts —29¢. And once you try it, you'll really have a circus.

* of 131 So. Harris Hill Rd., Williamsville, N. Y.

Wildroot Company, Inc., Buffalo 11, N. Y.



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Graduate Plan

For

MASTER OF SCIENCE

And

DOCTOR OF SCIENCE DEGREES

PURPOSE

To assist outstanding BS graduates in obtaining their Master of Science and Doctor of Science Degrees while employed in industry and making a significant contribution to national defense work.

ELIGIBILITY

June 1953 graduates receiving BS Degrees in the following fields:

- Aeronautical Engineering
- Civil Engineering
- Electrical Engineering
- Electronic Engineering
- Mechanical Engineering
- Physics

Those chosen to participate in this Plan will be from the upper portion of their graduating class and will have evidenced unusual technical ability. They must also have evidenced imaginative ability and possess personality traits enabling them to work well with others.

CITIZENSHIP

Applicants must be United States citizens who can be cleared for "Secret."

PARTICIPATING UNIVERSITY

Washington University in St. Louis will participate in this program and candidates for Master of Science and Doctor of Science Degrees must meet entrance requirements for advanced students at this university.

PROGRAM

Under this Graduate Plan the candidate will work full time at McDonnell Aircraft Corporation until September 1953. From September 1953 to June 1954 candidates will work at M.A.C. from 28

to 36 hours per week, attending Washington University on an individually arranged schedule. A Master of Science Degree should be obtained within a maximum of two calendar years. Under this arrangement it will be possible for a candidate to earn approximately 85% of a normal year's salary and to attend the university during regular semesters while working toward his advanced degree.

COMPENSATION

Compensation will be commensurate with the individual's ability and experience. Compensation growth will be on the same basis as the full time members of the engineering staff. In addition, the candidate will be eligible for all other benefits accruing to full time employees.

TUITION

Tuition covering the required number of units necessary to obtain an advanced degree will be paid by McDonnell Aircraft Corporation.

SELECTION OF CANDIDATES

Candidates will be selected by officials of McDonnell Aircraft Corporation and Washington University.

DATES FOR APPLYING

June 1953 graduates should make informal applications prior to March 15, 1953. McDonnell Aircraft Corporation will then forward formal applications which should be returned by April 15, 1953, accompanied by up to date grade transcripts. All replies will receive full consideration and selections will be made during the month of May, 1953.

ADDRESS CORRESPONDENCE TO

Technical Placement Supervisor

McDonnell Aircraft Corporation

Post Office Box 516

St. Louis 3, Missouri

SEC'S AT TECH

By Bernie Schweitzer and Tom Taussig

Pasadena-born Anne Jensen is in the spotlight this week. Anne works for the Chemical Engineering Department as a secretary-typist.

After two years at PCC, Anne moved eastward to attend Grandview College in Iowa. She followed this with a part-time teaching position in Tyler, Minn. It was there that Anne learned to operate a cultivator, a useful bit of knowledge for a Caltech secretary, which has been Anne's major occupation since August of last year.

On weekends Anne likes to go sailing. She also is somewhat of an artist, with a leaning towards watercolors.

Anne plays the piano, too, her



favorite composer being Debussy. As to her literary tastes Anne "goes Pogo."

CAMPUS BREWINS

(Continued from Page 2)

stuff) smile on his face. Go to it, Steff!

"On land as on the sea"

The ex-Marine contingent in Blacker hasn't let us down, either. Seems that last weekend Fritz Trapnell took off for Balboa to stay with some friends. The catch is that he took along a girl from Scripps. We aren't quite cleared up on what happened, but if she's the one that's been seen with him lately... well, all Eve needed was an apple. Some pickin's, Trap, keep

up the good work.

Crusade in Blacker

The revolution has started! Friday night Friars Jacobs and Stefanides launched a new church in Blacker. Friar Steff gave us a bit of the background of the new church and explained its purpose, which is to raise the purity average of the house. Friar Jacobs read the proclamation, which in turn was followed by singing... well... er... call it what you like.

Hoarder

Perry Vartanian got in the news this week by winding up at a party one night where the female to male ratio was 7 to 1. Not only that but Perry was the only male. Therefore we wind up with the expression 1 to 7 = Perry-x. Perry's only com-

