


AW, WHAT'S THE USE


By LeF V. Van Zelm


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ADD $15 \%$ TO WHOLESALE PRICES FOR FURNITURE AND RUGS DELIVERED TO YOUR DOOR

By special arrangement we are now prepared to give our ustomers cards of introduction entitling them to free access the display rooms of one of the largest wholesale furniture houses in Los Angeles, for any goods in the furniture or rug line they may select, not found on our own display floor.

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| :---: |


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| :---: |
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## N. H. GOODENOW, M. D. General Practice and Diseases of Throat and Chest, including Tuberculosis  <br> | F. P. MILLER, M. D. |
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| Practice limitid to disesaes of the |
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| Appointments made at any tine. |
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| SAINT.CYR SANITARIUM |
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| Treatment Consists. of the Fast |
| Cura and Milk Diet. No tubercu- |
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|  | Prof. HAGUE KINSEY |
| :---: | :---: |
| CURTIS B. GOODENOW Special Agent <br> New York Life Inaurance Company Phone Main 151. Sierra Madre, Cal Reaidence, 65 N . Baldwin | of Los Angeles Visits Sierra Madre each Tuesday. Lessons in Modern Pianoforte playing, organ and Vocal Interpretation. For terms, etc. Apply: |
| R. M. FINLAYSON Architectural Designer | Mrs. Robt. Mitchell 48 West Alegria |

rchitectural Designer Pans \& 389 Sturtevant Roa
> H. J. MITCHELL
> man, Sierra Madre Gar
> "New Fords for Old" Main 110 Ask for "Mitch"

THE SIERRA MADRE FUNERAL CHAPEL

$$
\begin{gathered}
\text { Lady Attendant } \\
\text { Ambulance Service } \\
\text { BERGIEN, CABOT \& } \\
\text { SCHMITT }
\end{gathered}
$$

$\begin{aligned} & 304 \text { W. Central } \\ & \text { Black } 3 . \\ & \text { Sierra Madre }\end{aligned}$

## garden hints for may

 by Jesse WardKeep weeds and grass hoed down or
paded under. The lawn should be spaded under. The lawn should be
mowed close and Bermuda grass raked
out as much as possible out as much as possible. Any bad
spots in lawn should be dug up, filled in with new soil and seed sown. Give
whole lawn a dressing of sereened whole lawn a dressing of screen
manure or commercial fertilizer. manure or commercial fertilizer.
Basins should be made around fr Basins should be made around fruit
trees and the basins covered with old
leaves, grass or manure leaves, grass or manure. This will
conserve the water and fertilize the conserve the water and fertilize the
tree. Avacado trees must have this rree. Avacado trees must have this
treatment, and lots of water. An ava-
cado tree that is properly cado tree that is properly cared for
will be a source of great pleasure will be a source of great pleasure and
profit to you, providing you have profit to you, providing you have a
good variety to begin with. Avacado good variety to begin with. Avacado
trees should be shaded with burlap
while young. trees should
while young.
Established Established trees and shrubs can
now be planted with great suceess and as many of them are in bloom or in
full foliage at this full foliage at this time it is a pleas-
ure to choose the varieties you wihh plant.
Set out Set out young plants of the follow-
ing annuals now; ing annuals now: Asters, zinnias, pan-
sies and marigolds. ises and marigolds. Cannans, iris, dah-
ias, chrysanthemums, carnation phiniums, verbenias, statice antanas, begonias, shasta daisies, blu,
laisies, Marguerites, aisies, Marguerites, forget-me-nots,
gazanias, plotycodon, hy geraniums
As roses are blooming now, or about to bloom it it a a good time to choose
varieties for the rose garden. Estab-
lished or Ished or potted rose bushes can be
easily planted now. Some of the bes varieties for cut flowers and continu
ous bloom are: Hoosier Beauty ous bloom are: Hoosier Beauty, Lady
Hillingden, Sunburst, Los Angeles Hillingden, Sunburst, Los Angeles
Radiance, La Tosca, Mamon Cochet, Kaiserine, White Cochet, Aphelia,
Mrs. George Shawyer, Mrs. Charles
Russell, Irish Fireflame. Irish gance, Mme. Edward Herriott, Mme. Abel Chateney, and Lady Battersea. Bulbs that have finished blooming
and have died down can be dug up
now and stored place until fall when they can be replanted. The beds should be fille
with summer

