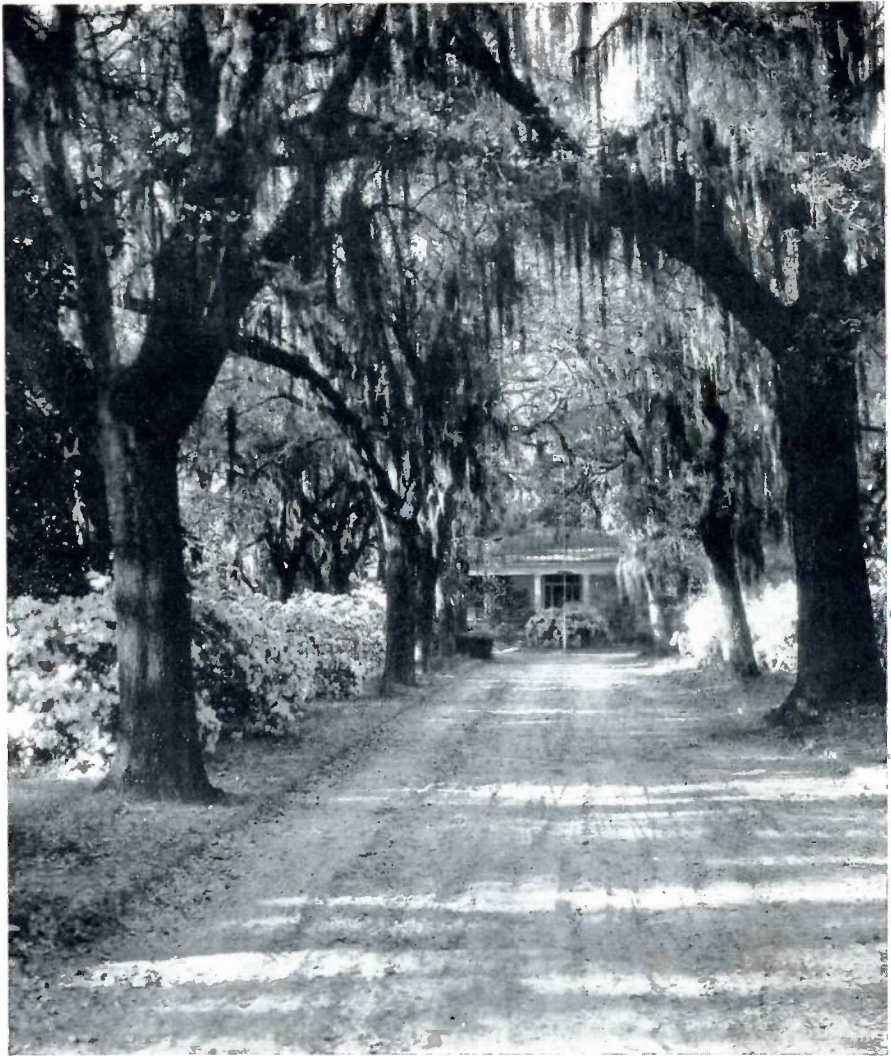


MUELLER RECORD

PUBLISHED AT DECATUR, ILLINOIS



TYPICAL SOUTHERN HOME

Photo by Querby—SEE PAGE 1

JULY, 1941

Accuracy
and
Accessibility



MUELLER

ENDURING YOKES



These are service returns that you want from meter yokes and returns that Mueller Lids give you in full measure.

There is no better combination for quick, easy access to the meter and no combination which provides more perfect protection to the delicate meter mechanism.

A special key for the pentagon recess in the lid prevents any unauthorized person tampering with the meter. **THE METER IS ACCESSIBLE ONLY TO THE PERSON DELEGATED TO USE THE KEY.**

The Mueller Special Worm Type Lock is used on all Mueller Covers. Made of bronze, it has great strength as well as freedom from rust.

Every part of this Mueller combination has been subjected to rigid tests to insure accuracy in service.

Meter yokes, covers, keys, etc., for various types of installation.

May we have your inquiries?

1857

MUELLER CO. Decatur, Ill.

DEPENDABLE SERVICE ALWAYS

1941

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THE FRONT COVER

The atmosphere of the old south is stamped all over and all through the beautiful picture on the front cover. It shows in the broad walk leading to a typical southern home of antebellum days, still preserved in all of its majestic dignity. Added to this is the grand old oak trees with their trailing Spanish moss, and lining the walk are two rows of azaleas in full bloom.

This was the home of Augusta Jane Evans, an authoress whose works were popular as late as 1907, although her greatest popularity was before and during the Civil war.

This authoress was born in Columbus, Georgia, in 1835, and in 1846 accompanied her parents to San Antonio, Texas, and later to Mobile in 1849. It was there that she wrote her first novel, "Inez," a tale of the Alamo. This was in 1850, but the work was not published until five years later. It was followed by a very popular story, "Beulah," published in 1859. Later works were "Margarita," 1864; "St. Elmo," most successful of all of her books, 1866; "Vashti," 1869; "Infelice," 1875; "At the Mercy of Tiberius," 1887; "A Speckled Bird," 1902; and "Devota," 1907. Her married name was Mrs. L. M. Wilson, and the greater part of her life was spent in Mobile, in the beautiful home shown in the picture.

FIRST POSTAGE STAMPS

The first postage stamps used in the United States were issued by individual postmasters at their own expense in 1845. The government took charge of printing and issuing stamps of various denominations on July 1, 1847. They still lack quite a few years of a centenary. So common are they now that no one gives them a thought except to "lick and stick 'em." There are thousands of persons, of course, who are interested in stamps—but they are collectors.

WHO BEST CAN WORK

God bless those good old faithful chaps
With happy smiles upon their maps,
Whenever asked to take a job,
You never hear them squawk or sob.
Right here a phrase comes back to me—
"Who best can work and best agree."

To me at least it would appear
Two kinds of folks run this old sphere—
The birds who smile and do the work
And those who crab and stall and shirk;
That's why I say God bless the guy
On whom you always can rely.

No matter what his faults may be,
He'll always stand ace high with me;
And he will crash those Pearly Gates,
Not only that I'll bet he rates
A bright and shiny golden crown—
This guy who never lets you down.
—Tom Fox.

MIGHT SWELL CENSUS

If the census enumerators last year did not get all the "gentlemen of leisure," they may swell the returns by special agents of the railroads. One trunk line reports: "Our special agents made 2400 arrests and in addition removed 70,000 transients from trains, interrupted the vacation plans of 39,000 brake-beam patrons and ejected from yards, stations, and other railroad buildings 67,000."

Neptune Moves Like Freight Train

In answer to a question, how long does it take each planet to go around the sun, Frederick Haskins in his "10,000 answers to questions" says: "Mercury, 88 days; Venus, 225 days; Earth, 365 days; Mars, 687 days; Jupiter 11¾ years; Saturn 29½ years; Uranus, 84 years; Neptune, 165 years.

Finders Keepers

Meteors do not drop every night or day but if you find one it is yours. So the courts have decided.

THE MUELLER RECORD

Published at Decatur, Illinois, by MUELLER CO.,
Manufacturers of Vital Spots Products for the Plumb-
ing, Water and Gas Industries.

C. N. WAGENSELLER, EDITOR

A LITTLE REPUBLIC

With Only 6,000 Population Has History Centuries Old

Andorra does not figure in the news headlines but it is not without interest. It is a small independent republic on the Spanish side of the Pyrenees, between the French department of Ariège and the Spanish province of Lerida. It has an area of 191 square miles and its history dates back many centuries. On the northern side of this little republic there are bridle paths leading into France. Andorra is a heavily timbered country, and this is a large source of revenue. The arable portion is limited but produces rye and vegetables. The country is rich in iron and lead, but the mines are very little worked, the cost of transport being a serious hindrance to their development. The chief wealth consists of cattle, mules, sheep, goats, and pigs.

Horse-breeding is among the more important industries. The population is about 6,000, made up of the Spanish race, Catholic in religion, and speaking a dialect of Catalan. The government is made up of 24 members elected by the heads of families. Each of the Suzerains is represented by a Vicar. The Bishop's Vicar holds office for three years and the French Vicar for life. These two Vicars and a Judge constitute the supreme court. The capital is Andorra la Vieille (old Andorra) a small town of 800 inhabitants, 10 miles from Urgel. The women of this strange little republic are not shown much consideration it appears—they are not permitted to eat at the same table with their husbands.

NINE TITLES OF MOTHER

Mrs. Horace Pratt, 52, Hannibal, N. Y., has nine different titles of motherhood, with a tenth in prospect. The titles run: mother, mother-in-law, grandmother, step-mother, step-mother-in-law, step grandmother, foster mother, foster mother-in-law, foster grandmother.

Prof. (to senior): "Spell 'straight'."

Senior: "S-T-R-A-I-G-H-T."

Prof: "Correct—and what does it mean?"

Senior: "Without ginger ale."

"BIG AS BASEBALLS"

Hail Stones Advance from the Old Time Goose-Egg Size

Everything changes, even the size of hail stones. In previous years the favorite comparison was "hail stones as large as goose eggs" but now it's "as large as baseballs." We believe anything we hear regarding the size of hail stones, but were not always so credulous. The idea of chunks of ice falling from the sky as big as a goose egg seemed out of reason until a hail storm hit Decatur some years ago. Chunks of ice, in many instances as large as a man's fist, fell and created a near panic. Few buildings with a western exposure came through without broken window panes. This storm was prior to automobiles and there were dozens of runaways during a single half hour and many persons sustained painful head injuries before they could reach shelter. From that day on we have accepted as true anything we hear about hail storms.

Convincing Evidence

The above was written some ten days before we had a light hail storm in Decatur, but a regular old rip-snorter at Bloomington.

Concerning this storm on May 22, and in substantiation of what we had said of hail, we quote from the Associated Press account of the Bloomington "ice shower."

"A violent wind and hail storm at Bloomington, Illinois, caused thousands of dollars in damage to greenhouse glass panes and windows in homes, broke off big limbs of trees, upset sheds and toppled a brick smokestack onto the Carl Niepagen greenhouse.

"Citizens in southwest Bloomington declared some of the hailstones were big as baseballs, by measurement, and that two hours after they fell some still measured two inches in diameter.

"George Washburn said damage to his greenhouse alone would amount to \$20,000. Officials estimated window glass was broken in some 500 homes and hail stones smashed through roofing material of some houses. Many automobiles were also damaged.

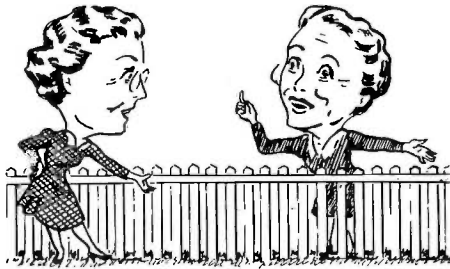
"Bloomington had 1½ inches of rain in less than an hour."

We are now looking forward to the day when hail stones will be as big as grapefruit.

Father: "Who broke that chair in the living room last night?"

Daughter: "It just collapsed all of a sudden, father but neither one of us was hurt."

LEAVE IT TO THE LADIES



The Party To Bet On

Canvasser: "Madam, I am taking data for the new political directory. What party does your husband belong to?"

Mrs. Peck: "Take a good look, mister; I'm the party."

Knock Out

Servant Girl: "Madam, master lies unconscious in the hall with a piece of paper in his hand and a large box alongside."

Wife: "Oh, my new hat has arrived."

Only Two Seconds Now

Wife: "What's the idea of coming home to dinner two hours late?"

Husband: "But, dearest, I've been run over!"

Wife: "It doesn't take two hours to be run over."

Hinting at Age

"Pardon me dear, but your stockings seem rather wrinkled."

"You brute, I have no stockings on."

The Brute

"Did you say your husband has been deceiving you?"

"Yes, the brute! He has been walking to the office and spending the bus fare I gave him every morning."

So Inconsiderate

Voice over wire: "Madam, your husband has been run over by a truck!"

"Good heavens! On the afternoon of my bridge party."

Right Combination

Lady Customer: "I see this medicine is advertised as good for man and beast."

Druggist: "Yes."

Customer: "Gimme a bottle. I believe it's the right combination to help my husband."

New Ammunition

He: "See that man over there? He's a bombastic mutt, a windjammer nonentity, a false alarm, a hot-air shrimp, a—"

Woman: "Would you mind writing that down for me?"

He: "Why so?"

Woman: "He's my husband, and I want to use it on him some time."

Hung Up to Dry

"Hello: is that the police station?"

"Yes, what's the matter?"

"I just wanted to tell you that you need not search for my husband. I found him myself. He had forgotten to take off his overcoat, and I hung him in the closet by mistake."

Dirty Comeback

Angry Wife: "Now that I have an electric refrigerator, see what you can do about getting a mechanical stenographer."

Mechanizing Office

Mr.: "I've just had my life insured for \$5,000."

Mrs.: "That's nice. Now I shan't have to keep telling you to be careful every place you go."

Clever Side Swipe

A newspaper publisher offered a prize for the best answer to the conundrum:

"Why is a newspaper like a woman?"

The prize was won by a woman who sent in this answer:

"Because every man should have one of his own and not run after his neighbor's."

Play Boys

Wife, reading newspaper: "Well, well, I never thought that firemen could be so childish."