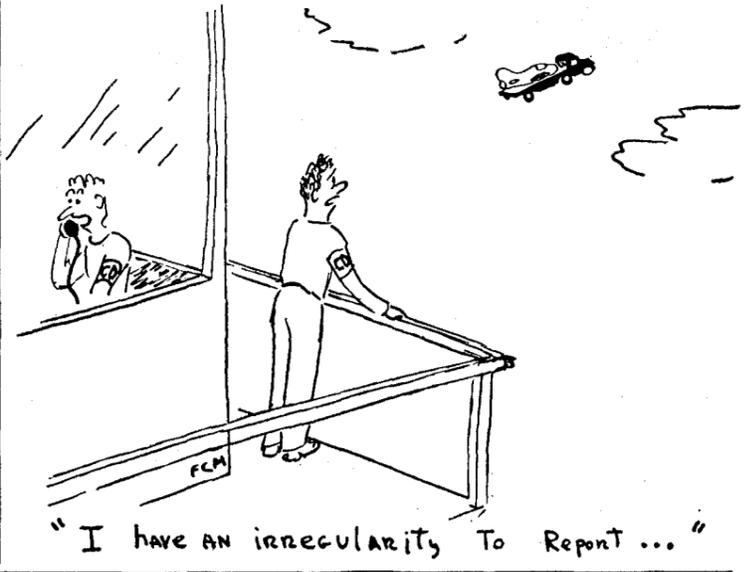
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WAGGIN' WHEELS

There are three types of fuel injection: solid or direct injection, constant flow and timed carburetion injection. Direct injection is the type used in Diesel engines and carburetion injection is the type adopted for use in spark ignition racing engines. We will here consider only carburetion injection.

In carburetion injection the fuel is injected directly into the intake ports and is metered to keep the air-fuel ratio constant. Metering is the big problem at present in automotive engines, although it has been whipped in the aircraft industry by Stromberg. Since the amount of air going into the cylinder is proportional to the throttle setting and rpm, the amount of fuel should be proportional to the amount of air. The fuel is metered according to engine rpm and throttle setting. Both timed and constant flow injection use this same method of metering, the only difference being that in constant flow injection the fuel is always being injected into the port, even when the valve is closed, but in timed injection the fuel is injected only

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"I have an irregularity To Report..."

MUSICAL SHORTS

(Continued from Page 2)

The Hogarth pictures depict certain aspects of London life in the 18th century. The Rake is dissolute and unrepentant. He is seen in the paintings as the rich heir holding court to his cronies and hangers-on at a levee, being robbed in a brothel; arrested for debt and saved from the dilemma by the savings of the girl he wronged; marrying a hideous old bearded woman to recoup his fortunes; going to ruin in a gaming house; nagged his his hideous wife in prison; insane in a madhouse and supportd in his dying moments by the unfortunate girl

who never abandoned him. The opening scene of the opera is a bucolic spectacle in the garden of Truelove's house, where first Tom, the future Rake, is seen with Anne, to whom he is affianced. "Nick Shadow"—evil embodiment of

(Continued on Page 4)

TERRIFIC BURGERS
HOT PASTRAMI SANDWICHES
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Only Time will Tell...

WOW! HAVE WE GOT OURSELVES A CHOWHOUSE!

I'M COMING HERE EVERYDAY. LOOK AT ALL THE CHROMIUM!

THIS PLACE IS GONNA BE HERE FOR A LONG TIME TO COME!

HOW CAN THEY TELL SO SOON? THEY'LL HAVE TO TRY THE FOOD FOR A WHILE!

Only time will tell about a new restaurant. And only time will tell about a cigarette! Take your time...

Test CAMELS for 30 days for MILDNESS and FLAVOR!

THERE MUST BE A REASON WHY Camel is America's most popular cigarette—leading all other brands by billions! Camels have the two things smokers want most—rich, full flavor and cool, cool mildness...pack after pack! Try Camels for 30 days and see how mild, how flavorful, how thoroughly enjoyable they are as your steady smokel

More People Smoke Camels THAN ANY OTHER CIGARETTE!

R. J. Reynolds Tob. Co., Winston Salem, N. C.

CHARITIES DRIVE

(Continued from Page 1)

ice to Pasadenans through local hospitals, clinics, family counseling services, children's homes and youth serving agencies.

Budgeting of funds for 1953 is now underway by the Chest Budget and Finance Committee made up of 11 business, professional and civic leaders who serve on a volunteer basis. Since the community did not meet its goal of \$598,750, budgeting is being aimed at allocating funds to

continue services most needed in the community and to make the most efficient possible use of funds available.

Included in the list of Red Feather agencies supported through the Chest and offering services to individuals and families in all income groups are:

For families and individuals with problems which can be helped by skilled, professional counseling, Family Service, Catholic Welfare Bureau, Altadena Welfare and Child Placement Service, Legal Aid, Salvation Army;

For people with either physical or mental health problems, Women's Hospital (maternity only), Children's Hospital of

Los Angeles, Pasadena Dispensary, Child Guidance Clinic, Citizens Milk and Hygiene Committee, Visiting Nurse Association;

To provide character building and leisure-time activities for boys and girls, Boy Scouts, Boys' Clubs (two), Girl Scouts, Camp Fire Girls, Pasadena Settlement, Scattergood Association, YWCA, YMCA, Girls Club;

To provide homes for youngsters whose own homes have fallen apart because of death, illness or desertion, Boys and Girls Aid Society, Rosemary Cottage, Pacific Lodge Boys' Home;

For our share to agencies doing a job on a national scale, USO, Traveler's Aid, National Social Welfare Assembly, Amer-

ican Hearing Society, Community Chests of America, Child Welfare League;

For community planning and central services in our own community, Welfare Council, Volunteer Placement Bureau.