Certificate of business (Fictitious Firm Name) The undersigned does hereby cer tify that he is conducting an automo-
bile and garage business at 4 West
Cind Central avenue, in the City of Sierra
Madre, County of Ios Anges Madre, County of I os Angeles, Stat
of California, under the fietice of California, under the ficticiou,
firm name of Central Garage and tha
said firm is composed of the following persons, whose names and ad-
dresses are as follows, to-wit Joseph Belohlavek, 687 West Alegria St., Sierra Madre, Cal
Witness hi
A pril, 1922.
JoSEPH BELOHAVEK.
State of California, County of Los
ngeles, ss.
Angeles, ss.
On this 14 th day of April, in the
ver nineteen hundred and twenty-
year nineteen hundred and twenty-
two, before me, Robert Mitchell, a notwo, before me, Robert Mitchell, a no-
tary public in and for said county, residing therein, duly commissioned and
sworn, personally appeared Joseph sworn, personally appeared Joseph
Belohlavek, known to me to be the
person whose name is subscribed to person whose name is subscribed to
the within instrument and ac-
knowledged to me that he executed the same.
Witness my hand and official seal.
(SEAL) ROBERT MITCHELL. (SEAL) ROBERT MITCHELL,
Notary Public in and for said CounNotary Public
ty and State.
Filed April
Filed April 15, 1922. LAMPTON, County Clerk By R. E. THERAL,

## MAY

best time to Plant musk and WATERMELLON SEED
our stock is the best obtainable

Western Seed Co.
116-118 E. 7th St., Los Angeles, Ca

| MRS. R. MEIER |
| :---: |
| Teacher of Piano |
| In rag-time and popular pieces |
| 102 E. Mira Monte Blue 5 |



Hardy spring blooming shrubs as
spirea, Lilac, etc., should be pruned
just as soon as they finish blooming,
to make shapely plants.
Old fern fronds of last season's make shapely plants.
Old fern fronds of last season's
rowth should be cut off. Vacancies growth should be cut off. Vacancies in the fern bed can be filled in with new ferns,
or fusesias.
Frozen poinsettias should be cut to he ground. They will in most cases o ge up again from the roots.
Rose bushes should be dusted wit Rose bushes should be dusted with
sulphur to prevent mildew. If infested sulphur to prevent mildew. If infested
with plant lice, or aphis, spray new with plant lice, or aphis, spray new
rowth with "Black Leaf Forty," a
icotine solution. cotine solution.
The following fruit trees can be
lanted now: Oranges, lemons, planted now: Oranges, lemons, lo-
kuots, guavas, fiegoas, custard apple,
cherimoyaf and or cherimoyafi and avacados. CAN YOU WORK

THIS TRANSFORMATION?


We Dye Every Day


We've been dyeing for lots of folks for years and we'll dye for you too.

Our dry cleaning department offers you complete service in cleaning, pressing or dyeing

Suits, coats, dresses or other articles that need new life will find it here. Make last year's clothes give you another season's service.

## Monrovia Laundry LAUNDERERS AND DRY CLEANERS

Dry Cleaning Plant 27 S. Myrtle Av Phone Main 87

## First-Class Tailor

cleaning, pressing, dyeing, repairing
LOWEST PRICES
SATISFACTION GUARANTEED

SIERRA MADRE BARGAIN STORE AND MEN'S FURNISHINGS

20 West Central

## GEO. A. OSWALD

Real Estate Service N. Baldwin Avenue

## Phone "Blue 8" If in Trouble

We will come to your aid at once. If it is necesary to bring your car to the garage for work, our charge will be very moderate.

OUR NEW EQUIPMENT ENABLES US TO HANDLE WORK IN THE BEST AND MOST EFFICIENT WAY

BRUNSWICK TIRES end your road troubles. MACK-DRY Batteries end your battery worries.

## Central Garage

Motto: "Service and Satisfaction"
BELOHLAVEK \& SON

Phone Blue 8
Central and Baldwin


## Next Week Special

Large Bars Ivory Soap Small Bars Ivory Soap Star-Naphtha Washing Powder, per pkg. 6 Chipso Washing Machine Powder, large pk

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C. M. Nomura

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bank bullding
Everything at lowest Market Prices

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Having taken over the real estate business of A. N. ADAMS, we now offer a much larger choice of property to our clients We would also be glad to list other property for sale or rent. Our insurance agencies now include some of the best companies in the world. Let us furnish your protection agains fire loss.