Husband: "Why? What have they done?"

Wife: "It says here that after the flames died down, the firemen played on the ruins for several hours."

That For You

Mr. No-Trump: "You know, I just adore bridge. I could play it in my sleep."

Mrs. No-Trump: "Apparently you do."

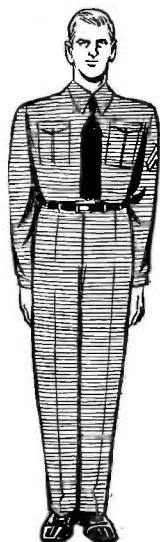
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"For every woman who makes a fool out of a man there is another woman who makes a man out of a fool."

Joe: "Will your wife hit the ceiling when you come in at this hour?"

Jim: "Probably. She's a rotten shot."

Odds and Ends from Different Sources



Before a country goes to war it must prepare for it, even though the initial step is a defensive one. This means more than guns and bullets, airships and tanks. In fact it means everything from a shoe lace to a battle ship. It means great activity in every branch of industry, many lines of which are always peacefully engaged when there is no smell of war in the air. Now, however, these industries are working feverishly to provide clothing, shoes, etc., for the young Americans in training for a year, as well as to meet eventualities of the future. What these may be no man can

predict with certainty.

Big Job Ahead

The following statistics of the big job ahead as a part of the defense plans are from a reliable source in the national capital. These industries are now producing for the army:

- 10 million khaki shirts
- 17 million pairs of pants
- 37 million pairs of socks
- 8 million pairs of shoes

These will be scarcely a drop in the bucket should the army be called into field service. The soldier's life is a rough life, and his clothing gets hard use and needs constant replacing.



Absorbing Knowledge

The ancient Egyptians had a lot of queer beliefs and superstitions as well as a lot of wisdom. The old boy in the illustration is one of those a bit "queer in the top of his pyramid." He is gurgling the contents of the jug of beer in an effort to gain the knowledge of wise men. He labors under the belief that after washing the writing off papyrus with beer, and then drinking the mixture, that he will absorb the knowledge contained in the writing. This would seem to be pursuit of knowledge under difficulties and by a questionable route. There is no royal road to wealth

and the same is true of knowledge, but there are still a lot of persons who have not learned this lesson.

Snuff Addict



Frederick the Great, king of Prussia, succeeded Frederick William I in 1740. There is a statue of him in Washington, D. C., presented to the United States by Emperor William II, in 1904. Frederick the Great kept himself busy fighting wars. He finished them in 1763. Although called Frederick the Great, like all men, he had his little hobbies. One of these was the collection of snuff boxes for which he is said to have paid \$4,000,000. Frederick was a warm admirer of Washington and appreciated his greatness in the Revolutionary War. He was one of the first European rulers to complete a commercial treaty with the United States after that war.

Hotel Succeeds Cabin

If you start on a trailer trip you should not have much trouble in finding a tourist camp. The latest count gives between 15,000 and 20,000 in United States and Canada. Many of these have outgrown the tourist camp status. The present day offers tourist courts, where first class hotels furnish entertainment.

Appearances Are Deceiving

"Well, she had appealed to him in countless emotional ways. She made him feel big, strong, valiant, courageous, protective—the latter bringing forth his latent paternal urges. This frequently occurs with men of 40 plus, and is probably the basis for that famous remark of the elderly lady, when she visited New York, that it was a pleasure to see so many fathers with their daughters!"

Someone Squealed

Salesman: "You put up a small deposit and then you make no more payments for six months."

Woman: "Who told you about us?"

Uniform Guilty

Major: "Don't you know how to stand at attention?"

Rookie in oversized uniform: "I am, sir. It's my uniform that is at ease."

P. W. DONOGHUE DEAD

Prominent Master Plumber at
Boston—Active in Public
Affairs



P. W. Donoghue

The plumbing industry has lost a valuable and worthy member in the death of Patrick W. Donoghue of Boston. He was president of the company bearing his name and was active in local, state, and national interests of the master plumbers.

He was a past president of the National Association of Master Plumbers (1931) and also of the Massachusetts State Association and the Boston Plumbers Association, and by appointment of Governor Frank G. Allen a member of the Massachusetts State Committee on Sanitation. Mr. Donoghue was a man of fine character and influential in the industry. From 1932 to 1936 he was the National Secretary of the Construction League of the United States, which shows that his ability and influence were recognized beyond the lines of plumbing.

He was deeply involved in plumbing code negotiations during the NRA, and in all his undertakings he showed a continuing loyalty to his beloved plumbing industry. Born in Ireland, Mr. Donoghue came to this country at the age of 8. The company bearing his name was founded 30 years ago, and it was one of the most successful businesses of New England.

MUST PAY LICENSE

Juke boxes, pin ball machines are becoming targets for license fees in many cities. The line between the legal and illegal devices of this character varies in different municipalities, as does the license fee. In Pittsburgh, says a municipal publication, the fee is \$1.00 a year, while in Madison, Wisconsin, it is \$50.00 per year for each machine. The paper referred to says the majority of cities collecting a license fee place the annual amount from \$10.00 to \$25.00.

Wedding Guest: "This is your fourth daughter to get married, isn't it?"

MacTight: "Aye, and our confetti's gettin' awful gritty."

WOODEN CROSS TIES

No Suitable Substitute Displaces Them
Despite Thousands of Patents

It would seem that in these days when things from dust pans to automobiles can be made of plastics, that there is nothing that is not susceptible to substitution. But one should not overlook the railroad ties. They came into the picture with the first railroads and are still on duty. It is claimed that no substitute has yet been found which successfully "absorbs vibration." This statement is credited to "Living and Forest Lands," and was prepared by the United States Forest Service.

Thousands of Patents

The efforts to displace the wooden tie runs into the thousands. Some twenty-five hundred patents for new ways of fastening down the iron rails have been filed in the patent office. The experts say that cheapness, elasticity, resistance to shock, and ease of replacement still make the wooden cross tie the favorite.

Millions Required

It requires about fifty-five million ties per year to keep our present railroads in repair. They have paid around \$120,000,000 annually for these timbers. In more recent years ties have been treated with creosote and this makes them last longer and in some measure reduces the demand. Oak has always been the principal cross tie wood. Chestnut was extensively used at one time but it is on the verge of extinction because of chestnut blight.

The life of a wooden cross tie is indeterminate. There are cross ties in service which are older than the average life time. The Illinois Central reports: "A seventy year old cross tie on the Illinois Central near Newton, Mississippi, still exudes pitch when the weather is warm."

Weather Vane

Hammered copper grasshoppers still surmount the weather vane of Faneuil Hall. It is said these were made by Deacon Shem Drowne, said to be the first professional artist in America. He was known as an artificer in metals and wood carving.

Drinking Water

The question of the quantity of water to drink in a day is largely a matter of taste and habit. For instance some individuals require large quantities early in the morning while others do not. Normal persons drink from six to eight glasses daily, which health officers say is the right quantity.

I'M TELLIN' YOU

©A.C.S.



● A Vox Pop asks a newspaper if "a guinea pig can be eaten." Of course it can, and it might be added that "rats and mice can be eaten," but our personal preference is to leave the job to cats.

● Let's see, what did Shakespeare say about Cardinal Wolsey, "he fell like Lucifer, never to hope again." That's the way some aviators fall—literally and figuratively.

● Andrew Jackson, Houston, 87 year old son of the famous General Sam Houston, has been appointed to fill out the term of the late Senator Morris Sheppard of Texas. Little late but a nice compliment.

● We are told that on White River, in Arkansas, that you travel 1000 miles, to reach a point a distance of 30 miles—so crooked it can't lie straight in its bed.

● You're tellin' me "that there were three men in a boat with four cigarettes but no matches. They threw out one cigarette and made the boat a cigarette lighter." Oh Yea! and like all others it wouldn't work.

● Answering the question as to the weight of the world someone speaking with the authority of a person who has weighed it says, "6,000 billions of billions of tons." Figure it out for yourself and take it home with you.

● An ornithologist says there are an average of two birds to the acre in this country. Must have made the count before the arrival of the starlings.

● A popular diversion is to roar about taxes but is not new. Benjamin Franklin did it in his day but tempered it with some of his well known philosophy. Said he: "The

taxes are indeed very heavy, and if those laid by the Government were the only ones we had to pay, we might more easily discharge them. But we have many others, and much more grievous to some of us. We are taxed twice as much by our idleness, three times as much by our pride, and four times as much by our folly; and from these taxes the commissioners cannot ease or deliver us by allowing an abatement." Nicely and truly said.

● A chiropodist attached pedometers to different persons and found: A hospital interne walks 18 miles a day; a chorus girl dances 4 miles each show; a policeman covers 14 miles daily (no test on night coppers); a salesman on the hoof covers 10 miles; stenographers, 8 miles; while a railway conductor rides all day and walks 5 miles while doing it. What the world needs is a volubility meter—there is a lot more "talk" than there is "walk."

Hot Weather Rules

With the season of heat waves upon us once more it might be well to review a few of the well-known don'ts for those who can't—and that's almost all of us—get away to seashore or mountains.

DON'T over-dress. Wear cool, comfortable clothing.

DON'T over-exercise. Make your recreation fit the weather.

DON'T over-eat. Eat seasonable foods and not too much.

DON'T try to get that sun-tan all at once. A little at a time lasts longer and is healthier.

DON'T go out too far when you swim. It's just as cool to swim within your depth and less dangerous.

And last, but not least—

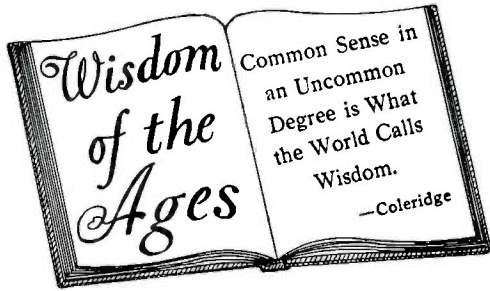
DON'T drive like mad when you're trying to escape the heat on the open road. Remember that when you do yours is **NOT THE ONLY LIFE IN DANGER.**

Third Degree

A business man was examining applicants for the job of bookkeeper.

"Of course you understand double entry?" he asked.

"Nothing to it," said the applicant. "Why in my last job, I kept the books triple entry—one set for the boss, showing the real profits; a second one for the stockholders, showing no profits; and a third set for the income tax people, showing a loss."



Shakespeare:—

Be just and fear not; Let all the ends
thou aim'st at be thy country's, thy
God's, and truth's.

A real patriot.

Southern:—

Thy words have darted hope into my
soul,
And comfort dawns upon me.

Plato:—

Princes are never without flatterers to
seduce them, ambition to deprave them,
and desires to corrupt them.

Three of a kind.

Whateley:—

The word knowledge strictly employed
implies three things, viz: truth, proof,
and conviction.

And still three of a better kind.

Gilpin:—

Some relaxation is necessary to peoples
of every degree; the head that thinks
and the hand that labours, must have
some little time to recruit their dimin-
ished powers.

All work and no play makes Jack
a dull boy.

Chesterfield:—

Frequent and loud laughing is the char-
acteristic of folly and ill-manners. True
wit never made a man laugh.

To be witty is to be clever.

LaBruyere:—

Avoid law suits beyond all things; they
influence your conscience, impair your
health, and dissipate your property.

And win or lose you got to pay fees.

Richter:—

Letters which are warmly sealed are
often but coldly opened.

And thrown away.

Epictetus:—

Liars are the cause of all the sins and
crimes in the world.

But as Prudentum says—all truths
are not to be told.

Colton:—

Were we as eloquent as angels, yet
should we please some men and some
women much more by listening than by
talking.

Those who do not listen do not learn.

Cicero:—

To live long it is necessary to live
slowly.

Knowing the end, why hurry?

Dryden:—

Men are but children of a larger growth.
Evidence of this comes to daily notice.

Isaiah:—

They shall beat their swords into
ploughshares, and their spears into
pruning hooks; nations shall not lift
up sword against nation, neither shall
they learn war any more.

Not in these days.

Voltaire:—

The discovery of what is true, and the
practice of that which is good, are the
two most important objects of philos-
ophy.

Most Commendable object.

Colton:—

If rich, it is easy enough to conceal
our wealth; but if poor, it is not quite
so easy to conceal our poverty. We
shall find that it is less difficult to hide
a thousand guineas than one hole in
our coat.

In breeches it may be hidden by sit-
ting down.

FROZEN FOOD

Gas and electrified refrigerators have
gained wide popularity within a decade.
Thousands of families now enjoy the con-
venience of these domestic cooling devices.
The old fashioned ice box is becoming a
rare article regardless of the increased cost
of gas and electric equipment. The price
and usefulness is lost sight of.

Another method of refrigeration, gaining
in popularity, is the frozen food lockers
provided by some 3,200 public plants. In
these lockers it is possible for patrons to
purchase large quantities of perishable food
at wholesale, store the food in these public
plants to be withdrawn as needed. There are
now 1,000,000 of these lockers in use in the
United States, an increase of about 200,000
during the last year.