Chest officials also pointed out that campaign costs of the 32-in-1 Chest campaign are approximately four cents on the dollar, lower than any other campaign in Los Angeles County.

Heart Association

Heart and blood vessel diseases caused more US deaths last year than the next nine causes combined! This killing disease not only affects middle age and older people, but is the leading cause of death for children between the ages of 5 and 19.

Research is the "heart" of the Heart program. Due to past research, surgical techniques to save the once doomed "blue babies" have been developed, successful massaging techniques for hearts which stop during operations have been developed, and diets have been evolved to slow down the ravages of heart dis-

ease and prolong life. Among some of the current research projects are use of new drugs in treatment of various heart diseases, use of X-rays in tracing the flow of blood, operations on damaged heart valves, use of artificial kidney to clear the blood of poisons if the natural kidney does not function, and development of diets for alleviating heart diseases.

Among other than research projects are aid to cardiacs. This aid is in helping the cardiac to find a job, assistance to cardiac housewives and education of cardiac employers as to the type work the cardiac can do. The American Heart Association keeps physicians up to date on the latest developments in the field of heart disease. This charity needs your support.

Think about these three charities carefully and give all you can afford. A solicitor will see you during the next week; be prepared to give him a few minutes of your time and your largest donation.

Thank You!

Pat Fazio,
Chairman of ASCIT
Consolidated Charities Drive

25 Years—Serving Techmen
Same Location
Carl's Caltech Barbers
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THE PLACE TO GO FOR BRANDS YOU KNOW

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Good Chili

On California just east of Lake

MUSICAL SHORTS
(Continued from Page 3)

Tom's secret wishes and selfish soul—brings news of Tom's inheritance from a rich uncle. Tom has denied father True-loves suggestion that he go to work and earn an honest living. He has no such intention, and believes completely in the power of the wish, "Let wishes be horses; this beggar shall ride." The wish, immediately granted, is his ruin. Tom leaves Anne, reaches London with his companion who observes, in an aside to the audience, that "The progress of the Rake begins."

Nick brings Rakewell to the brothel of Mother Goose, mistress of illusions and snares, who participates with him in the betrayal of his faith, "the vow he did not keep." Immediately after this there is the spectacle of faithful Anne, alone in the moonlight in the garden, who will go to London to find and rescue the lost one.

There is the horrible project broached by Nick, to marry Baba the Turk for more money to which Tom consents with self-derision; followed by the poignant scene when Anne comes to Tom's doorway, reaches there just in time to see him greet his unsightly bride in her palanquin and fling in her face the fact of his treachery.

Baba drives Tom mad with her driveling talk in his breakfast room and the passage ends with him pulling his wig down over her face to shut her up. There is the scene of attempted auction of Baba's effects and of Baba herself. Anne appears again. Baba, sick already of her bargain with Tom, will return to the stage, and she tells Anne to hurry back to Tom.

On a starless, silent night Tom
(Continued on Page 5)

A Southern belle once said to me,
"I'd like to tell you—all
That I smoke Luckies 'cause they're free
And easy on the draw!"

Richard H. Levine
University of Vermont



Nothing—no, nothing—beats better taste

and **LUCKIES**
TASTE BETTER!
Cleaner, Fresher, Smoother!

Ask yourself this question: Why do I smoke?

You know, yourself, you smoke for enjoyment. And you get enjoyment only from the taste of a cigarette.

Luckies taste better—cleaner, fresher, smoother! Why? Luckies are made better to taste better. And, what's more, Luckies are made of fine tobacco. L.S./M.F.T.—Lucky Strike Means Fine Tobacco.

So, for the thing you want most in a cigarette... for better taste—for the cleaner, fresher, smoother taste of Lucky Strike...

Be Happy—GO LUCKY!

In spelling class we get high grades
Because we plainly see
That better-tasting cigarettes
Spell L.S./M.F.T.

Margaret Johnson
Duquesne University



I went to see the Registrar—
He sent me to the Dean.
The Dean said, "Son, smoke Lucky Strike—
They're Smooth! They're fresh! They're dean!"

William A. Spiegler
Northwestern University



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Open Evenings

CAMPUS BREWINS'

(Continued from Page 3)

spent." ment: "That was a night well
"The greatest . . . is sex"
 Several esteemed Ricketts philanthropists were seen promising their vast estates to the WSSF Monday night. The cause of this sudden burst of generosity was not spiritual, not moral, not even a deep-seated desire to improve the lot of Zulu grad students in the field of head diminutization, but was far more basic than any of these trivia. If you can't guess children, it was sex, in the person of a superbly pulchritudinous (stacked) damsel from U.S.C. Rumor hath it, the denizens of Crud Alley have pledged their sundaes for the next seven years. Autrey in particular was about as distant and disdainful as a leech. She had a heart of basalt, however, and there is no success to report.