Ferris \& Cooper Red 22.

Take a
KODAK
with You
Kodak adds to fun and keeps it-in pictures. Be sure your next holiday plans include a Kodak. We have the one you want, and the film and accessories as well. This is the place to come for the Eastman line of photographic good:


KODAKS-all autographic- $\$ 6.50$ up Brownies- $\$ 2.00$ up
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Shampooing
eatments
Facial Treatments
Hair Dyeing
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Exclusive Representative for Sierra Madre for ELIZABETH ARDEN Face Creams, Lotions and Toilet Preparations 20 West Montecito

Albany Flooded by the Mohawk and Hudson Rivers


 has become a or a stination unduly
is not talken fommon phrase. But Is not taken from an old proverb
other popular sayings. The first
use it was the American writer, Henr
 Universal Belief in Charms Do you carry a lucky phace in your
pocket or wear a charm on a ribbo
round your throat? If you do you
have have wenty of company. Bellef
charms and amulets is one of the moo
deeply rooted of all superstitions an
is constantly apearing an the eurfe of civilized IIf appearing on the surface any devotee of
Hese trinkets and hate Old and Gray. and

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12
$$ <br> \section*{} <br> \section*{}



## $$
\operatorname{sen}_{2010}
$$



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los,
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    SCRAPS
    $\underset{\substack{\mathrm{Mt} \\ \mathrm{Mght}}}{\mathrm{m}}$
high.
Alaska was discovered by Behring $\begin{aligned} & \text { that is soothed with a pleasing melody } \\ & \text { during mithing will, it is said, yleld } \\ & \text { one-fifth more milk, }\end{aligned}$
An American historlan asserts that More than seven tons of dust are
Captatn Kidd was not a pirate and arried br the tramping feet of


PAINT PREVENTS DECAY Improves Appearances ENHANCES VALUES

PROPERTY OWNERS everywhere are realizing more than ever before that

## It Pays to Paint

The difference in cost between first-class and inferior paint small-the difference in wearing qualities large and this difference shows up several months after application. Don't be led astray by low prices on unknown brands but buy

## ACME QUALITY

NATIONALLY KNOWN TIME TRIED and found HIGHEST GRADE

## Giffs Sierra Madre Hardware Co.



## Thy

e're not French, but we certainly now how to make 'em

## Taste

 GoodPIES
CAKES
DOUGHNUTS
FANCY PASTERY

Our Bread is winning its way into new homes every day, just on its reputation for goodness.

CENTRAL BAKERY
ycelroy brothers
Green 167
$\eta$ West Central

## SIERRA MADRE FEED AND FUEL C0.

We wish to announce that we have added an other Truck to our service which will enable us to take care of your hauling and trucking require ments. However-

OUR FEED AND FUEL BUSINESS
will receive
the same prompt attention it has heretofore. Mashes Chicken Feeds Grain Hay Coal $\underset{\text { "Quality Firot" }}{\text { Wood }}$ Briquets
Phone 50
97 E. Montecito
Saturday, May 20
"WHEN ALL ROADS LEAD TO MONROVIA"

Monrovia
Day
Fiesta

Mammoth Street Parade, 10 a. m. $\$ 1000$ worth of prizes California Barbecue Wild West Rodeo. Bob Anderson and his Universal City Cowboys and Cowgirls Merchants' Exposition Midway Carnival et Dance
SPORTS ENTERTAINMENT MUSIC


## THIS FELLOW FLINTHAM

By John S. McGroarty in The Times Magazine
(Mr. Flintham, the subject of this sketch, will be the seaker before the May meeting of the Men's Community Club in the Congregational Church next Thursday evening May 21.)

We wonder if this young fellow, Flintham, who holds the ob of forester in Los Angeles county, felt his ears burningburning so hot that he wanted to put ice packs on them ne night, not long ago.
You all know the old saw about your ears burning. It ans that someone is talking about you.
Well, we were talking of Flintham that night in the green Verdugo Hills. Just a bunch of hill men talking about their county forester. Maybe the matter is of no import nce. And then, again, maybe it is. It is hard to say just what is important in this world, and what is not

Anyway, the event was unusual, even though it might not have been important. For we were praising and no cussing" Flintham. And Flintham is a public official.

You don't often hear it-kind words from taxpayers for fellow who spends the taxes.

The way the talk came up was that the man who plays the flute had been out over the old deer lick trail trying to see if he could get track of his pet badger which had mys teriously left home and had not reported himseli for three days and three nights. And the man who plays the flut had gone clear down across the yon side of the hills looking for his badger.