Family Fortune, American Plan

Grandpa worked from sun to sun,
And grandma's work was never done;
But father has an eight-hour day,
And mother lots of time to play;
Dear sonny feels an urgent call
Toward living without work at all;
And daughter's life's too great a bore
For even playing any more;
But things can't stay so very wrong.
Next generation comes along,
And they again have all the fun
Of laboring from sun to sun.

—Mabel Kelley.

In The Army Now



Suit Yourself Sarge

Quartermaster Sergeant to Rookie: "Well, speak up there—how do you want your uniform—too big or too small?"

May Need Sand

"So you complain of finding sand in your soup?"

"Yes, sir."

"Did you join the army to serve your country, or complain about the soup?"

"To serve my country, sir—not to eat it."

On the Quiet

Lieut.: "Why didn't you salute?"

Pat.: "Well, sir, I didn't want to attract more attention than necessary, because I'm not supposed to be out without a pass."

Narrow Escape

Colonel: "You say you served with the army in France?"

Cook: "Yes, sir. Officers cook for two years and wounded twice."

Colonel: "You're lucky, man. It's a wonder they didn't kill you."

Dig In

First Recruit (digging ditch): "Do you remember the big posters saying 'Enlist and see the world'?"

Second R.: "Yes, but why?"

First R.: "Well, I didn't know we had to dig clear through it in order to see it."

Crushed Berries

Guard: "Sorry, but you will have to go around to the main gate."

Lieut.'s wife: "Oh, but we're the Lieutenant Berrys."

Guard: "Lady, I don't care if you're the cat's meow! You can't go through this gate."

Worse Than War

First Vet: "I see a lot of guys are getting married so they won't have to go to war."

Second Vet: "Chumps! War may be bad—but it ain't that bad!"

Hopes for Improvement

Fond Mother's letter: "I hope that you have now learned to get up punctually

every morning so that you do not keep the whole battalion waiting for breakfast."

Shorthand Men

Sarge: "Any of you lads know anything about shorthand?"

Six men held up their hands.

Sarge: "Righto. They're shorthanded in the cookhouse. Get a move on you."

No Ear For Music

Sarge: "How come you didn't turn out? Didn't you hear the bugle blow reveille?"

Draftee: "Honest sergeant, I'm afraid I'm going to be a flop as a soldier. I don't know one dern tune from another."

Just Willing to Go

Sarge: "Thought you got leave to go to your mother-in-law's funeral. You didn't go?"

Private: "Sorry, sir, but I really didn't say the wife's mother was dead. I just said I'd like to go to her funeral."

Unaccounted For

A draft questionnaire was mailed to a colored man and returned to the senders with this scrawled on the back: "Listen, Ruben has done left me for three months and I don't know whar he is this is his wife telling you this."

Round After Round

It was "around and around" the mulberry bush getting a traveling auditor into the service. His record: Registered in Philadelphia; got his order number at Worcester, Mass.; questionnaire at Cleveland; physical check-up, Omaha; check-up, Kansas City; he had volunteered in Nazareth, Pa.; was in Bath, Pa., when ordered to report for service and took his physical examination at Wilkes Barre, where he was inducted.

Forethought

The young Negro recruit was the victim of so many practical jokes that he doubted all men and their motives. One night while he was on guard, the figure of one of the officers loomed up in the darkness.

"Who goes dere?" he challenged.

"Major Moses," replied the officer.

The young Negro scented a joke.

"Glad to meet yuh, Moses," he said cheerfully, "advance and give de ten commandments."

■ ■ ■

"Is your husband a member of any secret society?"

"He thinks so, but he talks in his sleep."

Always Something New

A portable window type air conditioner for a single room at a time. Capacity of 5700 B.T.U. Provides controlled ventilation, acoustical treatment to subdue outside noises, and a mixture of outdoor room air in any proportion desired.

Protection of morning milk delivery against weather, accidents, cats, and dogs is furnished by a simple bracket which holds bottle firmly by the neck on door or wall. Bottles easily fastened and taken down but cannot be accidentally dislodged.

A trailer for handling boats up to 16 feet for one man control. Hand lifting unnecessary. A winch is used for loading the boat and to pull the loaded trailer up the embankments. Capacity 500 pounds.

A magnetic gauge to measure the thickness of sheet metal when only one side is accessible. Especially valuable for checking center and other points of wide sheets of steel. Accurate to one one-thousandths inch.

Clear plastic house address number. Reflects scatter so that it is clearly visible day or night. The back is embossed with a series of tiny parabolas to catch and reflect light. Letters will similarly be manufactured.

A new file has slots between the teeth to allow chips to pass through. Works like a plane, will not clog on the softest metal. Efficient on non-ferrous metals formerly difficult to file, and cuts plastics, hardwood, and similar materials.

For patching holes, ruts, worn places in concrete floors there is a new non-shrinking patch which adheres tightly to the concrete, sets up overnight, dries harder than the concrete, and withstands industrial traffic.

A new remover for finishes is said to have extraordinary solvent power, removing many coats with one scraping. Leaves no waxy residue, does not need washing or neutralizing and a new finish can be applied immediately. Said to be harmless to wood or metal.

A new gadget for making shoe-string slices of potatoes or other vegetables is slipped over a paring knife and makes six even slices at one cut. Works equally well for either right or left handed persons.

A coin saving bank of transparent plastic with separate compartments for nickels, dimes, and quarters so that they will stack. Figures on the side indicate the value of each denomination of the coins deposited. Molded in two halves, it is fastened with a lock operated by a small key.

A flat, slightly curved, bronze spring which holds the window sash in position even though the cord be broken. Requires no mortising or recessing for installation.

MATERNITY WARD

❖ Twins, Trips & Quads ❖

The quadruplets born to Mr. and Mrs. Porter Lashley, Litchfield, Kentucky, February 21, are still in a Louisville hospital making fine progress. At birth their aggregate weight was 18 pounds and 12 ounces. Today their aggregate weight is 35 pounds and 8 ounces. The "quad" is made up of three girls and a boy.

Roy Hostetter, aged 46, and wife, aged 42, Uniontown, Pa., recently announced the birth of their 22nd child, Delores Marlene. In an effort to enumerate the children the parents admitted they got "some of their names wrong." The attending physician at the birth of the "last" baby, Delores, delivered the first child born to the couple 25 years ago. Sixteen of the 22 children are living.

Time Marches On

The Springfield Armory at Springfield, Mass., was the first U. S. Arsenal and was originally established in April of the year 1778. All of the early guns and small arms were laboriously made by hand, a month being required to turn out 20 flint-lock muskets.

Where the River Shannon Flows

The Shannon is the longest river in Ireland and the United Kingdom. Below Limerick it widens into an estuary 56 miles long and two to ten miles wide. Many lilt-ing Irish ballads have been written about this famous river.

TWO WRONG—ONE RIGHT

Its About a Fair Average on the Way
Men Drive Cars



The accompanying illustrations show how many men drive cars—two wrong and one right—that seems to us a fair average. Most automobile accidents, it is shown by statistics, are the result of inattention and carelessness. Then, too, there are thousands of drivers who have no sense of responsibility or obligation to the public or to other drivers. They roll along merrily, blissfully, unconcerned of the constant hazard confronting them.

In the first illustration is a man who can smoke and drive with one hand while he looks "them over on the sidewalk." Were you to ask him what he is doing he would answer you wisely but facetiously that "I am trying the 'pick up' of my car." In plain English he is ogling the girls and hopes that he will succeed in inveigling one of them to risk "walking home carrying her shoes." This class of drivers are a menace to pedestrians and other drivers.

In the second illustration we have an equally dangerous man behind the wheel—the man who leaves home in a huff, is sore at himself or at something that has happened during the day. In other words, he is preoccupied and paying no attention to his driving. In a situation calling for quick thinking or quick action his mind would not

respond. Drivers of this class are also a menace.

And the third man shows how to drive a car—alive, alert, eyes on the road, mind on his driving, wide awake, and ready to cope with emergency.

What a blessing to all if there were more drivers like him—there would be fewer funerals and fewer persons maimed and crippled for life.

■ ■ ■

AN ANCIENT OFFICER

Coroners On the Job for Some
Seven Hundred Years

The office of coroner is of ancient vintage. It is about 640 years old. In that time there has been little change in the laws governing acts of the coroner. It was instituted in England in about 1300 and it was proscribed "that a coroner of our Lord the King shall go to the places where any be slain, or suddenly dead and command four, five, or six townsmen to investigate."

That's about all the coroner does now. In Illinois he summons six men and holds an inquest, in many of which the victim has died a natural death. In Illinois the coroner's only hope for greater glory and importance lies in the death of the sheriff, whereupon the coroner temporarily acts in his place. This seldom happens. Sheriffs as a rule are a rather husky bunch with a habit of living not only through their four year term but long enough to fill several terms, were it not for an Illinois law which prohibits a sheriff from succeeding himself in office.

■ ■ ■

High Flying

What happens to the physical condition of a man who flies 15 hours non-stop through the sub-stratosphere? The answer, it was proved recently, is—nothing. This fact was established on a record-breaking army flight of 3,000 miles from Dayton to Shreveport to Dallas and back to Dayton—non-stop! With the flight plan calling for a minimum altitude of 15,000 feet, oxygen equipment had to be used frequently. None of the crew was affected by the test.

■ ■ ■

Good Reason

Plumber: "Why do you want such a big kitchen sink?"

Customer: "Well, when my wife leaves in the summer, she's generally gone for a month."

■ ■ ■

Your little child is your only true democrat.

NOW SUPERINTENDENT

H. H. Brown Advanced to Important Position—Has Fine Record



H. H. Brown

H. H. Brown assumed his duties of superintendent of the Milwaukee Water Works with a fine background of experience which fits him for the responsible duties of his position.

Mr. Brown graduated from the University of Wisconsin in 1917 with a B.S. degree in Civil Engineering. In 1932 he received his C.E. degree

from the University of Wisconsin.

Military Record

Instead of going into active practice on graduation Mr. Brown entered military service of the U. S. and remained there until 1919, being overseas for about one year as Captain of Infantry. Returning to civil life he devoted his time from 1919 to 1922 with different local manufacturing concerns of Milwaukee. From 1922 to the present time he has been in the service of the city of Milwaukee and has steadily advanced to the present responsible position he now holds.

Engineer of Design and Construction

From 1927 to 1934 he was engineer in charge of design and construction of pumping stations which work included:

Reconstruction of North Point Pumping Station.

Installation of pumping machinery and boiler equipment at the Riverside Pumping Station.

Construction of a High Pressure Pumping Station for the Fire Department.

Construction of two 1½ M.G. Elevated Tanks.

Construction of two 6 M.G. all welded steel storage tanks and a 90 M.G.D. booster station.

His other activities with the Milwaukee plant include:

1934-1938—Engineer in Charge of Design and Construction of the 200 M.G.D. Water Purification Plant.

1938-1941—Special Assistant Engineer on special problems for the City Engineer.

Coordinator for city on all PWA work.

February 10, 1941—Appointed Superintendent of Water Works.

Association Memberships

Mr. Brown holds membership in the following organizations: American Society of Civil Engineers; American Water Works Association, at present National Director representing Wisconsin; West Shore Water Producers Association; Association of Municipal Engineers.

Truly Qualified

From this record it is apparent that he is amply qualified by education and practical experience to fulfill and correctly solve the big problems which are inevitable in a modern water works plant such as that of the city of Milwaukee—a plant, by the way, which rates high in modern equipment and efficiency in the water works industry of this country.



ONE OF SAFEST PLACES

Fear of Bath Room No Longer Excuse for Not Bathing

Investigation as a rule brings out the facts to replace errors in thoughts or actions. For many years the bath room was regarded as the greatest hazard in the home—the cause of the greatest number of accidents. Now the tub has been washed clean and stands forth in all of its glory. So good is its record that it is not given individual listing in a recent survey but is classified with the “also ran” group.

The National Safety Council made a survey of 4600 homes in Chicago and the finding is given in per cent in the following causes of accidents:

Stairs and steps.....	23 per cent
Yard	19 “ “
Kitchen	18 “ “
Living room	9 “ “
Porch	7 “ “
Bedroom	7 “ “
Basement	6 “ “
Other rooms including dining room, bathroom, pantry, vestibule and hallways.....	11 per cent

The findings of the National Safety Council check with a study of accidents made by the Metropolitan Life Insurance Company which indicated that the bathroom accounts for less than one-half of one per cent of household accidents.

As a means of further reducing the number of accidents in bathrooms, the Plumbing and Heating Industries Bureau suggests the replacement of high tubs on legs with the modern low streamlined baths only 16 inches from floor to rim; the replacement of china handles with metal handles; and the installation of grabbars over the tub, particularly if there is a shower.

"Ads," Signs, Names

SOME QUEER NAMES

One Wonders How Small Towns Got Them

The nomenclature of towns in this country is an interesting study. Many names can be traced back to the early settlers, by the similarity to proper names, and others bear the earmarks of some humorist or joker. Among men it is said the meanest thing that can be done is to give them nicknames. They stick through life and the same is true of names given towns. In illustration of these read the names of stations on the Illinois Central system.

Kentucky—Alms House, Horse Branch, Gravel Switch, Kuttawa, Shorts, Tip Top, and Curfew.

Mississippi—Bee Lake, Chaney, Chunky, Duckhill, Glass, Guide, Hushpuckena, Love, Lux Money, Onward, Piney Woods, Stout, Soso, Ten Mile, Tie Plant, Wax Haw, White Apple, Van Winkle, Abbeville, and Zelleria.