In peace & war

In the nature of a "now it can be told" disclosure, we supply the following super-secret information from the private files of the FBI, which we obtained only after promising to use only LAVA soap in our daily toilette for the rest of our natural life.

Item 1: J. Edgar admitted that
 (Continued on Page 6)

MUSICAL SHORTS

(Continued from Page 4)

is led by Nick to the graveyard. It is a year and a day since the time Tom accepted Nick as his factotum, with wages to be agreed upon when the time of Nick's servitude ended. That is tonight. Tom may end his life by a pistol, a rope, poison, or a dagger, as he pleases.

The clock strikes twelve. The Fiend proposes a game of three cards. Let Tom guess them as he cuts and he will be free. Desperate, and about to perish, Tom thinks of Anne, the lost love, "Queen of My Heart." That is the card—the Queen of Hearts. Nick addresses the audience. To win a game right off would not be interesting sport. Another play! With a crash, the deuce of spades falls to the ground. Tom looks upon it and observes calmly that Anne's spirit lights his way. The third cut is made. The devil will deceive Tom by again using the same card that he first chose. The voice of Anne is heard. The same tones come involuntary from Tom's throat as he thought again of his profaned love. "Return," he cries, "renew my life, O Queen of Hearts," and sinks senseless to the ground.

The devil has still some control of Tom's destiny. He may not hope to bring Tom down to hell, but he can, and does, curse him with madness. The sun rises on Tom sitting upon the open grave, now covered with green, bereft of his mind. The scene changes to Bedlam. Tom sings that he is Adonis and that Venus, his love, will come to him. The madmen in chorus mock him. The jailer brings in Anne. Let her call him Adonis, he says, and the demented man will answer to that name. She calls, "Adonis." Tom does reverence and places "Venus" upon her throne—his straw pallet.

WAGGIN' WHEELS

(Continued from Page 3)

when the valve is open. The main advantage is of fuel injection is that there is very little restriction to air flow, that is ordinarily encountered with standard or racing carburetion, which improves volumetric efficiency, a factor of utmost importance. Fuel injection also gives accurate metering at all engine rpm independent of centrifugal force, motion or angle of engine, and gives better fuel vaporization at low rpm than any carburetion.

Along with these advantages there are also some disadvantages; mainly, that fuel injection is expensive to design and manufacture, and is not repairable by the ordinary mechanic. These two disadvantages can be completely disregarded in racing applications, because engine performance is by far the most important consideration.

At the recent Indianapolis race, nearly all of the thirty-three starters were equipped with fuel injection. This is a big attainment for something which had its beginning in a hot rod owned by Stu Hilborn on California's dry lakes. Fuel injection was also used in the City of Burbank which, with a Merc engine, broke the International Class C record held by Auto Union for many years.

Now Venus must hear her Adonis' confession. In a foolish dream he has hunted shadows and lost her. The embodiment of Venus tells Adonis that his repentance is all-sufficing. She asks for a kiss, for the wild boar is vanquished. The madman asks his Venus if her mortal bridegroom may lay his head on her breast, and she sings him a lullaby. Truelove, the father, comes to take Anne away, to which Anne agrees. Nevermore will she see Tom; but she will never forget. Tom, awakening, cries out, "Achilles, Helen, Eurydice, Orpheus, Persephone—where is my Venus?" He feels the chill of death, and Orpheus must strike from his lyre "a swanlike music, and weep . . . for Adonis, whom Venus loved."

There is an epilogue, with maxims, in the classic fashion,
 (Continued on Page 6)

FBI GETS CURIOUS

(Continued from Page 1)

whether a complaint would be issued. Dean Strong went into conference with the US attorney in Los Angeles armed with a statement from the Interhouse Committee stating that the student houses would take responsibility for the theft and any costs that would be involved.

Through the persuasion of Dean Strong and Colonel Small, the attorney agreed to drop the case on the condition that any damages would be paid for and that such a thing would not happen again.

The bills for the damage have been presented to the Interhouse Committee. The Air Force is asking for \$487.70 for damage to the truck and trailer while B&G wants \$581.24 for the damage to the fork lift. The total, then, is \$1068.94.

ROBINSON HERE

(Continued from Page 1)

College, Istanbul, and spent a year in a central Anatolian village studying Turkish provincial life. In 1950 he assisted with the writing of **The Economy of Turkey**, the report of an economic survey mission sent to Turkey by the International Bank for Reconstruction and Development.

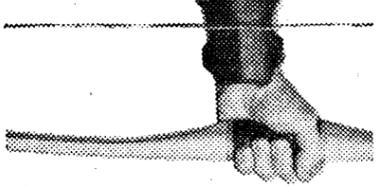
Mr. Robinson is a graduate of the University of Washington and of the Harvard Graduate School of Business Administration. During the war he served in the Army, and later held a post in the military government of South Korea.

