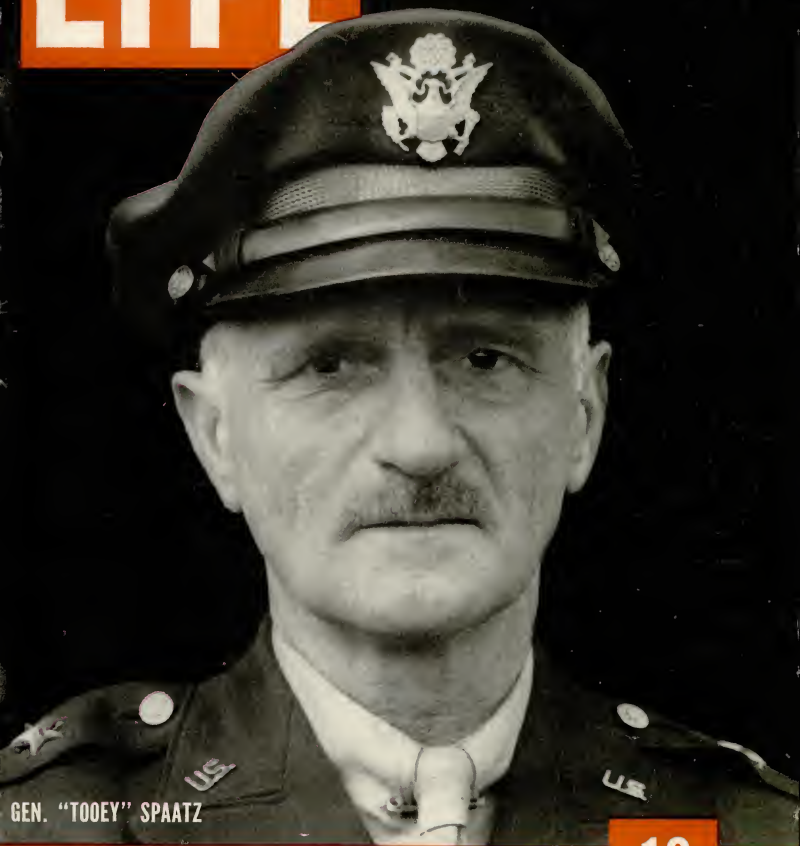


LIFE



GEN. "TOOEY" SPAATZ

MAY 29, 1944 **10** CENTS
YEARLY SUBSCRIPTION \$4.50



ETHYL
IS A TRADE MARK NAME

► It would take a train of tank-cars 1500 miles long to carry the high-octane gasoline used by the Army Air Forces in the first two years of the war . . . and the requirements from now until victory will be even greater.

This gasoline, too, must be the very best. For example, military specifications call for extremely high antiknock quality. That's why oil companies use Ethyl fluid to improve nearly every gallon of fighting gasoline—aviation and motor.

The American petroleum industry is doing a magnificent job of meeting the ever-mounting requirements of our own Army and Navy, the British, the Russians and the Chinese.

To help oil companies meet these war-time needs, government agencies have placed limits on the quantity and quality of gasoline for civilian use. You can help by sharing your car as often as possible.

ETHYL CORPORATION, Chrysler Building, New York City

Quiet Please—
 A Young Man is deep in Thought.
 An Eager Mind is Growing,
 A Character is Taking Shape.



And we see him a Man whose Wisdom and Understanding show in his Smile—a Smile that owes much to Ipana and Massage!

HERE IS AMERICA! Here is the future of our country! For in this small boy, and in millions of youngsters like him, lies the promise of fulfillment of all our hopes, our plans, our dreams!

Thoughtful teachers and devoted parents have given America's children every advantage of health and education—have prepared them to face their future—strong and happy and smiling.

Yes, smiling! For even their smiles have the best of care. Today, in classrooms all over the land, youngsters are being taught a lesson many parents have yet to learn—the importance of firm, healthy gums to bright teeth and sparkling smiles.

These young Americans know that today's soft foods rob our gums of work and stimulation. They

know why gums tend to become soft, tender... often signal their sensitiveness with a warning tinge of "pink" on the tooth brush!

Never Ignore "Pink Tooth Brush"

If you notice a tinge of "pink" on your tooth brush... see your dentist right away. He may simply say your gums have become tender because of today's soft foods. And, like many modern dentists, he may very likely suggest "the helpful stimulation of Ipana and massage."

Ipana is designed not only to clean teeth thoroughly but, with massage, to aid the health of the gums as well. Massage a little Ipana onto your gums when you brush your teeth. Circulation

quicken in the gums—helps them to healthier firmness. Adopt the sensible, modern dental health routine of Ipana and massage—for firmer gums, brighter teeth, a sparkling smile!



Ipana Tooth Paste

Product of Bristol-Myers

THIS GOOD
WHEN BETTER AUTOMOBILES ARE BUILT
BUICK WILL BUILD THEM

HE SAID: "WE THANK ALL YOU FOLKS FOR DOING A SWELL JOB"

The Army doesn't endorse any product. Neither may any of its personnel.

But here at Buick we get letters from people who've learned that Buick powers the Liberator.

And there's one that holds a special place with us because of what shines through its direct and homely phrasing. It reads, in essence:

"This bomber I was in had Buick's bomber engines. Well we got shot up bad . . . Our engines were shot up bad too . . . They held out just long enough to get us back to our base.

"We 8 of that bomber thank all you folks for doing a good job on them engines. We can't lose with folks like you all that are making them engines."

No heroics. No colorful writing about bursting flak, riddled wings, vicious enemy attack.

Just faith. Good, solid American trust in every word!

What honest American can fail to put his best into any task, big or little, with faith like that riding on what he does?

Buick powers the Liberator. And as long as we do, we'll do the best job we've ever done on anything.



BUICK POWERS THE LIBERATOR*



The Army-Navy "E" proudly flies over Buick plants.

BUICK DIVISION OF GENERAL MOTORS

Every Sunday Afternoon—GENERAL MOTORS SYMPHONY OF THE AIR—NBC Network

**As of May 15, 1944, Buick has built more than 45,000 Pratt & Whitney aircraft engines.*

YOU LEND A HAND

WHEN YOU LEND YOUR DOLLARS

INVEST IN MORE WAR BONDS



I SEE YOU'VE HAD BUSINESS REVERSES
PRO-PHY-LAC-TIC
 NO LONGER BUYS YOUR BRISTLE!



For years only hog bristle made fine tooth brushes. Then Science made round-end **PROLON**



Far and away the best of the new synthetic tooth brush bristles, being marketed under various trade names, are those made by duPont. "Prolon" is our trade name for the very finest grade of this duPont synthetic bristle.

PROLON—no finer bristle made
 So, when you read or hear competitive tooth brush claims, ask yourself this: *How can the same duPont bristle, in another brush under another name, last longer or clean better than under the name "Prolon" in a Pro-phy-lac-tic Tooth Brush?* You know the answer... it can't!

Only PROLON has "round ends"
 Pro-phy-lac-tic's big plus is that Prolon is the only synthetic bristle that is rounded at the ends.

It's a fact! Under a special patented process, exclusive with Pro-phy-lac-tic, we smooth and round the end of each, and every Prolon bristle in the Bonded Pro-phy-lac-tic Tooth Brush. See for yourself how much gentler these round ends are on tender gums!

And with PROLON these other "extras"
 In addition to Round-End Prolon, the Bonded Pro-phy-lac-tic Tooth Brush gives you these three important "extras": 1. The famous Pro-phy-lac-tic end tuft, for ease in reaching hard-to-get-at back teeth. 2. Scientific grouping of bristles to permit thorough cleansing of brush after using. 3. A written guarantee for six full months of use.

Next time, get the most for your money... get the Bonded Pro-phy-lac-tic Tooth Brush.

PRO-PHY-LAC-TIC BRUSH CO., Florence, Mass.



Attention! Users of Smaller Brushes

Bonded Pro-phy-lac-tic 2-ROW PROFESSIONAL has Round-End Prolon plus extra agility of professional-type compact brush head, only one inch long.

Same price... same package, marked with yellow band.

LETTERS TO THE EDITORS

EUROPE'S CHILDREN ARE HUNGRY

Sirs:

May I congratulate you on the excellent article "Europe's Children Are Hungry" by Dorothy Dunbar Bromley (LIFE, May 8). This is a timely emphasis on a tragic mistake which our country is making. We are very grateful to you for the article.

HOWARD E. KERNSHER
Chairman

Temporary Council on
Food for Europe's Children
New York, N.Y.

Sirs:

We deeply appreciate your article "Europe's Children Are Hungry" which brings to a nationwide public facts that have long concerned and hardened us. Since the war began in 1939, we have watched the deepening of malnutrition and its effect on children, especially in France. The American Friends Service Committee anticipated the complete occupation of France and established a French corporation, *Secours Quaker*, which continues to administer relief initially made possible by American support. Throughout our negotiations in Washington and London there has never been any serious questioning of the integrity of our administration or foodstuffs in occupied Europe, nor is there any reason to doubt that relief supplies properly supervised will not reach the children and other civilians for whom the supplies are intended.

JOHN F. RICH
Associate Secretary
American Friends Service Committee
Philadelphia, Pa.

Sirs:

Mrs. Bromley mentions the Greek relief program as a "shining proof of what can be done without benefit to the Germans."

It is no exaggeration to say that this program has saved the Greek people from extinction. Since the first shipments were made from Turkey in 1941, more than 1,000,000 people of the Aegean area, and between two and four million Greeks outside the capital have received daily rations of bread and semi-monthly distributions of dried vegetables and other foodstuffs. Many of the people would long since have died of starvation if the relief scheme had not been in operation, and official testimony to its success is offered by the fact that the blockade authorities in Washington and London have never agreed to a greatly augmented program.

MARGARET THOMPSON
Greek War Relief Association, Inc.
New York, N.Y.

Sirs:

Mrs. Bromley's arguments are powerful. But if, as she quotes von Rundstedt at the beginning, the German aim is to dominate captive Europe by starvation, especially by child starvation, then how is it that the Nazis will have so objection to our feeding these same children? If starvation is a powerful military weapon, then it is absurd to suppose the Germans will permit neutrals or anybody else to immobilize this weapon in the name of the humanity which they scorn.

DAVID O. WOODBURY
Brookville, N.Y.

Sirs:

The Nazi practice of starving occupied countries should arouse such burning indignation that we more ardently push our war effort to the utter and quick defeat of the Axis. Then only will we offer food and hope for the future. Anything else is fantasy and hypocrisy.

NEW YORK, N.Y. MARY HUNTER

(continued on p. 6)

DON'T JUST COVER
THE DIRT...

CLEAN THE SHOES!



— Says attractive American Airlines
Stewardess, Miss Margaret Prokaska.

● Stewardessing for the largest airline in the country is exciting, but very demanding, too. Every detail of grooming is important. In the summer, the stewardesses depend on Shinola White to keep their white shoes sparkling.

Here's the Trick: First remove surface dirt. Second, go over the soiled spots with a little Shinola White. Then you're ready to go over the whole shoe. Not covering the dirt, but cleaning the shoes, that's the Shinola White way.

Why Shinola Is Tops: It's safe for all types of white shoes, because Shinola White contains no harsh alkalis which shrink and crack leather. The whitest white pigment available, plus special selected oils, makes a truly superior product... Shinola White, the liquid that cleans as it whitens.

Shinola White removes surface stains beautifully, but it covers no cleaner will remove penetrating stains of ink, dye, etc.



10¢

In the Big Blue and White Package

B.F.



Rubber tree's rival stretches 41,688 miles

THEY WERE OUT to see if men could do the rubber tree's job. B. F. Goodrich engineers built thousands of tires, back in 1940, in which over half the rubber was synthetic. These were the first tires containing synthetic rubber ever sold to American car owners, the only ones made and sold before the war.

How would this man-made rubber do? B. F. Goodrich engineers had tested it, but could do nothing but wait for actual experience on hundreds of cars.

Among those that bought the tires was a New Jersey bus line. They put one tire on the traffic manager's passenger

That seemed a long way to go to get "No" for an answer

car. He had to cover the bus route three times daily. At 37,000 miles, there seemed to be plenty of tread left. But to be safe he drove down to ask a B. F. Goodrich recapping expert if it needed a new tread. "No," said the recapper, "it still has more rubber on it than I can add."

This tire was still running when this picture was taken at 41,688 miles. So are many others. Altogether, they have totaled over 80,000,000 miles.

Such records aren't made without good care and careful driving—the kind of care still needed to save the rubber on America's cars and trucks. Today's tires for passenger cars are all synthetic (about 98%). But, backed by this extra experience, those made by B. F. Goodrich will nearly equal the service of pre-war tires. Truck tires aren't yet this good, particularly in intercity service with overloads, but are improving day by day.

If you can buy tires today and if you buy B. F. Goodrich, you get tires backed by years of experience with synthetic rubber—tires backed by this 80,000,000-mile road test. The B. F. Goodrich Co., Akron, Ohio.

In war or peace
B.F. Goodrich
FIRST IN RUBBER





Three people went to the movies and this is what they saw



WHAT'S PLAYING? Betty's not quite sure. Betty's never sure of what she sees. That's why Betty doesn't like the movie, or meeting people, or going out. Besides, she suffers from headaches and doesn't know why.



DOUBLE FEATURE—These days, you're asking your eyes to do a double job. They may need extra help. Some eyes tire easily under the added burden of brighter lights, longer hours, more intensive use.



HAPPY ENDING—There's one way to be sure your eyes are right, like Mary's. Have them examined regularly. Even if you wear glasses now, your eyes may have changed, may feel more comfortable with a new prescription.

Too tired for relaxation? Maybe this is why—

Hours spent in watching the movies are no relaxation for your eyes. It may mean extra strain on them... especially if they are sensitive to glare.

And when your eyes are tired, you're tired, too.

Examination may reveal that your eyes would benefit from Soft-Lite Lenses, which scientifically filter glare. They are made by Bausch & Lomb solely for the Soft-Lite Lens Company. Prescribed for you, Soft-Lite Lenses are ground to prescription to give you more restful vision under all conditions.

Prescribed to make seeing more comfortable by absorbing over-brightness. Slightly flesh-toned, less conspicuous, better looking.

Soft-Lite Lenses

SOFT-LITE LENS COMPANY, INC.
NEW YORK • TORONTO • LONDON

There is only one Soft-Lite—identified by this certificate

If there is delay in filling your prescription for Soft-Lite Lenses, please be patient. Skilled optical craftsmen who make and grind them are busy on our work too.

LETTERS TO THE EDITORS

CONTINUED

25 WEDDING ANNIVERSARIES

Sirs:

I was a bridesmaid at the wedding of Kathryn and Hugh Murrell (speaking of Pictures, LIFE May 8). My dress was pink satin, with long tassels hanging from each sleeve. The hat was pink



MURRELL BRIDESMAID

moiré braid, and long wide pink velvet streamers hung down my back. My dress was beautiful, but since I never cared for evening clothes I traded it with my sister for a navy blue tailored coat suit. To this day I have never owned another evening dress.

MRS. S. D. JACKSON

Johnson City, Tenn.

MARK TWAIN

Sirs:

As one of the trustees of the estate of Samuel L. Clemens (Mark Twain) and as president of the Mark Twain Company, I wish to express to you my appreciation for the excellent article about Mark Twain in your issue of May 8.

In my opinion, you have once again rendered an important public service by publishing this article at this time. Twain was a great American and his life was devoted to the perpetuation of the things we are fighting for in this war.

THOMAS G. CHAMBERLAIN
New York, N. Y.

Sirs:

The information contained in your story on Mark Twain (Carolyn Wells "will write mysteries" opens up stormous possibilities. If you know of any place where any of her mysteries written since March 1942 can be bought, I should appreciate your telling me.

WILLIAM J. BUTLER
New York, N. Y.

● Any mysteries written by Miss Wells since 1942 would be collectors' items. Miss Carolyn Wells died on March 26, 1942 in New York.—ED.

Sirs:

As Miss Repplier's biographer, may I point out that it was her 89th birthday which she celebrated last April 1, she most confesses to having "knocked down" on her age some years ago.

GEORGE STEWART STOKES
Allentown, Pa.

Sirs:

The lady seated at Mark Twain's left at the banquet for his 70th birthday was Kate Douglas Wiggin. She may have appended the Riggs name later, but not when she wrote *Rebecca of Sunnybrook Farm*.

GEORGE M. McBEAN
Chicago, Ill.

● Mrs. Kate Douglas Wiggin married George Riggs in 1885, six years after

(continued on p. 8)



once again
you can get

IMRA

the odorless, painless,
cosmetic depilatory

Once again IMRA[®] is available to smart women. Here is the sweet way to keep your arms, legs and underarms smooth and completely feminine—free of unwanted hair. Odorless, painless IMRA creams hair off in just a few minutes. No razor nicks, no ugly razor bristle. Just smooth it on. Later rinse it off. Get IMRA today... the exquisite cosmetic way to defuzz. Large 4½ oz. tube \$1.00 plus Federal Tax.

At fine department
and drug stores

Reg. U. S. Pat. Off.
U. S. Pat. Pending



1½ plus Fed. Tax

ARTRA COSMETICS, INC.
Bloomfield, N. J.



IT MUSTN'T bite the hand that throws it



THIS IS A HAND GRENADE. When you pull the firing pin and release the lever you have only the length of time it takes the fuse to burn down to get rid of it or get away from there—and that's only a handful of seconds!

If you made hand grenades, or used them, you'd want to be mighty sure about those fuses.

You can be. The fuse of this grenade, and thousands of others just like it, was individually X-rayed while passing down a production line at the rate of 4000 an hour. When a bad fuse showed up, something equivalent to

the signal for a four-alarm fire took place. A bell rang, a red light flashed, the bad fuse was automatically daubed with red paint, and finally, to make assurance doubly sure that the bad fuse didn't slip through, it was recorded on the chart of a photoelectric meter.

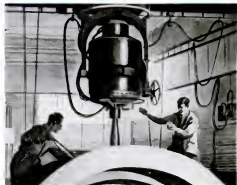
From sorting oranges for California fruit growers to sorting hand grenades is quite a step—but it is typical of the new wartime jobs G-E scientists and engineers have put X rays to work on. It is also typical of the application of G.E.'s peacetime research and engineering to war.

Nearly twenty years ago Dr. William D. Coolidge, now G-E vice-president and Director of the Research Laboratory, developed the Coolidge X-ray tube—one of the most important developments of all time in science and medicine. In the years that followed, he and other scientists and engineers worked steadily to improve this almost magical tool of research and healing.

Then came the war, and the X ray in its latest and most powerful form became almost

overnight a vital tool of war production, testing for hidden flaws no human eyes could reveal the metals on which the strength and endurance of our arms depend.

Which makes the X ray another good example of the way G-E research and engineering work to meet America's needs—constantly, in unexpected ways—in war and peace. *General Electric Company, Schenectady, N. Y.*



The G-E million-volt X ray cuts from hours to minutes the time required to examine metal parts—from airplane crankshafts to turbine shells.

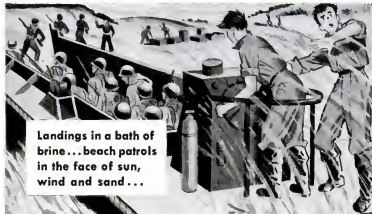
Hear the General Electric radio programs: "The G-E All-girl Orchestra" Sunday 10 p.m. EWT, NBC—"The World Today" news, every weekday 6:45 p.m. EWT, CBS.

GENERAL  **ELECTRIC**

999-9010-011



How Coast Guard he-men sink the Dry Scalp demon!



Landings in a bath of brine... beach patrols in the face of sun, wind and sand...



... lead straight to Dry Scalp and hair stiff-as-a-board!

but...5 drops a day keeps DRY SCALP away

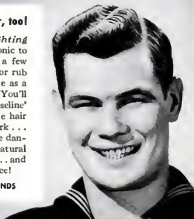
... MAKES 'VASELINE' HAIR TONIC FIRST WITH SERVICE MEN IN AMERICA!



Gives you good-looking hair, too!

Discover for yourself why fighting men prefer 'Vaseline' Hair Tonic to any other brand. Just comb a few drops through your hair... or rub directly on the scalp. Then use as a massage before shampooing. You'll soon see a difference! For 'Vaseline' Hair Tonic not only keeps the hair well-groomed from dawn to dark... but checks Dry Scalp and loose dandruff by supplementing the natural scalp oils. Buy a bottle, today... and give your hair a fighting chance!

DIG DOWN DEEP FOR WAR BONDS



Vaseline HAIR TONIC

REG. U. S. PAT. OFF.

40¢ and 70¢

LETTERS TO THE EDITORS

CONTINUED

the death of her first husband. She continued to use *Wiggin* as a pen name and *Rebecca of Sunnybrook Farm* was published under that name in 1903. —ED.

AMERICAN DESIGNERS

Sirs:

Your article on American designers (*LIFE*, May 8) was quite interesting but not very helpful. You surely realize that the average American woman is not over 5 ft. 3 in. and along about her 30's or 40's becomes quite plump. These designers all create for types like Lynn Davis, young and pretty cover girl. But what do they create for the 36-in. bust and the 40-in. hip?

Why don't they pick on a problem person like myself, narrow shoulders, short-waisted and a too-large hip measure and see what glamor they can achieve?

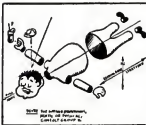
MRS. R. de ROSALES
Los Angeles, Calif.

"EXPLODED" CORSAIR

Sirs:

We were very interested in your story on Corsair production (*LIFE*, May 8) depicting our use of "exploded" sketches.

While most of our work here at the Chance Vought plant deals with making graphic illustrations of plane parts,



EXPLODED ENGINEER

we sometimes find time to dream up a take-off on our business. Here-with is an "exploded" conception of Daas Todd, head of the Production Illustration department, who supervised us in making up the drawings used in your story.

RAY QUIGLEY
O. WILLIAM PATTEN
HOWARD W. FIELD
WALT DEWITT JR.
CASTY PALMIERE
E. AMENDOLA
CLIFFORD JONES
Stratford, Conn.

Sirs:

The story on the "exploded" Corsair is particularly interesting to me as I have devoted much of my time the last few years to the development of indu-



HOW TO RELAX

When you change to sport clothes your entire outlook on life changes. Your nerves relax and your mind is relieved of strain.

I know you are working hard doing your bit to help win the War. But to get a real kick out of your work requires fitness of body and mind and you cannot be fit without exercise and relaxation. Use your spare leisure time to relieve mental tension and to build physical resistance.

Can you picture yourself slipping into this Buck Skin leisure coat and not feeling as free as the wind? Try it. It works.

Your Buck Skin Joe Jacket is 100% wool. That means springy, elastic resiliency. Resiliency in wool, as in human nature, means a life that laughs at wrinkles.

The front of the coat is a soft herringbone design while the sleeves and back are a rich deep solid brown color, in harmonious contrast. This loafer coat is tailored like your suit. The inside foundation shapes the coat and holds its shape, and the shoulders are padded to give that square athletic look. The body and sleeves are lined with rayon as iridescent as the shimmering colors in a soap bubble. Big roomy pockets and real leather buttons.

GO TO YOUR DEALER... where you will find many styles in Buck Skin flannel shirts, wool coats, etc. If you cannot locate a Buck Skin dealer, use my coupon.

As ever,

Buck Skin Joe

Buck Skin Joe
c/o Lumber, Nair & Co., Inc., Makers
212 Fifth Ave., Dept. L-5, New York 10, N. Y.
Please send the Buck Skin Leisure Coat C.O.D. at \$19.50 or as checked below.
Your choice of three soft shades
Tan Blue Grey Check also
Here's my check or money order for \$19.50
Where can I see the "relaxing" Buck Skin?

Name _____
Address _____

100% WOOL



TRADE MARK

EXPLODED SHOE

trial visual aids. They are applied in many industries and have many uses. The attached illustration is an example as applied to the manufacture of shoes.

EUGENE J. KORDA
Dobbs Ferry, N. Y.

(continued on p. 11)



"Swifter than a race horse it flew over the icy streets!"

MANY a mustache cup was put down with a clatter. Many a housewife on this wintry Sunday morning in 1900 began to dream of a new family carriage—without a horse!

There on the front page of the newspaper was the thrilling story. Henry Ford had given a reporter a ride in the first Detroit-huilt automobile—an experimental model. It had been an inspiring experience.

A speed of 25 miles an hour had been attained. The reporter nearly leapt overboard in fright, but had kept his perch over the 3-gallon gas tank.

He was now able to record ecstatically that the "big machine rode with dreamlike smoothness" despite the ruts . . . that it "stopped within six

feet" and was off again "like a frightened ghost".

Mr. Ford had proved himself "an expert in cutting circles and other fancy figures". He turned sharp curves "with the grace and ease of a wild bird". Even a milk wagon and a loaded dray had been encountered without mishap!

From these early days, the name Ford has never ceased to be news.

The reason lies in the basic Ford principle: *build a sturdy, simple car priced within the reach of the greatest number.*

When production was stopped on the 1942 models, more than 30,000,000 Ford-huilt cars and trucks had taken to the road. Millions

of them are still serving America's vital needs.

Much of the present news of Ford is "restricted", for it has to do with the mass production of giant aircraft and other tools of victory.

But there will come a day when Ford news will again feature civilian models. You may be sure they will reflect all the ingenuity and precision engineering which are traditional with Ford. They will benefit, too, by the newer knowledge of materials and fabrication methods.

Yes, the Ford cars of the future may even challenge the descriptive powers of that forgotten reporter who, at the turn of the century, rolled along the streets of Detroit "swifter than a race horse".

FORD MOTOR COMPANY

Spring for Sale



Grocers offer you a flavor bargain in tender, young vegetables and **MORTON'S Salt**

Step right this way, folks—now, who else wants some of Mother Nature's great Spring Tonic! It's good for everything that ails your winter-weary appetites.

And you get this wonderful elixir in every bite of these sweet baby onions, and these snappy, dew-drenched radishes.

Get 'em while they're fresh! And, of course, the only salt good enough for such

young, tender things is Morton's Salt—you know, that cool, pure-white salt that makes flavor fairly roll around your tongue.

Right now, your grocer is displaying Morton's Salt (you know—famous blue package!) with his Spring vegetables. So, hurry! hurry! and put plenty of *this* Spring into your daily diet. And remember—

Be sure you get Morton's Salt!



When it rains it pours

PLAY SAFE!

COOL-RAY SUN GLASSES
KEEP YOUR EYES IN THE

"SAFETY
ZONE!"

SUMMER OR WINTER SUNLIGHT
may be hard on your eyes, for some sun
glasses—regardless of how "dark they are"
—admit annoying and harmful rays.

Here's what
happens when
Sun Glasses
provide no
Zone of Safety



BUT COOL-RAY SUN GLASSES—made
by American Optical®—provide the eyes with a
"Safety Zone." For these A.O. glasses have
lenses made from specially compounded
glass that absorbs ultra-violet (sunburn) and
infra-red (heat) rays and excessive light.
The "Safety Zone" of Cool-Ray Sun Glasses
keeps your eyes cool and comfortable.

Here's how
Cool-Ray
Sun Glasses
provide the
"Safety Zone"



A. O. COOL-RAY SUN GLASSES
do something else. They admit plenty of
"seeing" rays—light that lets you see more
comfortably and without annoyance.
A. O. Cool-Ray Sun Glasses are being
supplied to our armed forces—so the civil-
ian supply is limited. They're \$1.95 up.



COOL-RAY
SUN GLASSES
Provide "The Safety Zone"

American Optical
COMPANY
*World's largest maker of ophthalmic products
BUY U.S. WAR BONDS AND STAMPS

PEERS TO THE EDITORS

CONTINUED

GENERAL MACARTHUR

Sir:

In your story on General MacArthur (*LIFE*, May 8) you make the statement: "Orders of the Garter, Thistle and St. Patrick . . . go only to those of royal blood."

Those three orders are not restricted to those of the blood royal. At present the proportion is as follows: Most Noble Order of the Garter: 34 Knights (not including the King) of which 10 are of the blood royal, the remainder being peers (Lord Halifax, British ambassador to the U.S. is included among these).

Most Ancient and Most Noble Order of the Thistle: 18 Knights (not including the King) of which only 2 are of the blood royal, 12 being peers, 3 baronets, and one untitled.

Most Illustrious Order of St. Patrick: 9 knights (not including the King) of which only 2 are of the blood royal, the other 7 being peers.

In the case of the Order of the Thistle it will be noted that some of the knights are not even peers. A notable example of the creation of a Knight of the Garter who was not a peer is that of Sir Edward Grey. He was created a Knight of the Garter in 1912, four years before his elevation to the peerage. Another celebrity was Field Marshal Sir Douglas Haig who was created a Knight of the Thistle in 1917. He was not elevated to the peerage until 1919.

I could go on with many other examples to disprove your statement.

D. R. OVERALL—HATSWELL
Beverly Hills, Calif.

. . . Dierwilt, Lord Beaconsfield, was a Knight of the Garter. So was the late Sir James Chamberlain, one of several living examples is Earl Baldwin of Bewley, who is a K.G.

DUKIN JOHNSTON
Quebec, Canada

Sir:

Add to the examples of General MacArthur's "dramatic vocabulary" given by Noel Busch: Liaison work between the French and the 69th New York took me into the Château de la Fère during the first day of the Hainbow's assault upon the German positions beyond the Oureq River. The Château was about a mile behind the vague front lines. It was being used as Irigade Headquarters and was being heavily shelled. In its cellar was a Signal Corps telephone switchboard, at which General MacArthur was talking when I ducked in.

I caught only the last part of his conversation. He was ordering the light pieces of artillery to be advanced with the first waves of the infantry attack. I remember exactly his closing words: "I want the 75's to be used with the utmost dash."

"Utmost dash." The words seem to fit nicely into his character.

LEMINIST ESLER
Tuckahoe, N.Y.

Time, *LIFE*, *Fortune* and the *Architectural Forum* have been cooperating with the War Production Board ever since Jan., 1943, on the conservation of paper. During the year 1944 these four publications of the Time group are budgeted to use 73,000,000 pounds (1450 freight carloads) less paper than in 1942. In view of re-selling shortages of copies, please share your copies of *LIFE* with your friends.



Science says you'll sleep better under Purreys

Extra weight in a blanket doesn't keep you warm . . . it just tires you out. Science has discovered a new way to make warmer and lighter blankets—Purrey's patented combination of 88% Rayon and 12% Wool. You'll find Purrey Blankets in every good store. Buy your blankets the modern way . . . on the basis of how well they'll keep you warm. Better still, *Buy War Bonds now* and later get Purrey blankets with their ever popular better-sleep companions, Indian Maiden *Combed* Percale sheets.



Purrey has more and better Nap Traps.

It's Not the Fibres
But the Nap Traps in a Blanket
that Keep You Warm

Nap Traps are the millions of minute pockets in a Purrey which catch and hold the warm air. This trapped air is the insulation that's important. Also Purrey's lustrous rayon reflects warmth back to you.

Purrey fibres stay young and springy. Radiantly colored Purrey blankets are cloud light, soft as down. Purreys are easy to clean and stay clean longer—guaranteed 5 years against most damage.

Nashua Mfg. Co., 40 Worth St., New York 13, N.Y.

Send for Free booklet telling how more and better nap traps make Purrey warmer.

PURREY
by Nashua
\$6.45 SIZE 42 1/2 x 72 1/2 FT.

Regular 72x84 size \$5.95.
8000 double bed covering \$7.45.
All prices slightly higher in West.

Though some stores may have a few 90" lengths, Government regulations permit manufacture, since May 11, 1943, of only the 72x84 at \$5.95.

Nashua

INDIAN MAIDEN SHEETS
INDIAN HEAD CLOTH • VIRGIN WOOL BLANKETS • DWIGHT ANCHOR SHEETS

Purrey Blankets, invented at the Nashua Mfg. Co., Nashua, N. H., are protected by U. S. Pat. No. 2,208,533



MANY ELEMENTS HAVE SHAPED GENE KELLY'S DANCING STYLE
THIS LEAP SHOWS THE INFLUENCE OF THE CLASSICAL BALLET

SPEAKING OF PICTURES . . .