And, by ginger, what does he see but his young fellow Flintham with a gang of men cutting and blazing great trails throughout the high ridges and blocking the whole hill country out like a checkerboard with the wide gashe he was making in the chaparral.

And the man who plays the flute had a talk with thi oung fellow Flintham about what the dickens he was doing And Flintham said, by ginger, he is going to block off al the hills and mountains in the county with fire breaks like that. And when he gets through we will be able to head these mountain fires and hill fires off. We'll jump on them like a thousand of brick, Flintham said.

Now there's a fellow who is really doing something, said he neighbors, when they heard what the man who play the flute told them. And the man who plays the flute wa so excited over it, himself, adger.

My badger will come home when he gets ready, I guess, he said; and if he doesn't I will have to mourn his loss. But by ginger, if this young fellow Flintham wasn't doing what he is doing in our hills and mountains, some time they would be burned bare as a bald head, and there would be oothing to hold the floods, and Los Angeles and all the owns down there in the lowlands would be buried fathom deep under mud as Babylon and Nineveh were buried
aeep under mud as Babylon and Nineveh were buried. losing a pet badger, said the man who plays the flute.

## BY THE WAY

My Bonnie leaned over her gas tank
The depth of its contents to see,
She lighted a match to assist her,
h, bring back my Bonnie "Protection.
Traveler's "Protection.
My Bonnie went out on the highway Where gas carts are thick as can be. She started jaywalking the trafficOh. Bring back my Bonnie to me

Over at the University of Southern California they are considering a compulsory course in domestic economy for co-eds. Male students are said to favor the idea. Some co-eds resent the implication that they are not competent cooks already. A football star says he would rather risk almost any kind of a battle rather than a co-ed's rolls. co-ed replies that she can come as near the perfection of the rolls his mother made as he can approach the size of the roll her father made.

An Eastern editor who evidently goes to church suggest the cough drops be passed around with the collection plates. The sermon thus might be spared interruptions which make whole sentences devoid of meaning. Amen.
"Too much horsepower and too little horse sense forms dangerous concoction," remarks the Whittier News. The horses ought to be thankful they are out of the way
"The REST-EZY" Recliner
Manufactured by W. C. Leonard \& Co
wanac Lake, $\mathbf{N}, \mathbf{Y}$


For prices and particulars apply
Wast Alegria Phone Green 5

## PURE DRUGS

Full stock of Drugs, Sundries, Toilet Articles and Supplies for the sick room.

Soda Fountain Best Candies Cigars and Tobacco
OUR PHONE IS NOW IN

## Poage's Pharmacy...

Phone Green 48
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## THE L. W. BLINN LUMBER CO.


Lumber for All Purposes
Phone Black 23 $\qquad$

## Strickland's Feed Store

$\qquad$
All Kinds of Poultry Food, Grain and Hay. Highest Quality-Lowest Price

THE FIRST NATIONAL BANK

F. H. Hartman, Vice-Pres
Chas, w. Ye. Yexa, Vice: Pres terest Paid on Term Deposit (y) Boxes for Re


## Reduced This Week

36 INCH PERCALE, 18 c
Good quality percale, full yard wide in stripes and figures, white ground, regular 25 c value

HUCK TOWELS, 15c
10 dozen huck towels, all white or with colored border Good firm quality. 25 c value

72x90 SHEETS, 75c
Bleached sheets with center seam, made of good grad muslin.

Good grade pillow case

## J. F. SADLER \& CO. STANDARD PATTERNS WARNER CORSETS <br> Phone Black 85

## Kyanize...

Your
Floors
Furniture
Wood work Auto

## 30-Cent Can Free

to every purchaser of a 15 c brush.<br>This offer good one week only to make new friends for

Kyanize Enamels and Varnishes
Sierra Madre Furniture Company
87 West Central


In selecting Commencement Gifts, why not commemorate this event-one of the most important in young life-by choosing a diamond

Even a small one, coming, as it does, on that occasion, carries with it a great deal of sentiment, and the recipient will cherish it a lifetime.