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 MECHANICAL ENGINEERING

Those chosen to participate in this plan will be from the upper portion of their graduating classes and will have evidenced outstanding ability. They must also have displayed some degree of creative ability and possess personality traits enabling them to work well with others.

Citizenship Applicants must be United States citizens, and awards will be contingent upon obtaining appropriate security clearance, as work at the Hughes Research and Development Laboratories may be related to National Defense projects.

Universities Candidates for Master of Science Degrees must meet the entrance requirements for advanced study at the University of California at Los Angeles or the University of Southern California.

Program Under this Cooperative Plan, commencing June 1953, participants will follow this schedule of employment at Hughes:
 FULL TIME—from June, 1953 to Sept., 1953.
 HALF TIME—from Sept., 1953 to June, 1954.
 FULL TIME—from June, 1954 to Sept., 1954.
 HALF TIME—from Sept., 1954 to June, 1955.
 Recipients will earn five-eighths of a normal salary each year and attend a university half time during regular sessions working on their Master's Degree.

Salaries The salary will be commensurate with the individual's ability and experience, and will reflect the average in the electronics industry. Salary growth will be on the same basis as for full-time members of the engineering staff. In addition, the individuals will be eligible for health, accident, and life insurance benefits, as well as other benefits accruing to full-time members.

Travel and Moving Expenses For those residing outside of the Southern California area, actual travel and moving expenses will be allowed up to ten per cent of the full starting annual salary.

Sponsorship Tuition, admission fee, and required books at either the University of California at Los Angeles or the University of Southern California, covering the required number of units necessary to obtain a Master's Degree, will be provided by Hughes Research and Development Laboratories.

Number of Awards Approximately one hundred Cooperative Awards are made each year, if sufficient qualified candidates present themselves.

Selection of Candidates Candidates will be selected by the Committee for Graduate Study of the Hughes Research and Development Laboratories.

Application Procedure Application forms should be obtained prior to February 15, 1953. Completed applications accompanied by up-to-date grade transcripts must be returned not later than February 28, 1953. Selections will be made during the month of March.

Address correspondence to
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MUSICAL SHORTS

(Continued from Page 5)

by all the principal characters, Tom, Nick, Truelove, Baba without her beard. Each speaks in turn. Anne says that not every rake will be rescued at last by love and beauty. Baba opines that sooner or later all men are found to be mad, and that everything they do is theatre. Tom

warns young men not to be deluded that they are Virgils or Caesars, only to discover that they are nothing but rakes. Truelove agrees. Nick says that day in and day out, as poor Shadow, he not only has to do as he is bidden but is even considered by some as not to exist. The final moral is pronounced; that since Eve and Adam left Paradise the

devil has found mischief for idle hands to do, which applies "to you and you and you."

Although the plot appears to be rather corny in spots, the opera should provide good listening. I'd like to mention the fact that the tickets for the opera ranged in price from \$1.75 to a mere \$20.

CAMPUS BREWINS'

(Continued from Page 5)

not since the investigation of the Klaus Fuch case had he dealt "with criminals of such a high intellectual calibre."

Item 2: Deciding that the extreme student interest warranted such a step, the famous firm of Inglis and Eaton, Ltd., ex-

(Continued on Page 8)

Tennis players

The frosh tennis team is urgently in need of more players. Anyone interested should get out as soon as possible, since the date of the first match is rapidly approaching.

WHAT PRICE KENAUYAKSAIT?

1. For hundreds of years the coast of Baffin Island in Northern Canada has been an Eskimo home and hunting ground. The Baffin Island Eskimos were known throughout the North for their skill as seal hunters and fishermen. They lived on raw seal meat and raw fish. Their existence, while primitive, was a happy one.



2. Eight years ago the Canadian government set up a system of family allowance under which the Baffin Island Eskimos received \$5 a month for each child—as did all other Canadians. These allowances, called "kenauyaksait" by the Eskimos, represented more money than most of them had ever seen at one time.



3. To the Eskimos, their new-found wealth meant they didn't have to hunt seals or catch fish any more. Most of them left their hunting and fishing grounds and moved in close to the trading posts where they received their monthly handouts and could buy the niceties of civilization.



4. The Eskimos' new life was soft and easy—for they had complete *security*. But because they no longer needed to provide for themselves they lost all *vigor* and *ambition*. As a result, the government is now trying to get them to move away from the trading posts and start producing or forfeit their allowances. But this is next to impossible to accomplish. For the Eskimos have grown to *depend* on their *security* so much that they have no desire to return to their former life of *freedom* and *independence*.

5. The important point of the story is this: enslavement by *security* isn't something that happens only to Eskimos. In fact, millions of people all over the world see nothing wrong with a welfare society. But welfare plans are like dope. The doses are small and pleasant at first, but they eventually enslave us. For that reason, we Americans must maintain our *self-reliance*, our *productivity* and our *freedom*. For these things, after all, are responsible for America's greatness.