. . . GJON MILI PHOTOGRAPHS GENE KELLY'S DANCING

Gjon Mili, who would rather photograph dancing than almost anything else in the world, recently trained his high-speed camera on the nimble feet and lithe body of Metro-Goldwyn-Mayer's brilliant dancing star Gene Kelly. High spot of

Cover Girl, a current Columbia movie, is a dance in which double-exposure photography shows Kelly struggling bitterly with his conscience. The Gjon Mili pictures shown below capture the extraordinary grace and inventiveness of this number.

In his next movie, Universal's *Christmas Holiday*, Kelly will play a straight dramatic role. After that, however, he will put on his dancing pumps once again to do a number with his idol, Fred Astaire, in M-G-M's lavish *Ziegfeld Follies*.



IN "COVER GIRL" SEQUENCE GENE KELLY TRIES TO RUN AWAY FROM HIS CONSCIENCE



LEAPING INTO THE AIR, CONSCIENCE SUDDENLY OVERWHELMS THE COWERING KELLY



KELLY RISES, TRIES TO LEAP AWAY, BUT HIS CONSCIENCE CONTINUES TO PURSUE HIM



THEIR STRUGGLE AT AN END, KELLY AND HIS CONSCIENCE NOW DANCE IN HARMONY

"Wow! that was
a close one!"



Sometimes I wonder about my sister-in-law Ann.

Like just now when I dropped in and caught her about to dump a flock of sheets into the rag bag!

"Hold it!" I squeaked. "Hmm. Just as I thought. *Plenty* of wear left in these—if you'll do a little mending!"

"Oh, dear," Ann said. "I'd planned to buy me a nice closetful of those lovely Cannon Sheets you're always carolling about..."

"Put that dream on your waiting list," I said firmly. "Haven't you heard you're supposed to get along with what you have, unless it's a desperate case? Which yours *isn't*, pet!

"If you'd bought Cannon Sheets in the *first* place," I went on, "and taken care of 'em, you'd be sleeping pretty now!"

"Don't rub it in," begged Ann. "I get green-eyed every time I think of you and the smooth Cannon beauties *you* were smart enough to buy!"

"Let that be a lesson," I grinned. "And while you're lasting out the war with what you've got, you can dream about your Cannons-to-come!"



Cannon Percale Sheets

Cocoon Mills, Inc., New York 13, N. Y.

Made by the Makers of Cocoon Towels and Hosiery



Some duration "Make-do's"—for Ann and You

1. Wash sheets often, and you won't need to beat the dirt out. Go easy on bleaches.
2. Never press directly on the folds.
3. Mend rips and weak spots the minute you find 'em—before washing.
4. Use all your sheets in rotation, so they can rest between times.

Some juicy facts—when you must buy sheets!

1. Soft, sweet-sleeping Cannon Percale Sheets cost just about the same as heavy-duty muslin sheets! And they're woven with 25% more threads than the best-grade muslins!
2. Cannon Percales are wear-wonders... give you years of grand nights' sleep! Yet Cannon Percales are light in weight—easy to handle in washing and bedmaking!
3. Supposing you can't find the size you want in Cannon Percales... then ask to see Cannon's economy *Mustin* Sheets—long-wearing... sturdy... a real value!

P. S. Cannon Towels are something pretty special, too!



For Victory—Buy U. S. War Bonds and Stamps

SPEAKING OF PICTURES

(continued)



The barrel roll which Gene Kelly is doing here shows pronounced gymnastic element in his style. It reflects early dance training in Pittsburgh, where he grew up.



Kelly's present style, which is very versatile, shows influence of ballet and Spanish dancing on early hoofing. Kelly is heir to Fred Astaire's title as movies' top dancer.

PALMOLIVE BRUSHLESS

Guarantees* You a Clean, Comfortable Shave with

NO RAZOR BURN!

YES, EASY-TO-SPREAD
PALMOLIVE BRUSHLESS
SHAVE CREAM

GUARANTEES* YOU
SMOOTH, COOL,
PAINLESS SHAVES
EVERY TIME! OR
YOUR MONEY BACK!



1 Palmolive Brushless spreads evenly—easily. Wilts whiskers like a flash. They come off clean. Leaves your face smooth, cool and comfortable.



2 Palmolive Brushless lubricates your skin so your razor simply glides along, without irritation, scraping or scratching—in other words, without Razor Burn.



3 Throw away your shaving brush and get Palmolive Brushless in the big, money-saving jar. It guarantees a clean, comfortable shave every time.



* YOUR GUARANTEE OF NO RAZOR BURN

Buy Palmolive Brushless. Use it day after day. If you don't agree it gives you a clean, comfortable shave every time—with No Razor Burn—mail the carton top to Palmolive, Jersey City 2, New Jersey, and we will immediately refund your money!



What is the right light for writing?

The right light is the light that provides See-ability. If your child is right handed, light should come from the left side, thus avoiding shadows on the paper. The lamp should be tall enough, and the shade wide enough, to throw a broad spread of light. And for utmost See-ability, use dependable Westinghouse Mazda Lamp bulbs, made bright and long-lasting by persistent Westinghouse research.

SEE-ABILITY FOR YOUR HOME OF TOMORROW



BENEFITING from the many wartime lighting improvements developed by Westinghouse engineers, you'll enjoy higher light levels and better living in your home of tomorrow. You'll have a



new kind of decoration—soft, flattering fluorescent lights, neatly fitted back of the valance. And friendly light for your house number will be a practical help as well as a warm welcome for your guests.

LET'S ALL BACK THE ATTACK . . . KEEP BUYING WAR BONDS!

Westinghouse

MAZDA LAMPS



FOR SEE-ABILITY

Westinghouse Elec. & Mfg. Co., Bloomfield, N. J. Plants in 25 cities . . . offices everywhere.

LIFE'S REPORTS

THESE TAXI TYPES

by WILLIAM W. WHITE

While pleasure-seekers stand in London's coal-black streets blinking their flashlights, forlornly crying "Taxi, taxi," or wait in exasperated queues at night clubs or hotels for harassed doormen to find them a cab, London's chosen few are assured of a taxicab any time of the night—at a price. Thereby hangs the tale of the Beaufort Club.

Into Soho some nine years ago came genial Tommy Long, having reluctantly left behind him an assortment of odd jobs in Australia and England, some 15 years at sea and "a wife in every port." He retained a strange ability to play billiards blindfolded and, in an old stable just off Leicester Square, he founded a recreation club for night workers—caterers, waiters, stagehands and taxi drivers. Since its opening, the club's doors have never been shut.

Because of its modest charges (membership one shilling a year), the club was always popular with taxi drivers. With the advent of the "last war" (1947-48) blitz the club became more and more a taxi-drivers' rendezvous. For months it was virtually the only place in the West End where a cabbie could find companionship—and get a proper cup of tea for twopenny. (Cab drivers are notoriously abstemious while on duty.)

Because it was a mug's game to drive around at night in those days, the cabbies simply congregated at the Beaufort Club and waited for the phone to ring. And as the inexorable laws of supply and demand have given night-time drivers a wartime importance surpassed only by the butcher and the milkman, the cabbie who used to be grateful for 30 shillings profit a night now grumbles when his "take" is under £5 a night.

The cabbies argue it this way: If you want a taxi at night and are willing to pay, we'll take you. If not, why cab riding is not your cup of tea and you can ruddy well find a bus—or walk.

But the cabbie, pirate though he may seem, has a sentimental side. The first chronicled act came to light in the spring of 1941. Dozens of them were at the Beaufort Club one night, deep in a never-ending political argument. In came Billy Bird, known as the cabbie's fighter. (It seems the money they've lost on his innumerable "come-backs" has not weakened their belief in him.) Said Billy, " 'Ere, there's some airforce blokes at Grosvenor 'Ouse wants a ride 'ome. Instead o' sitting there jawin' your 'eads off, why don't you go and take 'em 'ome?' The idea caught fire. Here was a chance to do something concrete for their heroes—the fighter pilots who had just won the battle for Britain. Eighty taxis whizzed or wheezed to Grosvenor House and the Hon. Secretary of the dance was pleased to announce a few moments later, "I say, chaps, here's a wizard offer. Any pilot and his girlfriend will be taken wherever they wish to go, absolutely free of charge, by these taxi types."

That was the beginning of a firm if somewhat alcoholic friendship between Britain's thin blue line and its grizzled groundlings, most of them veterans of a former war. In return for that impromptu gesture, the pilots of the Biggin Hill station—heartbeat of the battle for Britain—invited dozens of the cabbies to the station for a party some weeks later. The cabbies purchased two presents—a grandfather's

CONTINUED ON PAGE 13



DURING THE BLITZ AN EXCITED LADY HAD TO RUN BACK FOR HER FALSE TEETH

"But, mister! you can't blame everything on the little woman!"

PROTESTED ELSIE, THE BORDEN COW



"Now, now, Mister! You know why you can't get all the cheese you'd like—or all the fancy cheese fixin's! . . .

"After all, tons and tons of cheese (lots of it, Borden's) are needed for our fighters and allies.

"But, cheer up! There are still some mighty wonderful Borden's Cheeses at your grocer's—all rationed to assure your family its fair share!

"So, be wise! Spend your points for Borden's Fine Cheeses whenever you can get them! For they are among the most nourishing of all foods—wonderful 'buys' for your points and pennies!"



Still some Borden's Wej-Cut cream cheeses . . . the tastiest, most tantalizing fillings that ever came between slices of bread!

4 exciting flavor varieties . . . 1) WEJ-CUT CREAM CHEESE plain, 2) WEJ-CUT with CHIVES, 3) WEJ-CUT with RELISH, 4) WEJ-CUT with PIMENTO. *Nourishing!* All rich in butterfat—wonderful "stretchers" for your limited butter supplies!

Buy BORDEN'S WEJ-CUTS on regular shopping days. They keep for weeks unopened in your refrigerator, because of their sealed wrappers.



BORDEN'S FINE CHEESES

WONDERFUL "BUYS" FOR YOUR POINTS AND PENNIES



You can still get Borden's Grated American . . . for those wonderful, wonderful macaroni 'n' cheese treats. And, ladsy! *This* grated cheese does things for macaroni no young cheese can! Because BORDEN'S GRATED AMERICAN has the rich, *authentic* tang of ripe, aged cheddar!

And because it's grated so *fine*, it spreads out, blankets every morsel of macaroni with rich cheese goodness. *Try it tonight!*—comes in 2-oz. and 4-oz. cansisters.



Go easy! There's not too much Borden's Military Brand CAMEMBERT! But enough for you to enjoy—and share with your friends—on "special" occasional. And when you sit down to a helping of CAMEMBERT—get your full share of eating joy out of every bite! . . . First take a bite of cracker spread with the rich, mellow-mild cheese . . . Then take a "munch" of crisp, juicy apple. You'll purr with satisfaction that anything can be *that* good!



SEALED IN GLASS FOR EXTRA PROTECTION—This famous toothbrush, the quality leader of the world at 50¢, also comes in the 2-Row "Professional" shape as well as the 2-Row "Oro" design, a shape many dentists recommend.

Beauty's First Lesson ... *the finest toothbrush money can buy!*

With extra care of the teeth, smiles are bound to sparkle brighter and health is better guarded.

First and foremost in any dental care program is the finest toothbrush you can buy. To millions this means the famous Dr. West's Miracle-Tuft Toothbrush—no other.

Your druggist, too, will agree in this opinion. And from his stock of many kinds of toothbrushes he will take

a Miracle-Tuft and explain these distinct advantages: **"EXTON" BRAND BRISTLING**—for longer life, more efficient tooth cleansing.

PATENTED WATERPROOFING—for added protection against the dangers of soggy toothbrush.

DOUBLE CONVEX SHAPE—the original Dr. West's design. A distinct advantage in cleansing inside, outside and in between the teeth.

IT'S GOT THAT
"ZING"

THAT CERTAIN
"THING"

THAT
THRILLING THING
CALLED FLAVOR!

Hot Dan's sandwich is quick, different, delicious! Spread one slice of bread with French's Mustard; the other with peanut butter, and put the 2 slices together. Fine for hearty appetites!

A blend of the finest spices and mustard seed money can buy!

Largest Selling Prepared Mustard in U.S.A. Today



DRINK
Doebitt's



5¢

MADE FROM
Real
ORANGES

LIFE'S REPORTS (continued)

clock for the officers' mess and a cab's steering wheel, suitably festooned with celluloid tags on which the drivers' names were inscribed. After a tour of the airrome they all trooped into the bar. From then on the details are hazy. However, the cabbies missed their last train back to London and had to be carted home in RAF lorries. Six months ago the Biggin Hill boys were back in town being entertained at another dance. One of the pilots remembered his pals and called the Beaufort Club. Up to the hotel, already knee-deep in gold braid and DFC's, came a motley assortment of cabbies. To the astonished doorman who tried to bar their triumphal entry, the spokesman said curtly, "Ere, tell his Lordship the boys from the Beaufort Club 'as arrived." His Lordship, somewhat flabbergasted at the democratic turn of events, soon invited them inside.

The cabbies have two other pet charities—the Red Cross and their own colleagues in the services. They voluntarily contribute two shillings a week to a fund that permits them to present each serviceman with £2 every time he comes to town on leave and send "an occasional fiver" to the wives of men serving overseas. For the Red Cross they've raised £960.15.11 by dances, parties and raffles. And on one occasion they almost drove Vic Oliver, the Prime Minister's son-in-law, to distraction. Vic was auctioneer at one of the raffles and the cabbies, "aving a bit of fun," proceeded to do their bidding in cockney. Oliver was greeted with an opening bid of a "tosharon." Puzzled, he asked for an explanation. He was blandly told that was half a "caser." The bidding went on through a "cow" (cow), an "ounce" (£1), and the prize was won by a driver named Blackie for a "cock and hen" (£10).

American soldiers are a present source of much irritation among the cabbies who drive at night. The police, anxious to see that American soldiers are not gyped, have a habit of looking at the meter as cabs draw up to a serviceman's club and telling the soldiers exactly what to pay. The soldier obeys while the cabbie fumes inwardly—for the policeman forgets to suggest that the driver be given a tip.

Every cabbie has his own bomb story but these two have

YOUR LOVELY YOUTHFULNESS

Don't let it slip
needlessly away

Guard your natural vitality and youth with the help of this special balanced-blend of certain indispensable vitamins every woman must have



She's working harder these days. Her life moves onward at a faster pace than ever. Friends wonder how she does it... rarely a sign of wear and tear or over-wrought nerves, seldom over-weary.

Her secret is easy enough to follow. She lives sensibly and she helps sustain natural resistance, nerves and energy, day after day, with "VITAMINS Plus."

"VITAMINS Plus" is a combination of certain important vitamins precisely balanced and blended, with iron, to help women guard their natural vitality and youthfulness.

Taken each day, "VITAMINS Plus" gives you all these vital elements, in full protective amounts—elements every woman must have to keep up to par. Yet it costs only a few cents a day. Remember, you cannot be and look your best when you lack the certain indispensable vitamins and iron contained in "VITAMINS Plus."

Life Begins with

VITAMINS Plus

First in its Field



CONTINUED ON NEXT PAGE

BUSY?



YOU BET
SHE IS!



—that's why she appreciates this
**NEW QUICK ACTION
DENTIFRICE!**

Listerine Tooth Powder Contains
Special High-Speed Ingredients

RATIONING! Ceiling prices! Coupons to count! Nobody's busier than the girl behind the grocery counter. No wonder she has less time for important little details like brushing her teeth. No wonder she insists on this *quick action* dentifrice!

How about you? Rushed as you are these days with war work, housework, or the demands of business, don't you ever catch yourself skimming on that morning brushing? If you do . . . and you know, yourself, you shouldn't! . . . at least use a dentifrice that does a *real* job every second you are brushing.

Listerine Tooth Powder contains high-speed activating ingredients. It surges into "whirlpool" action . . . polishes until enamel is really *clean!* So thorough! . . . so refreshing! Get a can and *feel* the difference!

LAMBERT PHARMACAL CO., St. Louis, Mo.



LISTERINE TOOTH POWDER

LIFE'S REPORTS (continued)

stood the test of time and are regarded as minor classics. A driver was impatiently waiting outside a building for a frightened woman to make up her mind whether to venture out or stay inside. Finally she got nervously into the cab, but before the door was shut she leaped out and said to the driver. "Oh, you'll have to wait a minute. I've forgotten my false teeth." Whereupon the disgruntled cabbie said tartly, "Blimey, ma'am, wot ya think ole Jerry's droppin' — sandwiches?" On another occasion a driver was opening the door for his passenger to get out when a bomb fell not far away. It blew the cab down the street but left the driver standing with the door still firmly in his grasp. Gently he lowered what was left of his cab onto the pavement and said, to no one in particular, "This 'ere 'Iker. "Whyn't he get married and settle down?"

You also hear the story at the Beaufort Club about the woman who hailed a London cab and said, "I'm tired of the blitz. Take me to Colwyn Bay." The driver simply said "Yes, ma'am" and started off. How he managed to get petrol for a 250-mile journey no one seems to know. Perhaps the story is apocryphal, but the cabbies like it because it accents their oft-repeated boast that "we're the only public service that carried right on through the blitz." Now you chide them about not driving through the height of the current series of raids and they say, almost apologetically, "Well, y'see, guv'nor, we pack it up now when it gets a bit thick. It ain't worth it, really. It's not the bombs, mind you, it's that bleedin' shrapnel."

There, in a sentence or two is the great change that has come over England in the past four years. Britain in the hectic hour of invasion can still take it, but Britain's taking no foolish chances now. German bombs, yes, but British shrapnel, no.



MOST CARRIES NOW MAKE AS A NIGHT



*Mr. Fixit
cuts his
finger...*

**QUICK...
THE IODINE BOTTLE!**

* Something slips...and the handy man-around-the-house is a minor casualty. Don't let him neglect it. A little cut can grow to dangerous infection. Do as Doctors do...paint the area of the small wound with Iodine. "Quick, the Iodine bottle" is wise first-aid.

IODINE EDUCATIONAL BOARD, INC.
120 Broadway, New York 5, N. Y.

IODINE
Foe of Infection



BICYCLES FOR
FRENCH
FORCES

**Bicycles Serve
THE SERVICES...**

U. S. Armed Forces, Auxiliary Services, and the military needs of our Allies have first call on "America's FIRST Bicycle." After Victory, however, a new, finer-than-ever line of Columbia bicycles will be ready. Meanwhile, keep buying War Bonds, to have and to hold. The Westfield Manufacturing Co., Westfield, Massachusetts.

Columbia
SINCE 1877
"AMERICA'S FIRST
BICYCLE"

SORRY, MR. HAGAN, BUT YOU CAN'T HAVE A SONOTONE WITHOUT A FITTING!



"You ask why you can't come in, pick up a Sonotone, take it home and adjust it yourself. You tell me other people will do that. Well, Sonotone *won't!*"

"And I'll tell you why, Mr. Hagan", continued Consultant Sherman F. Smith, of Sonotone's Pittsburgh, Pa., office. "We won't do it that way for just one simple reason . . . we want everybody who wears a Sonotone not just to HEAR sounds . . . but to UNDERSTAND what he hears. And there's a big difference between *hearing* and *understanding!*"

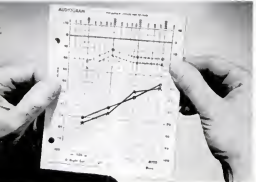
"You see, your hearing loss differs from everybody else's. To improve your hearing, you have to have **SELECTIVE AMPLIFICATION** . . . that is, amplification of sound in those portions of the speech range where your hearing is weak and needs 'propping up'. And that, Mr. Hagan, means *fitting!*" It means individualizing a Sonotone to your personal hearing needs. It's the difference between *having a hearing aid* . . . and *having your hearing!* And it's the reason nobody can have a Sonotone without a fitting!



(1) "Let's take these Audiograms for a minute. Speech is made up of sounds ranging from 200 to 2,000 cycles. With normal hearing, you hear over the whole range. These curves show where along that speech range these people's losses occur.



(2) "Just look at the difference in people's hearing losses! If you have a loss like this in the high tones, you miss the sounds that give character to words, (the 's', 't', 'c', 't', etc.) and people sound like they're mumbling when they talk . . .



(3) "... with a loss like this in the lower frequencies, you miss the 'energy' sounds that give weight and volume to speech. Can you imagine one 'ready-made' hearing aid fitting all these variations? Or your having the luck to fit yourself?"



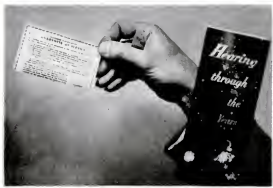
(4) "Now, when I chart your hearing loss, I can show you inside of 30 minutes where your hearing loss occurs, how extensive it is, whether bone or air conduction is most likely to help, and what the chances are of improving your hearing."



(5) "There are hundreds of fitting combinations possible with a Sonotone. Your Audiogram shows the fitting that will give you **SELECTIVE AMPLIFICATION** in the sections of the speech range where your hearing needs help most."



(6) "Then I mail your Audiogram to our engineers at Elmford, where men who have studied more than a quarter of a million other audiograms, go over yours, analyze it, okay the fitting I have chosen, or advise changes. A Sonotone is 'tailor-made'!



(7) "That's the difference between having HEARING and just having a hearing aid. There's more to it of course . . . advice, guidance, periodic Audiograms, a written guarantee of service . . . all to give you **UNINTERRUPTED HEARING.**"

SONOTONE

A personal service that seeks to give you **BETTER HEARING FOR THE REST OF YOUR LIFE**

Approved by the Council of Physical Therapy of the American Medical Association

There are over 150 Sonotone offices. The office nearest you is listed in your local telephone directory. Phone for information or write **SONOTONE, ELMFORD, N. Y.** In Canada: write 229 Yonge St., Toronto. In England, 114 Wigmore St., London, W. 1. Also available in the world's principal countries. If you live in the U. S. A. write for a free copy of "Hearing Through the Years."

© 1944, Sonotone Corp.

BUY MORE WAR BONDS TODAY!

Leading for nearly a century



LOOK FOR LASTING VALUE
In Your Ring
And In Its Diamonds...

Know that behind your ring's beauty is enduring value. Choose "Art-Carved" designs, created by a firm which has made quality rings for 94 years.

Shown by leading jewelers.

J. R. WOOD & SONS, Inc.
MANUFACTURERS and DIAMOND IMPORTERS
1850-1944

Keep Buying Bonds... And Keep Them!

Art-carved Rings by Wood

SEND FOR "THE BRIDE'S SILENT SECRETARY WITH DIAMOND RING GUIDE"
J. R. Wood & Sons, Inc., Dept. L • 216 E. 45th Street, New York City (17)

LIFE



LIFE'S COVER: Lieut. General Carl ("Tooney") Spaatz commands the American air forces which have been preparing Europe for invasion. His lieutenants are Jimmy Doolittle (see pp. 66-67) in England and Nathan F. Twining, who directed the strangulation bombing in Italy (see pp. 27-33). Spaatz' planes could not attack nor could air or ground invasion proceed without the aid of air intelligence, which is discussed on pages 89-97.

EDITOR
Henry H. Luce
MANAGING EDITOR
John Shaw Billings
EXECUTIVE EDITORS
Daniel Loomer, Vernon Hicks
ASSISTANT EDITOR
John A. Joseph
ART EDITOR
Worban Paton

SENIOR EDITORS: Neal P. Beach, Roger Butterfield, David Cope, Joseph Kestner, Joseph J. Thornhill, Jr.

ASSOCIATE EDITORS: Lincoln Barnett, Robert Coughlan, John Field, George Frasier, John Harney, Richard Lammont, Gerard Paul, Maria Sermoloni, Margaret Varley, Richard Wilson, Leonard V. White, Editor: Donald Fitzgerald, Caroline Iverson, Leland de Mornay, John Pennington, Blazy, Joan Spitzer, Philip Wootton, Jr.

SENIOR RESEARCHERS: Berelson Shirite (Chief), Ruth Adelman, Margaret Blane, Marion Bradley, Earl Brown, Tom Carlin, Gertrude Easton, Howard H. Harniss, Shirley Herzig, Elaine Brown Keiffer, Helen Morgan, Annamaria Parkins, Elizabeth Sherman, Shirley Smith, Dorothy Sterling, Marion Stevens, A. B. C. Whipple.

RESEARCHERS: Madeline Benoit, Leo Erlanson, Faith Parr, John Kay, Frances Levinson, Adeline Miller, Hester Mottson, Helen Perrow, Kinabeshi Reeve, Jo Sheehan, Burton Van Vorst, John Worsham.

STAFF PHOTOGRAPHERS: Bart Sheridian and John Morris (assistant picture editors), Myron Davis, Alfred Eisenstaedt, Elton Edleston, J. H. Eyerman, Andrea Fontana, Marie Hanson, Bernard Hoffman, Wallace Kirkland, Bob Landry, Tom McEvoy, Harold Meltz, Ralph Moore, Carl Mydans, John Phillips, George Rodger, David Sherman, Frank Scherbach, William Street, George Silk, Peter Stackpole, George Stroock, William Vandivert, Hans Vid.

PICTURE BUREAU: Dorothy Hoover (Chief), Mary Carr, Alice Crocker, G. A. Crumrine, Natalie Kowak, Gertrude Lester, Ruth Lester, Maude Miller, Margaret Bergman, Grace Young.

LAYOUTS: Chas. Tudor, Michael Phillips.

NEWS BUREAUS: David W. Hulford, Jr. (Chief), Helen Hutchison (Assistant), Herbert Irsma (Detroit), Bernard Clayton (Honnolulu), Gene Cook and Robert Harp (Chicago), Henry Hough (Denver), William S. Howard (Atlanta), James E. Lannon (Los Angeles), Will Lutz (Algeria), Walter Uraboner (London), Felix DuBois, Jr. and Ray Blackland (Washington), Holland McCombe (Rio de Janeiro), Paul F. Neil (Sanchez), Robert deLoach (San Francisco).

PUBLISHER
Roy E. Larsen
GENERAL MANAGER
Andrew Heiskell
ADVERTISING DIRECTOR
Ringsid Bjork

Subscriptions and all correspondence regarding them should be addressed to CIRCULATION LIFE at published weekly by Time Inc., Editorial and Advertising office TIME & LIFE Bldg., Rockefeller Center, New York 20, N.Y. — Maurice T. Moore, Chairman; Roy E. Larsen, President; Charles L. Sullivan, Treasurer; David W. Brombough, Secretary.

Subscriptions Rate: One year, \$6.00 in the U.S.A.; \$6.50 (Canadian dollar) in Canada including delivery; \$10.00 in Pan American Union; elsewhere, \$15. Single copies in the U.S.A., 10c; Canada, 10c; U. S. Territories & Possessions, 15c; elsewhere, 16c.
Change of Address: Four weeks' notice required. Changes cannot be made without old address as well as new. Please furnish an address label impression from a recent issue if you can, and note postal zone number for your new address if city requires it.

BRIGHT STAR

FLASHLIGHTS
and
BATTERIES

NOW SERVING OUR MEN ON
EVERY FRONT MAY SOON BE
BACK TO SERVE AT HOME AGAIN!



BRIGHT STAR BATTERY CO., LITTON, NEW JERSEY

La Cross

Precision
nail nipper



This La Cross implement is precision. If you own one, treasure it. At the present time, the manufacture of many cross implements is sharply curtailed.

All genuine La Cross implements
are stamped—LA CROSS

For more than four decades,
America's Finest Manufacture Implements

BENEFICIAL SHOE CORPORATION, FIFTH AVE., NEW YORK

CAT'S PAW
non-slip
Rubber Heel & Sole



LAST WORD IN QUALITY

Buy still MORE rear bonds

"FIRST" in FUDGE



Quality & Candies
WELCH'S



This ink proves pen failures can be avoided!

Solv-x in Parker Quink prevents metal corrosion, rubber deterioration ... cleans your pen as it writes!

An ink that writes well is not enough. It may actually be eating away at the vital metal and rubber parts in your pen.

What you need is the *protective* writing fluid—Parker Quink. Every drop of it contains *solv-x*, an exclusive Parker ingredient.

Parker Quink with *solv-x* penetrates the pores of rubber and wards off deterioration. It shields metal from corrosion. It cleans pens as they write, flushing away the sediment and

gun which have been left by ordinary inks.

Brilliant, smooth-flowing, fast-drying ... Quink with *solv-x* costs no more than ordinary high-acid inks. So don't take chances with that pen of yours. Give it the protection it deserves. Keep it out of the repair shop by filling it with Parker Quink, today! Ideal for steel pens, too. The Parker Pen Company, Janesville, Wisconsin, and Toronto, Canada.

"MICRO-FILM BLACK", the all-purpose black ink. Writes black, stays black. Ideal for V-Mail; photographs perfectly. Quink comes in 7 permanent colors: Micro-Film Black, Blue-Black, Royal Blue, Green, Violet, Brown, Red. 2 washable colors: Black, Blue. Family size 50¢. Other sizes 10¢ and up.

MAKE YOUR DOLLARS FIGHT—BUY WAR BONDS NOW!

PARKER Quink the only ink containing **solv-x**!

Parker scientists add **SOLV-X** to every bottle of Quink! ...



protects all makes of pens in 4 ways:

1. Prevents metal corrosion and rubber rot always caused by high-acid inks.
2. Ends all gumming and clogging. Gives quick starting—even flow.
3. Dissolves and flushes away sediment left by ordinary inks.
4. Cleans your pen as it writes—keeps it out of the repair shop.



Copyright 1944 by The Parker Pen Company



BREAKING A BOTTLENECK !

Texaco Scientists found way to Break Isobutane Bottleneck to speed Production of 100-octane Aviation Gasoline

Millions upon millions of gallons of fine 100-octane gasoline are required to keep America's vast air armadas flying.

One of the difficulties in producing this vast quantity of gasoline was this:

It takes a gallon of isobutane to produce four gallons of aviation gasoline. And until recently isobutane had to be made by a slower, time-consuming process.

That bottleneck was broken.

Texaco Research has developed a new but

already vitally important "liquid catalyst" process for converting plentiful butane into precious isobutane. A process that can operate continuously, without periodic shutdowns. It requires less plant equipment than any previous process.

After the war is won, this typical development of Texaco Research will put more lightning getaway, smoother pick-up, unprecedented power into your new car! And more miles per gallon!



Coming... a finer  **FIRE-CHIEF** gasoline and a finer  **Sky Chief** gasoline because of Texaco's work in this war

COPYRIGHT UNDER INTERNATIONAL COPYRIGHT CONVENTION. ALL RIGHTS RESERVED.
 UNDER PAN-AMERICAN COPYRIGHT CONVENTION. COPYRIGHT 1944 BY LIFE INC.

CONTENTS

THE WEEK'S EVENTS

<i>Investment Profits in Italy</i>	27
<i>Editorial: Our Friendship with Britain</i>	34
<i>Reservoir Rebuilt</i>	35
<i>5,000th Fortresses</i>	36
<i>Parsons' Shellings</i>	38
<i>Submarine Rescue at York</i>	39
<i>Atlantic Wall</i>	43
<i>U. S. Soldiers in Hyde Park</i>	74

ARTICLE

<i>Throw Airmen</i> , by John Hersey.....	57
---	----

CLOSE-UP

<i>Oscar Hammerstein II</i> , by Francis Gill Wickham.....	90
--	----

PHOTOGRAPHIC ESSAY

<i>Air Intelligence</i>	89
-------------------------------	----

MEDICINE

<i>Refugee Mines</i>	53
----------------------------	----

MODERN LIVING

<i>Cotton Trouble</i>	54
-----------------------------	----

THEATER

<i>"Helen Goes to Troy"</i>	53
-----------------------------------	----

ASTRONOMY

<i>Solar System</i>	73
---------------------------	----

MOVIE

<i>"Once Upon a Time"</i>	133
---------------------------------	-----

OTHER DEPARTMENTS

<i>Letters to the Editors</i>	4
<i>Speaking of Pictures: Gjon Mili Photographs Gene Kelly's Dancing</i>	12
<i>LIFE's Reports: These Taut Types</i> , by William W. White.....	14
<i>LIFE Visits a Reading Library in Texas</i>	122
<i>Pictures to the Editors</i>	126

ALL MATERIAL, WHICH IN THE OPINION OF THE EDITORS INVOLVES MILITARY SECURITY, HAS BEEN SUBMITTED TO COMPETENT MILITARY OR NAVAL AUTHORITY FOR REVIEW AS TO SECURITY.