RINGS STICKPINS PENDANTS BRACELETS WATCHES

Sierra Madre Gem \& Jewelry Shop L. C. TUCKER, Manager

18 W. Central


## WOMAN'S CLUB NEWS

## By Press Chairman, Mrs. Besse Palmer Rhodea.

## cheon and Program

Following a most delightful luncheon served to club members and
guests on Monday, May 8, under the guests on Monday, May 8, under the
supervision of Mrs. M. D. Wilsher, the tion gave their reports. The presi-
tent, Mrs, J. Milton Steiter
der dent, Mrs. J. Milton Steinberger, after colding also of the sessions which were to have been covered by Mrs. E. C. New-
lon and Mrs E. H. Carpenter ton and Mrs E. H. Carpenter, both of
whom were unavoidably absent. The other delegates heard from were Mrs.
Frank Wright and Mrs. W. J. LawMrs. J. A. Osgood described the luncheon at the Southwest Museum on
Thursday, when the state and visiting Thursday, when the state and visiting
officers were entertained by the Sierra Madre Woman's Club. The conven-
tion reports were most enjoyable and tion reports were most enjoyable and
although necessarily long, were so although necessarily long, were so
comprehensively given as to hold the entire attention of the audience. At the afternoon program, pleasing
Mildred Jackson, of Pasadena, who, Mildred Jackson, of Pasadena, who, with her mother accompanying, sang pleasingly two groups of songs in cos-
tume. Mrs. E. T. Pierce of Pasadena tume. Mrs. E. T. Pierce of Pasadena
formerly a resident of Sierra Madre, anderly a esident of Sierra Madre,
and a club member of years' standing,
presented a very beautiful picture of presented a very beautiful picture of
"Springtime in England," in a paper, "Springtime in England," in a paper,
describing a May Day Festival witdescribing a May Day Festival coun-
nessed by her on a visit to that con
try. The nominating committee, unable
to submit a complete report, requested the re-opening of onominations for
president and vice-president, wherepresident and vice-president, where-
upon several new names were added
to the working list already in the to the working list already in the
hands of the committee. he committee. Before adjournment, Mrs. J. A. Os
good gave a short talk, calling the atgood gave a short thal, calling the at-
tention of the club members to their responsibility as members, urging up-
on them the necessitv that each must on them the necessitv, that each must
assume her share of the club activity assume her share of the club activity
instead of simply availing herself of the opportunities afforded by the ef
forts of others.
Picnic Luncheon
The members of the Woman's Club who contributed so liberally toward financing the luncheon which was served to the state and visiting offic
Thursday, May 4, may ewll feel proud of the manner in which the luncheon was prepared and served to the many
delighted guests. An efficient corps delighted guests. An efficient corps of the club's women, having perfected
every detail, the luncheon was every detail, the luncheon was
splendid and entirely successful
achievement achievement. The tables were decor-
ated in the club colors with bouquets of California colors with bouquets of California poppies, lupin
bined with purple wild flowers, predominating.
cony of the museum placed on the bal cony of the museum, overlooking the
mountains, where a wonderful view

SUNDAY, MAY 14th Special Bouquets $\$ 1.00$ and $\$ 2.00$ eac
"For Mother living. Flowers Bright, 'For Mother's Memory Flowers White,"

##  Phone Blue29.



## Bethany Temple

 Bible ClassExtends a cordial invitation to every one interested in hte
STUDY OF GOD'S WORD
9:45 a. m. every Sunday in the Temple Auditorium Church Services
1 a. m. and $7: 30$ p. m

Young People's Service 6:30 p. m. Prayer Service Wednesday 7:30 p. m. REV. W. H. RAWLINGS, LL.D., Pastor
Montecitio and Baldwin Sts. Sierra Madre, Cal. VISITORS WELCOME

## Daddy Puretest Says:

## If you will once in a while-say every ten days-take two

teaspoonfuls of Puretest Epson Salt in a
tumbler of water, just before breakfast,
feel fine and fit for the day's work or play. This Salt is easy to take because it is pure. It costs only half a cent a dose.
Puretert Household Drugs on display at

## Tho Rexall store

HARTMAN \& SON
PHARMACEUTICAL CHEMISTS
25 N. Baldwin Ave Phone Black 25


It's real economy to keep your ice box well filled!
Distilled water ice not only protects your health, but by keeping expensive foods pure and fresh, it actually saves you more than the few cents it costs. The daily use of ice adds to your comfort and lowers your food bills each month.
Don't be "penny wise and pound foolish." You can't really economize when you try to keep house without ice-unless you are willing to jeopardize both health and comfort.

Start today! Have your ice box filled with clear, distilled water icethe purest ice you can buy. Hang out your card, or 'phone us and one of our wagons will call at your door.