Louisiana—Bone Gap, Cottage Farm, and Riddle.

Illinois—Boskey Dell, Cereal, Gale, Justice, Kumler, Monee, Oblong, Sand Ridge, Scales Mound, Shop Creek, and Risk.

Tennessee—Curve, Felts, Flippin, Rialto, and Tank No. 2.

Iowa—Ells.

Wisconsin—Dill.

Indiana—Poseyville.

Unintentional truth in advertisement in Elgin Courier: "39 Ford Coupe, heater, won't last long. \$427.00."

Moving picture sign in Ashland, Ky., for double bill: "Escaped" and "Caught in the Act."

Max J. Money is a bank director at Paris, Illinois.

Sign in New York window: "Give till it hurts Germany."

United States Senator Claude Pepper delivered a "peppery" speech in the Senate in support of convoy, etc. It was certainly full of "Pepper."

COAL TAR PRODUCTS

Scientists Find Many Uses for Tar Formerly Overlooked



Coal tar is not pretty to look at, does not smell good, although used in perfumery, and in the raw state is unpleasant to handle. In our juvenile days none of these objectionable features had any force of argument

strong enough to keep us away from the gas house. In those days the possibility of numerous bi-products were not generally known and the tar was allowed to ooze out on the banks of the Illinois river. It was there we rolled it into black balls, got it on our shoes and clothing, and even attempted chewing it for gum. Subsequent castigation in the dark depths of the woodshed was only a temporary deterrent. The alluring charm and mystery of the gas house were magnets drawing boyish curiosity to forbidden spots.

Suspected Something

We always felt that coal tar must be good for something besides getting on shoes and clothing. Now industrial research men have proved it. Coal tar and its compounds has produced aniline dyes, explosives, drugs, fertilizers, plastics, flavoring substances, benzene, and many other commercial products too numerous to mention.

Our satisfaction in all this is a justification of the juvenile curiosity which pointed our footsteps unerringly to the gas house for exploration and investigation of coal tar—and pointed them then to the woodshed.

■ ■ ■

Couldn't Miss The Chance

"Yes," said the young lady, "I've decided to marry Oswald Potts, father."

"What!" he ejaculated. "You're going to marry that insignificant little fellow? Why you've always said that you'd never marry anyone under six feet."

She shrugged her shoulders.

"I know, dad," she replied, "but I've given the matter serious thought, and I've decided to knock off twenty per cent for cash."

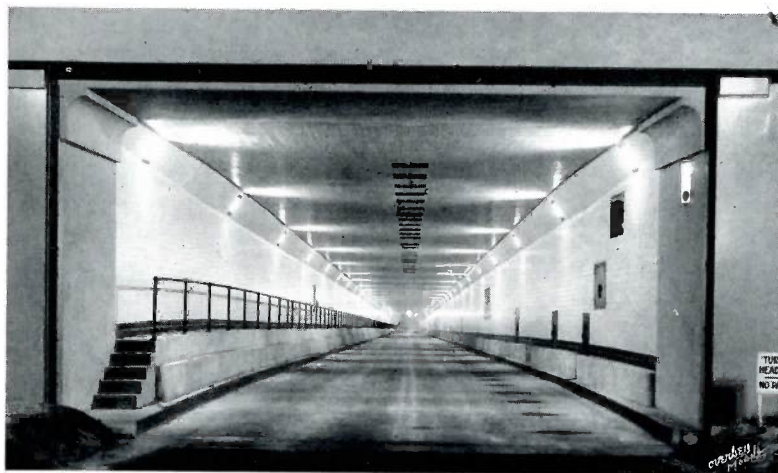
■ ■ ■

Convict: "I am here for having five wives."

Visitor: "How do you enjoy your liberty?"

BANKHEAD TUNNEL

Gives Autoists Thrilling Ride 69 Feet Under Mouth of Mobile River . . . Fine Engineering Technique



Bankhead Tunnel at Mobile

Here is a wonderful 3,389 ft. vehicular tunnel under the mouth of the Mobile River at Mobile, Alabama. Among other things, it cuts off seven and one-half miles of the distance between the city and points to the north and east via U. S. Highway 90, one of the most heavily traveled trunk line highways in the nation, entering from the east. The tunnel was opened for use in the early spring, and immediately heavy traffic began pouring through it. It is known as the Bankhead Tunnel, and is the first engineering feat of its kind in the Deep South. It's cost was \$4,000,000.

Long A Controversial Question

The question of a bridge across the river had been up for the past twenty years, but inevitably there arose a controversy between waterborne commerce and vehicular traffic. Mobile receives 60 per cent of its income from water borne commerce and its allied services. The bridge idea, therefore, was not generally popular. A tunnel under the river seemed the logical solution.

Mr. Palmer's Plan Approved

In 1938 Wayne F. Palmer, of the firm of Wilberding and Palmer, Inc., Engineering and Financial Consultants, placed before the city commissioners a tunnel plan which was recognized as feasible. The city commissioners and Alabama's United States Senators, John H. Bankhead and Lester Hill, threw their influence behind the project, and from that point the work moved forward rapidly. The Public Works Administration

issued a grant of \$1,500,000, and the remaining \$2,500,000 was loaned by the Reconstruction Finance Corporation, secured by revenue bonds.

Trench Method Used

The Bankhead Tunnel was not bored through the earth, but was constructed by the trench method. The 2,000 ft. steel and concrete tube was mostly built in seven sections above the river's surface. These sections were sunk into position in a dredged trench cut across the river bed.

Each section of the tube began as a circular shell of steel 298 ft. long and 30 ft. in diameter, within another exterior, octagonal shell. Each was launched shiplike, and while afloat human spiders moved within it, spinning webs of reinforcing steel, pouring the massive concrete lining and roadway.

The tube sections, each in its turn, were sunk into place and held forever by thousands of yards of tremie concrete poured into the exterior octagonal hull. As it passes under the Mobile ship channel, the top of the tunnel is a maximum of 47 ft. below water level. Joints were secured by a system of linking ratchets which drew projecting collars of steel deep into heavy cord and rubber gaskets, and each joint was then welded from within and "bandaged" without and within by massive rings of concrete.

The Brains of the Tunnel

A peculiarly utilitarian structure was
(Continued on Next Page)

reared on the skyline of Blakely Island. It's the ventilation building containing the control room. This is called the "brains" of the tunnel. In it are three of the largest blower fans ever built for tunnel use. At the switch board an operator controls lights, pumps, ventilation, fire, and police alarms, as well as every phase of operation throughout the facility. Fresh air is renewed every two minutes.

Protecting Flood Gates

There are giant flood-gates at the Blakely Island portal to seal out trouble, should hurricane waters ever rise high enough to enter the tunnel.

Twenty-two months were required for the building of the tunnel, said to be a record for rapidity in construction work of this type.

Proud Day For Mobile

Mobile is proud of it because it is distinctly a Mobile undertaking, done by Mobile engineers, with Mobile labor. It is a lasting and impressive monument to the Deep South's new-found leadership in the nation's industrial and commercial expansion.

The engineering problems of the tunnel appeal to and are appreciated by members of the profession, and while this may not be so well understood by the laymen, it will at least be a source of wonder that man's ingenuity can conjure such seemingly impossible marvels.

Statistical

Total Cost	\$4,000,000
Public Works Administration	
Grant	\$1,500,000
Sale of Bonds to the Reconstruction Finance Corporation.....	\$2,500,000
Total Length	3,389 ft.
Distance between portals.....	3,109 ft.
Length of Under-River Portion...	1,147 ft.
Length of Tube Section.....	2,000 ft.
Length of Steel Bent Sections....	1,109 ft.
Roadway Width	21 ft.
Internal Diameter of Tubes.....	30 ft.
External Diameter of Tubes.....	36 ft.
Maximum Depth, mean high water to top of tunnel.....	47 ft.
Maximum Depth, mean high water to roadway	69 ft.
Maximum Depth, mean high water to bottom of tunnel.....	81 ft.
Maximum Length of Sheet Piling used in construction.....	97 ft.
Maximum Length of Single Steel Tube before joining to tunnel...	298 ft.

A discouraged traveling salesman recently wired his house as follows: "If Hitler wants more territory, he can have mine."

—Calumet.

MEET WALTER STAHLHUT

New Mueller Salesman to Travel in North and South Carolina



Walter Stahlhut

Walter Stahlhut left Decatur on May 4 for the territory of North and South Carolina, where he will ease the loads of R. E. Kirchner and B. F. Kitchen, the two salesmen who have been traveling this territory for years. This will enable Kitchen to give more time to his customers in Florida and Georgia, while Kirchner will still cover parts of Delaware, Maryland, Pennsylvania, West Virginia, and Virginia.

Stahlhut has been a salesman in Spokane, Washington, and San Francisco, California, for a number of years, but when he decided to come east it was fate that made him choose Decatur. He moved his family, consisting of his wife and three children here, and set about looking for a job. His experience as a salesman served him well, and on February 21 he went to work in the shipping department to learn about Mueller goods. From a fine record as salesman on the west coast, to plumbing, water, and gas brass goods on the east coast, we believe Mr. Stahlhut can play just as good a tune on brass goods as he did with other goods. Mrs. Stahlhut and Walter, Jr., Jimmy, and Jean will soon leave to join Mr. Stahlhut, probably in Charlotte, N. C.



Low Brow—High Brow

Low-brow is person who likes peppy stories, girlic shows, and good times—high brow is low-brow who won't admit it.

Give Her A Chance

Passenger: "Captain, is she a good ship?"
 Captain: "Sure, this is her maiden voyage."

FALCON LONG LIVED BIRD

Claimed One Reached the Age of 180 Years

Some birds live to a very great age. The Falcon is one of them, says Frederick J. Haskins in his "10000 answers to questions." It is claimed that a Falcon, found in France in 1790, had a collar of gold dated 1610 and showing it to have belonged to James I of England. Falconry, which is the art of training Falcons to hunt and take game, was at one time a popular sport in England. However it is believed that this art was known and practiced in China some four thousand years ago. It was early practiced in other eastern countries and continental Europe. In England it was the chief sport of the aristocracy from the days of Alfred to James I. It is said to be coming back again. It is also practiced in France and Holland and to some extent in this country. Training these birds to pursue and bring back certain kinds of game is a long and tedious task.



The gull is strictly a marine bird. It is a large family, of different habits and locations. It is said these birds are officially recognized by the weather bureau, because of an instinct which makes them apprehensive of an approaching storm. When the birds sense weather changes at sea they fly landward in advance of it.

The encyclopedia lists six varieties of gulls: Kittiwake, Ring-billed, Laughing, Great Black Back, California and Herring. The Kittiwake, familiar on the northern coast, is a noisy rascal frequenting the northern coast while the Herring gull is referred to as large and handsome.

The Eagle is another long lived bird having been known to reach 100 years. Records of zoological societies show various varieties of Eagles in captivity have lived from 40 to 55 years.

Just how long Wild Geese live is not so easily proved but there is one authentic case of a pair of Canadian Wild Geese captured in Chesapeake Bay in 1855 which lived until 1923—sixty-eight years.

The ostrich is the biggest of birds. A fully developed male stands nearly eight feet high and weighs 300 pounds.

FORGOT THE LAW

Centralia, Illinois, Complained When It Already Had An Ordinance

Ignorance of the law is no excuse. This is an axiom. One might grant that an individual could offer this as an excuse and a valid excuse, especially when laws are so numerous that one wonders what there is left unlawful which justifies legal correction.

When men pass laws and then forget their action is an entirely different thing. Such was the recent experience of the authorities of the city of Centralia, Illinois, where the ring of engine bells and the never ending tooting of whistles got on the nerves of the residents of the town. An anti-noise campaign was inaugurated and the city council appealed to the railroad officials to cease so much bell ringing and whistling.

The wise head of one of the railroads asked for a copy of the city ordinance covering the alleged nuisance.

And then the town council fell back aghast and chagrined. The record showed that in 1896 a regulating ordinance was passed requiring that "railroad engine bells be rung continuously while engines were being operated inside the city limits, that whistles be blown at every crossing and that speed of engines be limited to ten miles."

Let's see! what is that old saying about not taking your own medicine.

CAMPBELL'S LINES APPROPRIATE NOW

The meteor flag of England
Shall yet terrific burn;
Till dangers troubled night depart
And the star of night return.
Then, then, ye ocean-warriors!
Our song and feast shall flow
To the fame of your name,
When the storm has ceased to blow;
When the fiery fight is heard no more,
And the storm has ceased to blow.

T. Campbell.

I don't translate my own convenience into other peoples duties.—George Eliot.