The cover and entire contents of LIFE are fully protected by copyrights in the United States and in foreign countries and must not be reproduced in any manner without written permission.



LIFE'S PICTURES



The center of the earth's interplanetary relations is at Lowell Observatory near Flagstaff, Ariz., where the brothers, V. M. and E. C. Sipher, keep detailed photographic records of developments on Venus, Mars, Jupiter and the other planets. E. C. Sipher is the world's greatest authority on Mars and a most expert photographer of the solar family members in general. Samples of his work are shown in a story on the solar system on pages 78-86.

The following list, page by page, shows the source from which each picture in this issue was gathered. Where a single page is indebted to several sources, credit is recorded picture by picture (left to right, top to bottom) and line by line (lines separated by dashes) unless otherwise specified.

- COVER—GEORGE PHOTODUCTION
 8—T. LOUIS CARLIN
 12, 13, 15—GJON MILI
 16, 20—HANS WILD
 23—LINE
 27, 28, 29—CHARLES SEAWOOD for ACME
 30, 31—HEDYER ARABIAN ALLEED AIR FORCE PHOTOS
 32—GEORGE SEAWOOD for ACME—GROBOS BILE
 33—GROBOS BILE
 35—GEORGE BRADSHAW
 36, 37—ROBERT AIRCRAFT COMPANY, photo by VERNON T. MANDON
 38, 40—J. A. KREMAN
 41, 44, 46—P. L.
 51, 51—ARONK VAN ARE
 54, 55, 56—NINA LEON-PIS
 59, 60, 62—KARLOS-PIS
 63—J. J. OFFICIA, C. S. HAYT, PHOTO—H. J. JAMES, by TOM LEA (3)
 68, 70, 72—Photomicro by TOM LEA
 73, 76—RALPH MORSE
 78—MARGALD CARTER—E. C. SIPHER—LOWELL OBSERVATORY
 79, 80—CHRISTY BONTEILL

- 81—E. C. SIPHER—LOWELL OBSERVATORY
 82—J. J. OFFICIA, C. S. HAYT, PHOTO—H. J. JAMES, by TOM LEA
 84—M. T. WILSON OBSERVATORY, E. C. SIPHER—LOWELL OBSERVATORY
 85—KARLOS-PIS
 86—E. C. SIPHER—LOWELL OBSERVATORY
 87—HOWARD D. ANDREAS PRINTING
 88—KARLOS-PIS
 89—KARLOS-PIS—GJON MILI—ALBERT
 100—WALTER SANDERS
 102—KREIDORF
 102—RANSEL MEYER
 110—W. ROBERT SMITH, R. L.
 113—HOWARD D. ANDREAS PRINTING
 122, 123, 124, 125—JACK WILKES
 126—R. L. YOUNG—ST. LOUIS GLOBE-DEMOCRAT
 127—J. L. AR. S. DILLER—TULSA TRIBUNE
 —FR. CARY BELMONT—MEMPHIS COMMERCIAL APPEAL

ABBREVIATIONS: CBN., CAPTAIN; ESC., ESCORT; LFT., LEFT; RT., RIGHT; T., TOP; B. S., BLACK STAR; INT., INTERNATIONAL; P. I., PICTURES INC.

TIME FOR ENSENADA SHIRTS AND SLACKS

For men and boys all over—it's Ensenada time again! Days when the cool comfort of these famous shirts and slacks is doubly welcome. And mothers bless their extra wear. In Spring-time blues, browns, greens and tans. Shirts in-or-out style with two-way collars. Short or long sleeves. Slacks with pleated waists. That Ensenada label means staunch quality always. Ask for genuine Ensenada garments at better stores everywhere.



TWO-WAY COLLAR
WEAR OPEN
OR CLOSED



RELIANCE MANUFACTURING COMPANY
 213 W. Monroe St., Chicago 6, Ill.
 New York Offices: 200 Fifth Ave. - 1250 Broadway
 MAKERS of Universal pajamas • No-Tear
 Shorts • Apron Shirts • Key Chains and Happy
 Home Products • Big Yank Work Clothing • Yank
 Dr. Boy's Wear • Parachutes for Men and Material

PLAIN WARTIME MEALS BRING *** CONDIMENT BOOM! ***



The lady's really learning to cook. With America's steak and chop heyday over for the duration—women are discovering how to make the most of meat points through use of condiments in cooking. Meat-stretching stews and casseroles take on richer, deeper color, tempt-

ing savor with a dash of Heinz "57-Sauce." Humble flank steaks appear as mock duck with a stuffing of mashed potatoes blended with stone-ground Heinz Prepared Mustard. And pork liver makes a delicate, tangy loaf. Again the flavoring secret is Heinz Prepared Mustard!



Enjoying butterless sandwiches! Mustard pinch-hits when butter is scarce. Heinz Prepared Yellow Mustard is used to spread the bread for meat, cheese or egg sandwiches. Sandwiches made with this subtly seasoned mustard are deliciously moist—tasty—not too highly spiced.



Keeping up at the Jones'. Meat-saving wartime "specials" are standard home menu items today. Masculine favorites are spaghetti dishes, hot-tamale pie, Spanish rice. For a real flavor thrill, season them with "57-Sauce"—a rich blend of fruits, vegetables and rare spices.



Egg production hits new record. High in protein value, egg dishes make nourishing main courses. Mighty tasty, too, when flavored with Heinz Condiments. For mouth-watering creamed eggs, omelettes, souffles, add "57-Sauce," with its 17 blended flavorings. And to give deviled eggs, egg salads and sandwiches a spice you won't forget—try a dash of Heinz Prepared Mustard.

QUESTION: Are Heinz Condiments the same as they were before the war?

ANSWER: Exactly! A few of your favorite Heinz 57 Varieties may be scarce. But those you do find, are made of the same high-grade ingredients, with the same painstaking care and skill that have characterized all Heinz foods for the past 75 years.

In spite of tremendous demands, grocers have good stocks of taste-tempting Heinz "57-Sauce"—to make plain foods taste great. Both kinds of stone-ground Heinz Mustards are plentiful—delicate, golden Yellow Mustard; racy, full-bodied Brown Mustard.



When Johnny comes marching home on leave—he tells his folks about Heinz "57-Sauce," insists on having it on hand. Tremendous popularity of this condiment sauce among U. S. fighting men is no military secret. In fact, it is considered a factor in explaining greatly increased civilian demands for "57-Sauce" all over the country.



NEAR CASTELFORTE. RECENTLY A GERMAN STRONG POINT ON LINE BETWEEN CASSINO AND THE TYRRHENIAN SEA, U. S.-MANNED TANKS MOVE UP TO SUPPORT FRENCH INFANTRY

THE FIRST ATTACK: ITALY

In a single week of determined attack, the allied campaign in Italy, which not long ago was written off as a disappointing stalemate, became a heartening success. Where the going had seemed impossibly tough during the winter, the allies now advanced rapidly toward the Anzio beachhead and Rome. The capture of strategic ground, however, did not appear to be their only objective. This was an offensive which was out to get the German Army in Italy and to hasten the final defeat of all German armies. As it began, Allied Commander General Sir Harold R. L. G. Alexander said: "Allied armed forces are now assembling for the battles on sea, on land and in the air to crush the enemy once and for all. . . . To us in Italy

has been given the honor to strike the first blow."

The troops commanded by General Alexander could not have been better chosen to represent the anti-Nazi world in this first blow. In the British Eighth Army were Poles, English, Scots, Canadians, New Zealanders, Punjabi, Pathans and Sikhs. In General Mark Clark's American Fifth were Americans, French, Italians, Goums, Senegalese and Algerians. The French bore the brunt of the first fighting. On May 14, three days after the attack had begun, they took the fortified town of Castelforte, hinge of the German Gustav Line between Cassino and the sea. The Americans along the coast and the British around Cassino gained ground slowly, but the pug-

naacious German defense finally collapsed under the steady pressure. With the fall of Cassino on May 18, the Gustav line crumbled and the Germans fell back. Before they could organize their defenses at the Hitler line the allies had also broken through there and were on their way toward easier fighting country.

Until the Italian advance began, no civilian could be sure whether the allies were held down by German strength or by their own unwillingness to use greater forces in Italy. Now they saw that when the allies decided to exert their full strength, they crumpled the enemy. In one week the allies captured 6,000 prisoners and had taken so much valuable matériel that the German retreat had become a disorderly flight.



French infantry moves up through ruined Castellote 36 hours after they had driven the Germans out. With the assistance of U.S. tanks, French took Castellote on May 14, pushed on to take road from Cassino to the sea. Second man shoulders U.S. Browning light machine gun.



Standing in the Gothic arch of wrecked church in Castellote, an American officer inspects rubble covered interior. Castellote, which was a town of about 8,000 inhabitants in peacetime, was almost as thoroughly destroyed as Cassino by the months of allied shelling and bombing.

"BIG CHARLEY'S" MEN

Revenge for the French is bitter, and is also sweet

by WILL LANG

With the brilliantly fighting French in Italy last week were LIFE Photographer George Silk, who photographed the sleeping soldiers on page 33, and LIFE Correspondent Will Lang. Their combined experiences and observations catch the raw flavor of a smashing campaign.

General Alphonse-Pierre Juin's French troops had forced their way into the ancient hill village of Esperia only a half hour before George Silk reached the outskirts. American light tanks manned by Frenchmen commanded the narrow avenues of rubble while *poilu* combed through the town's 50-odd stone houses, rooting out dozens of trapped Germans with pistol and bayonet.

Esperia sits in a saddle halfway down a hill, and 800 French Moroccan infantrymen were already working their way down the slopes after the retreating Germans. The sides of the road were not yet swept of mines, and the road was in full view of the German batteries. An American Sherman, its crew sitting nonchalantly on their bedrolls strapped atop the tank, was parked off the road and Silk yelled: "How you like working with the French?"

"Goddam good!" the tanker answered vehemently. "When they fight they get down to business and fight."

A French brigadier general, driving his own jeep, cut around the vehicles. "Look at him go. Right up to the front," said the American. "The officers are all that way. Goddam emotional, but they get right up there with their men." (Earlier in the week, General Juin's own jeep had twice been punctured by small-arms fire.)

Ahead of the town wrecked German vehicles partially blocked the road. A light tank was just starting to thread its way between the bluff and the wrecks when the Germans opened fire. There was a whining overhead, then a dozen mortar shells lobbed over and erupted in the group of infantry above the road. Screams pierced through clouds of smoke as the Germans poured their fire into the exposed men and machines. The tank exploded with a roar and belched a mass of flame and smoke as the ammunition inside caught fire. Other vehicles were catching fire as their frantic, crazed occupants scrambled out, running up the road toward the shelter of thick-walled old buildings in the village. Within a minute and a half after the first shells lifted, the road was cleared of men still able to escape. But one man remained erect near the bend in the road. Twenty yards from the exploding tank there emerged from the smoke a slight, round-shouldered figure. He was Padre Baudouin, a chaplain attached to the French troops. This bearded man of Christ, with a brass cross on his French helmet and a large silver crucifix dangling from a chain about his neck, was pulling bleeding men from the jeeps, binding their wounds and dragging them under the unhit jeeps.

The following day the French had pushed on and already were fighting for Monticelli, the next town leading to the Liri valley. We stopped at a town where over 600 grimy German prisoners stared tiredly from behind barbed wire. "They haven't been easy to get," said a French officer. "They've been fighting to the last bullet, then collapsing after they surrender. Some of them say the war's over, but they still fight to the last bullet."

Near Garigliano, the original French jumping-off point a week ago, a siren screamed and a jeep tore around the curve. In the front seat sat General de Gaulle. "Le Grand Charles," his driver shouted to the French infantry by the roadside and they froze into salute. De Gaulle, touching his hand to his silver-starred cap, swirled past.

"Only the Free French called him 'Big Charley' at the beginning of the war," explained a French officer, "but now the troops are so solidly behind him that everyone gives him that nickname. Up ahead we have French cavalry officers who fought against each other in Lebanon two years ago." Riding past Mount Majo we saw the French flag flapping in the breeze from the top of the mountain. Our road then curved through a grove of olive trees spreading their twisted limbs over a new French cemetery.

Outside Esperia another siren cut the air and another general's jeep flashed past into the town. In the town square, the fiery little pink-faced general was striding about and barking out orders under his waxed white mustache with a frantic urgency, suggesting his forces were in full retreat rather than in full pursuit. I asked him what his present plans were.

"A'fond de culotte (full speed ahead)," he replied.

"Your troops, when will they get a rest?" I asked.

He shrugged his shoulders. "Now at last we are beginning to pay them back for 1940," he said.



Jeeps carry supplies down a shattered street in Castellote on the way to the front. Man walking at the right of second jeep carries German helmet. Filing behind him are four Americans apparently attached to French as medical unit. At left two trucks have been parked in

a little grove of trees for protection from aerial observation. Just behind building at right is the front end of one of American M-4 tanks which supported French when they took the town. French in this picture carry U.S. equipment and wear U.S. uniforms, but retain French helmet.



Marshaling yards at Milan were struck by British Wellingtons and American Liberators March 28 and 29. Planes dropped

sticks of medium-weight bombs to break up tracks, also hit the repair shed at left. Few railroad cars have been wrecked.

HEAVY ALLIED AIR ATTACKS CHOKED GERMAN DEFENSES WITH STRANGLE OPERATIONS

Before and during the ground offensive, allied planes were busy behind German lines in Italy. As in most operations which support ground attacks, they struck mainly at communications, but the attacks were so thorough that they seemed to mark a new stage in aerial warfare. They hit roads, bridges, railroads, harbors, supply depots in what they called a strangle operation.



The yards at Florence were ruined in attacks by U.S. medium bombers. Sheds and roundhouse in center have been blasted.

In their efforts to defeat the purpose of the raids, the Germans were forced to play into allied hands. They piled great dumps of supplies in cities close to the front so that they would not have to depend on long and vulnerable lines of supply. These dumps were handy, concentrated targets for allied planes to bomb.

The air strangulation in Italy presaged in part what



Road and rail bridges at Giulianova were bombed on March 24. Many bombs appear to be wasted, but pattern has neatly

straddled target. Lower of two bridges has been knocked out, the other nicked on span and cut off by hits on approaches.



Railroad viaduct at Bucine has been knocked out by a solid hit. Other bombs land on approaches at left. One of two rail-



rail system scrambled. Passenger cars at right center have been blown off tracks. Bombs from another raid hit at top.

the Germans might expect in the way of attacks directly preceding an invasion of western Europe. Yet there the problem would be somewhat different. On the narrow, mountainous Italian peninsula the main communications run in long, vulnerable lines from north to south, with few supporting lateral roads. Only a few need to be cut by bombing to disrupt the whole



Yards at Verona, in northern Italy, have been honeycombed by bomb craters. This photograph, made shortly after raid,

system. But on the broad western coastal plain of Europe the communications are a network, not completely dependent on main lines. These must be knocked out separately, and they will be if allied air strength and allied tactics so far in Italy and France are any index to allied intentions.

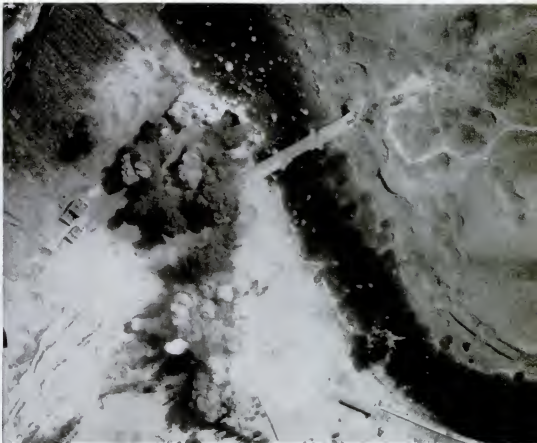
Probably because of their failure at Cassino in

shows cars still burning. Some allied planes ranged further north to Brenner Pass to hit communications with Germany.

March, heavy bombers concentrated on strategic objectives in the present offensive. But smaller planes, medium bombers, fighters and fighter-bombers, were over the front in vast numbers. And while these planes were at work, the heavies of Major General Nathan F. Twining's Fifteenth Air Force in Italy kept up their long-range bombardment of the European hearthland.



road tracks still spans break. Bridges are favorite target of communication-wrecking because they take so long to repair.



String of bombs marches across a rail bridge near Florence. Trackage at the other end of bridge has been obliterated by

a previous bombing. Round shadows in the river are craters in shallow water, white flecks are splashes from falling debris.



East of Minturno, mule-borne food and ammunition follows French forces through the strong point of Castelforte. Some U.S. troops fought here with the French, but most of our men in the

drive were nearer the coast. The French, with less mechanized equipment, moved up faster than we did. Inspired by their traditional hatred of the Germans, they stormed toward the north.

FAST OFFENSE AND TOUGH TERRAIN WEARIES TROOPS

Although some specialized American units fought in the entire attack against Germany's Gustav Line, the main U. S. drive was along the coast near the town of Minturno. There some of our mechanized equipment, which had been preparing for weeks, disappointingly

bogged down in the first hour. The foot soldiers had to slog through the backbreaking hills before they could reach the easier coastal plain. After spending 36 weary hours getting into position, many then dug holes and fell asleep under the fine Spring sun (opposite page).



Tankmen widen lane so that their vehicles will not slip off the bank into the ditch. This lane leads to a wheatfield beyond which the infantry is waiting to advance. A few minutes later

the tanks bogged down under artillery fire and the infantry couldn't move. Tankmen who had hopefully thought their equipment would perform splendidly, clambered out to fix it up again.



Exhausted soldiers, who have spent a day and a half getting into position, are photographed by LIFE's George Silk as they snatch a brief nap in the sun. Some of them dig deep foxholes

but others, who disregard German fire, sleep unprotected on the ground. White tapes seen in some of the pictures above mark passages through mine fields cleared by engineers in the night.

OUR FRIENDSHIP WITH BRITAIN

IT'S ALWAYS UNDER STRAIN IN AN ELECTION YEAR. BUT A WORSE DANGER IS TO REGARD IT AS AN END IN ITSELF

The closer the invasion gets, the friendlier Americans feel toward the British. Our soldiers and their are rehearsing shoulder to shoulder and will fight the same way. Hundreds of American boys these days are going down to Stratford-on-Avon to see Shakespeare's plays—some for the first time, some for the last. In a military and sentimental way, we are getting along fine.

At the political level, however, the case is different. This is an election year, and twisting the lion's tail is the oldest sport in U. S. politics. Even Cordell Hull was discovered recently indulging in this sport. When Governor Dewey blamed him for the censorship of political news from London, the old man tried to deflect the blame on the British. At this the *London Economist*, a very sober magazine, decided that while recrimination among allies is a sad spectacle, one-sided recrimination is worse. So it politely called Mr. Hull a liar.

As the election nears, Mr. Roosevelt will be more and more accused of having played into Britain's hands. It is understood that most Englishmen want him to be re-elected, and this adds to the American suspicions. Perhaps any President who fought a successful war as an ally of Britain would be subject to the same suspicions. But that does not mean the present suspicions can be dismissed as stupid or unreasoning, even if they should turn out to be unjust.

Forms of Suspicion

American suspicions of Britain take several forms. First, that she is out-trading us on lend-lease.

As of May 1944, however, it is difficult to take the lend-lease issue too seriously. Lend-lease is a gigantic two-way intermingling of resources which by its very nature was bound to produce cases of waste and injustice. To judge lend-lease as a whole at its present stage, one would be put in the impossible position of weighing dollars, blood and military strategy in the same scale.

In a slightly different category is another recent manifestation of Anglophobia: the growing clamor in America to take over territory in various British possessions. A House committee has recommended that our rights in the Caribbean naval bases which Britain leased to us in 1946 be made permanent. The lease expires in 2039 A.D. Since by that time our present navy will be as obsolete as the *Monitor* and *Merrimac*, this demand seems almost too farsighted. But it aroused an equal and opposite reaction in London, where Mr. Churchill said there was "not the slightest question" of Britain's agreeing.

The late Secretary Knox thought we should get some new Pacific islands out of this war. Yet the British flag went up before the American dead were cold on Tarawa. If

we had done anything with Tarawa except return it to the British we would have flagrantly violated international law. And America's national interest in upholding international law is greater than its interest in Tarawa.

There is, however, a sound impulse behind the demand to keep these islands and bases. It is not mere Anglophobic greed; it is a just impatience over the fact that no permanent, over-all scheme for keeping the peace either in the Atlantic or the Pacific has yet been worked out by us with the British or with anyone else. International law does not forbid us to negotiate new arrangements with our allies, which we haven't done. Perhaps this failure is partly to be blamed on London's affinity for the *status quo*; there was, before the war, the best-entrenched power in the Pacific. But there have certainly been no proposals for a new joint Pacific policy from our State Department. In fact, the only definite proposal has come from the Anzacs. It is manifestly unfair for us to blame London for a conservatism which we have not even had the grace or guts to challenge.

Sir Launcelet's War

Another common suspicion of Britain is that she is fighting a selfish empire-minded war. This was the basis of the reproof in *LIFE's Open Letter to the People of England* that raised such a ruckus a year and a half ago. The charge can still be made, and evidence adduced for it. In the CBI theater, for instance, the conduct of the war seems quite plainly frustrated and conditioned by Britain's prior failure to solve the Indian problem. And the disposition of British troops in the Near East seems to make more sense as imperial than United Nations strategy. However, this must be added: today the charge is both naive and ungracious. It is no longer possible to believe—as it was possible in 1942—that national or imperial interests can be completely merged in the cause of humanity during this war. This is true of Britain's interest and it is true of our own.

This war, in short, is not to be confused with the war that might have been. For a time the possibility of that other war, a true United Nations war, seemed very real. It might indeed have been America's role to make it real; the United Nations covenant was signed in our White House. But old commitments intervened and we did not insist. We were satisfied with the signatures of governments instead of trying to arouse the enthusiasm of peoples. You can't blame Britain for millions of Britons would have followed our lead. Indeed, the British are among the few peoples we could have counted on, for they control their government as we do ours.

Yet both of us, and all the United Nations, are still fighting indirectly for humanity against humanity's avowed enemies. If our side's war aims do not include the eradication of all the sins of the world, they do include the most essential aim of all: the right to make progress. Our cause is not of humanity itself, but humanity's chance. We ask humanity to accept as its champion no Gahad, but his sinful, proud, doomed and rather effective father, the Launcelet of human progress: the nation.

The Real Problem

Since we have not merged our cause with Britain's (or any other nation's), but are merely allies, the question of postwar relations between our nation and the British nation remains. This, too, will be a campaign issue. Mr. Dewey came out last year for an outright alliance with Britain (although he has not mentioned the matter in public since). Mr. Churchill, when he took his Harvard degree, said the Anglo-American Combined Chiefs of Staff ought to continue their "smooth-running and immensely powerful machinery" for many years after the war. English and American spokesmen have often pointed out how many international difficulties would vanish if Britain and the U. S. would become permanent allies, or even merge their foreign policies.

Many an American and many an Englishman think that Anglo-American unity is the answer to everything.

Postwar collaboration between Britain and the U. S. is indeed indispensable to any sustained peace for either of us, or for the world. But given a modicum of political sanity on both sides, it is also inevitable. At the very least, the U. S. and Britain can never be enemies. This is not an exhortation but a prediction. Our geopolitical interest in the maintenance of English independence will make it come true, even if the enormous weight of language, law, and culture were not cast in the same scale.

Hence Anglo-American unity in the postwar world will be the least of our problems. It is the beginning of policy, not the end. The American problem is not to solemnize a friendship with Britain and then play safe; for if that friendship becomes complete and exclusive, it will alienate the rest—the much larger rest—of the world.

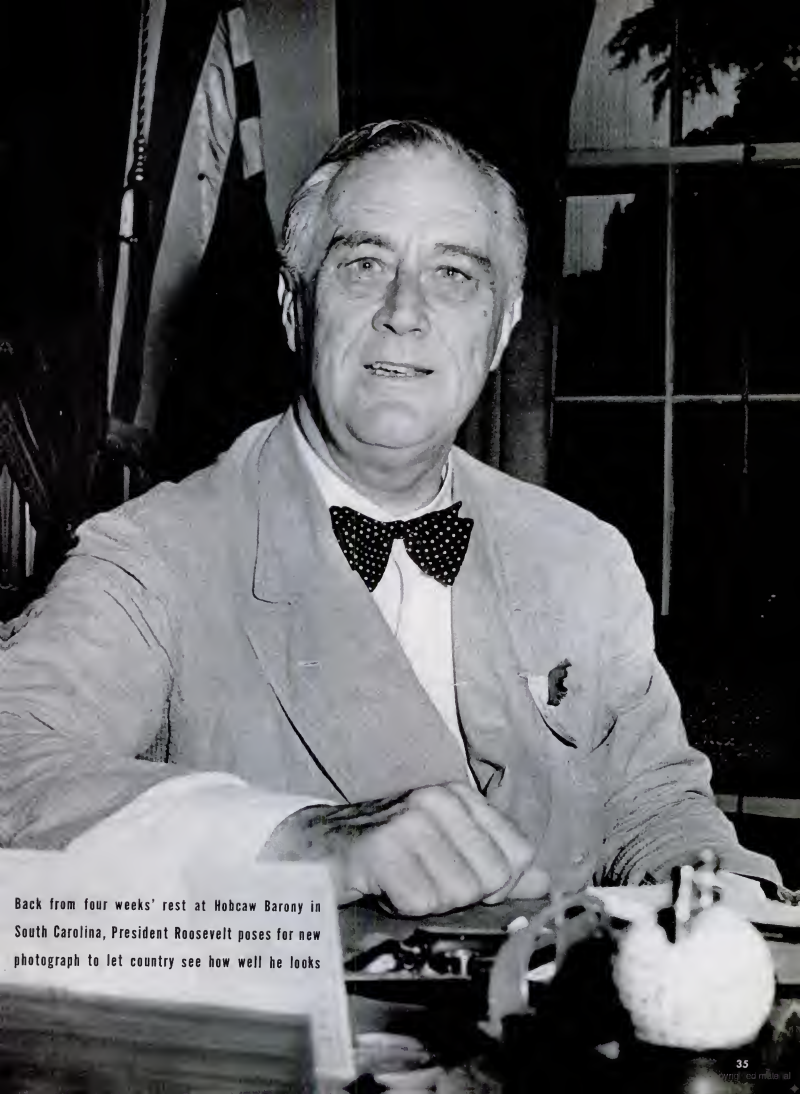
Our problem with the British is rather to learn to take our inevitable friendship for granted, so that our equally inevitable quarrels may be more easily absorbed on both sides. Our larger and more urgent problem, which we share with Britain, is to find a strong, new basis for friendship with those other nations, also our Allies, who are close to us only because we are all citizens of the same world.

PICTURE OF THE WEEK

During the winter President Roosevelt suffered from flu and bronchitis and the country heard rumors about his health. In April he went south.

When he got back he posed for photographs as if to answer the country's question: "How are you?" Last week the country could see that he

looked well, tanned and rested, but thinner, and older. His physician said the President's health was fine but got him to take things a little easier.



Back from four weeks' rest at Hobcaw Barony in South Carolina, President Roosevelt poses for new photograph to let country see how well he looks

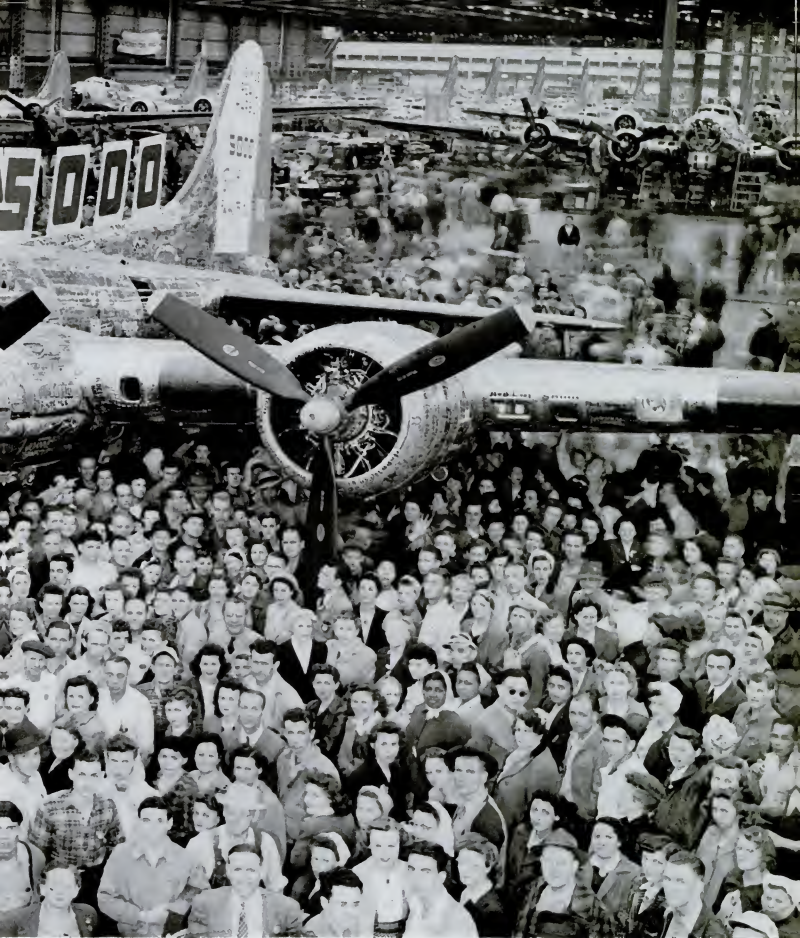


5,000TH FORTRESS

Seattle Plant No. 2 sets record

Last fortnight saw U.S. airpower reaching new and impressive dimensions as two major West Coast factories celebrated production achievements. At Lockheed's Burbank, Calif. plant a brilliant red P-38 roared aloft, the 5,000th P-38 Lightning fighter produced by the company, the 15,000th war plane it has built for allied nations. Boeing's huge No. 2 Seattle plant set

another significant mark. There the plant's 5,000th wartime B-17 Flying Fortress, lovingly inscribed with the names of the thousands who had helped to build her, reached the end of the assembly line. After a brief ceremony (above), plane was pushed out to the apron by her makers instead of being towed out by the usual tractors. Then everyone went back to work.



Plant No. 2's record, as portrayed above, has an important symbolism. For the Flying Fortress has been the chief American bomber fighting the battle of Europe, and Boeing's No. 2 plant has been its principal producer. The invasion of Europe hinges to a large extent on the B-17, which has been an aerial work horse, and on the people who make it. U. S. aircraft work-

ers have a part in invasion that is fully appreciated by Air Forces General Henry Arnold.

Though General Arnold could be pleased with the production records of the Boeing and Lockheed plants, he was fighting mad at other aircraft troubles and plainly said so. The strike of the Foremen's Association of America, which affected 14 Detroit war plants

and kept 60,000 workers from their jobs, brought him posthaste before the War Labor Board. The strike at the Packard engine plant alone, he said, had deprived his forces of 250 P-51 fighters vital to the invasion and for the protection of Flying Fortresses over Europe. The foremen went back to work pending the WLB's decision in their fight for adjustment of grievances.



This small surf-ringed atoll to the northwest of Ponape was passed by Vice Admiral Mitscher's force on the way to the

attack. Low-lying specks of land like this have provided most Pacific bombardment targets to date. As the American fleets

move westward toward hilly islands like Ponape, battleships and cruisers will have much more difficult gunnery problems.

PONAPE SHELLING

Big U. S. battleships bombard mountainous Jap Pacific base

U.S. battleship moves up into position offshore before directing its fire against the hills of Ponape (background). This pic-

Ponape, the volcanic, towering (4,579 ft.) Central Pacific fortress of Japan, was thoroughly shelled May 1. New and heavy battleships, attached to Vice Admiral Marc Mitscher's far-ranging task force, moved in to throw crushing salvos at the Langar Island base and installations in the town of Ponape.