## Pasadena Ice Company

FAIR OAKS 4188-GARVANZA 415
SAVE IT WITH ICE


## PROMPT PRINTING

-.-That's part of the service we endeavor to render.
-.-Sometimes our customers try to bury us in work, but we always dig out, and you get the work when it is promised if we have to work while you sleep.

## 

All of our prices are based upon the standardized Franklin Printing Price List, the "one-price-everything-marked-in-plain-figures" idea applied to printing.

## THE

SIERRA MADRE PRESS

Successful Helicopter Is Built


The Pescarra helicopter which recently underwent a successful
London. The machine is capable of rising straight up tinto the aitr.




Why Wait?
When you are sure of the best repair work without annoying delays.

This business is built on the idea of personal service to assure Satisfaction. Drive in!

## NORM'S GARAGE

Black 164
22 E. Montecito

## BUSINESS LUNCH

11:30 to 1:30 Daily
Hot and palatable-with that "Come Again" idea, included. Our patrons always come back. Price is reasonable-only 40c.

Ask For Sullivan's Bread at Your Grocers.
Sullivan's Sierra Madre Bakery
Black 6830 Windsor Lane (Turn North at Garage)

## NEVER A BETTER TIME

TO VISIT ONE OF AMERICA'S MOST FAMOUS MOUNTAINS
Mt.Lowe
Delightful at All Seasons
Is Just Now Garbing
Itself for Spring

The Pleasant Odor of Woods,
The Clear, Distant Vistas, The Pleasant, Winding Trails, Insure a Glorious Outing.

| ROUND TRIP |
| :--- |
| $0 M$ |
| 1020 |

## Pacific Electric Railway

## Low Fares

Back East


Southern Pacific Lines

## I AM

FRANK BARBOUR The Rawleigh Man

This introduction has opened many doors to me, to the mutual satisfaction of purchaser and seller.

If you have used Rawleigh Products and found them good, tell your neighbor.

If you are not yet a user of Rawleigh Products, let me demonstrate their superiority. I will introduce myself with the opening words of this ad.

FRANK E. BARBOUR
THE RAWLEIGH RETAILER
Blue 16
47 North Lima
Member of Chamber of Commerce

ANDREWS \& HAWKS LICENSED REALTY BROKERS Real Estate Loans Insurance Notary 27 North Baldwi
 In a new package that fits the pocket-
At a price that fits the pocket-bookThe same unmatched blend of
Turkish. Virginia and Burley Tobaccos

## Piston <br> clearances /

4/1000 of an inch when cold 1/1000 of an inch under fire

 minn
 and

yemem oreme


The right body at all operating temperaturs
 minn mex minn


 men

more power \&speed ~ less friction and wear~ thru Correct Lubrication


The high-frequency current is known
as the carrier-wue and its function is to radiate Into space in the form of
electro-magnetic waves and by its or
eariation in anpplitude carry with it the
variation in the tone at the transmitting station.
It is the tiequency of the carrier
THINGS BEGINNERS MUST LEARN FIRST