UNION OIL COMPANY OF CALIFORNIA

INCORPORATED IN CALIFORNIA, OCTOBER 17, 1890

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MANUFACTURERS OF ROYAL TRITON,
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Tech edged by Whittier beats Long Beach State Pasadena Nazarene next

Caltech split two games held during the last weekend, taking one from Long Beach State, 63-50, and dropping the other to Whittier, 58-64. The Conference loss pushed Tech back down to third and virtually assured Whittier of the SCIC championship. The victory over L.B. State gave Tech a winning season, as they have a 11-5 record with only five games to play.

Tech bounces back

Playing firehouse basketball from the opening whistle, the tall Poets gained quite a lead. At one point in the first quarter it was 19-3 in favor of the red-hot Bonham boys. Whittier obviously had their home court psyched out and had a fantastic percentage, whereas Tech had trouble with the Poet home court. The only one who was on was Tyler in the disastrous first quarter, which ended 22-13. As it turned out Whittier needed all of that lead because the Beavers started to really roll. Anson, who had been held effectively by Story and Turner, hit for six straight points. Tyler and Chambers rebounded every shot taken by Whittier. The half ended with the score 30-43.

Third-quarter rally

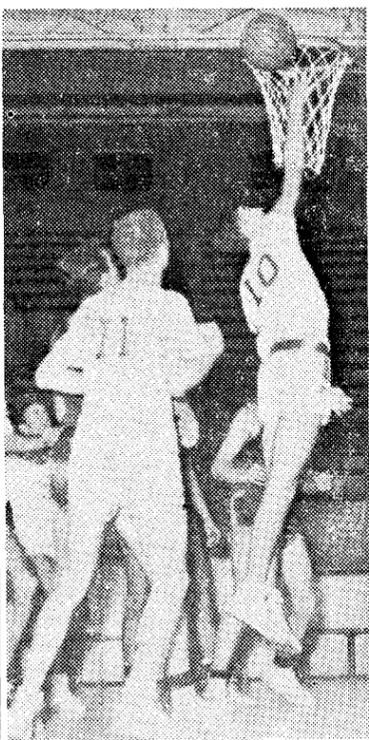
Tech came back with even more energy in the third quarter. Paced by Anson and Stevens, the Orange and White scored 19 points to the Poets' 9. The only bad thing that took place in that quarter was that Chambers fouled out. The final period started in an uproar with the score 49-52. Unfortunately, Tech could not keep up the sustained drive which had the best team in the league worried for three quarters.

Anson fouled

One incident occurred which almost put Tech out permanently. With three minutes to go, Whittier lost the ball and everyone started back for the Tech basket. Fred stumbled at the center line and Johncox, who was right behind, pushed Anson as he was trying to get up. Luckily Fred was not hurt and was awarded a free throw and a technical. However, Whittier had a 5-point lead and went on to win, 58-64.

Stars

Anson broke his Whittier jinx by scoring 27 points and again proving himself to be the best center in the league. Tyler, playing with a charley-horse, still scored 15 and controlled the rebounds. Stevens played a bang-up game and was a cat on defense. Neither Story or Turner



ANSON UP

Fabulous Fred lays up another.

lived up to their advance notices and only Johncox with 21 scored well after the first quarter.

Beach Long Beach

The game with Long Beach was a sloppy game with all the sloppiness reserved for LB. The second string played most of the game. Tech held the lead all the way through, the score being 22-15 at the half, 50-31 at the third and the final score 63-50. Anson scored 18, Britt 9, and Madsen 8. Bill "Hard Luck" Chambers fouled out in the third quarter.

One of the big reasons for the loss was, in the opinion of some, the way the officials missed many travelling penalties.

Pomona Friday Tech favored

One of the real rough games for Tech comes Tuesday when they take on Pasadena Nazarene at the Armory. The high-riding Nazarenes are rated among the top ten small colleges in the country and have won their last 26 games. They are paced by those great scorers, Hopkins and Davis, who are usually good for 55 points between them. Tech was beaten in their gym earlier, 98-65.

Beat Pomona

Pomona will try to stop Tech Friday at PCC. We are rated a solid favorite over a team that averages 5 ft. 10 in. to Tech's 6 ft. 2 in. The Sagehens were beaten by the Shymen last time out, 62-52.