This pulverizing surface action was the herald of greater Pacific events to come. For the salvos were directed against well-hidden and mountainous targets, unlike those found in the low-lying Gilberts and Mar-

ture gives some idea of the meticulous accuracy of U.S. warships' fire control. A specific building in the hills beyond or a

shalls and similar atolls like the one shown above. LIFE Photographer J. Eyerman saw battleships 12 miles offshore perform the delicate feat of blowing off a hilltop to smash oil tanks beyond. Mountain targets will become more commonplace as our offensive fleets move toward the Philippines, Marianas and Japan. The moves proceeded last week when MacArthur captured Wakde airdrome, 125 miles west of Hollandia, and the huge Java base of Surabaya was bombarded from east and west by allied carrier and land planes.

pier on the shore can be picked out by the ship and, when calculations are made, be smashed by 16-in. shells in seconds.





Battleship fires a salvo at a Ponape target. For bombarding fixed targets such as this, battleships usually pass in small

groups like this division, each ship loosing a broadside when it is in the most advantageous position. Some destroyers (*left*,

right) screen these battleships from attacks by submarines. Air photographs of battleships shelling in the Pacific are rare.



A FINE HAUL OF YOUNG AMERICAN FLIERS PULLED IN FROM THE WATERS AROUND TRUK POSWITH THEIR RESCUER, COMMANDER O'KANE (CENTER) ON SUBMARINE "TANG"

U. S. SUBMARINE SAVES AIRMEN

The Navy takes care of its own after big carrier raid on Truk

One of the best rescue stories of the war came into Pearl Harbor May 15 on the submarine *Tang*, which carried 22 U. S. Navy airmen who had been shot down in the carrier raid on Truk April 29 and 30. It showed once again the desperate lengths to which the Navy goes to rescue its fliers lost at sea.

The skipper of the *Tang*, Lieut. Commander Richard Hetherington O'Kane of San Rafael, Calif., was first told by radio April 29 to find a rubber raft just south of the Truk lagoon. He found three men paddling south, took them aboard. Then the radio told him to head east toward Kuop Island. Passing Ollan Island on the surface, he exchanged fire with shore batteries. But that time he found nothing.

On April 30 U. S. fighter planes circled the *Tang*,

then headed back toward Ollan. The *Tang* followed, found an overturned Kingfisher (scout float plane from battleship) and three more airmen. It made for a torpedo plane that fell smoking into the sea, picked up Commander R. A. Matter of Air Group 50 and crew of two. Then another Kingfisher called for help on the radio. Unable to rise, it was taxiing toward the *Tang*, 20 miles away. On the way the *Tang* picked up another fighter and an officer with only a lifebelt, close to the surf. Finally it reached the Kingfisher and took on nine more: its crew of two and seven more airmen they had picked up. Then it sank the plane with gunfire. Last of all, in the dark, it found a very cool bomber pilot and his ordnance man. They are all shown above with Commander O'Kane.

BUY MORE BONDS
FOR VICTORY

*Turn Over
a New Leaf*

Change to Milder Better-Tasting Chesterfields for all the satisfying pleasure a good cigarette can give you

There is no mystery why more and more smokers are changing to Chesterfields... for the answer is both simple and to the point... *Right Combination - World's Best Tobaccos*... there you have Chesterfield's 5-Key words for more smoking pleasure.

WATCH THE CHANGE TO

CHESTERFIELD



How to tell when it's time

A SUN DIAL is just one way to tell when it's time to lay aside the cares of the day and relax over a highball.

If you don't happen to have a sun dial, an ordinary watch will do very well.

But here's something neither a sun dial nor your watch can tell you . . .

The most soul-satisfying highball you ever raised to your lips is one that's made

with that richly mellow, deep-flavored whiskey—*Four Roses*.

You may, of course, find that your bar or package store is temporarily out of Four Roses these days. If so, we're very sorry. However, we want you to know that we're doing our level best to apportion the available supply of Four Roses so that everybody can get a fair share.

FOUR ROSES
A TRULY GREAT WHISKEY



*Four Roses is a blend of straight whiskies—90 proof
Frankfort Distillers Corporation, New York City*



GERMANS HOUSE-CLEAN CARPET AND FURNITURE OF CAMOUFLAGED FORT ON SANDY SHORE. THE CHIEF FORTIFICATIONS ARE ALONG THE BEACHES MOST SUITABLE FOR LANDINGS

ATLANTIC WALL

Germans await invasion nervously behind steel and concrete defense

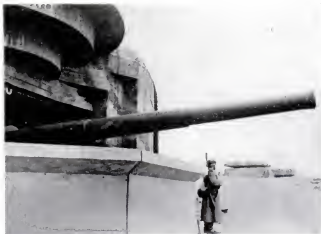
Both German and allied propaganda are now chorusing that Germany's Atlantic Wall is tough. It is very tough, as shown here in the best pictures yet released by the Nazis. Most of them show strong points scattered along the 1,600 miles of coast. If allied units land between them, they must still reduce these circular defenses. The seaports are particularly heavily defended, with doors and windows bricked in, to make them into fortresses. The Germans last week credited the allies with a force of 30 divisions and 80,000 airborne troops. The Swedes upped this to 100 divisions.

As tension tightened, a calm, dry springtime bathed the coast of Europe. German E-boats and reconnaissance planes last week nervously skittered around and over British ports and reported they had found invasion fleets. The German General Staff won a victory by getting Marshal Gerd von Rundstedt named commander in chief in the West. Cold and unruined, 68-year-old Rundstedt will be a far more dangerous antagonist for the allies than his junior, Marshal Rommel, who will now command an army in the field. Blaskowitz will command another and perhaps there is a third.

Concrete and barbed wire make this strong point, which can fight in all directions and will hold out even when surrounded. The labor that built it was 90% foreign, led by hard-faced German technicians.

Antitank obstacles, fixed at left, movable at right, ditch beyond, line Low Countries shore. Germans have fooled Holland, Brabant, Zeeland, strip behind Belgian coast.





Overhanging construction of forts for big guns is standard. The sentry is one of the middle-aged German reservists who man the fort garrisons and are "expendable."



On sandy shores, where digging is not successful, these reinforced concrete bunkers, not yet finished, will hold antiaircraft or coast-defense guns of medium caliber.



On rocky shores, huge tunnels in the cliffs supply big fixed or railway guns that can shoot across the Channel, back into France or either way along the French shore.

CONTINUED ON PAGE 14



U.S. Government Experts found 3 out of 4 people weren't getting enough vitamins and minerals from their meats

ALL THE VITAMINS Gov't Experts and Doctors agree are essential... *and vitally needed MINERALS!*

GET THE MOST OUT OF LIFE! Enjoy the buoyant energy—the steady nerves—the good resistance you deserve! Do it by getting all the vitamins and minerals you need. For remember—a U.S. Government study, other surveys too, showed 3 out of 4 people were not getting enough vitamins and minerals in their diet.

All the vitamins you need... Vimms were designed to correct this lack. Unlike many vitamin preparations, Vimms give you not just A and D, not just important B Complex vitamins, but *all* the vitamins Government Experts and Doctors agree are essential in the diet, including costly Vitamin C.

And minerals, too... Along with all these vitamins, Vimms give you calcium and phosphorus necessary for strong bones, teeth, and body tissues; iron necessary for good red blood.

No product which offers you only one tablet or capsule per day can give you the benefits of all these vitamins and minerals. That's why Vimms come in 3 tablets a day.

No other product at any price matches all of Vimms' advantages. Get them from your druggist—your qualified dealer. Take 3 Vimms at breakfast. Pleasant-tasting, cost only a few cents a day.



Lever Brothers Co.,
Pharmaceutical Div.,
Cambridge, Mass.

YOUR OWN FAULT WHEN LOVELY TEETH LOSE BEAUTY

THAT 1 EXTRA MINUTE A WEEK CAN SAVE!

Only TEEL—among all leading dentifrices—avoids these cavities!

WE: Can that be *you* taking a back seat?

YOU: Looks that way, doesn't it. I guess he fell for her dazzling smile.

WE: But where's *your* bright smile today? Are you letting it fade?

YOU: Gracious! That sounds like a warning.

WE: It is a warning! Unbiased dental studies show that 8 in 10 adults may risk getting ugly gumline cavities when they brush their teeth.

YOU: But *my* dentifrice is safe.

WE: You think so? Listen, lady—tests prove that TEEL is the *only* leading dentifrice that protects your teeth from this danger. For TEEL contains no abrasives.

YOU: But I *like* my present dentifrice—I'm used to it.

WE: You'll *love* TEEL! It's delicious! And it sweetens your breath—gives your mouth a nice clean taste that lasts and lasts.

YOU: Umm . . . sounds good—think I'll try it.

WE: Just brush your teeth every day with TEEL; and once a week . . . for about a minute...brush with TEEL and plain baking soda. Then you'll *know* you're safe!

* * *

Get TEEL today—at any drug, department or 5 and 10¢ store. Follow the simple directions on the package.

**8 IN 10 YOU MAY
BE RISKING THESE
CAVITIES!**



See that cavity in the tooth above? It's **NOT** decay or erosion! That cavity was caused by daily scouring. Dental clinic studies have shown that **over half of all adults examined** had these cavities—and **more than 8 in 10** risked getting them—cavities ground into the softer tooth structure exposed by receding gums.

BUT— extensive laboratory tests show this: **TEETH CLEANED WITH TEEL ARE PROTECTED FROM SUCH CAVITIES . . . BECAUSE TEEL CONTAINS NO SCOURING ABRASIVES. MOREOVER, TEEL IS THE ONLY LEADING DENTIFRICE THAT GIVES YOU THIS PROTECTION.**



NEW SAFE TEEL WAY TAKES ONLY

**One Extra Minute
a Week!**

HERE'S ALL YOU DO

1. Brush your teeth every day—thoroughly with TEEL, with plain baking soda on a few drops on dry or moist brush moistened with TEEL, need brush. Feed it clean! Brush at least an extra minute.

THIS CLEANS AND BRIGHTENS TEETH—SAFELY



Teel protects teeth—*Beautifully!*

LIQUID DENTIFRICE
There's beauty in every drop!



(Birds Eye tells you a few facts about the Famous Birds Eye Fish you aren't getting!)



These are great days for the fish that used to delight you—the fish in the Birds Eye packages. For many a fish that, in normal times, would be making you a mouth-watering dish—is still in the briny!



You see, under wartime conditions trawlers have mostly gone to the Government. And there are restrictions on deep-sea fishing off coasts. So... please don't blame your Birds Eye Store because Birds Eye Fish isn't as plentiful as formerly.

But we're distributing it as fast as it is available. We can't give you ALL the varieties. But if it has the Birds Eye label—it will be Birds Eye Fish.

Ocean-fresh—ummm!

The Birds Eye Fish you get will be as ocean-fresh as any in this world! For these super-delicious fish are cleaned, washed, filleted, and Quick-Frozen within 4 hours after leaving the trawlers!

BIRDS EYE FROSTED FOODS

Product of General Foods

All that salt-sweet, ocean-zestiness is sealed in! Held till you remove each



tender fillet from its cellophane jacket, and reach for your skillet. And there's NO WORK... NO WASTE! No head. No tail. No bones. No throwaways.

It's economical, too! For you pay only for what you eat—and you EAT IT ALL! So... be on the lookout for Birds Eye Fish at your local Birds Eye Store!

Make food fight for freedom! Grow more in '44! Avoid waste, clean your plate, use left-overs. Join the U.S. Crop Corps and help get in the harvest! Preserve our food production!



A comfortable rear balcony and flowers are provided in this huge fort, at least 60 feet high. This is "Station 10." Officer takes a message from his office deep inside.



Far below the surface, a lieutenant and sergeant major transferred from the Russian front sit in this cozy room with apples, fresh flowers, books, pictures, one clamshell.



Sailor bartender presides over this messroom for U-boat officers along the coast. Overhead may be 100 tons of concrete. Champagne and fine brandy are plentiful.

HORSE SENSE FROM



THE FLYING RED HORSE

One Simple Service Can Save up to 10% of Your Gasoline!

**"Baby Your Horsepower—
It Pays!"**

Get this Extra Ration:

10% more miles per gallon of gas is as good as 10% more coupons. And it is a fact that with Summer Mobilgas and Mobiloil dealers' thorough check-up of spark plugs, battery, tires, oil filter, air cleaner, you can increase gasoline mileage as much as 10%!

Even more important, this service helps solve the most serious car problem facing you today . . . How to make your car last until you can replace it!

Older cars need better care. Every part—engine, radiator, gears, chassis—should have the finest possible summer protection. And that's just what Mobilgas dealers' special Summer Service gives you—special lubricants, special adjustments and cleaning to make your car last—help you save gasoline! See your Mobilgas dealer today.

SOCONY-VACUUM OIL CO., INC.
and Affiliates: Magnolia Petroleum Co.,
General Petroleum Corporation of California.

TUNE IN RAYMOND GRAM SWING—Blue Network,
Cand-to-Cand—10 P.M., E.W.T., Mon. Tues. Wed. Thurs.

Mobilgas Mobilgas Mobiloil



AT THE SIGN OF FRIENDLY SERVICE



Rush!...
Fly 10 Tons
Across the Ocean!

TO SPEED VICTORY
BUY BONDS FASTER

MAKING PRATT & WHITNEY ENGINES FOR B-24 LIBERATOR BOMBERS AND C-47 AND C-53 CARGO PLANES, ALUMINUM AND STEEL FORGINGS, IRON AND MAGNESIUM CASTINGS, HIGH-EXPLOSIVE AND ARMOR-PIERCING SHELLS, MILITARY TRUCKS AND MANY OTHER WAR PRODUCTS.



That amount of matériel will take care of the individual needs of Private Jones for just about six months!

For, believe it or not, *one and one-half tons of food, clothing and other supplies must be transported monthly to maintain one U. S. soldier overseas.*

Multiply this by the number of men in our armed forces and you'll have some idea of the titanic job facing U. S. transport facilities—and, prominent among these, the giant C-47 and C-53 cargo planes powered by Chevrolet.

Chevrolet manufactures big, powerful, smooth-working Pratt & Whitney engines for the Skytrain and the Skytrooper—often referred to as the "workingest airplanes in existence"—just as it manu-

factures engines for the mighty B-24 Liberator—one of America's mightiest bombers.

And Chevrolet is also building replacement engines for these aircraft in a steady stream . . .

Building them so that cargo planes may continue to carry ground troops and flying personnel, as well as food, trucks, anti-aircraft guns, ammunition and all the other supplies our armed forces manage to stow away inside a Skytrain—and so that B-24 Liberator bombers may continue to blast our Axis enemies.

Chevrolet is proud to power these mighty planes, and proud, too, that their ability to "rush 10 tons across the ocean" is contributing so largely to America's ability to fight a winning war on battlefronts all over the world.

CHEVROLET DIVISION OF **GENERAL MOTORS**



School bells ring rain or shine

Is there a load so precious anywhere as the cargo this school bus carries?

Rain or shine, over slippery spring pavements or through the early morning mist, the school bus takes its lively load to school...and brings it back again happy and safe.

Today, new tires are hard to get...but the school bells keep on ringing. And the school bus must keep right on running early and late—morning and afternoon—just the same.

The doctor's car, the bus that carries workers to their jobs and home again, the ambulance, the milk truck, every essential car and truck in town depends on tires...and, now more than ever, on good, capable, experienced tire service to keep them running.

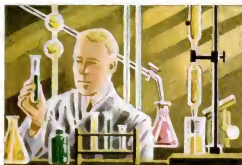
That's where the skill, the knowledge and the care of your community tire dealer do such an all-important job. As long as tires are hard to get, as long as every ounce of mileage counts as it does today, his function in keeping the community rolling is of vital importance.

He has a stake in the community, too, and he guards the tires that make it run.

★ ★ ★

When you see this sign, you will find that kind of tire dealer. It is the sign of a local, independent business built on experience, skilled service and products of quality.

SERVING THROUGH SCIENCE  TO BUILD A BETTER WORLD



SERVING THROUGH SCIENCE—For over 100 years, United States Rubber Company has been working with rubber. Throughout that century of experience, its scientists and technologists have been exploring new fields, planning, designing and testing better products.



TIRES THAT BULLETS CAN'T STOP—Specially built combat tires used on jeeps, tank destroyers and other combat cars keep the vehicle rolling at full speed even when riddled with machine gunfire. Extra thick sidewalls support the tire for a considerable distance even without any air.



TOMORROW'S TIRE—All the improvements in tire engineering that have been built into U. S. Royals for Jeeps and tank destroyers, for bombers and fighters will help make U. S. Royal Masters the premium quality favorite again after victory—serving through science for safer driving on the nation's finest cars.

Listen to the Philharmonic-Symphony program over the CBS network Sunday afternoon, 3:00 to 4:30 E.W.T. Carl Van Doren and a guest star present an interlude of historical significance.

UNITED STATES RUBBER COMPANY

1230 SIXTH AVENUE, ROCKEFELLER CENTER, NEW YORK 20, N. Y. • In Canada: DOMINION RUBBER CO., LTD.

MEDICINE



REFUGEE MICE

European laboratory strains find
a safe scientific haven in U. S.

The fretful, scurrying creatures shown above are pedigreed mice which are carefully reared for medical research. They are bred at the Carworth Farms in New City, N.Y., which supplies biological laboratories and universities with these important animals. A medical reservoir for native mice, Carworth Farms has also become a refuge for foreign strains whose existence in Europe was threatened by war bombing. In 1939 a dozen mice were brought to this country to

insure the continuance of irreplaceable stocks. They came from the University of Edinburgh and included types originally bred at the Universities of Leyden and Paris. These refugee mice are now being cross-mated in this country for medical and genetic study.

There are 75,000 mice at Carworth. They live in pens bedded with peanut shells and every week consume three tons of grain. Each week between 10,000 and 15,000 are sold for testing drugs and vaccines.



Caracul gray mouse, an offshoot of the Carworth strain, is used for test breeding. It is one of the more sensitive mice.



White Tail Tip, related to caracul gray, is characterized by its contrasting white tail. It is used to check genetic factors of other types.



Crewe's Hairless is a refugee from University of Edinburgh. This animal is used primarily for cancer research.



Yellow Strain type is usually bred with unknown strains to determine heredity, came from University of Leyden.



CFW specimen (Carworth Farms Webster) is most widely used. Weighing only half an ounce, mice can be dropped 5,000 feet and live.



Dark Selection typpo is so called because of dark spotted coat. Originally it was bred at the University of Paris.



Auerbach's PE Dilute Brown, also Edinburgh-bred, is valuable in cross-mating. Note the bright bulging eyes.



Post Juvenile Nude loses its first coat of fur completely and then regrows it. This specimen has completed growth of secondary coat.




Crewe's Rex is curly-coated mouse with heavy whiskers. Mice are prolific breeders. Gestation time is 21 days.

SURVEY SHOWS RISE IN FOOT TROUBLES

WASHINGTON, D. C.—A recent nationwide survey by the National Association of Chiropodists reveals a great increase in foot ills of all types, especially of fungus infection (Athlete's Foot). This is attributed to wartime conditions, more people on their feet longer hours. The report emphasizes the increasing necessity for greater care and precaution to keep feet healthy, urges everyone to see a chiropodist at least twice a year for a check-up.

75 MILLION HAVE ATHLETE'S FOOT!



**LOOK FOR
symptoms of
ATHLETE'S FOOT**

- Peeling between toes
- Cracks between toes
- Soft, soggy skin
- Itching

Maybe you never realized it, but chances are you have Athlete's Foot. Surveys show over 70% of U. S. adults infected each year. Mild case may suddenly become serious. And Athlete's Foot is worst during hot weather. Fortunately, science has a *better* treatment which is producing remarkable results—new 2-way Quinsana method. In thousands of test cases, practically all infection cleared up quickly with Quinsana, now used by millions!

Quinsana action is based on knowledge that the fungi which cause Athlete's Foot cannot live under certain *alkaline* conditions; and that re-infection may occur from shoe linings. Being a powder, Quinsana is easily used both on feet and in shoes. The great majority of Chiropodists, specialists in care of feet, recommend Quinsana.

Since Athlete's Foot fungi may exist almost everywhere . . . everyone should use Quinsana daily to help *prevent* as well as relieve infection. (Diabetics should be doubly sure to use Quinsana daily). Excellent also for hyperhidrosis (excessive perspiration), bromidrosis (foot odor). *Pharmaceutical Div., The Mennen Co., Newark, N. J., San Francisco, Toronto.*

NEW 2-WAY TREATMENT



1. USE QUINSANA ON FEET DAILY TO HELP PREVENT AND RELIEVE INFECTION.



2. SHAKE QUINSANA IN SHOES (ABSORBS MOISTURE, REDUCING CHANCES OF RE-INFECTION!).



50¢
SIGHTLY HIGHER
IN CANADA



COTTON TROUBLE

COSTLY CLOTHES ABOUND BUT NOT CHEAP ONES

Cotton this year is an expensive, stylish fabric. Because fine cottons are comparatively plentiful, the woman who wants to spend \$25 on a town dress like that on opposite page, or \$35 on aingham dress like the one below, will have a large assortment from which to choose. But cheap cottons are scarce and the dollar wash dress and 69¢ work shirt have about disappeared from the American scene. A fortnight ago the WPB stepped in to help the men and women who need low-priced work shirts, aprons, overalls, house dresses. It was considering an order on fabric allocation the effect of which should be to increase the output of low-priced, essential cottons.

Chief reason for this troublesome cotton situation is the government's staggering demand for cotton. Many of the work and sport clothes for men and women used to be made of duck or denim. Now the government is taking 99% of all ducks and 90% of all denims for uniforms and other war uses. Three-quarters of all "print cloth," which used to be converted into bright-patterned 156-a-yard percales, calicoes and cretonnes, is now being used for ordnance and surgical tapes, Army shorts, Navy shirts, parkas, bandages and camouflage cloth. The government, however, had less use for the finer cottons—chambrays, lawns, madrases, poplins—more of these, therefore, have been available for civilian use. Cotton's troubles were further aggravated by 1) curtailed production due to labor shortage and machinery deterioration; 2) manufacturers' switching from cheap to expensive grades because, under price ceilings, the profits are greater in high-priced fabrics.



CONTINUED ON NEXT PAGE

BURNED

**AN ALARMING THOUGHT
TO A MOTHER!**



UNGUENTINE... A REASSURING WORD

in First Aid!

EVEN A LITTLE BURN HURTS, even a little hurt deserves quick, pain-relieving, protective care.

IT'S REASSURING TO KNOW that Unguentine relieves the pain of minor burns and scalds... fights infection... and promotes healing, usually without a scar.

No wonder Unguentine is "the first thought" in burns.

NEVER, NEVER be without reassuring, pain-relieving, antiseptic Unguentine!

In family size jars and tubes at your druggist's.

© 1942, H. B. & P. Co. Inc.



A NORWICH PRODUCT

Norwich



ACTORS' FACES are extra sensitive

—that's why Elliott Nugent shaves
with soothing WILLIAMS

IMAGINE having a heavy make-up on your face for hours every day. Think of rubbing off that make-up after each performance . . . removing it so thoroughly that not a trace remains. No wonder that actors' faces are sensitive to irritants in shaving cream.

To be kind to your skin, a shaving cream must be made of mild, first-quality ingredients, blended in exact proportions. Williams is such a cream. Made with a skill that comes from over one hundred years' experience, it is naturally bland and easy on your face.

Smooth, Easy Shaves

Rich, easy-lathering Williams Shaving Cream soaks through the oily film that surrounds each whisker . . . wits toughest beards *completely* soft. It lets the razor do its work smoothly and easily—helps you get close, clean, comfortable shaves without pulling or scraping.

Discover for yourself why Williams is such a favorite with well-groomed men. Get a tube today.



ELLIOTT NUGENT is currently starring in the hit comedy, "The Voice of the Turtle." His playing of a sergeant on a pass is a high spot of the Broadway season.

Even a sergeant's role requires putting on and taking off make-up. Mr. Nugent says: "After removing make-up, my face often feels sensitive and tender. But I can shave close without irritation with Williams."



Cotton Trouble (continued)



\$29 afternoon frock is made of fine cotton chambray in jewel tones. It has the lines, trimmings, workmanship which usually go into high-priced silk or rayon dresses.



\$10 evening dress is made of checked gingham, a fabric normally used for aprons and house dresses. Here humble gingham is embroidered with gaudy sequins and jet.



*The
Suit
of the
Summer*

Coronado

***AIR COOLED**

Coat & Trouser **\$37⁵⁰**
**Celanese-rayon
trimmed*

At Leading Retailers

**FABRIC IMPORTED AND
TAILORED EXCLUSIVELY
BY
J. SCHOENEMAN, INC.
BALTIMORE 3, MD.**



Last night I dreamed about my boss...

1 As I got into bed, I could still feel My Boss looking over my shoulder, hear him barking for those letters. "Boss," I was thinking, "if you only knew what I put up with, if you were only in my shoes for just one hour—!!!" That's when I fell asle-e-e...



2 And suddenly he was in my job—bending over my typewriter, fiddling with the margin stops. "Aha!" I gloated, "setting margins by hand slows you up, doesn't it? Now, with a Royal, you can set margins lickety-split. Royal has MAGIC Margin—sets 'em automatically!" He scowled, and started pounding.



3 Pounding is the word! "Pretty stubborn keys, aren't they?" I chortled. "That's because this mechanical nightmare hasn't got Touch Control. Royal has! It 'personalizes' your typewriter by matching the key pressure to your touch. You just turn a dial, that's all!" He blinked but didn't say a word.



4 After that typing job, he was spent. "Feel woozy?" I asked. "Well, blame it on the way that typewriter carriage bobs up and down. Not so with Royal! Royal has shift freedom! Only the type segment moves!... That budged him." "You win," he muttered. "Where can you get these wonderful Royals?"



5 "Not so fast," I smiled. "War needs come first. But you can make sure my next machine is the 'World's Number One Typewriter'—a Royal!" "Hm," he hmed, "you mean I ought to earmark some cash now for new Royals?" "Right!" I shouted. "Why else am I having this dream?"



For wide-awake Royal owners

... Your Royal is the greatest typewriter engineering science has produced. Its many time-saving features—such as MAGIC Margin, Touch Control, Shift Freedom, Fingerflow Keyboard, Concave Keys—can be matched by no other typewriter. So take care of your Royal. Call in a Royal service man for a periodic Wartime Checkup. He'll keep your Royal "up-and-writing" until long after your War Bonds have matured. (Are you buying all you can?)

ROYAL

World's No. 1 Typewriter

*Registered U. S. Pat. Off. Copyright 1944, Royal Typewriter Company, Inc.



JUST BEFORE PARIS (WILLIAM HORNE) MAKES FAMOUS JUDGMENT, VENUS (PEGGY CORBAY) UNZIPS GOWN, STANES BEFORE HIM IN HER CHEMISE. SHE GETS GOLDEN APPLE

"HELEN GOES TO TROY"

This spirited spoofing of Homer has some lovely Offenbach tunes

Helen Goes to Troy, the New Opera Company's newest streamlining of a standard operetta, is a \$140,000 revitalizing of Jacques Offenbach's *La Belle Hélène*. The book, only slightly altered from the original *La Belle Hélène* is a lively lampoon on ancient history—a sometimes ribald spoofing of Homer's epic about glamorous Helen of Troy's effort to hoodwink her mossy Spartan husband, King Menelaus.

The operetta's original score has been supplement-

ed by the *Barcarolle* from the *Tales of Hoffman* and melodies from other Offenbach works. The result is a lovely, haunting score which has been matched with sprightly lyrics. Singing the role of Helen is the Czech Soprano Jarmila Novotna, one of the Metropolitan Opera's best divas. Unlike most divas, however, Miss Novotna has more to offer than a good voice. She has considerable acting ability and also looks very beautiful in Helen's seductive gowns.



Raft inflates in mid-air!

Rollled up to save precious space, this rubber raft unfurls and quickly inflates itself in mid-air when dropped by patrol plane to rescue flyer downed at sea. Fast-acting buoyancy comes from carbon dioxide gas shot from small Kidde cylinder attached to raft.

Mighty workman in a bottle! Compressed carbon dioxide provides tremendous energy for emergency jobs. There's a million foot-pounds in a 30" Kidde cylinder!



Gas barrage controls fire afloat! On cargo ships, Kidde Extinguishing of carbon dioxide gas, leaves cargo and machinery unharmed.



Cylinder fills room, chokes fire! Carbon dioxide in Kidde wheeled extinguisher expands 450 times when discharged, makes 645 cubic feet of fire-smothering gas!



Cases-under-pressure, harnessed by Walter Kidde & Company, are serving our fighting men in many ingenious ways. After the war they'll serve you. Look for them!

Kidde

WALTER KIDDE & COMPANY, INC., BELLEVILLE, N. J.



The arrival of Paris, a Trojan, in Sparta surprises Calchas (Ralph Dumke, center) and assistant (George Rasely), who haven't got Helen's husband, Menelaus, away.



In her bathroom, where everybody seems to show up, Helen is visited by nephew, Orestes (Donald Buka). He asks for lessons in love. She tells him first to learn tact.



Paris visits Helen in her boudoir and they sing *Is It a Dream?*, one of the best duets Offenbach ever wrote. Susceptible Helen is overhelmed by Paris' ardent wooing.

CONTINUED ON PAGE 42

*Keep Your
Car Running
For Victory!*



Drive in where you see
the Fram **MP**

and have him check your oil with the patented Fram Dip-stick. If your oil is dirty, have a genuine Fram chemically-treated Replacement Cartridge installed in your filter. If you have no filter, have a Fram Oil & Motor Cleaner installed at once.

FRAM CORPORATION
Providence 16, R. I.
In Canada: J. C. Adams Co., Ltd., Toronto



Let the Fram **MP**
(Motor Protector)
Protect Your Motor



The U. S. Army protects its motors on all military vehicles with oil filters that (1) are of the Replacement Cartridge type; (2) are of the clean oil type; (3) have an outside-in flow--Three basic principles pioneered by Fram! Give your car the same protection.

"How's Your Oil Filter?"
The Dipstick tells the story

THEY'VE GOT TO BE RIGHT

A trained Inspector actually writes with every Esterbrook Renew-Point before you buy it...the surest way to detect any hidden writing flaw.



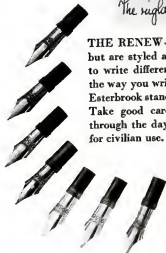
Precision Woodling

THIS SYMBOL OF SURE-LINE PEN PERFORMANCE
REPRESENTS YOUR WRITING STYLE AND EVERY
KNOWN WRITING STYLE

The keen eyes of expert pen makers check each Esterbrook Renew-Point 21 times before final assembly... but even that's not enough. So that your Esterbrook pen will write with ease from any angle, a practiced hand then takes the finished pen and glorifies the figure 8 as pictured above, rolling the pen from side to side in a fool-proof test. Such tireless attention to details distinguishes Esterbrook craftsmanship from mass production methods.

The right point for the way you write

THE RENEW-POINTS illustrated here look identical but are styled and designed to the 1/1000th of an inch to write differently... to give you the right point for the way you write. Such mastery of trifles maintains the Esterbrook standard as the World's Greatest Pen Makers. Take good care of your Esterbrook... make it last through the day of Victory... only a few can be made for civilian use.



Esterbrook

PENS

Renew-Point Fountain Pens - Steel Pens - Art and Drafting Pens

"Helen Goes to Troy" (continued)



Returning unexpectedly Menelaus (Ernest Truax) knocks on door of Helen's boudoir. He is not aware Helen has him sent on trips in order to have him out of way.



Having crawled into bed, Menelaus sees he and Helen have six feet between them. Extra feet belong to Paris. In such moments, operetta has hawdy burlesque flavor.



Menelaus begs Paris to leave. Paris later does so, but takes Helen along. Operetta ends with the Spartans crowding into wooden horse and going off to Trojan war.



It's no sale, lady!