Explanation of Terms Used in Radio and of Its Basic Principles. Due to the great Interest taken In ra-
dio since broadcasting stations have been started, many radio terms are
seen and heard that may be unfamillar seen and heard that may be unfamiliar
to the novice. Some of the most commonly used te
deflned below.
Like light, heat and sound, radio
energy Is
Like light, heat and sound, radio
energy is propagated in the form of a
wave motion. Wave motion. Every one is famillar
with the wave motion set up on the with the wave motion set up on the
surface of a stlll body of water by the dropplng of a stone into it.
Every time a point on the surface Every time a point on the surface
of the waves goes through a complete
get of motions and starts to repeat sot of motions and starts to repeat
those motlons the wave is sald to have
gone through a cycle. The number of complete cycles gone
turongh per second is the frequency. sound frequencles up to a few thousand
cycles per second but is not capable of cyeles per second but is not capable to the hlgher frequencles
respondter
encounter in radio. Arbitrarily a encountered in radio. Arbitrarily a
frequency of less than 10.000 cycles
has been collect frequency of less than 10.000 cycles
has been called an audble frequency
-one which can be heard-and fres -one which can be heard-and
quencles above 10.000 cycles, radio
teat quencles above 10,000 cycles, radio
tnaudible frequencles because the
cannot be heard by the huma cannot be heard by the human ear.
The particular type of wave whi
propagate propagates radio energy is an electro-
magnettc wave. All of us have seen
bits of fron and steel attracted by the
Itte It is the tiequency of the carrier-
wave that determines the wave- ength
on whth a radophone sation Is trans.
mitted. By experiment it has been on which a radophone slation is trans.
mitted. By experiment it has been
found that electro-magnettic waves travel at the same velocity that ligi.t
waves travel, that is, 186,000 milles per
second. Wave-length 18 the dist second. Wave-length 18 the disstance
between any two stmilar points on two successive waves; for example, the dis.
tance from crest to crest of successive waves in the same direction,
measured in meters, a unit of length
qual equal approximatery, a to one of and one-
tenth yards. Converting 186,000 metile
o meters, the 10 meters, the equervalient is $3000,000,000$
meters. The length of netic wave is equal then to enotoo,000,000
divided by the frequency. Suppose station was transmitting on a wave.
length of 3 me meters. The frequency ength of 380 meters. The frequency
of the carrier-wave would be approxi-
mately 835,000 cycles. Just as a violinist tunes his instru-
ment, emit a note of higher or lower pitch,
or, or, techntcally speaking, a sound wave
of higher or lower frequency, by ad-
fusting the tension on justing the tension on the string, so
may the electrical constants of the
untenna cer may the electrical constants of the
antenna circult of a radiophone trans.
milter be changed mitter be changed in order to hav
the statlon emit a carrier-wave of
different freguen arferent frequency.
If a tunng fork having a natura
period corresponding to placed near a voling inst to molddle C is playt
the fork will vibrate
cian clan plays middle C, but all other times
It will reme res It will remain qutescent. This phenom-
enon of the tuning
whenen whenever the tunsing fork vilan plays the cor-
responding note on responding note on the vilayin is is known
as mechanical resonance bits of tron and steel attracted by the recelver be adjusted so that electrically IIttle toy magnets made up in the form
of horseshoes. This attraction of the
of
length $)$ every time a station transmita
 Amateur Radio Operators Erecting Aerial on the Roof.
$\begin{aligned} & \text { field about the tip of the magnet and electrical resonance. Stations trans. } \\ & \text { this same kind of a field propagates } \\ & \text { mitting on any wave-length other than }\end{aligned}$ the ele

## the elec unilike off in

 of in the form of wavy motions. Thielectro-mag its power come electro-magnetic force propugates ra- Thanges the wave-length at which it
dio energy in all directions.
 tro-magnettc waves is the same me- tuner. Suppose that "At" station trans-
dium that a wave-length of 200 meters
 space, even that occupied by fluids and constants of the recelver make it elec
sollds. Little is known about its prop-
trically resonant to sollds.
ertles. of radio it is more common to sp
wave length of than frequencey. or
or
or
The
sta
sta Ne length than frequency. The stations can be picked up, but both
wave length of any wave motion is the peously. This is icked up simulta-
neene distance between any two successive neously. This is the reeson that more crests in the same direction. The at one tme and yet only one can be
wave lensth depends upon the fre- heard on a recelver without interferWave Le. If the frequency is high the ence from the others.
quency.
wave length is short. On the other The other necessary part of a radio
Ther wave length is short. On the other The other necessary part of a radio
hand if the frequency is low the wave recelver is the detector. The function hand if the frequency is low the wave recelver is the detector. reei function
length is tong. Numerically the wave of this porton of the reis
length is equal to the distance trav- utllize the small currents in the tuner eled by the wave in one second divided that are set up by a transmitting sta
ey the frequency. Suppose, for ex- tion and make them audible througit $\begin{aligned} & \text { by the freauency. Suppose, for ex- thon and make them audble through } \\ & \text { ample, that it were desire to know the medtum of a telephone recever. If } \\ & \text { the wave length of an electro-magnetic } \\ & \text { the telephone receiver were connected }\end{aligned}$
the the wave length of an electro-magnetic the telephone receiver were connected
wave having a frequency of 835,000
directly to the tuner the highwave having a frequency of 835,000 directiy to the tuner the high-rrequency
cycles. Electro-magnetic waves travel current would not operate the diacycles. Electro-magnetic waves travel current would not operate the dia-
at the same speed as do light waves, phragm of the recelver and even if the
th that is, 186.000 miles per second. D1 difaphraxm were set in motion It would
viding the 866,000 by 835,000 the wave be too fast a motton to be picked up length would be .223 miles or 396 by the human ear.
yards. In radto work it is measured In a simple recelver the detector usin meters. A meter is equal to ap- ually consists of two pleces of mitneral
proximatelv 1.1 yards. Convertlng 396 in contact or a piece of mineral in con-
 would be 396 divided by 1.1 or 360 combination Is known an a crystal de-
meters. This is the wave length on
tector. A detector of this stype is nothwhich KDKA operates. It also means ing more than a rectifler ; that is, when
that the electromgnate waves sent an alternating current is appled at the out from this station have a frequency $\begin{aligned} & \text { terminals the current is allo } \\ & \text { of } 835,000 \text { cycles. } \\ & \text { fow only th one direction. }\end{aligned}$
fundamental principles
In a radiophone transmitter there How One Editor Usees Radio.
re two requirements that must be are two requirements that must be The editor of a paper in an iso
fulflled. First, there must be a source lated town in the northwest is using
 15,000 and $1,500,000$ cycles so con- fective way. An ammateur radio frien
nected to an antenna and ground sys. In a blg city 50 miles away buys the nected to an antenna and ground sys. In a blg city 50 milles away buys the
tem that energy in the form of electro- $\operatorname{lntest}$ editlons of the chty papers a
In tem that energy in the formin of electro- intest editions of the city papers a
magnettc waves will be radiated. Sec. son as they are off the pres, reai
ond there must be some method of the best news into his transmitter, an ond, there must be some method of the best news into his transminter, an
controlling this high-frequency current a typst in the country oftice copies the or modulating it so that the varlations news as it comes in over the office re
in the emplltude of tha high-frequency
celver. The editor, through this In the amplitude of the high-frequency
current will be directly proportional
celver. The editor, through thts
gentous plan, is always "First
thit