Tidbits by Turcotte

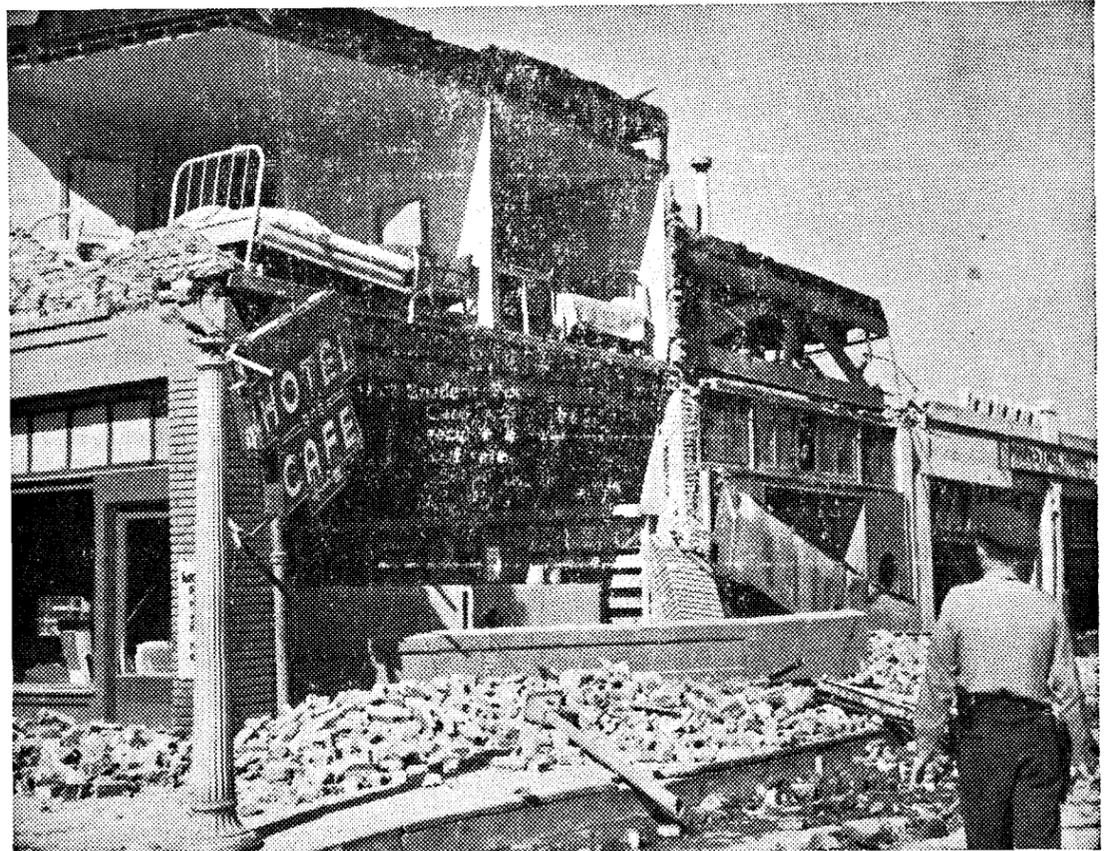
The ROTC program has made participation in our athletic programs, both intercollegiate and interhouse, more difficult than ever. Besides the additional classes the incentive of compulsory PE has been removed. Many students ask why they should come out for a sport when they could be raising their all-important GPA by studying. If you don't think athletics are hard on grades just ask anyone out for football or track how hard it is to study after a hard workout.

There is a solution to this
(Continued on Page 8)

Swimming starts Interhouse trials March third

Next Monday, February 16, the PCC pool will again be available from 4:45 to 6:00 for Caltech intercollegiate and interhouse swimming teams.

Unfortunately, the football bleachers and the locker room under them were condemned; so there are no locker or shower facilities at PCC available to Tech men. If you're planning to go up, change clothes here first. Also, if you're driving, don't park your car in the parking lot south of the football bleachers,
(Continued on Page 8)



Street scene in Tehachapi after last July's earthquake.

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This was at 4:50 A.M.

By 8:30 A.M. telephones were set up on the edge of town for use by the Red Cross and other emergency workers.

By late afternoon, the telephone switchboard was working. Tehachapi residents were able to contact friends and relatives concerned about their safety.

By 9 P.M. two TV stations were sending live telecasts of the damage. Telephone men had established a radio-relay system in less than 12 hours.

It was a typical disaster—brutal and unannounced. But telephone men were prepared. They quickly restored communication when it was needed most. They demonstrated the resourcefulness and technical skill typical of telephone people.

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CAMPUS BREWINS

(Continued from Page 6)

hibited their latest experimental model, with the milk of the wind-tunnel still wet on its propeller. Obtaining a tricycle tractor and a little wagon trailer from a party who had best remain nameless, since Ike does not wish to be involved, they mounted their sleek beauty upon the vehicle and pedalled it to the display grounds. Pressure from jealous competitors caused the displayed to be moved to Ricketts Lounge. In the words of a small Colonel, "The old man (Uncle Sam) doesn't like to have his whiskers pulled."

A woman is only a woman

With all the pomp and circumstance fitting the occasion of the announcement of the entry

of two Ricketts men into the anteroom of the Elysian fields of connubial bliss, the engagement of Doug Inglis and Phil Bates to Alexis Mellor and Myrna Mademann, respectively, was disclosed at dinner Monday.

But a good cigar

In keeping with the reverence of the occasion, the angel Gabriel in the person of a diapered Ash Brown silenced the multitude with a few hot licks, followed by a cherubic if somewhat unshaven Bob Easton, who sprinkled rose petals upon the carpet which had been laid for the occasion, while puffing upon a heavenly stogie. Jack Walker followed, bearing incense to drive off Blacker men and other evil spirits.