Maybe we should have called this one, "Picture of a Lady in a Business with no Future." Because what soldier, no matter how much he likes fresh pineapples, oranges, limes, and lemons, is going to knock himself silly carrying them over mountains and things . . . when he is getting the same flavors in a far handier form . . . delicious, Five-Flavor Life Savers.



They're all for you
and all on Victor



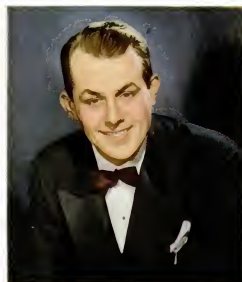
Freddy Martin

With classics this Martin gets busy
Until they are swiny and fizzy,
If the Masters should learn
Of this fact they would turn
In their graves—then dance till they're dizzy!



Glenn Miller

Glenn Miller's in service, but still
He sends with his old solid skill,
And his records deliver
That magical quiver
That's known as the Glenn Miller thrill.



Vaughn Monroe

This Vaughn Monroe's tall, handsome, fair
As orchestra leader he's THERE
While each baritone note
Of his voice is—we quote—
"The answer to every maid's prayer."

The Bands and Singers you want to hear are on Victor and Bluebird Records

- Perry Como ★ Duke Ellington ★ Shep Fields ★ Erskine Hawkins ★ Earl Hines ★ Lena Horne ★ Spike Jones
Sammy Kaye ★ Wayne King ★ Hal McIntyre ★ Tony Pastor ★ Alvino Rey ★ Charlie Spivak



Tommy Dorsey

The trombone of Dorsey is sweet
But still he can turn on the heat.
He's got what it takes
And the records he makes
For Victor, put wings on your feet.



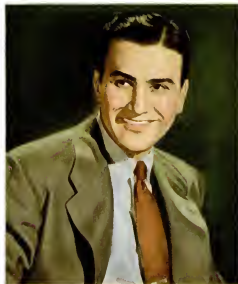
The King Sisters

Four queens, tho' their monicker's "King"
Who give with both sweetness and swing:
Yvonne, Alyce, Donna,
Louise—you will wanna
Possess the slick records they sing.



David Rose

Dave Rose, for his music, can claim
A share in "Winged Victory's" fame
And his records have such
A smooth, light-flying touch
That "Winged Victors" would fit as a name!



Artie Shaw

Artie Shaw "swings with strings" till the air
Is hot as the rocket's red glare,
And his clarinet's fire
Boosts your fever still higher,
But you're happy—so what do you care!



Dinah Shore

Her voice is blue velvet; what's more
It makes your heart glow to the core.
Can we answer to you
"Who's the torch singer who
Out-torches all others?" Why, shore!

THE WORLD'S MOST POPULAR ARTISTS ARE ON

VICTOR and **BLUEBIRD RECORDS**



TUNE IN! . . . RCA's great new show, every Saturday, 7:30 to 8 p.m., EWT, Blue Network ★ BUY WAR BONDS EVERY PAY DAY ★

How Pvt. Jim Thornbro lived to fight again

FONDOUK PASS, North Africa, March 15. —Caught in machine-gun cross-fire when his tank was hit near the German lines, Pvt. Jim Thornbro was severely wounded.

Nine hours passed before he dared crawl the quarter mile back to the American lines.

Jim Thornbro isn't the kind that quits. Today, after months in hospitals, he is fighting again—fighting on the production line at Packard, where he is helping to turn out combat engines for former comrades.

There are many wounded veterans among the war workers in America today. They know the importance of having the *best* of

equipment, and *plenty* of it. And they're pitching in with a grim determination to see that our fighting men get everything they need to finish their job.

When you talk to the veterans at Packard—and there are over 300 of them—you realize that they think of themselves as still fighting in the war. *And they are.*

For they know that every Packard marine engine they build for PT boats—and every Rolls-Royce aircraft engine they bring off the assembly line—may help shorten the war by a week, or a day, or an hour.

And that's America's big job today: To end this war *quickly!* For this is the crucial year—perhaps the crucial month or week.

When men like Pvt. Jim Thornbro, having risked their lives in combat, are still putting

every ounce of energy they can muster into *finishing* the job, can any of the rest of us honestly say that *we* are doing too much?

Let's do more in '44!



MUSTANG
Fighter



WARHAWK
Fighter



HURRICANE
Fighter

PACKARD

PRECISION-BUILT POWER



LANCASTER
bomber



MOSQUITO
fighter-bomber



NAVY
PT boats

• ASK THE MAN WHO OWNS ONE •



• PVT. JIM THORNBRO, now a gear-grinder, is one of 15 wounded veterans at the Packard plant who wear the Purple Heart. His job today—along with Packard's other 30,000 war workers—is building more and *finer* combat engines, together with vital parts to keep America's transportation system rolling. We've been meeting war production quotas ever since Pearl Harbor, and we intend to keep on doing it. For we think that's the surest way *not* to lose a war!



THREE AIRMEN

Artist Tom Lea finds in them characteristics of all fliers

by JOHN HERSEY

Three great portraits of three great airmen appear on the following pages. The airmen are Jimmy Doolittle, Bernt Balchen and Claire Chennault.

The pictures are by Tom Lea, who has, besides a skilled and patient hand, a feeling for his fellow men. His pictures illuminate much more than just the cranial structure and skin texture of these three fliers. They show their diverse characters. And in doing that, the portraits show some important things about all men who have the urge to climb the pale ladders of the sky.

Tom Lea painted these portraits last autumn in the course of a 20,800-mile air trip to China and back. He sketched Balchen in the transient officers' "Hotel de Gink" in Iceland, Doolittle in what were then his quarters near an air base in Tunis, and Chennault in a new office he had in a mountain town of China. On this page Lea pictures the variant terrains over which the three men were then operating. The terrains had grown into the men, like memories of some sort, and could almost be seen on their faces.

The three men seemed to Lea to be as disparate as the scenes of their operations. He writes: "Doolittle was small, friendly, humane, intuitive, keenly intelligent. Balchen was big, genial, relaxed, easily powerful, completely capable. Chennault was carefully courteous, tense, tough-minded, literally awe-inspiring."

As both portraitist and man, Lea looked for the differences mostly in the fliers' eyes. Doolittle sat for his picture alone on his bunk, looking straight at the artist with "direct, strong, uncompromising eyes." Balchen sat on a sofa surrounded by curious friends. Lea worked hard over the big man's very blue, ice-like but poetic eyes. Chennault sat at his desk talking with officers and dominating them with his tight-lidded, black-brown hawk eyes. By sorting out such essentials as these, Lea eventually found the essential man in each case. And in each case he found, too, a phase common to every man who flies.



DOOLITTLE commanded heavy bombers of the Twelfth Air Force when Lea painted his portrait. Here his planes go

low over an Italian town set in terrain much like that over which the Fifth and Eighth Armies were fighting last week.



BALCHEN had charge of the northernmost U. S. air base. He flew day after day over some of the most forlorn and lonely

landscapes in the world, where only through an extraordinary coincidence of luck and skill could a flier crash-land safely.



CHENNAULT taught men to fight above China's scarred earth, but he himself learned a lot about the people swarm-

ing that earth, and about the antiquities which they seemed so helpless to defend. The Chinese now love and respect him.



LEA AND HERSEY are both veteran reporters of this war for LIFE. Here they are shown together in the South Pacific.



Tom Lea
170001 Africa 1973

JIMMY DOOLITTLE

The first side of any airman is his love of his machine. He gets to know his plane. He learns exactly what it can do, where it will take him, how high, how fast, how sweetly in the sky. James Harold Doolittle is the essence of that side of a flier's character.

Since the first Tokyo raid, Jimmy Doolittle has been camouflaged in glamor. The romantics have made him Jimmy the Daredevil, Jimmy who wanted to swat the Japs, Jimmy who was always crazy and gallant.

But that glamorized Doolittle is not the real Doolittle. The real one is the scientist of flying, the man who has dedicated his life to his machine. He likes drink, a sporting chance and apt words of four letters. But his real love is the abstract airplane.

From the time of his first flights, he was concerned with what this machine could do. As a student cadet at Rockwell Field, Calif., he experimented with the rickety planes of 1917. He showed that a training plane could be brought out of a tail spin by doing it. He settled an argument about whether the weight of a man's body out on the wing would throw a biplane off balance in the air by crawling far out into the forest of struts and wires on a plane thousands of feet up. He was so curious and quick about the science of flight that the Army did not send him to fight in the war but kept him behind to teach.

In the years between wars he made many flights that looked like stunts but really were studies. His first transcontinental flight, from Pablo Beach to San Diego, took 21 hours, 19 minutes, and the Army gave him a medal because he had "demonstrated the possibility of moving Air Corps units to any portion of the U. S. in less than 24 hours." When the Army wanted to find out whether pursuit planes should sacrifice weight and strength for speed, he was the one who put the planes through crazy, rain-splashing stunts to test various theories. He was the first man to fly an outside loop, the first to land blind. He made some tests of human endurance in which he toyed with his own consciousness, swooping to the verge of blackout and catching data on special instruments as he did so.

His skill wrote itself into the record. He won the Schneider Trophy, the McKay Trophy, the Bendix Trophy, the Thompson Trophy. After two and a half years of hard and miserable work at M. I. T. he became a Master of Science and a Doctor of Aeronautical Science. He won the *Medaille Fédration Aéronautique Internationale* from France for outstanding contributions to aviation. It was hardly the part of a glamor boy to be chosen president of the Institute of Aeronautical Sciences.

In 1930 he retired from the Air Corps, alleging as his reason "advanced age." He was 34. He became a technical adviser for Shell Oil Co. and helped develop high-octane gasoline. He used to test the stuff in a Seversky plane with more than 20 instruments of his own design. By this time he was almost an instrument himself. Once, over the mountains of Colorado, he read a book as he flew. A nervous passenger said: "Where are we?" He was casual, he said: "Page 261."

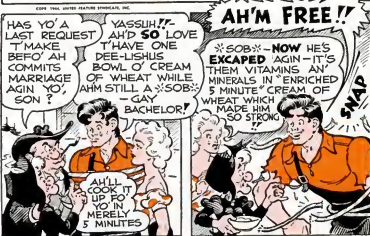
With the second war he threw up a \$12,000 salary for a major's pay. Again the Army used his technical skill. They sent him to Detroit, where he helped industry convert from autos to planes.

And even when the gaudy Tokyo show came along, he approached it scientifically. In the plane on the way to Tokyo he took notes on the gear in the B-29. He went and played with the tail gun for 20 minutes, then sat down in mid-fuselage and wrote out a few suggestions for improvements.

Just because Jimmy Doolittle has always loved his chosen machine does not mean that he himself is a machine. Far from it. He has great heart. His smile, they say, goes all the way from his high forehead to his cleft chin. He can drink and talk and laugh all night and never mention flying. When the Tokyo raid was over he wrote all the wives, personally and differently; he went out of his way to meet the fliers' parents; he himself fought through the claims of his airmen who lost clothes in the raid. In a jealous profession, no one resents his fast jump from major to lieutenant general.

But the main reason no one resents Jimmy Doolittle's fame and authority is because all can see, just by looking in his face when he walks up to a plane, that he is a dedicated man, a craftsman who knows and loves the winged vessel of his trade.

LIL ABNER by AL CAPP



CONTINUED ON NEXT PAGE



Tom Lea
Iceland 1940

BERNT BALCHEN

The second side of an airman is his awe of the elements. He rides on air, an uneasy road. The wind seduces him from the straight and narrow line of navigation. Ice is heavy on his wings, fog shushes his eyes, quiet water betrays his judgment.

Of all the aviators of the world, Bernt Balchen is probably the one who knows elements best. All his life has been involved with ice, snow, air and chill water.

He learned to ski before he was 8 and his father used to take him along on skis on medical calls in Topdal valley in southern Norway. An uncle got him into the Norwegian Naval Air Force. He soloed in four hours and a half. In the next two years he logged more hours over polar and oceanic wastes than any other pilot has ever done.

He won some hard fights with elements. He flew across the ocean in the *America* with Byrd in 1927. After 42 hours over the ocean the plane came over land. The French radioed that Paris was fogbound. Night fell. The *America's* compass went haywire. Balchen took the big landplane out over the Channel off Ver-sur-Mer, dropped flares on the water and eased the plane down. No one knew whether the big landplane would stand the shock of a water landing. She hit. Her fixed wheels were sheared off. The body crashed. Balchen was caught in the cockpit, but he finally tore himself free.

He piloted Byrd to the South Pole. The service ceiling of the loaded plane was 9,600 feet. To reach the polar plateau Balchen had to cross the hump of Liv Glacier, which rose to more than that. He found a pass, so narrow that once in, the plane could not turn around.

Balchen became a U. S. citizen in 1931, after a struggle. The naturalization authorities did not want to count his two-year stay with Byrd in Little America as continuous residence in the bigger America. But as it turned out, the two years in Little America afforded Balchen the best possible training for his role as an American in this war—for in 1941 he was put in command of the northernmost U. S. air base, a bleak, remote, snow-swept spot in Greenland. Over Greenland's icecap, as over Little America, he flew against the bitterest elements. The very days and nights were askew, because in winter, daylight lasted four hours; in summer, 24. Sometimes snow drifted deep across the runways, sometimes the thaws came fast. Gales whipped suddenly from nowhere—and they have been registered there as high as 174 miles an hour. But haze was the worst. Sky and snow merged in a daytime brilliance that fooled many fliers' sense of balance and altitude, so that on landings they would stall out at 50 feet or else fly right into the ice.

When men fresh from temperate climates failed, Balchen rescued them. An Army B-17 crash-landed on the icecap about 200 miles from the coast in June 1942. The stranded crew could not possibly walk out; they would have to be flown. Planes had landed on the icecap before, but none had ever taken off. Balchen and a Navy lieutenant flew over the wrecked B-17 for days in a Navy patrol plane, not daring to land. Then, on July 3, they found a "dimple" on the icecap about 12 miles from the B-17. It was filling with water melting off the hills of ice cupping it. The Navy plane chanced a landing. Balchen went ashore and with a sergeant started out on skis for the B-17. They skied through fog over melting snow and ice, detouring deep crevasses, wading with linked arms through waist-deep glacial streams. They reached the B-17, led the men back to the lake and the Navy plane took them out. Two days later, the dimple had disappeared: the water had run down a freshly opened crevasse.

For such adventures with the elements a man needs beef on his frame. Balchen is strong. He has fat on him to keep warm, but also muscle that tires younger men. The big fists with which he nurses his controls once went 20 rounds against Carpentier. He eats and drinks heartily and with northern tastes. On the *Leviathan* coming home from the Atlantic flight he ate eels five dinners out of the six. He enjoys dog biscuit and, in an emergency, dog. He is the picture of rugged health. His eye is clear as perfect blue ice.

But he has, as well, the kind of robust but almost poetic self-sufficiency of an aviator who has triumphed over the elements. Someone asked him once what there is to do in polar regions. He answered: "There are the stars and the ice and not knowing what year you will be back."

CONTINUED ON NEXT PAGE

To-day! Give yourself this exciting radiant *New 'Face-Do'*



Used By Many Of The Loveliest Actresses

You know how a chic new 'hair-do' perks up wilting beauty spirits! Well, if you're tired of a dull, drab complexion—just give yourself a thrilling new 'face-do' with Louis Philippe ANGELUS Make-Up.

This high quality ANGELUS Make-Up instantly spreads a glamorous beauty film over face and neck—giving you almost flawless skin beauty—such a healthy, alive, youthful look. ANGELUS expertly helps hide circles under the eyes, tiny wrinkles, blemishes and freckles. Doesn't dry the skin. 5 glorious shades.



Bewitching Leg-Allure!

ANGELUS Make-Up has an exquisitely fine texture. Notice how it spreads on so evenly and gives such a sheer-stocking effect. Water resistant. And so economical! You get two full ounces for only 97¢. At all cosmetic counters.

THE HOUSE OF

Louis Philippe

ANGELUS LIPSTICK—ROUGE—FACE POWDER—CREMES—MAKE-UP



Fowler
China 1942

CLAIRE CHENNAULT

The final tragic side of an airman in wartime is the fight. Having mastered his plane and all weathers, he must learn to kill and fly home again. Killing in the air is an intricate skill, and there is no greater student of it than Claire Lee Chennault.

There is little of the spit-and-polish soldier in Claire Chennault. If he struts, it is because he has a tense spine, bowed legs and a bitter spirit. During the Flying Tigers' early battles, when he was both studying and teaching tactics, he would go up into the control tower at Toungoo field dressed in a pair of shorts, a short-sleeved white shirt and a battered felt hat, and he would dictate to a stenographer his comments on each pilot's way of fighting. Later he would sit down with each man, like a colleague rather than a commander, and would rub out the soft spots and help make another perfect fighter.

This informal soldier is bitter because he has always had to fight for what he believed. As a young man he was appointed teacher in the toughest school in backwoods Louisiana. He believed in discipline and whenever the big Athens boys got obstreperous, Chennault asked them to step out into the yard. Soon order came to the school.

When he first applied for flight training, he was turned down with the comment: "Does not possess necessary qualifications to be a successful aviator." But within three months he had fought his way to acceptance.

As a military man, he has consistently gone to bat for the men of his command—but he has also fought against them when it seemed right. When 30 of his 34 AVG pilots handed in resignations in April 1941, because they felt they were being expended needlessly by Chennault, he called them in and said: "Under the Articles of War, the punishment for desertion in the face of the enemy is death. Think it over." They did.

His great work has been his fight for fighters—as opposed to bombers. He was the Billy Mitchell of pursuit. But his deafness made him resign from the Army in 1937, and it was not till he went to China as aviation adviser to the Chiangs and later formed the AVG that his theories proved themselves. Now the Army has taken him back and, whether they know it or not, fighter pilots all over the world learn Claire Chennault's bitter lessons. They learn the three basic Chennault rules:

Be flexible. Chennault taught his Flying Tigers one set of tactics when they opposed the Zero with the heavy P-40—essentially dive, squirt, pass, run. But he said: "If we had Zeros we would change our tactics and beat the Japs flying P-40s." And he would.

Be a team. Chennault's Men on a Flying Trapeze were such a team that they could tie their planes together with short lengths of string, take off, go through brazen maneuvers and land with the strings unbroken. In war Chennault devised the two-plane element rather than the V of three as the most efficient team.

Know your strength. In the bamboo barracks at Toungoo he would say: "Each type of plane has its strong points and weaknesses. The pilot who can turn his advantages against the enemy's weakness will win every time." Chennault used pencil and paper, blackboard and chalk, persuasion and the graceful hand movements of a pilot talking about planes to show his men their peculiar strengths and the enemy's weaknesses.

He fought the Army to put increased firepower in their two-gun fighters, but they would not give way until the Russians came out in Spain with four fixed guns firing synchronously through the shirring propeller. He fought for fighters dropping "frag" bombs on bombers. He fought for paratroopers, for more emphasis on marksmanship, for better warning systems in days before radar.

Like all really good fighters, Claire Chennault has a warm, gentle core. There was no rank in his AVG; there is no authority except excellence in his Fourteenth Air Force. He has seven children of his own, but Chinese poverty so moved him that he adopted several Chinese orphans. He is a good teacher because, having had a bitter fight in life himself, he is sensitive to other people's troubles.

But he is pugnacious, too, and he certainly looks it. One of his men was asked one day to describe his face. "He looks," the flier said, "as if he'd been holding his face out of a cockpit into a storm for years." The flier should have added that he was holding it out there to look for someone in the storm to fight with.



A treat in the heat
Tastes best, it's neat

says

DOROTHY LAMOUR

From leading colas in a test

Miss L. was asked to pick the best.

In paper cups she tried them all—

Yes! Royal Crown Cola got her call!

Dorothy Lamour

starring in

**"AND THE ANGELS
SING"**

A Paramount
picture



"SPEAKING OF HEAT," says DOTIE, "let's do our part and turn more heat on the Axis! Remember—each War Bond we buy brings victory that much closer. So let's get in the fight and buy more Bonds!"

**ROYAL CROWN
COLA**

BEST BY TASTE-TEST





CROWDS AT HYOE PARK CORNER STROLL AIMLESSLY INTO PARK ON LONG SPRING EVENINGS. THIS IS FAVORITE SPOT FOR AMERICAN BOYS TO MEET THEIR ENGLISH GIRLS. THEN

A GI AND HIS GIRL WALK ARM-IN-ARM AMONG THE SHEEP IN KENSINGTON GARDENS. GARDENS ADJOIN HYOE PARK

GIs LIKE TO SPRAWL FLAT ON THE GRASS FOR COMFORT





MOST OF THE COUPLES ROW ON THE SERPENTINE OR WATCH NEARBY SOFTBALL GAMES

ATTENDANTS FIND VERY FEW OF THE MEN RENT CHAIRS



A U.S. OFFICER AND HIS GIRL WALK BY THE SERPENTINE, A LONG AND SHALLOW POND IN THE HEART OF HYDE PARK



ANGLO-AMERICAN FRIENDSHIP IS FURTHERED BY BOY-AND-GIRL MEETINGS IN HYDE PARK

HYDE PARK

U. S. SOLDIERS FILL ITS LONDON LAWS IN SPRING

To ordinary Londoners, Hyde Park has always been a wonderful place of big trees and crisp green lawns where they could rent chairs for twopence and sit all day in the sun. To socialites the park provided London's most fashionable bride path, Rotten Row, where early-morning exercise and the latest gossip could be obtained at the same time. To those with axes to grind, the park corner near Marble Arch was a neutral ground where open-air speakers could attack the government or expound the benefits of free love or anarchy or a vegetarian diet.

This spring American soldiers have all but taken over Hyde Park. Most of the boats on the broad Serpentine are rowed by boys from Connecticut or Kansas, and a census of the park's 364 acres would probably turn up more male inhabitants from the 48 states than from all the shires of England. Soldier pickup teams play softball on the velvety lawns. Their skill and their cries of "Kill the umpire" have deeply fascinated Britishers, who have been told by the immensely influential London *Times* that they should take up baseball as a national game.

In one way Americans have not changed Hyde Park. Always in spring, young couples have walked under its elms. This spring American boys and British girls stroll there and sometimes kiss before all men in England turn to stern tasks of war.

JINX FALKENBURG AND JESS BARKER IN "COVER GIRL,"
NEW COLUMBIA PRODUCTION IN TECHNICOLOR



Jinx Falkenburg —the Charm of her Hands

Charming hands like Jinx's can be cultivated—and easily.

"I have the simplest, loveliest way of caring for my hands," says Jinx Falkenburg. "And it does help prevent skin-roughness and that *too-old* look."

Jinx Falkenburg uses Jergens

Lotion—the famous hand care that's practically professional.

You know the way many doctors help grater skin become soft and smooth? They apply 2 special ingredients, which are both in your Jergens Lotion. And Jergens never feels sticky.

Favorite Hand Care with Hollywood Stars is Jergens Lotion, 7 to 1



JERGENS LOTION

FOR SOFT,
ADORABLE HANDS

Hyde Park (continued)



HYDE PARK'S PATHS ARE FILLED WITH STROLLING COUPLES LIKE THIS ONE



TWO AMERICANS DISPLAY THE ART OF JITTERBUGGING FOR THEIR FRIENDS



AN ENGLISH ATS AND EIGHTH AIR FORCE SERGEANT ENJOY A BLISSFUL KISS

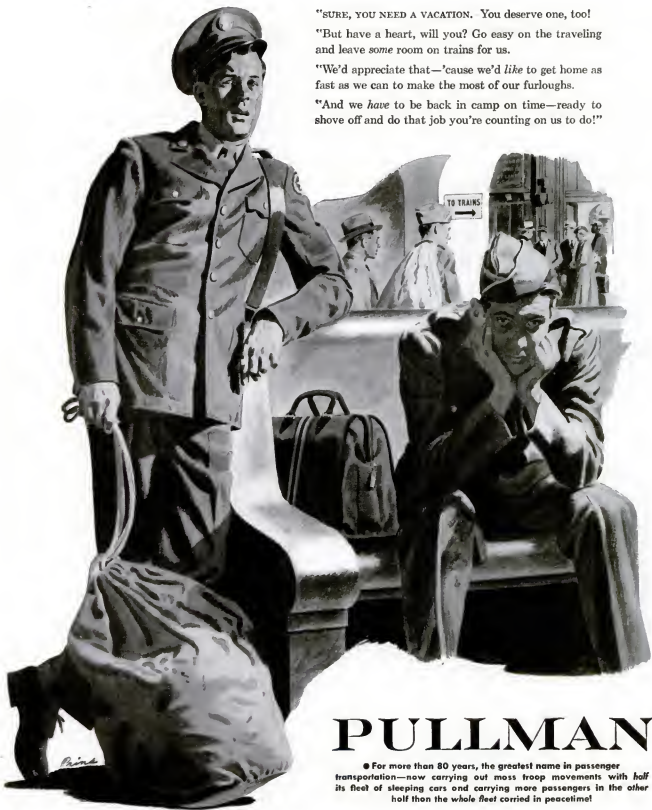
"Have a Heart, Pal!"

"SURE, YOU NEED A VACATION. You deserve one, too!

"But have a heart, will you? Go easy on the traveling and leave some room on trains for us.

"We'd appreciate that—'cause we'd *like* to get home as fast as we can to make the most of our furloughs.

"And we *have* to be back in camp on time—ready to shove off and do that job you're counting on us to do!"



PULLMAN

● For more than 80 years, the greatest name in passenger transportation—now carrying out most troop movements with half its fleet of sleeping cars and carrying more passengers in the other half than the whole fleet carried in peacetime!

BUY an EXTRA WAR BOND with what your trip would cost!



Nine planets of solar system are modeled by ball bearings for comparison of sizes. Scale is shown by Earth (7,913 miles

in diameter). White arcs on orbits. This model-diagram fails to convey the sense of vast open spaces between planets in

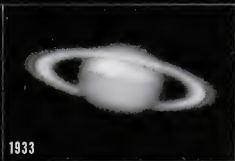
solar system, indicated by the scale in astronomical units at left. Astronomical unit is mean distance from Earth to sun.



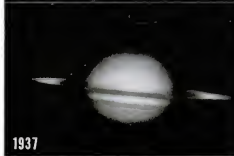
1912



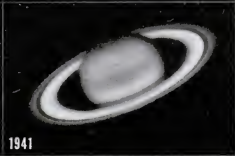
1921



1933



1937



1941

Saturn and its rings are seen in various phases from above, edge on and below. These photographs were taken during

four decades by E. C. Sliipher of Lowell Observatory. Rings are only about 10 miles thick and almost invisible edge on

SOLAR SYSTEM

IT IS MODELED IN MINIATURE BY SATURN, ITS RINGS AND NINE MOONS

The pictures in color on the next two pages take you on visit to the planet Saturn. Starting at Phoebe, Saturn's tiniest and most distant moon (top, left, opposite page), the pictures show the changing aspect of Saturn and its satellite family as it would appear to a traveler hopping toward the planet from moon to moon. These astronomically accurate pictures are enlivened by no more than reasonable fancy in the detail of satellite landscapes which show in their foregrounds. Photomontage paintings, they were made by Chesley Bonestell, Hollywood miniature-set designer and amateur astronomer.

The handsomest and second largest planet, Saturn is itself a small-scale model of the solar system. Its brilliant rings are composed of rocks and dust, revolving at high speed in the plane of the planet's equator. They are similar to the band of asteroids and stellar rubble that revolves about the sun between Mars and Jupiter. Corresponding to the sun's nine planets, nine moons revolve in Saturn's gravitational thrall. They vary in size like the planets and pursue elliptic orbits.

The nine planets are shown above in correct proportion, arranged according to the distance of their orbits from the sun. The planets are not, however, shown in the same scale in which their orbits are shown. So immense are the distances of outer space that, in true scale, even Jupiter and Saturn would be nearly invisible. The sun, shown above simply as a point, has a diameter 10 times that of Jupiter.

The planets group naturally into two classes, the four inner terrestrial planets and the four outer giants, with Pluto a remote leftover. The terrestrials, crowded close to the hot sun, include Earth and resemble it in size and density. There is, furthermore, overwhelming evidence that Mars harbors life. The giants, strung out in the absolute cold of space, are composed largely of superheated gases enveloping comparatively small rocky cores and attended by satellites much like Earth's moon. On pages 83 and 84 are some extraordinary photographs showing the individual characteristics of seven of the planets.



From Phoebe, the smallest and outermost (8,000,000 miles away) of its satellites, Saturn appears size of Earth's moon. Eight other satellites are visible in a line with Saturn's ring.



From Iapetus, which is 2,825,000 miles from planet, Saturn shines brightly by daylight over a bleak landscape. This satellite has a diameter of 2,000 miles, about that of Earth's moon.



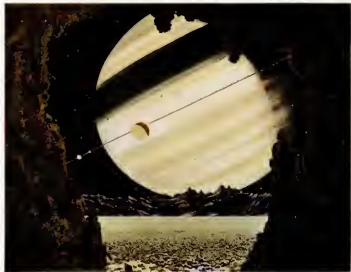
From Titan the sky seems blue instead of black because Titan is only satellite which has an atmosphere to give color to the sky. Here Saturn appears in its "new" phase, like a new

moon. Largest of the satellites, Titan has a diameter of 3,000 miles (Earth's is 7,900). It is 771,000 miles from its planet and was first satellite to be discovered—by Huyghens in 1655.

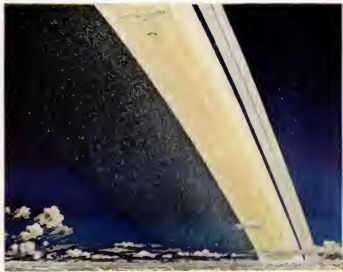


From Mimas, innermost of the satellites, Saturn looms immensely over the horizon. Mimas, which is only 600 miles in diameter, is 117,000 miles from the planet. The big shadow lying

across Saturn's surface is cast by its ring. Small shadow at lower left is thrown by one of the other satellites. Shadowy figures on Mimas are purely imaginary, put in to give scale.



From Dione, through lava-cone opening, the rings show as thin line throwing a big shadow. Dione has diameter of 1,100 miles, is as far (238,000 miles) from Saturn as moon from Earth.



From Saturn its rings shine as three bands of light. Dark gap divides exterior band from middle band. Interior ring seems hazy. Clouds are probably composed of ammonia crystals.



"NEW ENGLAND CHURCH" BY PERRARD LAFLETTE. PAINTED FOR THE DE BEERS COLLECTION

From Hill and Vale and City Street

Listen, the bells sing unafraid a song of love and spring and many marriages—triumphant over winter, weariness, and war. Up village church and great cathedral aisles young couples pace the slow, traditional footsteps of their forebears with a glorious new vision of the future in their eyes. The memory of her wedding service in her own church is the young bride's greatest assurance to carry into that future. Her first, most precious talisman the engagement diamond that has held the shining promise of the years ahead set in its crystal depths since time began.

De Beers Consolidated Mines, Ltd., and Associated Companies.

Facts About Diamonds: These are average current prices for unmounted quality diamonds, including federal tax. (The exact weights shown occur infrequently.) Size alone does not determine diamond values. Color, cutting, brilliance and clarity have an equally important bearing. You should have a trusted jeweler's best advice at all times when buying diamonds.



Industrial Diamonds—a key priority for high-speed war production—come from the same mines as gem stones. Millions of carats are used in United States industries today. The occasional gem diamonds found among them help defray production costs for all these fierce little "fighting" diamonds. Consequently, there are no restrictions on the sale of diamond gems.

WHEN YOUR BUDGET BEGINS TO PINCH



Beat your budget! And still enjoy the best of meat. Shop at your A&P Super Market...where your food dollars buy more!

WHEN YOU'RE RACING AGAINST TIME



Hubby's home-coming on a busy day won't fluster you...if you shop in one stop...on their store...your handy A&P Super Market!

WHEN YOU WONDER WHAT TO SERVE



You'll find hundreds of meal suggestions of your A&P Super Market. Because six complete food departments offer all your needs, you get ideas galore!



1 OF 6: In the big complete Coffee Department of your A&P "Super", you'll find America's favorite—A&P Coffee. Preferred for its finer, fresher flavor, A&P Coffee is sold in the fresh bean—then Custom Ground for your coffeepot at the moment you buy; to protect vital freshness. This is only 1 of 6 big food departments... all complete to meet the wartime food needs of your family.