## Delicious Sundaes

THE PUREST AND CREAMIEST CRESCENT ICE CREAM COVERED WITH A LIBERAL HELPING OF YOUR CHOICE FLAVOR AND YOU HAVE A DISH THAT IS BOTH SATISFYING AND REFRESHING.

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Starting Monday, May 15
aluminum sauce pan set
half price spectal bargain
1 quart, $11 / 2$ quart, 2 quart double lipped, highly polished outside, sun-ray finish inside, strong nickeled handles, rivited -hole for hanging.

A Bargain for one week

| Sardines- | corn flakes |
| :---: | :---: |
| Booths Cresent Sardines Mustard, Tomato Spiced large oval can, special for this one week sale 2 for 35c | Urma Corn Flakes, the <br> most dilicious oun ever <br> had, at a special cut <br> priec for this one week <br> sale <br> 3 for 25 c |
| ALPINE MILK- <br> "Come on in, the milk is fine," large size can, at a one week sale. | HONEY- <br> strained honey in one pint glass jars, at a one week bargain price. |
| 10c | 29c |
| fruit nips- | red quill |
| The best milk chocolate coating with cream and special price for one week. <br> 45 clb . |  |
| snow balls- | Tolle |
| a delicious Marshmallow covered cookie, at a one week special cut price |  |
| 34 clb . | 3 for 25c |

GRAHAM CRACKERS
fresh from the ovens of the Pasadena Biscuit Company Special cut price for this one week sale
the pound $17 \mathrm{c} \quad 35 \mathrm{c}$ package for 29 c
15 c package 12 c
Fe our Graham Cracker Window and Come in
taste how delicious they are.

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Take home a pound of Norris 1887 Coffee and see how
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1877 White Bag, lb
1887 Yellow Bag, lb
1887 Brown Bag, lb

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## Oif Town




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Sunday, May 14-
"The JOURNEY'S END" with MABEL BALIN, GEORGE BANCROFT and WYNDHAM STANDING. A picture without a single substitute. Also a International news reel Monday and Tuesday, Ma y $15-16$ -
Thomas Meighan (the Good Luck Star) and Beatrice Joy in "THE BACHELOR DADDY"
Five appealing little tots romp joyously through a great Thomas Meighan picture, and will win your heart.
Wednesday, Thursday and Friday, May 17-18-19
ORMA TALMADGE in "SMILIN' THROUGH"
One of the Greatest Love Stories of all Time
Also a one reel Scenic "The Great Outdoors
Saturday, May 20-
ACROSS THE CONTINENT" with an All Star Cast
Headed by WALLAcE REID
Headed by WALLACE REID
Also a MONTY BANKS COMEDY