Is a smoke

Then came the noblest Ro-

TIDBITS

(Continued from Page 7)

problem: give some scholastic credit for participation in athletics. Students who work on the newspaper get additional credit from journalism, usually a "B." Students who go out for the debate team get additional scholastic credit, also usually an "A." If one unit of "A" was given for each twelve workouts, with a maximum of four a week for intercollegiate and three a week for interhouse sports, the present unequal conditions would be equalized and additional incentive for sports would be given.

mans of them all, betogad Gardner and McCormick, who proceeded to make announcements and appropriate sacrifices to Ball Pall.

SWIMMING STARTS

(Continued from Page 7)

because this is the PCC coaches' private lot.

Since all swimming and water polo lettermen are ineligible for Interhouse swimming, there isn't too much competition. If you can swim at all, you can probably swim Interhouse. The trials are March 3 and the finals March 5.

The first Varsity meet is with ELAJC on March 6. The Saturday before finals the Varsity and Frosh teams travel to Red-

lands for the Conference Relays. Next term the team will meet all the conference teams plus Compton and Fullerton in dual meets. The team will again be coached by Don Garman.



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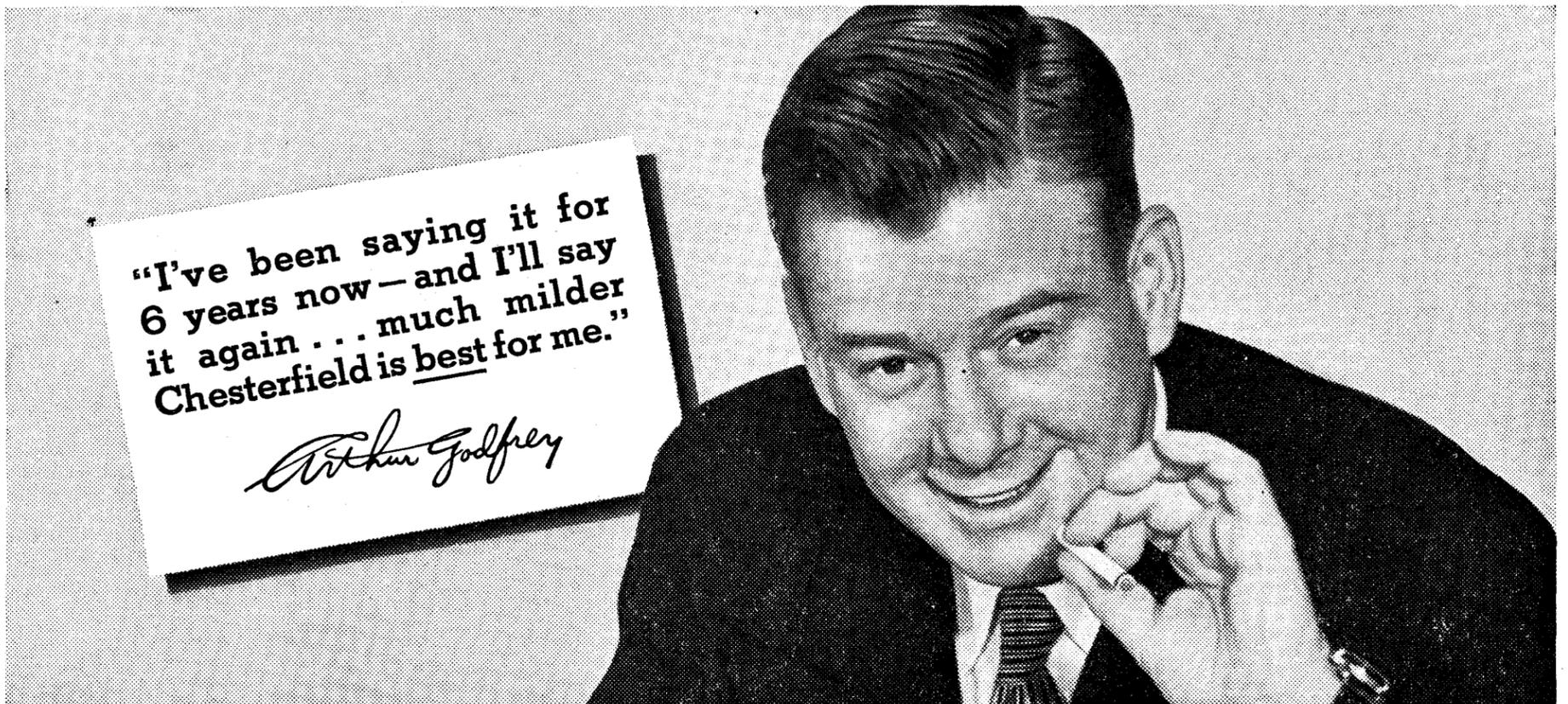
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