A&P's ability to give consumers exceptional value for their money is the key secret of A&P's growth from a single "tea store" to "Grocer to a Nation"...

A&P does endless things to bring its customers more and better food for their grocery dollars. To mention but one, many of the good things to eat your A&P offers are made in its own factories, plants, canneries, and bakeries. And they are marketed in a direct "bee-line" route from producer-to-you. Thus, many expenses of handling and transportation are cut from their cost...and the savings are shared with you.

For good eating...and savings...millions agree "It's time to turn to A&P!"

WHEN YOUR FAMILY CRAVES CAKE



HERE'S JUST THE STEP TO TAKE

Step into A&P's Baked Goods Department for a rich and flavorful Jona Porter Layer Cake. Like all A&P EXCLUSIVE FOODS, these tender, wholesome creations bring you A-1 quality of modest prices...

• Jona Porter Cakes and Doughs
• Marvel Enriched Bread & Rolls

• 33 Ann Page Foods

• White House Evaporated Milk

• Maytag, Healer and Our Own Lard

• Eight O'Clock, Red Circle and Baker Coffees

• **dash** Shortening

• Sunnyside Hams & Smoked Meats, and many other fine, exclusive foods.



Copyright, 1944, The Great Atlantic & Pacific Tea Co.

PICTURES SHOW EVIDENCE OF LIFE ON PLANET MARS

The photographs of Mars (*below*) present evidence that points to the existence of life on Mars. Mars has an atmosphere which is almost stratospherically thin but it contains oxygen. The advance and retreat of polar caps suggests that the atmosphere also contains

water. Temperature range on Mars is within the extreme tolerances of life as it flourishes on Earth. Given this environment, it is logical to conclude that the vast regions on Mars that change from green to brown in seasonal cycles are covered by vegetation.



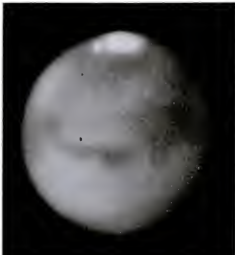
Atmosphere obscures the surface of Mars by scattering the blue wave lengths in the sun's light as Earth's blue sky does.



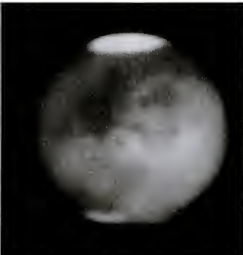
Surface of Mars is visible in picture taken with a haze-cutting filter. Dark areas vary in season from green to brown.



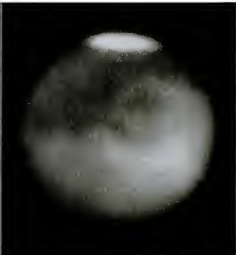
Dark area has spread out to arrow in picture taken in 1939. Compare with the area indicated in the 1907 picture at left.



Polar mountains, covered by what is probably snow, can be seen as an isolated white patch at left of larger polar cap.



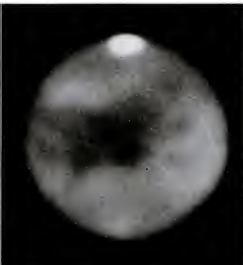
An autumn storm makes a big white patch near the north pole (at bottom in picture, because telescope reverses image.)



Patch has vanished near the north pole two days later, persuasive evidence that the patch was large cloud formation.



South polar cap (*top*) is shown in late winter. Since Mars is tilted on its axis, we see south pole but cannot see north.



Arrival of summer in southern hemisphere is indicated by shrinking of polar cap. Note intensification of dark areas.

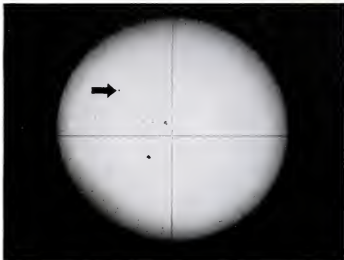


In Martian summer polar cap dwindles to a point. Lighter areas are the reddish deserts that give Mars its ruddy color.

CATALOG OF PLANETS SHOW INDIVIDUAL PECULIARITIES

Shown here are photographs of the sun and six planets, completing inventory of Earth's most important near neighbors. Mercury and Venus, revolving between Earth and sun, go through phases like that of Earth's moon. These two, with Mars, Jupiter and

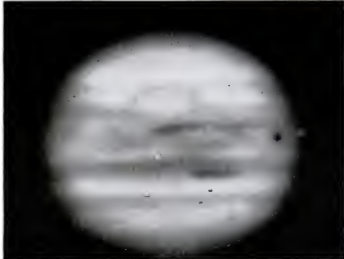
Saturn, are the "bright" planets, familiar to man since the earliest times. Uranus was first identified by telescope in 1781. Neptune and Pluto were both predicted by mathematical calculation from the laws of gravity long before they were seen by human eye.



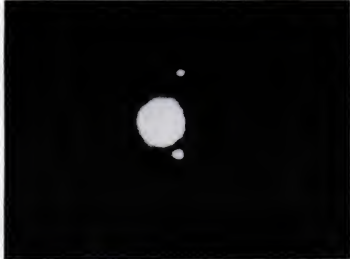
Tiny Mercury, here "eclipsing" the sun, appears as a black dot (arrow) on sun's face. The relative size of sun and its planets is clearly demonstrated. Other markings are sunspots.



Phases of Venus, from full at upper left to "new" at lower right, are shown here. At full, Venus is most distant from Earth and appears smallest. Atmosphere is made of formalddehyde.



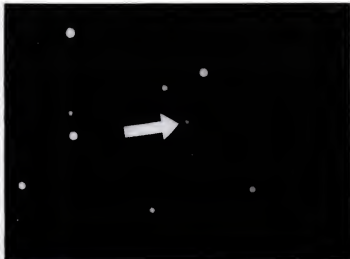
Jupiter here appears with one of its 11 moons, casting shadow on planet at right. Horizontal pattern of turbulence in its atmosphere results from high speed of the planet's rotation.



Uranus and two of its four moons appear in this picture. Unlike other planets, Uranus' rotation and its moons' revolutions about it are at right angles to plane of their orbit around sun.



Neptune has one satellite. Atmospheres of the four giant planets are composed largely of methane (marsh gas) and ammonia. All are flattened at poles by extreme rotation speeds.



Pluto, most distant planet, is seen as a tiny dot even in best telescopes. The first two letters of Pluto are initials of Percival Lowell, who published its mathematical prediction in 1914.

CONTINUED ON PAGE 86



BUT WAR BONDS AND STAMPS

The last jar on the shelf!

"This hasn't been an easy year for anybody. But it's been some easier for us because of the things we raised and put up last summer. . . . Working together was fun and we lived better all winter. I'm glad we've got an even bigger garden now."

When Americans buckle down to do a job, they usually get results that surprise everybody — including themselves!

Last year's gardens are a good example. Some 20 million families tilled about 4 million acres of ground and harvested 8 million tons of food. They whittled down the country's total food bill by at least \$1,250,000,000 — an average of \$62.50 a family.

Even though the national diet may have been limited, think how much worse it would have been without this home-grown help! And for 1944, the need is even greater. We've eaten as well as we have only by drawing heavily on reserve stocks that must be replaced. Our expanding armed forces and the peoples of freed lands will call for more food, too.

But if the need is greater, so is the opportunity. Seeds, tools and fertilizer are more plentiful. Experience gained last year will make this year's gardens more productive. And Uncle Sam expects several million more families to learn for themselves the satisfaction of growing and eating their own food.

Dedicated to the wider use and better understanding of dairy products as human food . . . as a base for the development of new products and materials . . . as a source of health and enduring progress on the farms, and in the towns and cities of America.



NATIONAL DAIRY
PRODUCTS CORPORATION
AND AFFILIATED COMPANIES

Often
IMITATED
but never
DUPLICATED!

Jockey
NO-GAP
Y-FRONT
CONSTRUCTION



THE SOURCE
OF SUPPORT



© 1977 Jockey Brand, U.S. Pat. Off.

Jockey wearers who have been forced by shortages to try substitutes say, "Never again!" The main reason is that the mild, comfortable support of Jockey's patented Y-front construction has never been duplicated by imitators, and the difference is obvious the instant you are induced to try any other brand. Then, too, Jockey's seams are located where they can't bind or chafe. And Jockey's soft, knitted fabric stretches correctly with body movements. That's why, if your dealer is temporarily out of Jockey Underwear, you'll find it well worth while to wait until a new shipment comes in.

Jockey Underwear

EST. U.S. MAR. 1877

Coopers INC.
KENDSHA WISCONSIN

NEW YORK CHICAGO LOS ANGELES SAN FRANCISCO SEATTLE
Made and distributed in Canada by Maxwell, Hamilton, Ont. In Australia by Spence
Karting Mills, Pty. Ltd. Sydney. In Britain sales by Lyle & Scott, Head House, London.
In New Zealand by Love Water-Butcher, Ltd., Christchurch, N.Z.



Short Midway Over-Knee Long

Solar System (continued)



Halley's comet, last seen in 1910, was Jerusalem's "Fery sword" in second century A.D., will be back in the sky in 1986. Comet's head consists of meteoric particles; also dust and gas pushed outwards by sunlight to form a tail millions of miles long.

COVER THE HOME FRONT, THIS VACATION!



DEVOTE your vacation
To serving the nation,
No matter how slackers may sneer...

Stay home and refresh
Some household possession—
The mountains will wait till next year!



YOURS FOR VICTORY—THE 5 CROWNS

(Lightness, Smoothness, Richness, Flavor,
Body—but NO TOUGHNESS)



Seagram keeps the
TOUGHNESS OUT
... blends extra
PLEASURE IN



For Pre-War Quality... Say Seagram's and be Sure

THE FINER
Seagram's 5 Crown

APPLE "HONEY" and Freshness go together Like Love Birds



You want fine tobacco, of course. But you want it *fresh!* And that's where Apple "Honey" is important. Apple "Honey" is the nectar of luscious apples. It helps hold in the natural freshness of Old Gold's fine tobaccos.

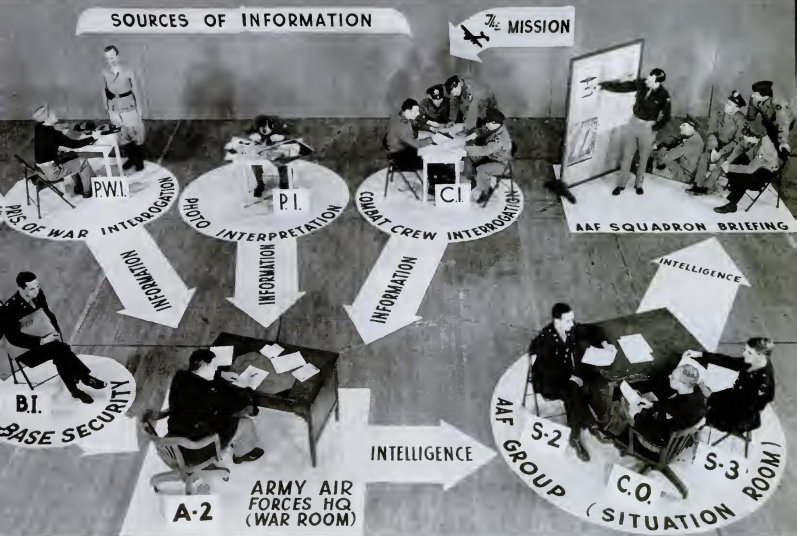
"Something new has been added" to these tobaccos. It's Latakia, a costly imported leaf that gives richer flavor.

Try Old Golds and see why they have won a million new friends.

Buy more War Bonds than you think you can afford!

OLD GOLD

LISTEN TO: Bob Crosby and His Orchestra, Sun. Evenings, NBC. Also The Old Gold Show, Wed. Evenings, CBS Network.



THE CYCLE OF AIR INTELLIGENCE BEGINS WITH THE MISSION ITSELF, CIRCLES BACK THROUGH AAF HEADQUARTERS, FINISHES WITH THE SQUADRON BRIEFING FOR ANOTHER MISSION

AIR INTELLIGENCE

SCHOOL TEACHES U. S. OFFICERS HOW TO LEARN ABOUT ENEMY

While allied troops in England prepare to make the biggest landing in history, the U. S. Strategic Air Forces commanded by Lieut. General Carl Spaatz (see cover) is already fighting history's biggest air battle. In fleets and layers of fleets planes batter German industry, airpower, communications, morale, even tactical invasion targets on the French Channel coast. It is a war of strength against strength, but it is also a war of brains.

The brain of an air force is the massed total of all the information available to it. Just how clearly this brain thinks depends on how much it knows. Facts about its own forces come easily. The trick is to get

facts about the enemy. The business of getting facts about the enemy—where he is, how strong he is, what he is doing, what he is capable of doing—is the function of air intelligence. Naturally it is not possible to show precisely how U. S. air intelligence works in action. But these pictures, made in the Army Air Forces Air Intelligence School which was formerly at Harrisburg, Pa. and is now at Orlando, Fla., show what air intelligence officers learn and how they use it.

Air intelligence is a cycle which begins and ends with the individual flier. As shown in animated diagram above, combat intelligence starts at end of a mission (arrow, rear). Intelligence officers get informa-

tion from three principal sources: prisoners of war, aerial photographs, eyewitness accounts by combat crews. All this, with the data from other fields, moves up to air force headquarters (foreground) where fragments of information are assembled into coordinated intelligence. The man at the left labeled Base Security is merely a precaution to keep secrets from the enemy. Intelligence is sent from the air force headquarters to group headquarters (circle in right foreground) where it is coordinated by intelligence officer (S-2), group commander and operations officer (S-3). Finally it is explained to the fliers in squadron briefing (right rear) for use in another mission.

STUDENTS OF THE AAF AIR INTELLIGENCE SCHOOL ATTEND A SAMPLE BRIEFING. THE INSTRUCTOR STANDS WHERE THE INTELLIGENCE OFFICER WOULD BE IN THE ACTUAL BRIEFING





SIMILAR BOMBERS are the German Ju 88 (left) and British Mosquito. In side view, the tails and noses look different.



FROM THREE-QUARTERS view Ju 88 (left) and Mosquito are most easily distinguished by shape of engine nacelles.



FROM FRONT OR BACK Jap Sally (left) and U. S. Martin B-26 are told apart by bodies, upswep B-26 tail surfaces.

MODELS SHOW BEST WAYS TO SPOT PLANES

Although intelligence officers seldom fly on combat missions, many of the things that they are taught at the Air Intelligence School are special combat knowledge, normally needed only by fliers. Just about the most important of these is aircraft recognition, a primary lesson which most civilian spotters have forgotten but which airmen never finish studying. One of the duties of the intelligence officer is to teach recognition of both allied and enemy planes to his fliers. In order to teach it well he first masters the subject himself. In 21 classroom hours he must learn how to identify any one of 15 standard combat planes, and learn so thoroughly that recognition will become an instantaneous reflex. And while he learns recognition, he also learns the methods of teaching it.

Shown at the left is one of the simplest and most effective recognition training devices. Unlike many of the complex machines which are used to teach fliers, it can be set up by one man at any airfield. Its main virtue is that it can reproduce the silhouettes of planes approaching from all possible angles. How this factor of different approaches complicates the life of the airman may be seen in the recognition problems which appear at the top and bottom of this page and in the pairs of different silhouettes of the same planes which are shown at the center of the opposite page.



INSTRUCTOR MAKES SILHOUETTES BY MOVING MODELS QUICKLY ACROSS SHADOWGRAPH SCREEN WITH A STIFF WIRE



RECOGNITION POINTS VARY with position of plane. This is a Japanese Kate, spotted by the wing and nose shape.



SILHOUETTE OF SAME PLANE is distorted from different angles. In the view above, the wing appears swept back.



IN THIRD POSITION the wing appears swept forward. By allowing for this distortion, fliers can identify the plane.

AIRACOBRA



MARAUDER



MUSTANG



ME. 210



CORSAIR



STUKA—SIDE VIEW



STUKA—PLAN VIEW



MITCHELL



THUNDERBOLT



ZERO—SIDE VIEW



ZERO—FRONT VIEW



FLYING FORTRESS



ME. 109 G



JU. 88—ABOVE



JU. 88—BELOW



HAVOC



MOSQUITO



SPITFIRE—PLAN VIEW



SPITFIRE—SIDE VIEW



LANCASTER



LIBERATOR



FOCKE-WULF 190



WARHAWK



LIGHTNING





INTERPRETATION OF RECONNAISSANCE PHOTOGRAPHS is taught by the use of topographical models. By models translating photographs into three dimensions, students are taught the principal problem of photo-interpretation, which is to identify three-dimensional objects ap-

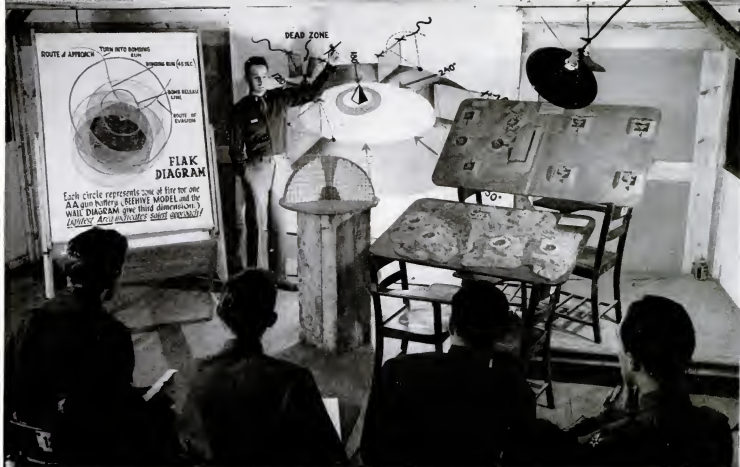
pearing in two dimensions on photographs. In this class model at left translates photographs (right) so that students may see exactly what appears in it. Although photo-intelligence officers are specialists, all students at Air Intelligence school get short course in photo-interpretation.



MAP OF HAMBURG bombing objectives, made by student from photographs, is checked by instructor. These maps, called "overlays," show what student can identify from photographs. This one, made from photographs on the wall, indicates factories, railroads, airfield, shipyards.



MODEL OF NARVIK AREA is made in the Air Intelligence School visual-aids department. These models, made from photographs, are used to train photo-interpretation classes such as the one on the opposite page. Its fine detail includes coastal guns, wrecked buildings, submarine nets.



ANTI-AIRCRAFT LECTURE is given in combat intelligence section. Chart at the left shows pattern of shell bursts thrown up by entire batteries defending one point. Instructor is explaining diagram on wall which shows relation of antiaircraft fire patterns to plane's bombing run. Bee-

hive-like device on stand in center is used to plot three-dimensional area covered by a single shell burst. At the right are models which demonstrate two different antiaircraft emplacement systems. The lower model is typical Japanese battery, upper shows German system at Ploesti.

FIRST FACTS ABOUT ENEMY ARE ON MAPS

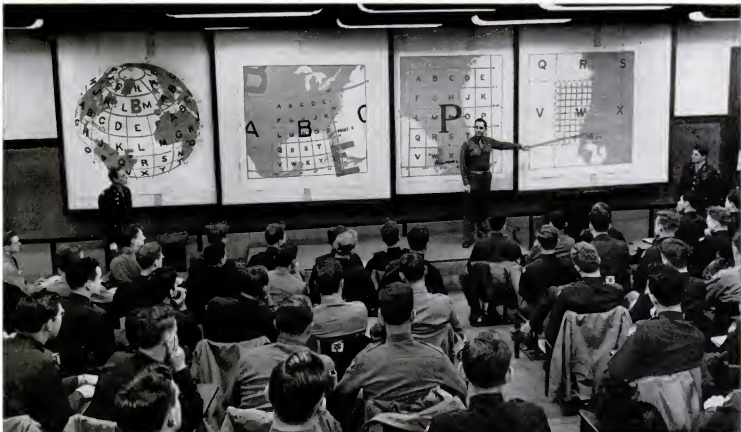
One of the greatest of intelligence's invasion jobs in both the Atlantic and Pacific theaters has been the mapping and constant remapping of all air and ground invasion sectors. Maps are frequently the framework of air intelligence. They locate enemy centers and establish points of departure for getting more detailed information. Air intelligence, however, also collects the facts necessary to make maps and keep them up to date. New enemy works and positions are plotted on maps from details assembled by all intelligence sources.

Good maps often make the difference between success and failure in air operations. One of the many jobs of air intelligence is to provide a vast multiplicity of them, from detailed operational maps to simple charts. Each flier must have a full visual grasp of where he is going and what he is expected to do. Intelligence men must learn to read maps fluently, not only to understand the nature of enemy ground, but to teach this understanding to their fliers.

The Army Air Forces use a number of new methods in making maps for aerial operations. One departure is air defense grid system, which breaks earth's surface down into squares within squares and grids within grids, so that the tiniest point may be located. This system, illustrated below, is handier for air operations than coordinates of latitude and longitude, because it provides large grids for broad strategic purposes and small grids for locating areas as small as a city block.



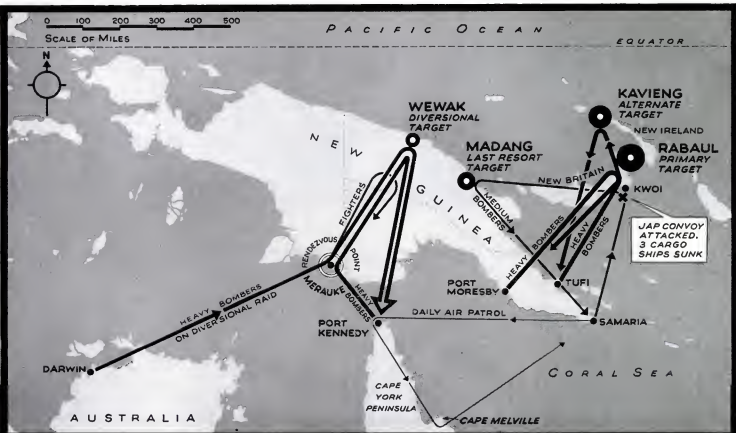
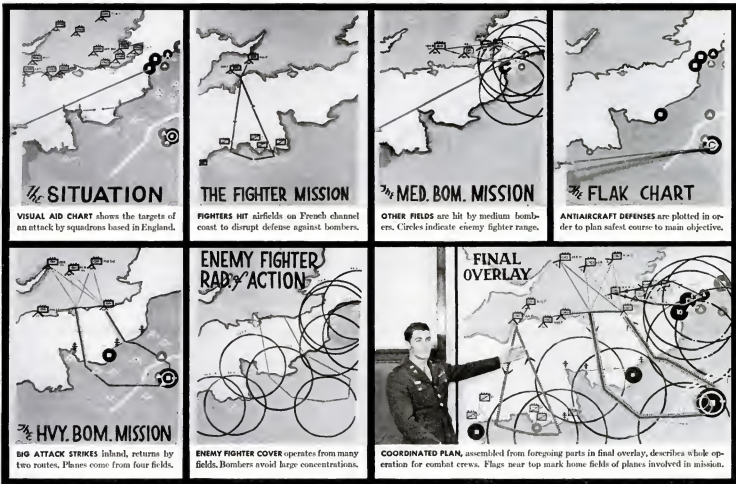
USING PROJECTOR, TWO INTELLIGENCE SCHOOL STAFF OFFICERS MAKE QUICK WORK OF TRACING AND ENLARGING MAP



AIR DEFENSE GRID SYSTEM cuts the earth into squares within squares. These maps locate "Point X" in Florida. "Square

"B" on globe is broken down into smaller squares on next map. Here "Point X" appears in "Square P." When "P" is broken

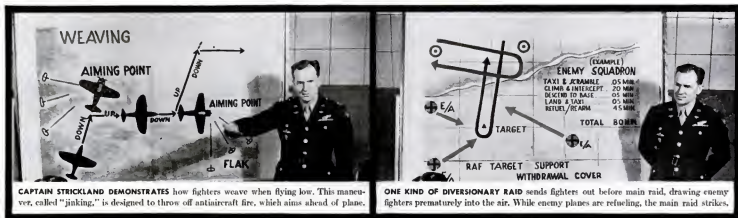
down "Point X" is in "Square W." In final chart exact location in "Square W" is determined by numbered coordinates.



SCHOOL MAP PROBLEM shows the routes, bases, objectives of coordinated air operations in the southwest Pacific. First at-

tack, after rendezvous over Moresby, makes diversion at Wewak. Main attack hits Rabaul from Port Moresby, returns by

same route. Third bombs Rabaul from Tuafi, goes on to bomb Kavieng and returns. Fourth attacks convoy, bombs Madang.



CAPTAIN STRICKLAND DEMONSTRATES how fighters weave when flying low. This maneuver, called "jinking," is designed to throw off antiaircraft fire, which aims ahead of plane.

ONE KIND OF DIVERSIONARY RAID sends fighters out before main raid, drawing enemy fighters prematurely into the air. While enemy planes are refueling, the main raid strikes.

VETERANS TEACH PLANE TACTICS

Because most modern air tactics have been developed in battle, the men who have seen action teach them at the Intelligence School. One of the veterans is Captain Harold H. Strickland, who flew 14 months with the RAF's famous Eagle Squadron, compiled 197 combat hours, fired the first shot of the Dieppe air battle.

Air tactics are developed by everyone in air forces, particularly combat fliers. The intelligence officer must learn his tactics well so information he gathers and gives out in the field will have sound, practical base. As a practical man he also learns how to keep his own information out of enemy hands (see the page opposite).



TWO BOMBER FORMATIONS are the javelin and the combat box. Formations are mainly designed for defensive firepower against fighters. Combat box is most often used in Europe.

FIREPOWER OF FORMATION is shown in graphic statistics. Single enemy plane attacking from front would be hit by 4.58 tons of metal per minute if each bomber fired two guns.



DIAGRAM OF ROCKET ATTACK and plane-to-plane bombing shows how tight formation is vulnerable to these weapons. The open formation, however, is prey to close fighter attack.

MAIN TACTIC IN FLAK AREA is to make straight bombing run for shortest possible time. Before and after run, planes take evasive action to upset enemy antiaircraft fire control.



MULTIPLE OPERATIONS CHART shows movements of more than 1,000 planes in two hours. Operations are an interlacing pattern of raids, diversions, interceptions and covering sorties.

FIGHTER ESCORT TACTICS depend largely on combat range. Bombers are protected by shuttles of fighters with different ranges. Some fighters fly over 1,000 miles, others about 450.



BASE INTELLIGENCE OFFICERS, WHO GUARD AGAINST
ENEMY INTELLIGENCE, BURN CONFIDENTIAL PAPERS



Oscar Hammerstein and Richard Rodgers (*at piano*) are the most successful song-writing team working today. Their first collaboration, *Oklahoma!*, won a special Pulitzer award for them. Here

the composer and lyricist are planning next fall's musical version of *Lilam*, adapted from the play by Molnár. Behind Hammerstein is Lemuel Ayers' painting of famous *Oklahoma!* backdrop.

OSCAR HAMMERSTEIN II

He emerged from shadow of a famous grandfather
to write the librettos for enduring musical shows

by FRANCIS SILL WICKWARE

When the Pulitzer Prize Committee deliberated this year about its annual awards it found no play worthy of the prize for theater. However, the committee was so impressed by a musical show, *Oklahoma!*, that it made extraordinary decision to award it a special prize. Oscar Greeley Clendenning Hammerstein—better known as Oscar Hammerstein II—who wrote the libretto and lyrics for the show, was recuperating from an emergency appendectomy when he heard about the Pulitzer decision. The award of \$500, which he shared with Richard Rodgers who wrote *Oklahoma!*'s music, would scarcely pay his hospital bill. Nevertheless the news had a decidedly tonic effect. It also was a distinct consolation.

Notwithstanding the fact that Hammerstein has been writing hit shows and hit song lyrics for more than 20 years, and is one of the highest paid authors in the world, he always has had a vague feeling that his various musical collaborators have received most of his credit for their joint productions.

"Back in 1913 I did *Wallflower* with Vincent Youmans, so it was a Youmans show," he says. "In 1924 I did *Rose Marie* with Rudolf Friml, and that was a Friml show. I did *The Desert Song*, *The New Moon* and *May Wine* with Sigmund Romberg. All Rombergs, of course. Jerry Kern and I have written *Sunny*, *Show Boat*, *Sweet Adeline*, *Music in the Air* and *Very Warm for May*. Are any of them Hammerstein shows? No, they're Kern shows, and of course *Oklahoma!* is a Dick Rodgers show because he did the music."

In the course of writing show librettos, Hammerstein has turned out several hundred song lyrics, a fair proportion of which are nearly as familiar as Mother Goose to millions of people the world over. A respectable number have distinct claims to immortality. This certainly is true of the score of *Show Boat* (*Oh! Man River*, *Why Do I Love You?*, *Makin' Believe*, *Can't Healy Lovin'*, *Dar Man*, etc.) which ranks with the best of Stephen Foster, and it almost certainly is going to be true of the score of *Oklahoma!* (*Oh, What A Beautiful Mornin'*, *The Surrey With The Fringe On Top*, *People Will Say We're In Love*, etc.) which Hammerstein confidently expects will be running into the 1950s. In addition he has a highly durable property in *Carmen Jones*, a modern version of Bizet's opera *Carmen* with an all-Negro cast and a contemporary American libretto set to the original score. The success of this novel experiment in modernizing old masterpieces probably will start a cycle of similar productions. Hammerstein intends to spend the summer writing an adaptation of Ferenc Molnar's play *Lilium*, with Richard Rodgers composing the score, for late-season production by the Theater Guild.

Money, needless to say, is a shoddy consolation for the true artist who feels that he has not been properly recognized, but Hammerstein makes out handsomely. *Oklahoma!*, for example, is sold out months in advance in both New York and Chicago where the National Company is playing, and between the two cities has a weekly gross of about \$60,000. On a \$60,000 average gross, 8% goes to the authors—1% (\$600) to Lynn Riggs, author of *Green Grow the Lilacs* from which *Oklahoma!* was adapted, and 3 1/2% (\$2,100) per week to both Richard Rodgers and Oscar Hammerstein. In the case of *Carmen Jones*, Georges Bizet's music is in the public domain. Hammerstein gave *Carmen Jones* to Mrs. Hammerstein as a present. She receives a straight 5% of the \$43,000 weekly gross—a matter of \$2,150.

This year the team of Rodgers & Hammerstein splits a fee of \$100,000 from 20th Century-Fox for the book and score of a forthcoming screen musical based on Phil Stong's novel *State Fair*. Hammerstein draws a comparatively small but steady income from revivals of old shows, especially *Show Boat*, rights to which cost \$2,500 for a two-week performance. Finally, he has an annual income of \$13,000 from A. S. C. A. P., the American Society of Composers, Authors and Publishers, where he has the top rating of AA. This represents broadcast and public-performance royalties (but not sheet music or record sales) on all Hammerstein songs to date. Many of his old hits, written in the '20s, have been continuously popular. Besides the *Show Boat* songs these include *Who,*



"Oklahoma", Hammerstein's adaptation of *Green Grow the Lilacs*, is making musical history. In it he wrote story of happy cowboys and country girls who lived in an earlier America.



"Carmen Jones" is Bizet's *Carmen* transposed by Hammerstein to a Georgia defense plant. Hammerstein's biggest hit, unless *Oklahoma!* outlasts it, was his unforgettable *Show Boat* (*John*).



CONTINUED ON NEXT PAGE

See? It's easy for anyone to make a perfect cup of coffee . . . anytime . . . every time . . . just use Nescafé.



A teaspoonful — In a cup ☺
Add hot water ☺ It's ready ☺

A quick cup of FULL FLAVORED COFFEE —that's Nescafé

FULL FLAVORED, because in Nescafé all the aroma and flavor of freshly roasted coffee are "sealed in" by added carbohydrates, a distinctive process developed by Nestlé's. In Nescafé, all the fragrance, goodness and stimulation of fine coffee are preserved for you, roaster fresh, until released in your cup.

And Nescafé is so easy to prepare... a coffee extract, powdered for your convenience, it saves so much time and work. There's no coffee maker to get ready or to clean, no grounds to dispose of. Each cup is made to individual taste, always delicious, always the same.