Two Virginia Marvels In Rock Formation

The Old Dominion

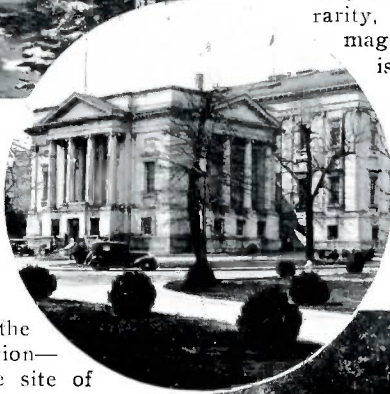
**RICH IN HISTORY, MEMORIES,
ROMANCE AND MARVELS
OF NATURE**



The Natural Bridge

Right: State House

*Carry me back to old
Virginia
There's where de cotton
and the corn 'n taters
grow—*



The Old Dominion—the birth place of a great nation—Jamestown, 1606, was the site of the first permanent English settlement. It is rich in historical memories, the birth place of immortal statesmen, a land of romance and traditions, still faithfully cherished and maintained. The Old Dominion has given us eight presidents and many other great men, who stand out prominently in our social, civil, and military history. It was in this state that the first representative assembly in America met in Jamestown.

Nature Was Generous

Nature has been generous to the Old Dominion and within its borders are some of the marvels of the world. Perhaps the best known of these is the Natural Bridge, accredited with being one of the "seven wonders of the world." This is located near Lexington. The bridge is of rare rock

formation. It impressed the Indians long before white men settled in the state.

Jefferson and Marshall's Comment

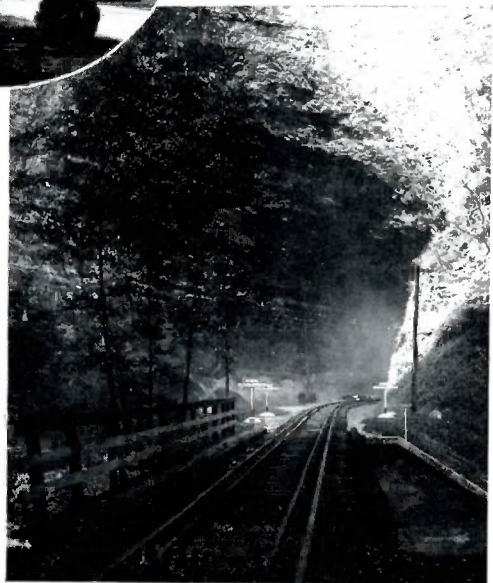
They revered it, and it was a source of admiration to Thomas Jefferson, who once owned it. John Marshall, first chief justice of the United States, called it "God's greatest miracle in stone," and Henry Clay described it vividly as a "bridge not made by hands, that spans a river, it carries a highway that makes two mountains one."

It is illuminated at night when a pageant is presented, and its magnificent ruggedness is greatly enhanced under artificial light.

An illustration of this marvel conveys only a suggestion of its interesting rarity, but gives no idea of the magnitude of its proportions. It is located in Rockbridge county and bridges a stream known as Cedar Creek. It is the sole remainder of the limestone bed which once covered the entire district.

Figures Give Size

It is about 215 feet high,



The Natural Tunnel

from 50 to 150 feet wide and has a span of about 90 feet. It has been formed by a subterranean river which has cut out the groove. It is situated in a beautiful and interesting gorge, in which is the Lost river whose rumblings can be heard in many parts. The bridge is crossed by a public road. It is much better known than Natural Bridges National Monument in southern Utah, which covers 2,740 acres and contains several natural bridges, one with a span of 261 feet.

Natural Tunnel Another Marvel

Another marvelous formation in Virginia, quite the reverse of the Natural Bridge, is the Natural Tunnel in Scott County. This is a natural passage through the mountains. Not so well known as the bridge, it vies with it in grandeur and breath taking wonder and astonishment. Here nature has carried on an astounding miracle. Through this tunnel runs a stream of water which helped carve it. Seizing an advantage a railway runs through it on a ready made road bed. It was in 1882 that the South Atlantic and Ohio railroad (now known as the Southern Railway) utilized the tunnel for a short cut to the West Virginia coal fields.

It would be difficult to decide which of these two natural marvels excels in scenic beauty and physical characteristics. It would, at best, be a personal matter. We shall call it a draw, with the single comment that few states have been so bountifully blessed.

Awed Roosevelt and Bryan

Theodore Roosevelt spent several days at the tunnel when writing his book, "Winning of the West." Ever after when anyone mentioned Scott county he would exclaim, "Why that's the county that has the wonderful natural tunnel."

When William Jennings Bryan saw it he said, "There is nothing in the world to compare with it, and it should be classed the eighth wonder of the world."

Some Outstanding Facts

Some of the outstanding facts of the tunnel are:

Located in Scott county, Virginia, 15 miles from Gate City on U. S. route 23 and the Appalachian division of the Southern railway.

Length of the tunnel including amphitheater and Little Tunnel, 1557 feet.

Average height of opening, through which Stock Creek and the Southern Railway run, 100 feet.

Average width of passage way, 130 feet.

Height of wall directly above tunnel opening, 200 feet.

Crater at entrance to tunnel measures

3000 feet around the rim and has a diameter of 600 feet.

Circular walls of limestone rock range from 300 feet to 450 feet above the level of the water.

Of course all such spots have romance of some kind entwined in their history. In this case it was an Indian love story. A tunnel pamphlet tells it.

"A beautiful Cherokee Indian maiden was rescued from a vicious panther by a handsome young Shawnee chief. Obdurate parents, the two tribes being at war, refused their consent to marriage. The young couple escaped in the night to the highest peak, where at daybreak they plunged to their death. From this incident comes the name of Lovers Leap." Today, concludes the pamphlet story, "the skeleton of an Indian girl lies in a cavern nearby. It is believed to be the skeleton of the Cherokee maiden."

Our own Starved Rock, in northern Illinois, has a somewhat similar romance.

The Natural Bridge and the Natural Tunnel are only two of the beautiful sights Virginia has to offer tourists—but they are worth driving miles to see the wonders that nature has wrought.

At the left of the Natural Tunnel are two signs. The first reads: "Stock Creek." On the right the first sign reads:

"WARNING

"Do not walk on tracks or bridges."

The sign beyond carries the legend:

"NATURAL TUNNEL

"The Natural Bridge and Natural Tunnel are only two of the beautiful sights Virginia offers tourists—but they are worth driving miles to see and enjoy the wonders wrought by the hand of nature."

■ ■ ■

DEATH OF MRS. HARVEY

Mrs. Ettie Harvey died May 5 at her home in Conneaut, Ohio, aged 71 years. On April 26 she underwent a major operation and was believed to be on the way to recovery until the day of her death. She was the wife of Lee Harvey, superintendent of water works and widely known in the water works field. She had been a resident of Conneaut for many years and prominent in the church, club, and social affairs of the city.

Besides her husband she leaves three daughters, Mrs. Edith Erb and Mrs. Kathleen Kaiser, Conneaut, and Mrs. Clara Worthington of Dayton, Ohio.

■ ■ ■

In idle wishes fools supinely, be there a will—and wisdom finds a way.

NOW TRAVELS TEXAS

Jess A. Keown, Formerly With Mueller,
Meets Success in South



Jesse A. Keown

Jesse A. Keown, who traveled for the Mueller Co. in the territory of Oklahoma and Texas during the years 1924-1932, paid us a visit recently at the Decatur office. Jess and his wife, former Decatur residents, now own their own home in Fort Worth, Texas, where Jess has built up a nice business as a Fuller Brush salesman. Jess also worked in our shipping department from 1900 to 1911, which made him eligible in 1930 for his fifteen year button for broken service. The Texas bug seems to have smitten Jess about the same as those insects out in California get all who go there to live. Jess declares there's no country like Texas, and although he didn't break into the song, "Texas, Beautiful Texas," he certainly praised the state in a manner little short of song.

■ ■ ■

REAL FRIENDSHIP

Friendship is to be valued for what there is in it! says Trumbull, not for what can be gotten out of it. When two people appreciate each other because each has found the other convenient to have around, they are not friends, they are simply acquaintances with a business understanding. To seek friendship for its utility is as futile as to seek the end of a rainbow for its bag of gold. A true friend is always useful in the highest sense; but we should beware of thinking of our friends as brother members of a mutual benefit association, with its periodical demands and threats of suspension for non-payment of dues.

■ ■ ■

Chaos

The wreck of matter and the crush of worlds.—Addison.

GROW IN IMPORTANCE

Soy Beans Second Only to Wheat On
Chicago Board Recently

When you talk about soy beans don't forget that Illinois is the "Soy Bean State." There is nothing new about soy beans when one realizes the fact that they were grown in China some 3,000 years before Christ. Manchuria is the largest producer in the world. The average annual crop is 200,000,000 bushels.

Not New in This Country

The beans were introduced in this country as far back as 1804 but their value was not fully recognized until after the World War. The Staley plant of Decatur is the oldest and largest processors of soy beans. The late A. E. Staley, Sr., is generally credited with pioneering the soy bean as a reliable and profitable crop. When he began his processing enterprise here he was called upon to perform a task which would have deterred a less vigorous man.

Convincing the Farmer

This task was the education of farmers to the possibilities of soy beans and to get them to grow enough beans to meet early processing requirements. Today there are three large processing plants in Decatur.

Leads Corn in Trading

About a year ago the Chicago Board of Trade put soy beans in the trading pit. Recently they passed corn in importance and were second only to wheat on the floor.

In 1939, latest figures available show 47 factories engaged in production of soy bean oil, cake, and meal, while in 1937 there were only 27.

The wide use of soy bean products is little known to the general public. Many think the principal use is in paints. The adaptation of the beans to many lines has grown so rapidly that it is difficult to keep up with the varied uses.

Some Uses For Beans

Candles, celluloid, core oil, disinfectants, electrical insulation, enamels, varnishes, paints, fuel, glycerine, insecticides, linoleum, oil cloth, lubricants, printing ink, rubber, automobile parts, candies, chocolate, cocoa, oleomargarine, medicines, paper sizing, water proofing.

These are only a few of the uses this valuable product now figures in. There are many more to come. Give the engineers and chemists a little time and they will find them.

GET YOUR MAN

Chicago Psychologist Gives Girls Advice on Method of Procedure

We have before us an article from the Chicago Daily News and we feel it a duty to our marriageable young lady readers to review it for their benefit. There is no reason for any woman of marriageable age to remain single, no matter how plain or ill-favored she may be. Success is hers in snaring a husband if she follows simple psychological principles of "moral dominance." This is no half-thought out idea of our own. It is propounded by a psychologist, who should know that of which he speaks. He is not only a professor of psychology, but experienced in marital affairs, being a husband and a father.

The proponent of the plan cited is Dr. McMurray, assistant professor of personal administration at Central Y. M. C. A. College, Chicago.

"All a girl has to do to hook a man against his will and better judgment is to pick out her type of man and proceed to the achievement of "moral dominance" over the victim. Do it in a business like way until "dominance" is established. Don't waste time with "unnecessary sentimentality" but bide your opportunity until you have him in a situation which makes him feel "like a dog." Then he is ready to sign on the dotted line of the marriage licenses. Then you've got him—he has swallowed "hook, line, and sinker."

"An underlying principle is to make him think "you understand him." The next step in "moral dominance" is to get him to commit himself, or make him believe he has committed himself, to marriage. To do this requires a little strategy by creating a situation causing him to make statements, or indulge in an act (kissing or attempting to kiss) which can later be construed as compromising. This situation does not necessarily have to be compromising. The idea is to make him believe it is. If you have succeeded in establishing "moral dominance" trivialities may be magnified into "proof as strong as holy writ."

"The next step is to apply moral pressure. This should always be done with dignity and restraint. There should be no scenes. The prevailing note should be that of quiet bravery. The heart is not worn on the sleeve; but oh, the pain of the disillusionment in him.

"If he demurs or attempts to escape, he should be made to feel like a dog."

Some Free Editorial Advice

In the above we have quoted the old simile of the fish, swallowing hook, line and sinker and we want to add a word of advice to the girls who follow the above method of matrimonial approach.

The thing to do after catching a fish is to scale it and drop it into the frying pan until well browned. In scaling "your fish" however, be sure not to scrape the scales from his eyes, because he would be more than likely to see the light. If he should he might realize the truth of Shakespeare's saying, "the dog must have his day" and "this thing" that has been made to feel like a dog, might claim his day and bite you. Just where? We shall leave that to the "dog".



GIFTS FROM THE GODS

The aptitude of saying "the right thing at the right time" is a gift from the Gods. Few persons are fortunate enough to be blessed with it. Most of us are damned by saying the wrong thing, lacking in perspicuity the ability to do otherwise.

An orator who fails in this gift, be he an Ingersoll, Depew, Webster, or Beecher, is remembered for this single offense while his eloquence, his beautiful flow of language, and his charming delivery are forgotten.