Nescafé is economical, too, especially so as you make only the amount you want... you get all the advantages of Nescafé for about 1¢ per cup.

THE ARMED FORCES
CONTINUE TO TAKE
NEARLY ALL
THE NESCAFÉ WE
MANUFACTURE.

Small quantities are
available for civilians
... and grocers have
Nescafé occasionally.



NESCAFÉ (PRONOUNCED NES-CAFAY) IS A
NESTLÉ PRODUCT, COMPOSED OF EQUAL
PARTS OF SKILFULLY BLENDED SOLUBLE
COFFEE AND ADDED CARBOHYDRATES
(DEXTRINS, MALTOSE AND DEXTRULOSE)
ADDED SOLELY TO PROTECT THE FLAVOR.



AWARDED SUNBURY NESCAFÉ PLANT

NESTLÉ'S MILK PRODUCTS, INC. • NEW YORK, U. S. A.



His family is complicated but congenial. L. to r.: Jimmy, Mr. and Mrs. Hammerstein's son; Mrs. Hammerstein and her daughter, Susan, Mr. Hammerstein and his daughter Alice.

HAMMERSTEIN (continued)

Lover Come Back To Me, When I Grew Too Old To Dream, Wildflower, Why Was I Born?, The Song Is You, Rose Marie, Indian Love Call, One Alone and All The Things You Are. All are "show songs." Each was written to order, as an integral part of a particular libretto. Hammerstein does not write lyrics haphazardly, nor does he have a "trunk" of random lyrics for possible future use. Just once in his career a situation affected him so strongly that he sat down and spontaneously produced a song. That was *The Last Time I Saw Paris*, a week after the Germans captured the city. With music by Jerome Kern, it became a hit in 1940 and made something like \$75,000 for the authors. Hammerstein remarks, "I was so depressed by what was happening that I couldn't keep my mind on the show I was doing. I got it off my chest by writing that lyric."

At the age of 48, Oscar Hammerstein looks totally unlike a man who has spent most of his life writing song lyrics and musical librettos. He stands 6 feet 1½, weighs about 200 pounds and is massively constructed. He has a strong resemblance to Babe Ruth, except that his nose is smaller and more elegantly shaped. In a red turtle-neck sweater you would take him for a prizefighter. His head is large, his neck thick and his shoulders imposing. The pugilistic effect is heightened by his face, which is deeply furrowed below the eyes, and has a curious, battered appearance below. This, however, did not result from fistcuts, but from a severe case of acne which plagued him as a youth.

Hammerstein's family is a fairly intricate one. Both he and Mrs. Hammerstein, the former Dorothy Blanchard of Melbourne, Australia, have children by previous marriages. William Hammerstein, 25, now is a petty officer 1/c in the Navy. Alice, 22, recently married Michael Byrne, petty officer 1/c.

Mrs. Hammerstein first came to the U. S. in 1924 as a member of the cast of *Charlot's Revue*. In 1929 she married Hammerstein, and presently the family was enlarged by the addition of Jimmy Hammerstein, now going on 13 and with ambitions of becoming a composer. Mrs. Hammerstein also has two children dating from a former marriage—Henry and Susan Jacobson. Henry, 18, is taking a Navy V-12 course at Duke. Susan—whom Playwright Mark Connelly refers to as "the eyesore"—is a spectacular-looking girl of 16 and, given a couple of years, should be eligible for pin-up honors. She is attending school in New York and expects next year to commence a stage career.

With this brood at his heels, it is fortunate that Hammerstein is devoid of the neuroses and eccentricities commonly encountered in the theatrical and musical worlds. He is a solid family man who drinks sparingly, uses tobacco not at all and enjoys nothing so much as a good night's sleep. In New York, where perforce he spends about a third of his time, social and professional demands are such that prolonged snoozing usually is out of the question. He spends many evenings at the theater, and is under strong pressure from friends who wish to entertain him. Hammerstein weakly accepts most in-

CONTINUED ON PAGE 182

Things a good secretary must do

now that service repair men and new equipment are hard to get



1 Repair men are scarce. Every month more go into uniform. From now on your typewriter is your problem.



2 For example, even a simple, little thing like covering your machine when not in use can prolong its life.



3 Even if you're loaded down with lots of extra work these days... care of your machine is *important*.



4 There are some things you should do each day. Brushing dirt away from typebars is one... and remember—



5 ... be sure to brush erasures and dirt on the typebars towards the front of your machine.



6 Use a brush like this and regular cleaning fluid for cleaning typebars. Moisten brush slightly, rub gently.



7 If you want clear, sharp letters that please the boss and customers, clean type daily. It takes just a jiffy.



8 You can easily clean the carriage rails by moving carriage to extreme left... then reverse operation.



9 And while you're at it, why not remove the rubber roller and brush away the accumulated dirt?



10 If you clean rollers with cloth slightly moistened with cleaning fluid, you will prevent paper slipping.



11 Incidentally, you can save your roller by inserting two sheets at a time. New rollers are mighty hard to get.



12 And when erasing, move carriage to extreme ends to keep dirt particles from falling into the machine.



13 When changing ribbons be careful... jiggle or tap them lightly. Never force them on the shafts.



14 Never, never oil your typewriter. Leave that for the service man when he comes to make a major repair.



15 Sales of new L C Smiths are restricted by W.P.B. We urge you to care for your machine.

SMITH-CORONA
Typewriter Service

Gross  Plans

—Office Managers and Executives notes
Reprints of this advertisement, in quantity, for
distribution to your typists are available from
our branch offices... or write us direct



"Look! Here's a gift we'll get twice"

"See this card? It's from Irene and Bill... with a War Bond now for a *Toastmaster* toaster later. And then, just think!... we'll have honeymoon breakfasts all over again."

That's a bright solution for a real problem. Naturally, there aren't any *Toastmaster** toasters to be had nowadays... our Army-Navy "E" flag, with its added star, means we're making sterner stuff. And you are patriotically buying War Bonds... What better use could you possibly find for *one* of them?

To add brightness to your gift, send with it the card pictured in miniature below. The actual card, handsomely engraved and ready for your signature, is yours for the asking. Write for it—Toastmaster Products Division, Dept. A, McGraw Electric Co., Elgin, Ill.



Write for This Card

TOASTMASTER toasters

REG. U. S. PAT. OFF.

*"TOASTMASTER" is a registered trademark of TOASTMASTER PRODUCTS DIVISION, McGraw Electric Company, Elgin, Ill. Copyright 1944, McGraw Electric Co., manufacturers of Blue Electric Fuses, Clark Electric Water Heaters and Toastmaster Products.

HAMMERSTEIN (continued)

visitations, but says that as a general rule he'd rather stay home and go to bed.

Besides the regular routine of writing librettos and dealing with the considerable problems of his professional affairs, Hammerstein has a good many peripheral responsibilities. With the amiable Dick Rodgers, he is partner in a newly formed music-publishing company—the Williamson Music, Inc., so called because both men's fathers were named William. He is a vice president and director of A.S.C.A.P., a member of the Council of The Authors' League, a member of the Screen Writers' Guild and the Writers' War Board, Chairman of the War Music Committee of the American Theatre Wing, a group organized to unearth good war songs, and a member of the Council of the Song Writers' Protective Association, whose high purpose it is to see that deserving composers and lyricists like Rodgers and Hammerstein do not get gyped by leeching music publishers like Rodgers and Hammerstein. Hammerstein also belongs to the Lambs' Club, and until lately he washed dishes every Thursday night at the Stage Door Canteen, where Mrs. Hammerstein and Susan serve as senior hostess and junior hostess, respectively.

Despite his impressive current earnings (at least four-fifths of which go to the Treasury, he points out) Hammerstein is a rather frugal individual. He carries little cash with him and often gets stuck without taxi fare. The price of suits in New York he considers outrageous and he maintains a phenomenally ancient wardrobe. Formerly he had suits made in London at \$66 apiece, and he deeply resents paying \$150 for comparable garments over here. Hammerstein also dislikes men's hats. In New York he grudgingly wears an old fedora, but the only hat he ever enjoyed was a high gray topper he bought in England to wear to the races. He thinks this bit of head-gear gives him a rakish look, and he sometimes tries it on and admires himself in the mirror. But he is too timid to wear it publicly in New York.


When not in New York or out on the West Coast, Hammerstein is in residence on his farm at Doylestown, Pa. where he settled four years ago after quitting Great Neck, L.I., on account of excessive property taxes. At "Highland Farm," the Doylestown establishment, he grows wheat and alfalfa and is rearing a herd of black Aberdeen Angus cattle. One of these skittish creatures was delivered in a van last Christmas Eve, wearing a huge red ribbon with a card from Billy Rose. Mr. Rose is the producer of *Carmen Jones* and the gift cow appropriately was christened "Carmen."

On the farm Hammerstein begins his day at 8 o'clock. After breakfast he retires to a cozy study on the second floor, and works until one o'clock luncheon. The study looks out over an expanse of countryside, and here Hammerstein wrote nearly all of *Carmen Jones* and

CONTINUED ON PAGE 101



Fabulous Oscar I, grandfather of Oscar II, made and lost a fortune in show business. He is shown here with plans for Manhattan Opera House, greatest fiasco of his career.



When is a man's life insurance "All Set"?

"MY BIRTHDAY has never meant much more than any other day to me. But this year, after the 'surprise' party my wife and the children always have for me, I found myself... well, 'taking stock,' I guess you'd call it.

"Looking back, I felt life had been pretty good to us; but I was a little surprised to realize how many times our circumstances had changed since Helen and I were married.

"I remember when we decided to buy this house. We were on top of the world. Then the year during the depression when we barely made ends meet; and the winter Helen's father died and we had to add her mother to our family of four. I couldn't help wondering what Helen would have done had anything happened to me.

"Looking ahead, I tried to picture my family if this should turn out to be my last birthday. George

is just starting high school; Joan is in sixth grade.

We're still paying off the mortgage. Without knowing a business or trade, how would Helen prepare herself to get along without my support and still hold her home together?

"Suddenly it struck me that I hadn't taken a good look at my life insurance for some time. I had considered it 'all set.' But was it? My responsibilities have grown. Times have changed. I decided to find out."

IT'S IMPORTANT to review life insurance regularly—even in the most stable of times.

But never has the need been more urgent than it is now.

For not only must life insurance be kept current with the changes that normally arise in every family; but today it must also be planned to fit the circumstances imposed upon you by a changing world.

When you review your life insurance with a John Hancock agent, you get the benefit of his company's

80 years of experience—in peace and war, prosperity and depression—fitting life insurance to the needs of people in all income groups.

This experience covers the protection of the home and family; the education of children; safeguarding of War Bonds and other investments; retirement; in fact, every circumstance to which life insurance is applied.

Why not make sure your life insurance meets

your current needs by getting the trained counsel of a

John Hancock agent?



NOW! THIS AMAZING NEW 8-VITAMIN, 9-MINERAL TABLET TAKES THE PLACE OF ALL LESS POTENT PREPARATIONS



1 Stams Tablets Meet All U.S. Gov. Minimum Requirements For Vitamins For Which Requirements Have Been Set, Namely A, B₁, B₂, C, D.

2 Stams Also Give You Niacin, 2 Additional B Complex Vitamins and 9 Minerals.*

3 Stams Meet Multi-Vitamin Principle Approved by Official Committee of Doctors.

COMPARE STAMS WITH 4 OTHER POPULAR BRANDS

X indicates Vitamins and Minerals present in daily dosage quantities that meet or exceed minimum adult daily requirements of U.S. Government.

YOU GET MORE	STAMS	OTHER BRANDS	1	2	3	4
VITAMIN A	X	X	X	X	X	X
VITAMIN B ₁	X	X	X	X	X	X
VITAMIN B ₂ (B ₁₂)	X	X	X	X	X	X
VITAMIN C	X	X	X	X	X	X
VITAMIN D	X	X	X	X	X	X
IRON	X	X	X	X	X	X
IODINE	X	X	X	X	X	X

Also—these vitamins and minerals: (X)

NIACIN	X	X	X	X
VITAMIN B ₆	X	X	X	X
CALCIUM	X	X	X	X
PANTOTHENATE	X	X	X	X
CALCIUM	X	X	X	X
PHOSPHORUS	X	X	X	X
COPPER	X	X	X	X
ZINC	X	X	X	X
MAGNESIUM	X	X	X	X
MANGANESE	X	X	X	X
COBALT	X	X	X	X

Stams Contain 80% More Different Vitamins And Minerals Than Any Of These 4 Leading Brands.

ON SALE AT ALL DRUGSTORES
X 100s \$4.95 50 Tablets, \$6.95
X 100s \$9.95 250 Tablets, \$4.48

FULL POTENCY GUARANTEED INCLUDING 3 VITAMINS OF THE B COMPLEX

NOW at last! One of the world's largest producers does for vitamins and minerals what Henry Ford did for the automobile: banishes guesswork, high cost.

An amazing new vitamin tablet containing 8 vitamins and 9 minerals that takes the place of less potent vitamin preparations for the average person.

Made to sell at a price millions can afford. This new invention is called Stams Multi-Vitamin and Mineral Tablets. Full vitamin and mineral potency is guaranteed as stated on the package. Or your money back.

If you are not up to par because your diet lacks vitamins and minerals, Nature can give you more vitality and pep with Stams.

Stams cost less than 5¢ a day to take in the economy size—less than 1/4 the price of cigarettes. Get Stams at drug or department stores. Take three tablets daily. You'll be glad you did.

*3 Stams per day supply not only the full minimum daily requirements of Vitamins A, B₁, B₂, C and D, but also that of Iron and Iodine, 1/2 the Calcium, 1/2 the Phosphorus and 1/2 of Niacin. Also 2 additional B Complex vitamins and 1 other mineral, the most for which no human restriction has not been established, but considered important by many authorities.



If you are not up to par because your diet lacks Vitamins and Minerals... NATURE CAN GIVE YOU MORE VITALITY AND PEP WITH STAMS



Distributed by Pharmaceutical Division, Standard Brands Incorporated

HAMMERSTEIN (continued)

Oklahoma! He is not prone to hot flashes of inspiration but it is a steady, methodical, consistently prolific fellow, punctual to the day in delivering material. Generally he turns out a complete libretto, with song lyrics, in six to seven months, with the average libretto running to approximately 15,000 words or thereabouts.

Songs sometimes come to him complete at the first writing but more often he fuses over them for days before he gets what he wants. He spent three solid weeks on the brief lyric of *When I Grow Too Old To Dream*. "I thought I'd reached that age myself by the time I'd finished it," he remarks. On the other hand, he set a speed record by writing *Oh, What A Beautiful Mornin'*, from *Oklahoma!*, in one hour flat. Conscientious about details, he worried about the line, "The corn is as high as an elephant's eye, An' it looks like it's climbin' clear up to the sky." He was gazing at an August cornfield from the study while doing the lyric, and first wrote, "The corn is as high as a cow pony's eye. . . ." This would have been more in the spirit of the *Oklahoma!* libretto, which deals with the period when the Indian Territory became a state. However, the corn seemed to stand taller than a cow pony's eye, yet not so tall as a giraffe. Hammerstein finally settled on an elephant. His impulse was to go out and measure the corn with a tape measure and check with the Philadelphia Zoo on the dimensions of the average elephant, but he decided that this would be running it into the ground.

Hammerstein has no set rule about the precedence of words or music. No matter what the order of writing, the perfect song is one in which music and lyric are inseparably blended, with each word so well matched to the corresponding note that any change would spoil the effect. He has no formula for achieving this rare combination, however.

"In writing show songs you always are guided by the meaning and direction of the libretto. A good show song isn't just something pretty you stick in as an excuse for some singing and dancing—it has to be a definite part of the plot. Some people think that musical shows are written to a formula, with a song coming regularly every five minutes, something like that. But it isn't true at all. Your songs are placed and spaced according to the story. If they help tell the story and carry the show along, they're good. Otherwise, they don't belong. To illustrate, *Oklahoma!* begins with a cowboy walking out onto the stage and singing *Oh, What A Beautiful Morning*, against a brightly lighted background of fields in the sunshine. It's unusual for a show to begin that way, but *Oklahoma!* is a happy kind of a story. It makes people feel good. And *Oh, What A Beautiful Mornin'* is a happy song. It sums up the mood of the whole performance and tells the audience, 'Come on, relax and have fun. Everything's going to be swell for a couple of hours.' And they do. You couldn't possibly get the same effect with dialog, avoiding the boy say, 'Gee, it's a swell day. I'll bet something nice is going to happen.'"

He is a product of the theater

If Hammerstein's children follow their present ambitions, they will become the fourth generation of a great musical and theatrical dynasty. Since 1865, when Oscar Hammerstein I, Hammerstein's grandfather, emigrated from Berlin to New York at the age of 16, all Hammersteins have been in or of the theater. Hammerstein's brother Reginald is general stage director of the *Oklahoma!* companies. His cousin, Elaine Hammerstein, used to be a star in silent pictures. His cousin, William Hammerstein, was a vaudeville producer. His uncle, Arthur Hammerstein, started in the plastering and general-contracting business but, in the family tradition, became a noted musical comedy producer. And Grandfather Oscar Hammerstein I—who is supposed to have occupied more newspaper space during his lifetime than any other American except Theodore Roosevelt—is one of the legends of Broadway's gaudiest era. Short and rambunctious, he wore an outside top hat of peculiar shape which became a personal trademark, and never was seen without a big cigar. In vaudeville and light opera he made millions which he squandered in extravagant productions of grand opera without benefit of subsidies—an acknowledged impossibility. "The word 'opera' was a nightmare to everyone in the family," Oscar Hammerstein II recalls. "Grandfather was obsessed by his dream of making grand opera a popular form of entertainment—not only in New York, but in Boston, Philadelphia and other large cities. He made quite a few important inventions used in cigar manufacture—he had his first job in that business—and sold the rights to them, one after the other, to pay for the opera. One of his variety theaters, the *Victoria*, was a regular gold mine, but he took all the profits and spent them on his productions at the Manhattan Opera House. Lots of times he didn't have enough money to meet

*Copyright 1955 by WILLIAMSON MUSIC INC., NEW YORK CITY
SOLE SELLING AGENT: EVERETT HOUSE CORP., NEW YORK CITY

CONTINUED ON PAGE 107



These are the Americans we serve today

Here are your sons who quietly stow their civilian clothes in mothballs to step into the garb of fighting men . . . your daughters who give up the pleasures of home to join their brothers in uniform.

Here, too, are your friends and neighbors who are working with you shoulder to shoulder . . . turning out munitions, producing food, buying War Bonds . . . men and women who keep the home fires burning and the home front strong.

These are the Americans intercity bus lines serve . . . and at the rate of more than 950

million passengers in 1943 . . . *more intercity passengers than were carried by any other form of public transportation.*

True, this achievement has called for some sacrifice of the comfort and convenience that made bus travel so enjoyable in peacetime.

But it's only for a while. And to the millions of passengers who are accepting wartime conditions with a smile, our sincere thanks . . . and a promise. *As sure as victory, travel as you like it, over America's scenic highways, will come again . . . better than ever!*

Buses keep highways at work for industry

In 1942, more than half of all passengers who used public carriers for intercity travel depended on buses. † With but 26% more buses in use than in 1941, 145% more passengers were carried in 1943 . . . approximately 1500 passengers per seat, per year! † Intercity buses deliver from 2,000 to 7,000 passenger miles for each pound of rubber consumed and 160 passenger miles for each gallon of fuel, thus making a major contribution to the nation's program of conserving vital war materials.

An irreplaceable wartime service

Specializing in the movement of manpower, intercity bus lines have relieved other transportation facilities of an overwhelming load . . . making it possible for them to perform their special wartime tasks. † Along 350,000 miles of strategic highways, 21,400 intercity buses serve wartime America . . . reaching the smallest villages and the largest cities . . . serving thousands of communities that have no other means of public travel. *This vital transportation must be kept strong and equal to its tasks.*

Intercity Buses Are Doing a War Job Only They Can Do . . . Carrying War-Busy Millions Who Must "Get There" by Highway



WAR WORKERS. In America's busy war plants, workers depend on buses for daily highway transportation.



FIGHTING MEN. Over the nation's great highway system, buses directly serve all principal military camps.



INDUCTEES. From hometown to induction centers, buses carry the great majority of men called up for service.



FARMERS. By intercity bus, thousands of workers answer the call of our farmers for help in their fields.

MOTOR BUS LINES OF AMERICA

NATIONAL ASSOCIATION OF MOTOR BUS OPERATORS, WASHINGTON, D. C.

our distilleries are devoted to the production of alcohol for war use by the government



... may I urge you to hold on to
all the War Bonds you buy.

I.W. Harper



Distilled in peace time and Bottled in Bond
under the supervision of the U. S. Government.

it's always a pleasure

I.W. HARPER

the gold medal whiskey

since 1872



Kentucky Straight Bourbon Whiskey, Bottled in Bond, 100 Proof, Bernheim Distilling Company, Inc., Louisville, Kentucky

the opera payroll, so on Saturday nights he would dash to the *Victoria* and make my father, who ran the theater, hand over all the cash in the box office."

The elder Hammerstein's genius as an impresario was largely frustrated by his own erratic temperament. Given to violent rages over real and fancied insults, he twice wrecked all chances of succeeding with his opera plans out of sheer bad temper. The first time was in New York, when the Manhattan Opera was providing expensive competition for the old, heavily subsidized and hidebound Metropolitan Opera. Mrs. Clarence Mackay, a great society belle-wether of the day, had become interested in the new company and had persuaded many wealthy friends to subscribe for Hammerstein's opera. So tremendous was the value of her patronage that when she asked to borrow the opera orchestra and several leading singers for a home musicale, Hammerstein made them available "with his compliments"—free of charge. After the concert, Mrs. Mackay gave presents to all the artists, but no gift was sent to Hammerstein. He brooded about this for a while and finally sent Mrs. Mackay a letter telling her to stay away from the Manhattan Opera House in the future. She not only stayed away herself, but worked on her friends to cancel their subscriptions, which most of them did. It was the beginning of the end for the Manhattan.

The same thing happened later in London when Hammerstein ruined the prospects of his opera there by insulting Lady Cunard, who—like Mrs. Mackay in New York—was in a position to make or break him. At one performance Lady Cunard and the King of Portugal were sitting in a box, and it seemed to Hammerstein that they were making too much noise. Instead of sending an usher around with a polite request to quiet down, Hammerstein wrote a note ordering the offending pair out of the opera house immediately.

Hammerstein became widely celebrated for his repartee which usually consisted of personal insults. Once he quarrelled with one of his conductors who walked out saying, "You'll never get another conductor like me." "No," Hammerstein called after him. "But if I ever want another like you, I'll go up to the Eighth Avenue car barn." Another time, he fired a minor employe, who retaliated by calling him a "buffoon." "You don't mean buffoon, you mean 'buffet'," Hammerstein retorted. "You've been eating off me for five years."

College dramas started his career

The legend of Grandfather Hammerstein completely overshadowed the rest of the family. Oscar Hammerstein II adopted the "It" partly because of the legend, but mostly because of his real middle names—"Greely Clendinning." "Those names would blight any theatrical career," he observes. "My father and mother eloped when he was 21 and she was 18. They hired a horse and buggy—not a surrey with fringe on top, unfortunately—and drove up to Westchester County where they were married by a preacher named Dr. Clendinning, a friend of my mother's parents. His wife witnessed the ceremony and she was a daughter of Horace Greeley. So that's the way it started."

Hammerstein was born in Manhattan in 1895 and grew up in the city. He never yearned for the country until years later, when he had children of his own, and denies that his New York childhood warped his character, corroded his soul, soured his outlook, stunted his growth, or had any evil effect whatever. On the contrary, he had an exceptionally happy, uneventful childhood and in 1912 entered Columbia University.

Hammerstein's father at that time was so harassed by the gyra-

CONTINUED ON NEXT PAGE

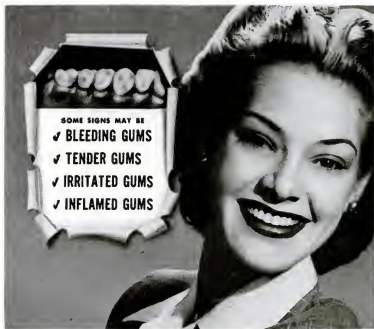


At Board Meeting of A.S.C.A.P., (American Society of Composers, Authors and Publishers), Hammerstein helps fix members' share in earnings. He is in the top bracket.

SABOTEUR

of handsome teeth and firm gums—

GINGIVITIS



May Creep Up On 4 OUT OF 5 Without Warning!

Take action *at once* if your gums bleed a little when you brush your teeth or are sensitive to touch.

These may be the first warning signs of Gingivitis—a common gum inflammation—which if ignored—often leads to Pyorrhea with its soft, receding gums and loosening teeth, which only your dentist can help.

Make it a point to see your Dentist every 3 months. Then at home massage your gums twice daily with Forhan's Toothpaste—one of the very best ways to help guard against Gingivitis.

Used and Recommended By Many Dentists For Over 30 Years

Forhan's—the formula of Dr. R. J. Forhan—is the FIRST and ORIGINAL toothpaste for both massaging gums to be firmer—more able to ward off infection—and for cleaning teeth to their natural sparkling lustre.

How refreshed and invigorated your gums feel—how bright and clean your teeth look!

Now don't delay. Start using Forhan's Toothpaste *tonight*. Results should thrill you. At drug, dept. and 10¢ stores.



use **Forhan's**
with massage
FOR FIRMER GUMS—CLEANER TEETH



cool shaves

WIN THE CROWN FOR COMFORT!

ARE burns and stings the foes of your tender chin? Then lather up with cool, cool Ingram's. For Ingram's lather sends tough beards down for the count—soothes, helps

condition your face for smooth shaving. Yes, and that Ingram's coolness lingers on, long after the "decision." In jar or tube, Ingram's helps deliver a clean, comfortable shave.

Products of Bristol-Myers



IN JAR
OR TUBE

Ingram's

SHAVING CREAM

HAMMERSTEIN (continued)

tions of Grandfather Hammerstein that he made young Oscar swear that he wouldn't go into the theater. Instead he wanted him to have a substantial career as a lawyer. Hammerstein promised, and worked two summers in a law office and went through one year of Columbia Law School. But William Hammerstein died in 1914 (leaving Oscar an income of \$50 per week) and Hammerstein shortly went out for the Columbia Players production *On Your Way* in which he had a small part. Next he played in *Peace Pirates*, a travesty on Henry Ford's "Peace Ship" expedition and a year later collaborated on the book of *Home James*. This, he says, was stolen bodily from about four Broadway hits which the authors had the foresight to visit before writing their book.

Hammerstein married in 1917 and then quit law school. He had pretty well made up his mind to become a writer, largely because of encouragement by Carl Van Doren and other members of the Columbia English Department. First he approached his uncle Arthur Hammerstein, then one of the most successful musical-comedy producers on Broadway, and was advised to spend a year studying stage techniques before attempting to write a show. This, he says, was the best advice he ever got from anyone. As assistant stage manager of several of Arthur Hammerstein's shows, he hung around backstage with a little black book and made careful notes on everything that went on. Once he was standing in the wings and saw an actor remove a smudge of mascara from a chorus girl's eyelid and rub it on his ankle, to cover a hole in his sock. This went into the notebook with the comment, "Most ingenious."

The actors' strike of 1919 suspended all production activity on Broadway and gave Hammerstein time to write *Always You*, his first musical play. He read the book aloud to his uncle and brought along the composer, Herbert Stothart, who laughed so uproariously that Arthur Hammerstein decided it must be funny and agreed to produce it. *Always You* had indifferent success in New York but did reasonably well on the road, and Hammerstein's next show, *Tickle Me*, became a minor hit. His first really big hit was *Wildflower*, which he wrote with Otto Harbach, Vincent Youmans and Herbert Stothart and by the end of the '20s he had collaborated on seven shows, each of which ran more than a year on Broadway. At one time 19 road companies were playing *Show Boat*, *Sunny*, *Rose Marie*, *The New Moon*, *The Desert Song* and *Sweet Adeline* in different parts of the world.

He was a failure in Hollywood

After this brilliant start, Hammerstein had a 10-year lull down which dated from the introduction of sound pictures. There was a great rush to produce musical films, and with Sigmund Romberg Hammerstein went to Warner Brothers to do four pictures: at \$200,000 apiece. The first, *Vivienne Nights*, was disappointing and the second, *Children of Dreams*, was so poor that it never was released. Warner found it prudent to abandon plans for the last two pictures, and bought up Hammerstein's contract.

Returning to Broadway, Hammerstein found that somehow he had lost his touch: He brought in *Free for All*, which cost him \$750,000, and followed with *East Wind*, another flop. A third offering, *Quateman Unafraid*, was charitably forgotten after a dismal week in St. Louis. Hammerstein spent a year writing *Music in the Air*, which had a good run but made little money. *Very Warm for May*, produced in 1939, contained the hit song *All The Things You Are*, but otherwise was unprofitable. Between times, Hammerstein fidgeted in Hollywood, where he worked for practically all the major studios. A few of his pictures were good—notably *Swing High*, *Swing Low*, and the screen version of *Show Boat*—but on the whole he considers himself a washout in Hollywood. However, in *State Fair* he thinks he may have a possible hit to make up for past failures. He was on the point of taking the script to Hollywood, intending to do more work on it, when appendicitis developed. So he mailed the script instead of delivering it in person, and 20th Century-Fox liked it so well that it will go into production virtually without change.

The current upswing in Hammerstein's career started in 1942 when a Hollywood friend loaned him a copy of *Green Grow the Lilacs*, by Lynn Riggs. Hammerstein read the book at one sitting and sensed immediately that it would make a great musical. By pure coincidence it happened that identical thoughts were in the minds of the mentors of the Theater Guild, in New York. Richard Rodgers was signed up by the Guild to do the music and Hammerstein was delighted to undertake the book and lyrics. The pair worked through the summer and fall of 1942, Hammerstein on the farm at Doylestown, Rodgers on his farm in Connecticut. There was a great deal of telephoning back and forth, with Hammerstein reading lyrics to Rodgers and Rodgers playing tunes to Hammerstein. Once a week the collaborators met for lunch in New York, but Hammerstein says that

YESTERDAY...TODAY...TOMORROW

A Great Name

Gordon's Gin

100% Neutral Spirit Distilled from Grain

54.4 PROOF • GORDON'S DRY GIN CO., LTD., LONDON, NEW JERSEY

CONTINUED ON PAGE 11

Do more than before
BUY EXTRA BONDS NOW



DRUGS
alone can't correct
heart trouble



GLASSES
alone can't correct
faulty vision

**From The AMERICAN Plan
for Better Vision**

*These professional services are worth infinitely more than the cost of the material in the glasses themselves.

EXAMINATION: Professional examination for possible pathological eye conditions.

REFRACTION: Scientific measure of your ability to see.

PRESCRIPTION: Carefully prepared professional conclusions and the proper instructions necessary to correct your vision.

INTERPRETATION: Careful technical and scientific compounding of the exact materials of your prescription.

FITTING: Scientific, minute adjustment of your prescription to your eyes.

RE-EVALUATING: Verification of the refraction and the prescription.

SERVICING: Assurance that the requirements of your prescription are being consistently maintained.

Copyright, 1944, U.S.A., by American Optical Company

If you thought you had heart trouble, you wouldn't depend upon drugs alone to pull you through. You'd seek professional advice and depend upon your doctor to prescribe for your needs. If drugs were required, you'd expect your pharmacist to compound the prescription with skill and with ingredients of unquestionable quality.

And you'd expect, too, that your doctor's fee would be based on his professional knowledge and ability — not on the drugs he prescribed.

But are you just as wise about your eyes? If you thought you had eye trouble, would

you say, "Guess I'd better buy a pair of glasses"? If you ever find yourself reasoning that way, remember this.

Glasses alone can't correct faulty vision. Their value to you depends entirely upon the professional skill with which your eyes are examined and refracted—your glasses prescribed, fitted and serviced.*

So go to your Ophthalmologist, Optometrist, Ophthalmic Dispenser for the professional skill and service that your priceless sight demands.

Invest in eye care — not glasses at a price.

SEEK PROFESSIONAL ADVICE
— not glasses at a price

American Optical
COMPANY



WARTIME SHORTAGES have limited the supply of Aqua Velva. Long the preference of gentlemen everywhere—the world's most popular after-shave lotion—there is now less Aqua Velva available to meet a constantly growing demand.

Avoid waste. Since there is no real substitute for Aqua Velva, we suggest you use it carefully. Cool as a mountain brook, just a few drops after shaving leave your skin tingling and refreshed... feeling softer and smoother. Clean, bracing scent.



A FEW OF THE MEMBERS

- ALBERT SPALDING
- Maj. GEORGE FIELDING ELIOT
- BROCK PEMBERTON
- ELY CULBERTSON
- JAMES THURBER
- LUCIUS BEEBE

FATHER'S DAY—JUNE 16th

"TO MY PAL"

KREISLER LADIES' AND MEN'S JEWELRY—\$5 TO \$20

Made by master craftsmen and stylists long identified with the manufacture of the finest in platinum and diamond jewelry.

KREISLER
JEWELRY *Creations*

SOLD ONLY THROUGH JEWELERS

HAMMERSTEIN (continued)

all of *Oklahama!* could have been written by telephone if they had wanted to do it that way.

Carmen Jones, the other current Hammerstein hit, had its beginnings during a period of idleness a number of years ago. He often had thought of adapting Bizet's *Carmen*, because he regards it as a masterpiece of plot and construction as well as score, and says it is a perfect model for would-be librettists and composers to study. This may well be because Bizet first wrote *Carmen* as an *opéra comique*, not as grand opera.

In creating *Carmen Jones* Hammerstein kept the original plot of *Carmen* virtually intact and did no tampering with the score except to eliminate the tedious recitative passages. The locale he shifted from Spain to wartime U.S.A. and turned the Spaniards into American Negroes. The original *Carmen*, cigarette-factory worker, became *Carmen Jones*, seductive parachute-factory employee. Hammerstein's lyric for Bizet's *Habanera* is titled *Dar's Love*:

*One man gives me his diamond stud
An' I won' give him a cigarette.
One man treats me like I was mud
An' what I got dat man c'n get.*

Copyright 1945 by WILLIAMSON MUSIC INC. NEW YORK CITY
SOLE SELLING AGENT CHAPPELL & CO. INC. NEW YORK CITY

Coming on top of the phenomenal *Oklahama!*, the immediate success of *Carmen Jones* has made Oscar Hammerstein the man of the year in show business. But he was man of the year once before, when *Show Boat* made theater history, and he is under no illusion that this state of affairs necessarily will be permanent. On the contrary, in the 38th anniversary number of *Variety*, trade paper of the theater, he ran the following advertisement:

- Holiday Greetings
- OSCAR HAMMERSTEIN, II
- author of
- Sunny River*
(Six weeks at the St. James Theatre, New York)
- Very Warm for May*
(Seven weeks at the Alvin Theatre, New York)
- Three Sisters*
(Six weeks at the Drury Lane, London)
- Ball at the Savoy*
(Five weeks at the Drury Lane, London)
- Free For All*
(Three weeks at the Manhattan Theatre, New York)
- I'VE DONE IT BEFORE AND
- I CAN DO IT AGAIN

"People thought I was trying to be funny, or modest, when I put in that ad," Hammerstein says. "But that wasn't the idea at all. On Broadway, when you're good you're very, very good and when you're bad you're terrible. I'm the same guy I used to be, except now I've got hits instead of flops. The ad was just a gentle reminder that times change, and keep changing."



Jerome Kern and Hammerstein wrote five shows, most memorably *Sunny* and *Show Boat*. Kern now writes mostly for movies, has had no steady partner since Hammerstein.



May 2, 1944

Dearest Mom —

So old Bess has pups again! That reminds me of so much. She had her last litter two years ago — just about this time of year — when everything was so fresh and new. That's what I want to get back to, Mom! — what all of us are fighting to get back to — that world back home where a fellow can give the sort of welcome he ought to give to a litter of setter pups in the spring. To watch them grow up with all the other new, young things in a world that's bright and free.

Good old Bess! Put her sweet old head for me and tell her she and I have a date — some autumn day — to teach those youngsters of hers what bird-dog pups are look for.

God bless you all

Your loving son

Bill

V --- MAIL



HEAD OF THE BOURBON FAMILY



OLD GRAND-DAD



Each brilliant drop of Old Grand-Dad—mellow, smooth, gloriously good—is a toast to bourbon at its best. One taste will tell you why!

BOTTLED IN BOND AT FULL 100 PROOF • NATIONAL DISTILLERS PRODUCTS CORPORATION, NEW YORK



JERRY FLYNN, BRILLIANT BUT BANKRUPT THEATRICAL PRODUCER, CONSOLES HIMSELF WITH PRESS BOOK OF PAST HITS AS HIS THIRD SUCCESSIVE FLOP OF SEASON CLOSES

MOVIE OF THE WEEK:

Once Upon a Time

Amusing fantasy makes national celebrity out of Curly, a dancing caterpillar who lives in a shoe box

The good sense often found in fairy tales is rarely transferred to the movie screen. A worthy exception is Columbia's latest venture into disbelief, a fantasy entitled *Once Upon a Time*, which asks its audience to assume that once there was a little boy who discovered a common garden-variety caterpillar that danced whenever anybody played the tune, *Yes Sir*,

That's My Baby. Quicker than a worm can turn the jitterbugging insect became America's most famous personality.

An adaptation of a well-known Norman Corwin radio drama, *Once Upon a Time* manages to be an embarrassing reminder of the selfishness of adult human beings. A natural vehicle for veteran Cary Grant,

it allows him the opportunity to be alternately tough and soft in the best Grant tradition. James Gleason is marvelous as a rough Broadway character called the Moke. As Pinky, the caterpillar's owner, a new child performer named Ted Donaldson steals a couple of scenes without excessive mugging. Curly, the caterpillar hero, spends whole film out of sight in a shoe box.

Flynn's assistant, the Moke, tries to comfort him about play's failure. After paying off the actors, Flynn's total assets are five cents. A \$100,000 mortgage on his huge theater is due at week's end.

Flynn meets Pinky (right) who owns a marvelous dancing caterpillar which he keeps in a shoe box. Hoping to exploit the insect, Flynn charms the boy into a partnership.





"When you've got the Big Laundry Blues,"
Said a housewife from New Orleans, Looz.
"Clean up your tots
As well as your pots
With absorbent and easy-to-use . . .



**NORTHERN
HANDY
TOWELS**

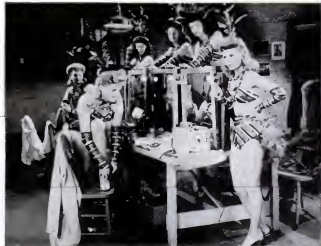
Copyright 1944
Northern Paper Mills
Green Bay, Wis.



Peering at Curly, the Moke thinks Flynn is losing his mind. But when Flynn says the talented insect can save the mortgaged theater, the Moke's attitude changes.



Group of newspapermen assembled to hear the story of Curly are skeptical, walk out without looking into shoe box. Flynn is crestfallen and loses interest himself.



Pinky's sister (right) accidentally hits on a handsome in which Gabriel Hebert tells the story of the dancing enterpillar. Furious, she takes Pinky away from Flynn.

CONTINUED ON PAGE 31

FLEERS
Candy Coated
GUM
PEPPERMINT

For Finer Flavor
FLEER'S

FRANK H. FLEER CORP. ESTABLISHED 1885

Doughboy's Dream



And how he goes for it after a hard drill!



Do you know where you'll find the most enthusiastic group of ice cream eaters in the world today? In Uncle Sam's training camps!*

When men come in from the field, tired and thirsty from long marching under full packs—they stampele the PX's and canteens for ice cream, liberal portions of it, pints at a time if they can get it! Ice cream to them is more than cool, delicious refreshment—it is also a grand pick-up to ease fatigue and relax tense nerves.

Our soldiers and sailors today also get ice cream regularly in their rations. The nutrition experts who make up the master menus see to that. They recognize the strength and energy values of good ice

cream, which contains sugar and the proteins, minerals, butterfat and natural vitamins of rich wholesome milk.

Your favorite brand of ice cream may occasionally be unavailable because many ice cream manufacturers are sending a big part of their production to the services. Remember how much our fighting men enjoy ice cream—and you'll be glad you can share this good food with them!

* * *

For the duration you may not always be able to get ice cream in Sealright sanitary paper containers. That is because Sealright is "in the service," too—supplying millions of sanitary paper containers for Army and Navy use.

* In one month, canteens at Camp Edwards, Massachusetts alone served 3,598 gallons of ice cream.



Sealright

**SANITARY PAPER
CONTAINERS**

Service men like ice cream in generous portions—and like to buy it in convenient sanitary Sealright paper containers at canteens, PX's and ship's stores.

THE SEALRIGHT CO., INC., TULTON, N. Y. • KANSAS CITY, KAN. • LOS ANGELES, CAL.

BUY U. S. WAR BONDS AND STAMPS



Chief Photographer's Mate Jack January—who made the famous anti-airing series on board U. S. S. G. Cutter Spenser, attached to B. Coast Guard Photographic.

Uncle Sam bought this Speed Graphic... but you helped pay for it!

Your dollars in taxes, War Stamps and Bonds have made you a "part-owner" of a GRAFLEX-made Camera. It is in the skilled hands of a Combat Photographer of the Army Air Forces, Navy, Marine Corps, Signal Corps or Coast Guard.

As our contribution to his success we are putting into every Camera every ounce of skill and precision so carefully developed in more than 50 years of camera manufacture.

And then—when War is over—we shall be back again, working for you, manufacturing GRAFLEX Cameras that have benefited by their producers' War service.

You, "Mr. Part-Owner" of a GRAFLEX Camera, can then become a full owner of one of these fine, precision, picture-making instruments. Obtain it then with the War Bonds you buy today.

THE FOLMER GRAFLEX CORPORATION,
Rochester 8, N. Y., U. S. A.

GRAFLEX gets great pictures!

VISIT GRAFLEX INFORMATION CENTERS for all GRAFLEX users, at 50 Rockefeller Plaza, New York 20, N. Y. and 3045 Wilshire Boulevard, Los Angeles 5, California.

Second Size
Awarded
Feb. 26, 1944

"Once Upon a Time" (continued)



Pinky threatens to jump off roof if he can't be Mr. Flynn's partner. Planning to sell the insect to Walt Disney, Flynn framed this act to get Pinky away from his sister.



Frightened by his suicide threat, Pinky's sister allows him to go Eve with Flynn. Pinky is overcome with hero-worship and does not know Flynn plans to sell Curly.

To Dad

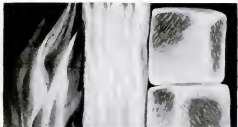
THE BEST
SPORT
I KNOW

Sportsman Shaving Lotion is more than a welcome gift on Father's Day. It is a thoughtful compliment, too... for its fine aromatic crispness is a true expression of that grand personality you know as "DAD!"
At better stores

Sportsman
TOILETRIES FOR MEN
dignity masculine
decidedly correct

JOHN HUDSON MOORE, INC. • 663 FIFTH AVE., NEW YORK

CONTINUED ON PAGE 112



Glass that doesn't burn or conduct heat . . .



Glass that is springy. And as insulation . . .



. . . is unchanged by time—doesn't decay.

Promises of Better Living . . . AN UNUSUAL KIND OF GLASS

THERE'S A DIFFERENT kind of glass in the world . . .

. . . not the glass you're familiar with, not solid like a milk bottle or a paper weight . . .

. . . but glass in the form of fibers—glass that is finer than human hair.

This unusual glass—Fiberglas*—is soft, pliant. Threads of Fiberglas are woven into fabrics having many uses. Or, other fibers are formed into a soft, wool-like mass and used as insulation against heat. Or, it is felted, compressed, and formed into pipe coverings and insulating boards.

Always Adds Unique Extras

Fiberglas can be used in a thousand places where glass has never used before! It does the specific job of other materials . . . and then adds the unique advantages of glass!

Glass, in fiber form, has great tensile strength. It's springy. It can't burn, rot, mildew. It won't pick up

moisture or odors from the air. It resists most acids. Moths, termites, rats, vermin won't eat it. And it gives these extra advantages wherever it is used.

No wonder dozens of industries are already using 117 forms of Fiberglas . . . both in war and civilian goods!

This page pictures some ways that the "wool" form of Fiberglas protects you, or medical supplies, or food for fighters from heat or cold. For more information about Fiberglas, write for free booklet, "Fiberglas, a New Basic Material." Owens-Corning Fiberglas Corporation, Toledo 1, Ohio. Fiberglas Canada, Ltd., Oshawa, Ontario.

FIBERGLAS

PT. M. REG. U. S. PAT. OFF.



Insulated food containers in this truck bring hot meals to troops in a forward area. Rough roads and rough landing shake up the containers. Yet they remain efficient, because Fiberglas insulation is springy—does not settle under vibration.



Army uses domestic refrigerator for blood bank in evacuation hospital. Fiberglas insulation helps keep blood at correct low temperature under extreme conditions of heat, rain, and knocking about . . . Fiberglas will not rot, mildew, or support fungus growth.



In the postwar world, Fiberglas insulation will bring its extra advantages to the new field of frozen-food cabinets. For these units must keep food frozen at low cost. Fiberglas permits the control of temperatures efficiently and economically.



Manufacturers of domestic ranges have interesting developments on the way. All point toward better, more convenient and economical cookery. And, again, Fiberglas insulation will play its important part in better living.

FIBERGLAS—A NEW BASIC MATERIAL

After the war he'll
be ready for a-



ROADMASTER BICYCLE

After the war, your youngster will want his first bicycle. Here's a suggestion, buy a War Bond today—after the war that Bond will buy a beautiful postwar Roadmaster, America's Finer Bicycle, with new, different and exciting design... new ideas in color and accessories, complete with a 100% stronger, electronically welded frame. Better buy that Bond now!

THE CLEVELAND WELDING COMPANY
West 117th Street at Berea Road • Cleveland 7, Ohio



Roadmaster
AMERICA'S finer BICYCLES



HANDKERCHIEF TEST

PROVES VITAL ZONE SPOTLESS
AND FREE FROM "GOO"—no matter
how often you smoke it!

**HESSON GUARD
MILANO**

Casual in the California Manner

HOLLYWOOD Rogue Shirt



At Better Stores Everywhere

The comfortable casual shirt for your well-deserved hours of relaxation. Just as good looking worn inside or outside your slacks. Two pockets (at bottom of shirt).

**HOLLYWOOD ROGUE
SPORTSWEAR**

1041 N. Highland Ave., Hollywood, Calif.
\$2.00 to \$12.50

THE H. V. D. CORPORATION
Empire State Building, New York, N. Y.
\$2.00 to \$4.00

*Shirts patented, names registered, both are property of Hollywood Rogue Sportsweare.



The Moke plays the harmonica for Curly in Flynn's swank theater office. Pinky, who now dresses like Flynn, is amazed at the sudden popularity of his enterpriser.



Skeptical scientists examine Curly, finally admit that he does dance. When they clamor to dissect him, Disney agrees to pay \$100,000 for the insect. Flynn accepts.

Never a bitter note

That famous flavor found only in Schlitz is as free from bitterness as a songbird's lighthearted melody. For Schlitz is brewed with just the *kiss* of the hops, bringing you all of the delicate hop flavor and none of the bitterness.



JUST THE *kiss* OF THE HOPS

*.. none of
the bitterness*



THE BEER THAT MADE MILWAUKEE FAMOUS



- HIGGINS PLASTICS
- RADIO TELEPHONES TORPEDO LAUNCHING TUBES
- AEROPLANES CAMOUFLAGE SMOKE GENERATORS MACHINE GUN TURRETS
- HIGGINS MARINE ENGINES VENEERS SOLAR STILLS TORPEDO FIRE INDICATORS
- HELICOPTERS HYPOID GEARS MOTOR DRIVEN ACETYLENE BURNING MACHINES
- HIGGINS PROPELLERS QUARTZ (RADIO) CRYSTALS ARMORED SUPPORT BOATS YEE DRIVE GEARS
- LANDING BOATS RELEASE HOOKS RAMP LOCKS HIGGINS PROFILE SHAPERS TANK LIGHTERS
- HIGGINS RUDDERS
- GUN COOLING SYSTEMS
- HIGGINS TURBINE PUMPS
- WATER RECLAIMER STILLS
- AMPHIBIOUS VEHICLES
- FUEL LINE DEHYDRATORS
- HIGGINS ELECTRO-MECHANICAL STEERING CONTROL SYSTEMS REMOTE RELEASE CONTROLS FOR TORPEDO LAUNCHING RACKS
- PATROL BOATS BILGE DRAINS FIRE BOATS LUMBER PRODUCTS STEEL TUGS SALVAGE CRAFT
- HIGGINS PATENTED STEERING WHEELS WITH SPINNING SPOKE PORTABLE REHAUL AND LAUNCHING TRAILERS
- MOTOR GUN BOATS UNDER WATER EXHAUSTS AUTOMATIC SWITCHES FOR CARBON DIOXIDE SYSTEMS
- BARRAGE BALLOON BOATS TRIPPING HOOKS HIGGINS REVERSING OR MANEUVERING RUDDERS
- CROSS DRIVE TRANSMISSIONS FOR MULTIPLE ENGINE INSTALLATIONS RESCUE BOATS
- MARINE TOILET FLUSHING PUMPS ENGINE COOLING SYSTEMS CARGO SHIPS
- MARINE TRANSMISSIONS BUOY BOATS BONDED WOOD PANELS AND SHAPES
- GUN MOUNTS MOTOR TORPEDO BOATS (P-Ts)

PRODUCED
by

BREAK THE
AXIS' BACK...
BUY BONDS!



"HISTORY IN A HURRY" is a new story of Higgins Enterprises... send for free copy.



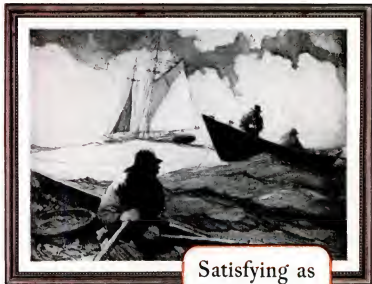
Sent into Pinky's bedroom to steal dancing caterpillar, the Moke drunkenly spills plan to Pinky. Disillusioned with Flynn, the boy runs home. There Curly vanishes.



Curly Club members escort Flynn to Pinky's home for a reconciliation. Because he had slapped the boy during their argument over Curly, he was ashamed to face him.



What happened to Curly is discovered by Flynn and the boy in the last scene. Marveling together at the wonderful trick of nature, they again become good friends.



"SEA HARVEST" by GORDON GRANT

Satisfying as
this Grant sea
study...the
American
highball at its
best, mixed with
FINE ARTS
WHISKEY

BUY UNITED STATES
WAR BONDS AND
STAMPS





Literature Survey Class meets Wednesday mornings to hear Dr. Armstrong on Browning, Shakespeare, other great writers.

Members are 80 prominent Waco women who have contributed heavily to new Browning Library which Dr. Armstrong

plans to build. Library will be of pink Georgia marble; construction will begin when wartime restrictions are relaxed.



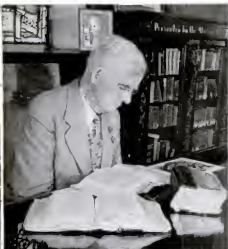
IN A BLUEBONNET FIELD, DR. ARMSTRONG WALKS WITH JANE ATKINSON (LEFT) AND MIRIAM MODRE, LIBRARY AIDES AND MEMBERS OF HIS SIGMA TAU DELTA LITERARY SOCIETY

Life Visits a Browning Library in Texas

Baylor university professor's consuming devotion to great English poet has brought fame to campus

The finest and largest scholars' library of Robert Browning to be found anywhere in the world is at Baylor University in Waco, Texas. It was founded and collected by Dr. A. Joseph Armstrong, a 71-year-old professor of English whose teaching has kindled an enthusiasm for the great English poet and humanist in two generations of students. Poet Robert Frost calls him "our representative of Browning on earth." Dr. Armstrong's library contains more than 20,000 pieces of source material on the poet. No modern biographer of Browning could do a complete job without consulting it. Most valuable single item is the collection of letters written by Browning to Isa Blagden, friend of R. B. and his famous poet-wife, Elizabeth Barrett Browning.

Dr. Armstrong's interest in the poet was stimulated by his visits with Barrett Browning in Italy before death of the poet's son in 1912. He started his collection in 1918 and, accompanied by Mrs. Armstrong, made 29 trips abroad in search of Browningiana. Alumni and patriotic Texans added items and the Baylor collection slowly became famous. Last year a friend offered Dr. Armstrong \$100,000 for a new library building if he could match this sum. In six months Dr. Armstrong had \$150,000 and now needs an additional \$150,000. He has personally brought to Baylor many of the leading poets and actors of the U. S. Their lectures and performances have netted \$50,000, all of which has gone into the library, now valued at \$250,000.



Dr. Armstrong ponders some well-worn Browning volumes. A great authority, he has published 20 books on the poet.



First editions total 131 volumes, lacking only *Pauline* to make complete set. Library has 3,687 Browning books in 40 languages. Most of manuscripts are in England.



Original portrait of Browning painted by poet's son was presented by class of 1918.

LIGHTER MOMENTS with
fresh Eveready Batteries



"Don't worry, darling! There's nobody around!"

THE DEPENDABLE POWER of "Eveready" No. 6 Dry Cells is being put to excellent use right now in the armed forces' field telephone units. This means that the relatively small civilian supply must be stretched as far as possible—use yours carefully!

The proper handling of America's food supply can help shorten the war and write the peace. Don't be responsible for wasting an ounce of food!



The words "Eveready" and "Ignitor" are registered trade-marks of National Carbon Company, Inc.

EVEREADY
TRADE MARK

Browning Library (continued)

THESE ARE BAYLOR'S TREASURES



Clasped hands of Elizabeth and Robert Browning, cast in Rome.



Silver snuffbox has Browning's monogram engraved on the lid.



Sketch of Browning was done 18 days before poet died in 1880. His autograph: "Here I'm gazing, wide awake, Robert Browning, no mistake!"



Topaz brooch was gift to Elizabeth on 1st wedding anniversary.



Lock of hair cut from poet's head by daughter-in-law after death.



Flowers were delivered to Elizabeth at 50 Wimpole St. in 1846.



Browning's crested bloodstone ring now worn by Dr. Armstrong.



Drawing for *The Pied Piper of Hamelin*, by 8-year-old Willy MacReady for whom Browning wrote the poem, shows the Piper luring the rats away from Hamelin town.



Pied Piper stained-glass window is one of three in library commemorating Browning poems. New library will have 27, given by students and poet's Texas admirers.

MARINE CORPS



WHERE DEPENDABILITY REALLY COUNTS



COUNT ON DEPENDABLE
CHAMPION SPARK PLUGS

Our government makes no compromise with absolute dependability in any product used by our armed forces. The fact that Champion Spark Plugs are on active duty on every front, on land, water and in the air is dramatic evidence of the traditional dependability which has been their outstanding characteristic for over thirty years. Many exclusive and patented features account for their superior performance in every type of engine.



TO SAVE
GASOLINE
—KEEP SPARK
PLUGS CLEAN



LET'S ALL BACK THE ATTACK—
BUY WAR BONDS

CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO

SOLAREX

SCIENTIFIC SUN GLASSES

CHANGE BRIGHTEST SUNLIGHT



into SOFT RESTFUL TWILIGHT

THE ORIGINAL SOLAREX SUN GLASS COLOR

TWILIGHT

HIGH VISIBILITY



SAFE PROTECTION

SERVICE-TESTED AROUND THE GLOBE



"To 'Keep Their Eyes Alert' in every climate and season we are mighty proud to supply SOLAREX in the original TWILIGHT color for High Visibility plus Safe Eye Protection. Naturally the supply for civilians is curtailed but, when shopping around, you'll probably find a limited selection. When Victory is won, you'll again have full ranges of SOLAREX styles and shapes.

★ Let's All Back the Attack With More Bonds ★
BACHMANN BROS., INC.

Charter Member—Sun Glass Institute

Factory and Home Office: 1420-38 E. Erie Ave., Philadelphia 24

MANUFACTURERS OF **PLASTIC PRODUCTS** ESTABLISHED 1933

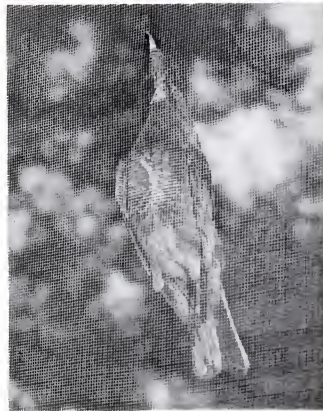
PICTURES TO THE EDITORS

DEATH TRAP

Siz:

In a frontal attack this unfortunate robin dove-bombed into a screen and met death at the house of Mr. and Mrs. Albert Blyth of East St. Louis. The first picture shows bird hanging from screen.

In the second picture, taken from inside the house, you can see how a large part of the bird's beak became firmly implanted. H. E. VOGT
St. Louis, Mo.





Jane Powell, starring in Charles E. Rogers production "Song of the Open Road" for United Artists

**KEEP THAT TEEN AGE
SPARKLE IN YOUR SMILE
IODENT
WILL SAFEGUARD IT**

Choice of two textures—safety guaranteed—Made by a Dentist. Bears Good Housekeeping Seal. Gently cleans away even tobacco smudges. Restores natural enamel lustre. Delightful, refreshing flavor. Use Iodent and you'll smile with confidence.



WHICH IODENT
DO YOU CHOOSE?



PICTURES TO THE EDITORS

CONTINUED

CEILING PRICE

Sirs:

Nature ranged up with the OPA on setting the ceiling price on this half-pound cucumber. The Good Lord Himself marked it with the correct price to confound would-be lawbreakers.

Tulsa, Okla. LEE E. GILLETTE



EYE OPERATION

Sirs:

Sport's Sevenside, a prize five-gaited show mare, is probably the first horse to have a cataract removed by eye specialists. The operation, performed while the horse was under anesthetic, by two doctors and three nurses from the Memphis Eye, Ear, Nose and Throat Hospital went very well.

Memphis, Tenn. CASEY ELLIOTT



OVEN MUTT

Sirs:

The problem of getting warm on cold Nebraska spring days was solved by Sport, a pooch owned by Joe Larson of Central City. The dog even slept in the oven when the fire had died down.

Central City, Neb. BILL BARR



TAKE A TIP FROM ME
TRY "BC"
FOR QUICK RELIEF FROM
HEADACHES
NEURALGIC & MUSCULAR PAINS

10¢
AND
25¢
USE AS
DIRECTED



O.K. FOR ALASKA
Because MARLIN BLADES are popular in the armed forces, we suggest—make yours last longest!
The Marlin Firearms Co.

TAN gloriously!
Use
SKOL



QUICK-DRYING
ANTISEPTIC
PLEASANT
TO USE

For a glorious tan without ugly, painful sunburn, use . . . SKOL! SKOL filters out the harmful burning rays, but lets the tanning rays pass through! SKOL is not greasy, doesn't pick up sand, dries quickly. Contains an exclusive, patented form of tannic acid. SKOL is antiseptic, helps relieve sunburn too. Pleasant to use. SKOL Company, Inc., New York.

NON-OILY

PREVENTS PAINFUL SUNBURN!

Here's a quick, easy
beauty treatment

Is the paint on your car dull and dingy from long exposure? Restore its original lustre. No. 7 Polish will make it shine like new! Try it . . . there's nothing quicker, easier to use. A good polishing now will make your car finish last longer.



DU PONT No. 7 POLISH

**TAKE GOOD CARE
OF YOUR CAR**



Clean rust and scale
out of the radiator

This chemical dissolves rust, scale and grease without harming the hose, packing or metal parts . . . cleans thoroughly without reverse flushing. Stops overheating. Do the job now—before trouble develops and makes repairs necessary.

**DU PONT
Cooling System
CLEANSER**



BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY



PICTURES TO THE EDITORS

CONTINUED

INTERNATIONAL FEET

Sire:

The good-neighbor policy takes a new slant, and quite a pretty one, as Gwen Johns stands with one foot in Mexico and the other in the U. S. The little muddy stream which Miss Johns is spanning so

attractively is the Rio Grande during a dry period.

CHARLES F. HOLBROOK
Hartlingen, Texas



BALANCING ACT

Sire:

This amazing balancing feat was actually accomplished by three pals of mine who had a pro-war vandeville act known as "The Nonchalants." They appeared in LIFE, April 13, 1942, and all three are

now in the service. Top to bottom, Doc Milheim, Loren Riebe and Clarence Love.

GEORGE E. CROWLEY

Dallas, Texas



CONTRIBUTIONS: Minimum rates for all rights, including resale and reuse: \$5 per photograph. Amateur photographers are welcome as contributors but their work must compare with professional on an equal basis and will be judged (and paid for) as such. Unpublished contributions however, whether professional or amateur, will be neither acknowledged nor returned unless accompanied by adequate postage, packing and directions. LIFE will not be responsible for safe handling of same either in its office or in transit. Payment will be made only on original and publication. Address all correspondence about contributions to CONTRIBUTION EDITOR, LIFE Magazine, TIME & LIFE Building, Rockefeller Center, New York 20, N. Y.



**Step up... for the whiskey that's
Like Sunny Morning in your Glass!**

DON'T take our word for it — take a sip of it . . . and you, too, will agree that SCHENLEY Reserve has the bright, clean freshness of a breezy, sun-drenched morning! That brisk, delightful flavor is a triumph of blending

... the result of true genius in the blender's art. America appreciates such outstanding quality . . . for SCHENLEY Reserve is a favorite among finer whiskeys! You'll appreciate it, too! Try SCHENLEY Reserve — today.

The basic whiskeys in Schenley Reserve blended whiskey are supplied only from pre-war stocks. Our distilleries are now producing only alcohol for munitions, synthetic rubber and other important uses. Schenley has produced no whiskey since October 1942.



MELLOW AND LIGHT AS
A PERFECT MORNING

SCHENLEY
Reserve
BLENDED WHISKEY

They also serve,
who BUY and HOLD WAR BONDS!

Hit that Beach!

Bill Bluejacket mans 'em—Johnny Doughboy[®] rides 'em—and when these surf-jumping landing barges hit the beach, Uncle Sam's fighting men prove that

THEY'VE GOT WHAT IT TAKES!



HE STANDS UP—AND TAKES IT! With motors roaring, the first wave of Uncle Sam's landing craft races for the "invasion beach-head." The Navy coxswain at the wheel (right rear) is the man who is responsible for getting his craft and its soldiers on the beach at the right spot.



"FIRST WAVE ASHORE!" Down goes the ramp, and with a running jump, Johnny Doughboy lands in the shallows, races across wet sands for the dunes to dig in—and the "beach-head attack" is on! (Notice how soldiers immediately deploy to right and left on leaping from ramp.)

FIRST IN THE SERVICE

With men in the Army, Navy, Marines, and Coast Guard, the favorite cigarette is Camel. (Based on actual sales records.)

Camel's
FRESH TASTE
clicks every
time!



Extra
MILD too—
Camels suit
me to a
'T'



THEY'RE called the "Amphibious Forces," and they work together... play together... fight together, in the big, months-long job that winds up with those two simple words, "Beach-head taken!" Off duty, Johnny Doughboy and Bill Bluejacket have some of the same preferences, too—especially in cigarettes. For both of these two, at the left, it's a full-flavored, fresh Camel every time. Fresh, wherever they go—for Camels are packed to go round the world—to stay fresh anywhere.



THE "T-ZONE"—where cigarettes are judged

The "T-ZONE" Taste and Throat—is the proving ground for cigarettes. Only *your* taste and throat can decide which cigarette tastes best to you... and how it affects your throat. Based on the experience of millions of smokers, we believe Camels will suit your "T-ZONE" to a "T."

Camels

H. J. REYNOLDS TOBACCO COMPANY, WASHINGTON, D. C.