The following lines from Albert Chevalier's, "The Orator's Lament" tell the whole story:

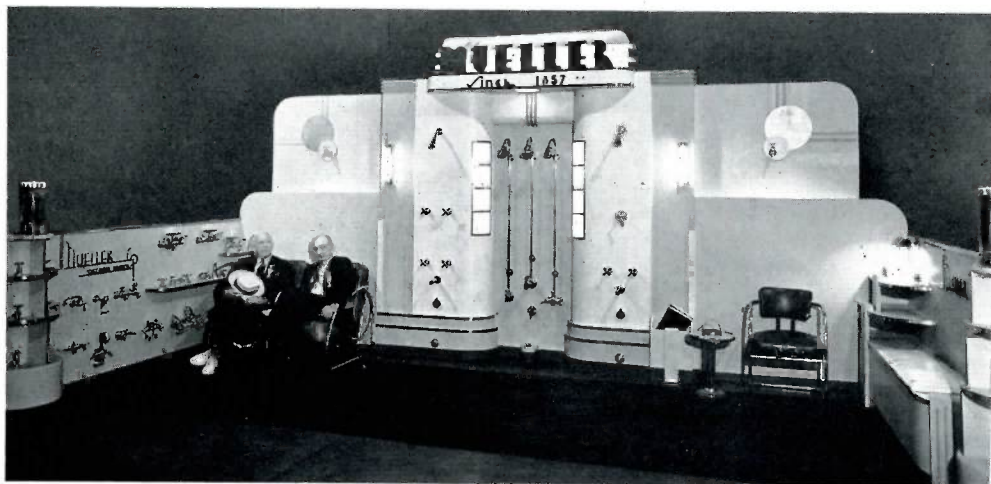
"Ah! the things he might have said,
Quoting authors long since dead,
Some epigram appropriate—in rhyme.
Ah! the hit he might have made
And the scores he could have paid
If he'd only said the right thing at the
time!



TAX DODGING

Comptroller Louis Nolte, St. Louis, after a survey found 121 city job-holders who had not paid their taxes. Fifty-five had made returns, but had not paid, and sixty-six had failed to make either a personal or real estate tax return. The comptroller said employees pay checks will be held up until taxes are paid. Said the comptroller: "I consider it poor citizenship for a man who receives his salary from the city not to pay his taxes." All of these delinquents received over \$225 per month salary, and some as high as \$500 per month. Quite probable the publication of the names and amount of salaries hurt more than being compelled to pay the taxes.

Plumbers Convention at St. Louis



Mueller Co. Exhibit at Plumbing Convention

Hundreds of plumbers and visitors attending the annual convention of the National Association of Master Plumbers, Municipal Auditorium, St. Louis, June 8-12, saw this Mueller exhibit, which was one of many that might be called outstanding. The writer has attended many conventions from 1908 to the present time. In the earlier days little attention was given to artistic backgrounds, but today manufacturers go to great lengths to give their products a setting which will catch the eye. There has been a distinct improvement in every respect in these conventions and manufacturers have kept abreast of this improvement with their displays.

Local Committee On Toes

The St. Louis local committee handling the details of the convention proved equal to the exacting demands and added to that was the warm and sincere hospitality for which the famous old Missouri town is famous.

When this photograph was taken we had two distinguished visitors, who went along with the big camera show.

Seated are Edward Frank, prominent in the Ohio plumbing industry. Mr. Frank is a past secretary of the National Association of Master Plumbers, and past president of the Ohio State Association. Right, H. W. Eckhart, Cincinnati, secretary of the Ohio State Association and editor of the Ohio Master Plumber.

Our company was represented by Adolph

Mueller, Chairman of the Board, C. N. Wagenseller, editor Mueller Record, Ray Kileen, designer of plumbing goods, engineering department, and Ernest Krumsiek, of the plumbing department.

It is agreed that St. Louis' Municipal Building is an ideal place for a convention with its setting in the beautiful Plaza.

■ ■ ■

Funny Side of Insurance

The certificate clerk in copying the application made by members runs across many curious statements. In the application of a young widow for membership, in answer to the question, "What is your husband's occupation?" she replied, "An angel."

In other applications we ran across the following statements:

Mother died in infancy.

An uncle died of cancer on his mother's side.

Father went to bed feeling well and the next morning woke up dead.

Applicant does not know cause of mother's death but states that she fully recovered from her last illness.

Applicant has never been fatally sick.

Father died suddenly; nothing serious.

Applicant's brother, who was an infant, died when he was a mere child.

Grandfather died from gunshot wound caused by an arrow shot by an Indian.

Mother's last illness was caused by chronic rheumatism, but she was cured before death.

—Life Insurance Independent.

AN EARLY PLUMBING JOB

Installed by H. Mueller About 70 Years Ago Still Gives Good Service

L. C. Troy, writing in the Decatur Review, had an article on the Gorin home on West Prairie Avenue. The Gorin family was, for many years, prominent in banking circles in this city. Miss Mattie Gorin still lives in the old homestead. Mr. Troy called upon her and got an interesting story, in which he said:

"If some of the Mueller children or grandchildren would like to know what kind of work their grandfather Hieronymus did, they should call upon Miss Gorin. The plumbing that he put in, all lead, with wiped joints, is still in use.

Mr. Mueller was quite proud of the job himself. It was the first bath room to be installed in a home in Decatur. Many people said then, 'It is only a fad.'

The handwork of Mr. Mueller may be found in quite a few of the city's earlier homes. These bath rooms were probably installed before the water works were built, which was in the earlier 70's.

Attic Tanks

In most cases a large tank was placed in the attic and kept filled with the aid of a force pump, which was considerable of a task for the boys in families who could afford such luxuries. With the establishment of the water works the tank in the attic was discarded. Bath tubs in those days were lined with tin or copper and no doubt some of these are still in use. This style of a tub was finally displaced by enameled cast iron tubs and they in turn have given away to the beautiful vitreous ware now in general use.

WASHINGTON NEWS

An increase of fully 12 per cent in consumption of meat products this year over 1940 is predicted by agricultural authorities. Consumer expenditures for meats are said to have always shown a tendency to go up or down with industrial income.

★ ★

Deliveries on the Maritime Commission's small standardized freighter are continuing to average almost three months ahead of contract dates. Thirty-eight vessels were ordered in the late summer and early fall. One yard at Kearny, N. J., has made delivery on five boats at an average of nearly four months ahead of date.

★ ★

Extension of the food stamp plan to more

than five million persons is promised by agricultural officials to have a decided beneficial effect on farm incomes. The current program will mean an annual market, they contend, for sixty million pounds of butter, more than sixty million dozen eggs and more than two hundred million pounds of pork products, besides train loads of fruits and vegetables.

★ ★

Work is more attractive than a pension to at least 500,000 persons in the United States. There are at least that number of persons more than 65 years of age, who are eligible to old-age payments under the Social Security Act on the condition that they retire, and who perplex the official computers by declining to retire.

■ ■ ■

Attractive Cashier to Manager: "I want a week off to preserve my health. I think my beauty is fading."

Manager: "What makes you think so?"

Cashier: "The men are beginning to count their change."

"Dear Sir," writes a customer. "For nine years I was totally deaf, and after using your Ear Salve for only ten days I heard from my brother in Nebraska."

A small boy at the zoo asked why the giraffe had such a long neck.

"Well, you see," said the keeper gravely, "the giraffe's head is so far removed from his body that a long neck is absolutely necessary."

Man to man: "How long did it take your wife to learn to drive?"

His reply: "It will be ten years this summer."

"Why didn't you shave this morning?"

"I thought I did; but there were four of us using the same mirror and I must have shaved some other guy."

Neighbor: "Did I bring your lawn mower back last fall?"

Indignant Householder: "No, you did not."

Neighbor: "Now, what'll I do? I wanted to borrow it again?"

Airman (after landing in a tree): "I was trying to make a new record."

Farmer: "You did. You're the first man to climb down that tree before climbing up it."

Mueller Gas Pressure Control

. . . A Device which came in handy for Muzzling A Gas Well on Rampage

Muzzling a wild gas well at Jackson, Miss., that had been on the rampage for 24 hours, backed up by 300 pound pressure, ended a lot of excitement and saved a lot of valuable gas and perhaps prevented danger and disaster in the vicinity of the well, when a Mueller device was called into action and ended the excitement.

This Mueller device was our gas pressure control equipment. This Pressure Control Device is made for Gas and Oil Pipe Lines and not intended for use on wells. In this emergency, however, it did the work to the satisfaction of all concerned.

The drilling crew had made an effort to rig a cross bar arrangement for lowering a 600 pound high pressure valve over the top of the 5-inch well casing, but the force of the sand blown out by the gas was so great that it cut in two the bar before the valve could be put over the casing. It was then that the Mississippi Power and Light Company Gas Department crew came to the rescue. The crew did the job in jig time. They welded a 6-inch Mueller pressure control fitting on the well casing about a foot above the well platform, then attached a Mueller 9-inch special valve to the pressure control fitting.

The next step was a Mueller CC drilling machine with which the crew drilled through the 5-inch well casing with a 6¼-inch shell cutter. When the cutter had almost cut through the 5-inch casing, practically filling the inside diameter of the casing, the sand pressure bridged against the shell cutter and the excitement was all over and the well under control.

H. M. Morse, State Gas and Oil Inspector, was a much interested spectator.

The Jackson Daily News carried a column and a half illustrated story of the affair, from which a few comments are taken:

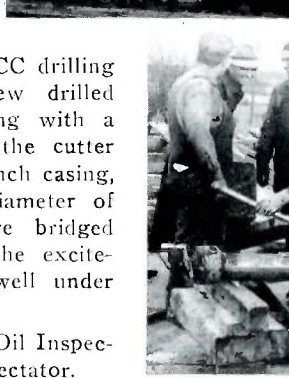
The Jackson, Mississippi, Daily News, said:

"A device which Mississippi Power and Light Company crews used to tap gas mains, so that service will not be interrupted during repairs, proved to be the "hero" in capping the city-owned gas well which went wild in Fire Hall Park off North State street this week.

Staff members Saturday explained workings of the intricate device, used for the first time to tame a wild well, so far as officers of the company building the device could tell.

As is the case with most highly intricate pieces of machinery, its operation is simple, but it takes a lot of finely tooled equipment to carry out the operation.

In effect, the operation at the well was carried out in a manner similar to that used in 'Bridging over a broken place in a gas main, or a piece of main to be tapped, without cutting off service."



With the flow of the well thus stopped, it was an easy matter to put a valve on the pipe, to guard against further "blowouts" while city

(Continued on page 23)

(Continued from Page 22)

and drilling officials determined what the next step should be in "recovering" the well.

Workers on the repair staff of the Mississippi Power and Light Company thought of the machine when all other efforts to cap the wild well had failed for 24 hours. Importation of high-priced, well capping machines from Louisiana or Texas would have cost the city a lot of money, and delayed for a day or more the capping of the wild gasser, which was blowing water, gas, and fine sand all over nearby residences.

Its Real Purpose

Tom Crockett, local manager of the company, explained that the machine was purchased in order to make new connections on the company's mains in the city, when new areas are opened for development. It has also been used in replacing broken or worn out mains, he said. In this work, two of the "muleys" are used: one cuts through the main a good distance on either side of the part to be repaired or tapped. The metal-centered rubber plug has an opening on one side, so that it can be turned to the direction the gas is coming from, and the hollow metal plug carries the gas back into the valve of the device, from which a pipe can be run to the other "muley", which in turn feeds the gas back into the main. In this way, a continuous flow of gas is maintained, even though a whole block of main may be torn up.

"Our company has to keep up with all the latest inventions which can assure unbroken service for our customers," Mr. Crockett explained, "and we don't feel that the Mueller machine is anything but what we need to have to keep up with Jackson's present growth—although it is one of but two or three such machines in the whole South. Of course, we are pleased that our equipment was available and that our engineers had the experience and ingenuity to handle the situation like this, and thus save fellow-taxpayers money which otherwise would have had to be spent."

During the "eruption" of this well, Mr. H. M. Morse, supervisor of the Mississippi State Oil and Gas Board, was an interested spectator. He took a number of snapshots, two of which are shown in connection with this article. One shows the well at the high point of its blow off, while the other shows men at work attaching the Mueller Pressure Control device.

Mr. Morse wrote to Paul L. Hines, Mueller salesman in the southern territory as follows:

Department of STATE OIL AND GAS BOARD

H. M. Morse

State Oil and Gas Supervisor

Jackson, Mississippi
Feb. 19, 1941

Mr. Paul L. Hines
Mueller Company

Dear Mr. Hines:

I am enclosing photographs of the Mueller tool which was used to cap the City of Jackson's State Fee No. 2 well, which blew in making 25,000,000 cubic feet of gas on January 23, 1941, and was successfully capped on January 24 with the Mueller tool. This well now has 450 pounds pressure on the casing.

I understand that this is the first time that this tool has been used for this purpose, and that it is not designed for high pressure, but I believe that it could be successfully used in controlling wild wells, at least it was successful in this case.

I shall be glad to give you the negatives of these pictures if you would care to have additional prints made.

Yours very truly,

H. M. Morse, Supervisor
State Oil and Gas Board

■ ■ ■

YOUTHFUL AT 70



Meet Lou (Pop) Hesse of the city water works department, Springfield, Illinois. Seventy years mean nothing to "Pop"—in spirit he is the youngest man in the water department, and we might add the most popular on the payroll.

■ ■ ■

Doc: "Goodness! I don't see how you managed to travel four miles back to camp with such a badly sprained ankle."

Hunter: "You would if you had seen the bear that was chasing me."

BARS NO LONGER DOWN

Lid Now On Melting Pot—Limiting Immigration

In the early days of the United States the latch string always hung out and about all an immigrant had to do, no matter whence he came, was to pull the string, step into a free country, and make himself at home. That was in the period when we had more land than we could attend to, or needed help building railroads, etc. It is no longer so. Restrictions have been injected into the immigration laws and entry is no longer optional.

In those days we did not care how many immigrants poured into these United States. We had "great open spaces" with few natives to occupy them and we were glad to welcome Europeans. From 1820 to 1940 we greeted some 38,290,443. What influence they may have had on our life and habits is impossible to estimate. We like to believe, and most of us do believe, that the great majority of these early immigrants have made good citizens and reared families who have done likewise. No official records were kept prior to 1820 but beginning with that year the influx of foreigners for 10 year periods was:

1830	151,824	1890	5,246,613
1840	599,125	1900	3,687,564
1850	1,713,251	1910	8,795,386
1860	2,598,214	1920	5,735,811
1870	2,314,824	1930	4,107,209
1880	2,812,191	1940	528,431

It is estimated that prior to 1820 the immigration to this country was 250,000.

It exceeded one million per year in 1905-6 and 7, fell back for the next two years, passed one million again in 1910, again dropped for two years, and exceeded one million in 1913 and 1914. Since then the greatest number in a year was 805,228 in 1921.

Under the new quota law proclaimed in force July 1, 1929, the limitation of alien immigrants was placed at 153,774. It did go over 200,000 in 1929 and again in 1930, but since that time has not reached 100,000 in any year.

The national origin annual immigration quotas are available only for persons who are eligible to citizenship in the United States and admissible under immigration laws.

The four countries having the largest quotas are:

Great Britain and Northern Ireland.....	65,721
Germany	27,370
Ireland	17,000

UNCOVERING POMPEII

Relics of Past Ages That Have Already Been Revealed

The eruption of Mt. Vesuvius, which buried Pompeii beneath countless tons of ashes, has never ceased to excite the imagination of the world, nor has the task of excavation of the ruins, which required centuries been completed.

Pompeii was a beautiful city of ancient Italy, situated at the southeast foot of Vesuvius. It existed 50 years B. C. The character of its inhabitants and was changed several times until a colony of Roman Veterans settled there in 80. The industries at that period consisted of wine making, fishing, making mill stones of lava, and the working of pumice stone.

A destructive earthquake which threw down many buildings occurred in 63 A. D. The eruption came on August 24, 79 A. D. In twenty-four hours nothing was visible of the city but the roofs of the buildings. It is estimated that two thousand persons perished. In later years it was found that the corpses left perfect molds in the ashes.

Concealed Excavation

King Charles III of Naples was the first to conceive the idea of excavation and work was begun in 1748 but was discontinued and resumed at intervals. It is claimed that a chance discovery of two inscriptions by workmen making an excavation for an underground aqueduct really led to the uncovering of the buried city. This was in 1594. Systematic work has been carried on since 1861 by the Italian government and the greater part of the city has now been unearthed.

Mute Evidence of Grandeur

The ruins are mute evidence of the grandeur of the ancient city and of a people of advanced ideas in domestic arts and architecture. Perhaps more interesting than the public buildings are the private homes which indicate the taste and habits of the citizens.

Baths and Swimming Tanks

Several of these homes contain a complete arrangement for the bath, with warm and hot chambers heated by hot air, and swimming tanks. The walls of the homes were usually frescoed. There are elegant marble columns and mosaic floors which add to the charm and beauty of the dwellings.

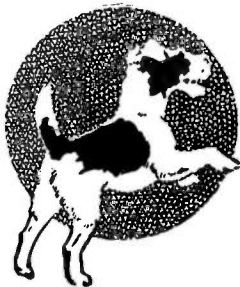
Marble and Brass Tables

Marble and brass tables, lamps, furniture,
(Continued on Page 26)

Animals In The News

The cat will mew, and dog will have his day.—Shakespeare.—Hamlet, Act V.

● Near Excelsior Springs a large hunting dog lost her two puppies at birth and turned her attention to a lamb left without a mother. Dog now furnishes "mother's milk" for the lamb.



● Standing in front of his theater, Nat C. Goodwin, famous comedian, was attracted to a small, woe-begone looking boy carrying a frowzy little cur.

"What's the matter son?" inquired Goodwin.

"Trying to sell my dog for money to go to this show."

"Just keep your dog. Here's a free ticket."

Meeting the same boy the following day, Nat asked: "How did you like the show?"

"All I gotta say is I'm darned glad I did not sell my dog."

● An English setter, Lady Linda, is owned by Mrs. Clara Smurr, Los Angeles. The dog kidnapped four kittens from Mrs. Smurr's cat and refused to let anyone handle them until two died and then the dog let others help take care of the remaining two. A News Wide World photo shows the motherly Lady Linda carrying one of "her kittens" in her mouth while the other one rides on her back.

● **Cat in the Mail!** And here's New York with another animal story illustrated in all leading papers. Sam Tarantino, garage man, heard mewing in a parcel post deposit box. Assured he was not mistaken he summoned police and postal clerks, who released the cat from the box. Sam immediately provided milk for the half famished animal.

Lone chick, taking a look around the electric incubator full of unhatched eggs: "Well, it looks like I'll be an only child. Mother's blown a fuse."

Jumping Jupiter!

Mr. Kangaroo: "Susie, where's the baby?"

Mrs. Kangaroo: "Good heavens! My pocket's been picked!"

It has long been believed that the ostrich when frightened sticks its head in the sand. This has been cited so many times, even by persons of intelligence that it has become an axiom, and still it is not so according to a naturalist, who says the big bird when frightened, like any other animal, looks up in alarm.



● "Fight like cats and dogs" is out as a comparison. They are royal pals when properly introduced. We know this from personal experience and observation. It is just a matter of making the animals understand that it is better to be friends than enemies. "Henry," the cat in this picture, and "Cappy," the dog, belong to company 65 of the New York fire department. Henry the cat has been taught to slide down the brass rod from the bunk room, while "Cappy" waits below in anticipation of a romp. "Henry" always remains in the station when an alarm is sounded but "Cappy" likes the excitement of riding "de masheen" to the source of alarm.

Mrs. Aniparo Rowan, Los Angeles, complained to police her pet parrot had been stolen, and that she heard it calling for help from a residence two blocks away. Officers called, found "Polly", and booked a man on a charge of burglary. They questioned Polly also, but she claimed exemption and refused to answer.

BACK TO BUCKLES

A Proposed Avenue of Escape from the Exasperating Shoe Lace

We may be classed as a "retrogressionist" but there are somethings of long ago that appeal to us. The other day we saw Oxford shoes advertised and some of them showed buckles instead of laces. It's been the dream of years to see them replaced again in style, not that we regard them as beautiful or ornamental, but as a practical, time saving contrivance, which contributes to an unruffled temper, and reduces the cussing, tugging, and pulling at a shoe lace, which if not in a knot, breaks at the last tug, when you are already overdue on getting to the office.

What Manner of Man?

When this happens what manner of man is he who can calmly take a pair of laces from other shoes or a new pair, and replace his shoes, meanwhile singing "I Waltzed with a Strawberry Blonde." There is no such man. The house is not filled with music—but mutterings, hissed anathema on all shoe laces and good round able bodied oaths—eloquent, picturesque, vituperative and damning, which give a sense of momentary vengeful satisfaction.

Like Benjamin Franklin

Now if Oxfords had a strap and buckle, ala Benjamin Franklin, one could assume his dignified appearance, that is insofar as footwear is concerned. Of course there might not be any similarity to the Franklin top story. Franklin had the only one of the kind. If all the weeks in the year have not been pre-empted for special purposes let's edge in one as "Shoe Buckle Shoes" week.

Buckle on your Oxfords boys and let's go. Nothing is impossible in the "Battle for Buckles."

Changed Our Habits

Shoe manufacturers changed our habits years ago when they changed our minds and also our shoes, from high to low for winter wear while the doctors predicted pneumonia, bronchitis, asthma, and what not.

And now the doctors wear Oxfords and still live to practice.

This above paragraph proves that we do change our minds—and our habits as well.

Good Financier

Mrs. Nuwed said to her husband: "Darling, will you lend me \$20 and only give me 10 of them? Then you'll owe me \$10 and I'll owe you \$10, and we'll be straight."

WATER WORKS MEETING

Annual Convention of the A. W. W. A. Held June 22-26 in Toronto

As this Record goes to press, the American Water Works Association is in session at the Royal York hotel, Toronto, with a good attendance. Mueller Co. has an attractive exhibit of drilling and tapping machines, fire hydrants, large fittings and valves, and other water works supplies, such as corporation and curb stops, goosenecks, in fact a representative display of our varied line of water works goods. Attending from Decatur were Adolph Mueller, Frank H. Mueller, George White, and from the Pennsylvania territory Otto H. Sharlock.

UNCOVERING POMPEII

(Continued from Page 24)

and other articles bespeak the culture of the people.

A complete set of kitchen utensils is practically identical with those of the present day, while hair brushes, combs, and mirrors add to interesting speculation of the living habits of the people. Over 3,000 paintings have been recovered. Pompeii had auctioneers as shown by the discovery of an auctioneer's receipts.

The work, which was commenced nearly two hundred years ago, is still going on, according to authorities.

Leave It To Ransom

At great risk the valiant knight had rescued the fair maiden and, now, he was holding her in his arms.

She: "Listen, big boy! You're not holding me for ransom, are you?"

Knight: "Not me! Let Ransom get his own women."

Can't Guess

Jones: "Do you know why I am like a mule?"

Mrs. J.: "No. I know you are, but I don't know why you are."

Experience For Doctor

Pearl: "I'm having that handsome young doctor examine me."

Louise: "Why, what in the world for? You're perfect all over."

Pearl: "Sure, but he doesn't know it."

Peace hath her victories, no less renowned than war.

Out Of The Ordinary

London Markets: Strawberries 20c each; cucumbers 50c each; tomatoes 20c each; lettuce 20c a head; mushrooms 60c per pound. Good place to fast but not to feast.

Profitable: Chicago comes to the front with a new racket which yields something like a hundred thousand dollars a year to the racketeers. Its somewhat on the order of stealing pennies from a dead man's eyes, but much more profitable. A syndicate of flower thieves spot funerals which have called for profusion of floral offerings. Another spotter trails the funeral to the cemetery and locates the grave. The rest is easy when night comes on. The flowers are sold to a florist.

Found His Roll: Warren Carpenter, Shelbyville, Ind., finished plowing his field only to find he'd lost his bill fold containing \$97.00. He sent the tractor around the field again while the family watched the furrows. No luck. Then he hitched a harrow to the tractor and went around the field again. Third time a charm—found the bill fold and money.

Hoss on the Preacher: Two Baptist ministers and a soldier, in an automobile, struck a horse during a heavy rain. The horse came down through the top of the car into the back seat. Rev. Yancy came out with a slightly bruised head.

Demo's Give Up: Henry Stanton, city clerk, Pana, Ill., has been successful in every election since 1907. He is a Republican. Democrats have quit naming candidates for the office.

Honor Among Thieves?: A Lisbon, Portugal, thief "lifted a box" of mounted jewelry from a woman in a telephone booth. A few days later the police received 102 small diamonds and this note: "Diamonds are dangerous to negotiate and I won't run unnecessary risks but the gold will be sold easily and I'm keeping it."

Free Speech: Press dispatch tells us of a liberty loving group of high school boys who broke up a communist meeting in a Milwaukee park by singing "God Bless America," every time Fred Bassett Blair, state leader, tried to speak. "Why don't you guys go some place else and sing?"

demanded Blair. "You believe in free speech, so do we," retorted Red, the song leader. Blair, it's reported, went home.

Paid the Penalty: Lester F. Guthrie, Denver, crushed a heavy beer glass by squeezing it in his hands. He will be back at work as soon as his lacerated palms heal. 'Tis hoped the money he won will pay the doctor bill.

War is Over: The last shot in the Civil War has been fired. Floyd Walden, Decatur, Ga., found a nine inch shell while spading in his garden. He put it in a hole, covered it with rubbish and started a fire. In a few second he heard the last shot of the Battle of Atlanta.

Toad on the Brain: The mysterious bulge in the cap worn by Jimmy Lawrence, manager of the Lake Charles Skippers, Evangeline League, has been solved. It's a horned toad. "I've worn it for four years" said Lawrence, "not superstitious. It just feels good up there." Every man to his liking!

Robbed With His Own Gun: Willie Bell, Birmingham, needed cash more than he did his prized revolver. He sold it to a man he met on the street. As he pocketed the \$15 the stranger shoved the revolver in his face, with a curt, "Give me back the \$15." Willie did and that finished the transaction.

Never Touched Him: At Charlotte, North Carolina, a man was found asleep with the soles of his feet against a railroad track. A freight train had just passed by and neatly clipped off the toe of one shoe without the least injury to his foot. The police awakened him, and found it useless to ask him questions. It was apparent he was asleep. Also, that he was, well you know it already—drunk. Special providence, you know, for fools and drunken men.

New Record: James Edward Burns, a graduate student studying respiration, Wesleyan University, Connecticut, held his breath 16 minutes, 20 seconds, breaking the official record by more than two minutes.

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"Waiter, why is it that there is a trouser button in my soup?"

"I don't understand it sir. We employ only female help."

Definition: A bustle is just like a historical novel. It's a fictitious tale based on stern reality.

New York Bank Employes at Mueller Lodge



A group of ten young New Yorkers, employees of the National City Bank of New York, were guests at Mueller Lodge over the weekend of May 31-June 1. The young men, chosen on basis of merit from the trust, foreign, domestic, and various branches of the huge bank, represented all types of banking service.

This is the tenth consecutive year that the bank has followed the policy of selecting ten of its most eligible young men to make an educational tour of the east and middle-west industries. The idea is to give them a general, rather than a technical knowledge of American industries, and to acquaint them with the people in the different sections of the country, their customs, habits, and views. The Thorne-Loomis Foundation had charge of the tour.

Month On the Road

The group left New York City on May 17 and was scheduled to return June 21. They traveled in a truck which is converted into a tent with sleeping bunks, and equipped with a portable refrigerator, stove, and all the necessities incidental to camping out.

From New York City the tour took them to Philadelphia and south along the Sky

Line Drive, through the Smoky Mountains, and over into the mining sections, where they were impressed by the dire poverty and extreme drouth.

Occupied the Lodge

Arriving in Decatur on Friday evening, after a tour through the coal mines in Kentucky on a hot, humid day, the boys were particularly receptive to the thoughtfulness of the Mueller Co. in offering them the use of the Mueller Lodge over the weekend, where they enjoyed one of the famous Mueller showers and the cool breezes from Lake Decatur. Arrangements for their stay here were made by the Junior Association of Commerce, and included swimming, golfing, sailing, and sight-seeing.

Greeted by Adolph

Mr. Adolph Mueller, chairman of the Board of Directors of Mueller Co., greeted them upon their arrival at the Lodge, and invited them to be his guests at lunch Monday noon at the plant cafeteria. Immediately following lunch the group left Decatur for Springfield, where they visited Lincoln's Tomb.

About 3,000 Miles

The entire mileage was about 3,200 miles,

and the boys visited representative plants in each field and met and discussed problems with the executives. The itinerary included trips through the plants of the Armstrong Cork Corp., Cannon Mills, American Enka, Blue Diamond Coal Mines, A. E. Staley Starch Co., Caterpillar Tractor, Armour & Co., Ford, National Cash Register, Firestone Rubber, Youngstown Sheet & Tube Co., Hammermill Paper Co., American Cyanamid, Corning Glass Works, Endicott-Johnson Corp., and Oneida, Ltd.

In the background of the picture is the truck in which the young men traveled, and grouped in front, left to right, standing: Holister Cox, Rudolph Rutter, Alfred Howell, William Boesling, and Ned Jesser, captain. Front row: Vincent Winsch, John Robinson, Bob Deucher, Stanley Zolto, and Charles Smith.

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THE LATE E. FRED MUSER



E. Fred Muser

The recent death of E. Fred Muser, Chester Municipal Authority, removed from water works circles, a man who stood high in his profession. His death was due to a heart attack at his home in Chester, Pa., age 65 years.

Mr. Muser formerly managed the water system at Catasauqua and the Pittsburgh Suburban Water Co. He was a graduate of Temple University and a member and director of the American Water Works Association, the American Society of Military Engineers, and the Pennsylvania Water Works Operators Association. Formerly he was president of the Chester Rotary Club and he served as treasurer of the Chester Boys' Club. His wife, Laura, and a daughter, Virginia, survive.

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MANIA FOR BUYING

The personal belongings of Mrs. Agnes Fassett, who died in Los Angeles last August, were sold at auction recently. There were as many differently clad women present as there were the three hundred hats which brought a total of \$10.50. The sale included 1,100 dresses, hundreds of pairs of shoes and stockings, lingerie, gloves, etc. The house was so crowded with the accumulation that the eccentric Mrs. Fassett had to surrender her bed room and sleep elsewhere on a cot.

PAPER IS HEAVY

As Shown by Tons Required for Metropolitan Newspaper

The weight of a single sheet of paper is infinitesimal, even in stock sizes, and much more so the size of a page of Mueller Record or a letterhead. A slightly overdrawn comparison would be "it is light as a feather." In bulk, however, one would be almost justified in an exaggerated comparison by saying "as heavy as lead." As an illustration, a sheet of paper like that used on the body of this publication varies according to the size of the stock sheet, mostly used is 25x38 weights being 70, 80 or 100 pounds, but when the sheet is enlarged to 38x50 the weight becomes 140 to 160 pounds. These figures mean 500 sheets, a printer's ream. Consequently when one picks up a ream of 38x50, one is picking up a dead weight of either 140 or 160 pounds.

It's Heavy in Bulk

Paper, like everything else, is light only when in small pieces. Great newspapers, like the Chicago Tribune, buy newspaper by the ship load and not by the pound but by the ton. The Tribune owns and operates its own paper mill at Thorold, Ontario, and requires a large warehouse on the Chicago river for storage.

The first ship of the present season, which came in with the opening of spring navigation on the Great Lakes, brought 3000 tons of paper. The Tribune says:

"Workmen will begin unloading the 3,000 tons of paper at 1 p. m. The ship left the Tribune's paper mill at Thorold, Ont., on April 12, but was delayed by ice jams in the St. Clair river.

Stock Up In Summer

The S. S. Sioux will arrive a few hours later with 1,817 tons of newsprint paper for The Tribune. The S. S. New York News will bring an additional 2,275 tons tomorrow. Within the next few days three more ships will unload paper at The Tribune's docks. They are the S. S. Outarde, carrying 1,997 tons of paper; the S. S. Heron Bay, 2,750 tons, and the M. S. Franquelin, 2,045 tons.

The Chicago Tribune, the Outarde, and the Heron Bay will shuttle back and forth with paper cargoes all summer, while the other boats will carry pulpwood from the Ontario forests to the mill at Thorold.

All these boats will be busy until the lakes are again closed to navigation in the fall."

July Momentous Month in History

July was a momentous month in our national history as every 7th grade school boy or girl should know. It was the month in which the Continental Congress approved the Declaration of Independence on July 4th. It is now the day we annually observe and revive as our nation's birthday. From that day to this we have never had to bow to King, Emperor, or Dictator. In no sense should we forget this fact and our patriotism and allegiance to our independent principles of American Government should be recalled and revered and upheld. We stand today in an attitude of determination to protect our rights and our beliefs, but it is in a world of terror and unrest, the breadth and scope of which is almost inconceivable.

At the outbreak of the Revolution there did not seem to be any great popular demand for independence but gradually it grew into a conviction.

Beginning Our Independence

On June 7, 1776, Richard Henry Lee introduced in the Continental Congress his famous resolution, viz:

"That these United States are, and of right ought to be, free and independent states, that they are absolved from all allegiance to the British crown, and that all political connection between them and the state of Great Britain, is and ought to be, totally dissolved."

John Adams seconded the resolution and it was put aside for a time. On June 10 a committee was appointed to carry out the intent of the resolution. Thomas Jefferson was chairman of the committee. Other members were: John Adams, Benjamin Franklin, R. R. Livingston, and Roger Sherman. On July 4 the Declaration of Independence, written by Jefferson, was adopted.

STUMBLED ONTO PIKE'S PEAK

On Friday, July 15, Zebulon M. Pike began western explorations in the course of which he discovered Pike's Peak. The explorer was not looking for high mountains. Under government orders he was locating the sources of the Arkansas and Red rivers, and "stumbled" on to Pike's Peak and no wonder he stumbled. The Peak's summit is 14,107 feet, situated 12 miles west of Colorado City. This is one of the most popular mountains. It is visited annually by thousands of people. When Pike discovered this celebrated peak it was a "he man's" job to climb the rugged sides. Now tourists skim to the top in automobiles over good roads

or on an eight and one-half mile cog wheel train. A meteorological station of the U. S. weather service is maintained on the peak.

FIRST WORLDS FAIR

The first worlds fair in this country "International Industrial Exposition" was opened in New York City, July 14, 1853. There had been large European fairs held in the 18th century, but the great international exposition began with the opening of the Worlds Fair, Hyde Park, London, in the Crystal Palace, which was made entirely of glass except the flooring and joists. This opened on May 1, 1851. New York followed with the first big fair in this country, doubtless getting her cue from the London venture. This fair continued for 475 days and drew an attendance of 1,250,000, which sounds reasonably good for that period.

JOHN QUINCY ADAMS

John Quincy Adams, July 11, 1825, sixth president of the U. S., was a son of John Adams, second president. They were both born in Bainbridge, Mass., which is now known as Quincy, both educated at Harvard, both lawyers, politicians, and diplomats. The second Adams had a wide experience in diplomacy. He studied for a year in Paris while his father was there on a diplomatic mission, and later at the University of Leyden, finishing his education and graduating from Harvard upon his return to America. While he was a recognized lawyer, his interests were primarily political. Like Washington, he urged a strict neutrality in European conflicts of the time.

A Trained Diplomat

In 1794 President Washington made him Resident Minister at the Hague, afterwards sent him to the court of St. James and later Minister to Portugal. Upon his father's accession to the presidency he appointed his son Minister to Prussia, where he negotiated a treaty of unity and commerce. In 1803 he was elected United States Senator from Massachusetts. He denounced England's right of searching and confiscating vessels and his position alienated him from the Federal party causing him to resign his seat in the senate. He was secretary of state in Monroe's cabinet. In 1824 he was candidate for president which resulted in the division of the electoral vote as follows: Jackson 99; Adams 84; Crawford 41; and Clay 27. No one having a majority the election went to the House of Representa-

tives. Clay's followers joined the Adams group and he became president, making Clay Secretary of State. He was bitterly assailed for this. He was defeated by Jackson for re-election in 1828.

From President To Congress

Instead of retiring Adams became a candidate for congress and served 17 years. He died in his seat while congress was in session. His biographers say that his chief characteristics were his extreme independence, his unyielding courage, his conscientiousness and self-sacrificing devotion to duty, his patriotism, thorough going honesty, and capacity for work. On the other hand he was cold, unbending in pride, pugnacious, persistent, censorious, and indulged in keen biting invectives.

THE ENIGMATIC COOLIDGE

Calvin Coolidge came into the stormy sea of life with a grand display of fireworks, born on July 4, 1872, in the little town of Plymouth, Vt. Perhaps the fanfare of the day was displeasing to him, throughout his life he was silent and retiring. It is yet too early to fully estimate his standing in the list of presidents. At the conclusion of his term there was a division of opinion. Coolidge, however, was an astute politician. He attended the village school, Black River Academy, Ludlow, Vt., and graduated from Amherst, studied and practiced law.

Political Career

He began his political career in 1897 when he was elected to the Common Council of Northampton, Mass. He followed this by filling several minor political offices. In 1907 he was a member of the legislature, twice mayor of Northampton, again elected to the legislature, three times lieutenant governor and twice governor. He attracted national attention in the latter office by his steadiness and conservatism during the police strike in Boston, finally calling out the national guard.

A Thought To Remember

He declared "there is no right to strike against public safety by anybody, anywhere, anytime." His prompt action and firmness quickly restored order.

He was elected vice president on the Harding ticket in 1920 and on President Harding's death, August 2, 1933, became president, being re-elected in 1924 by a tremendous electoral and popular vote. There is no doubt that he had the confidence of the people. Unfortunately for him he was unable to bring congress to harmonious procedure but his conduct of the office was dignified and constructive.

Several Achievements

Regarding the latter phase his biographers say:

"On the constructive side, Coolidge's administration was marked by several achievements of first importance. A settlement was reached providing for payments over a long period of the war debts of the allies. The national debt was reduced by an estimated three quarters of a billion dollars yearly, and interest charges were greatly decreased through issuance of low interest bearing bonds in substitution for those issued during the war. Federal taxes were reduced three times and the budget system was put into effective operation as an incident to a general drive for economy and efficiency in the administration of the Federal Government."

Perhaps the final record will place Coolidge in the ranks of great presidents. His natural reticence repelled publicity, and apparently did not encourage intimate relations with politicians. His death occurred at Northampton, January 5, 1933.

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DID HE HOWL?

Or Did He Swear—No, He Called the Plumber

Henry Sentel, storekeeper of the Sioux Falls, S. D., Water Department, lassoed the following in the daily paper and forwarded it to E. W. Peterson, Mueller salesman, headquarters at Minneapolis, who re-routed it to us:

FINDS FINGER WON'T DO PLUMBER'S WORK

Indianola, Ia., March 11—(AP)—Frank Oldt probably will call a plumber next time without experimenting.

He poked his finger down a drain when the water wouldn't run out of the lavatory. The finger stuck.

A plumber sawed off the drain pipe to no avail, finally smashed the bowl to pieces with a hammer. Cost to Oldt: Sore finger, \$15 in plumbers fees, and the price of a new bowl.

This item does not qualify for our "out of the ordinary" column, because it is just another example of assuming that there is "nothing to plumbing" and that anyone can do "that kind of work." Anyone can—that is fix it so that an experienced plumber must follow up "and fix the fixing."

When your plumbing goes wrong call the proper man—the plumber.

We are very glad that in this case the plumber did not have to saw off Mr. Oldt's finger instead of sawing off the drain pipe.

FINISHES 50 YEARS

August Bergstrom, Great Falls, Montana,
Celebrates Notable Anniversary



August Bergstrom, Great Falls, Montana, is given credit by the local papers as being the oldest in point of service of any municipal employee in the state of Montana. He recently celebrated his fiftieth anniversary of service with the water works department. Relatives gathered at Great Falls to emphasize the importance of the anniversary.

Mr. Bergstrom is a native of Sweden and came to America in 1888, locating in Great Falls, February 28, 1893.

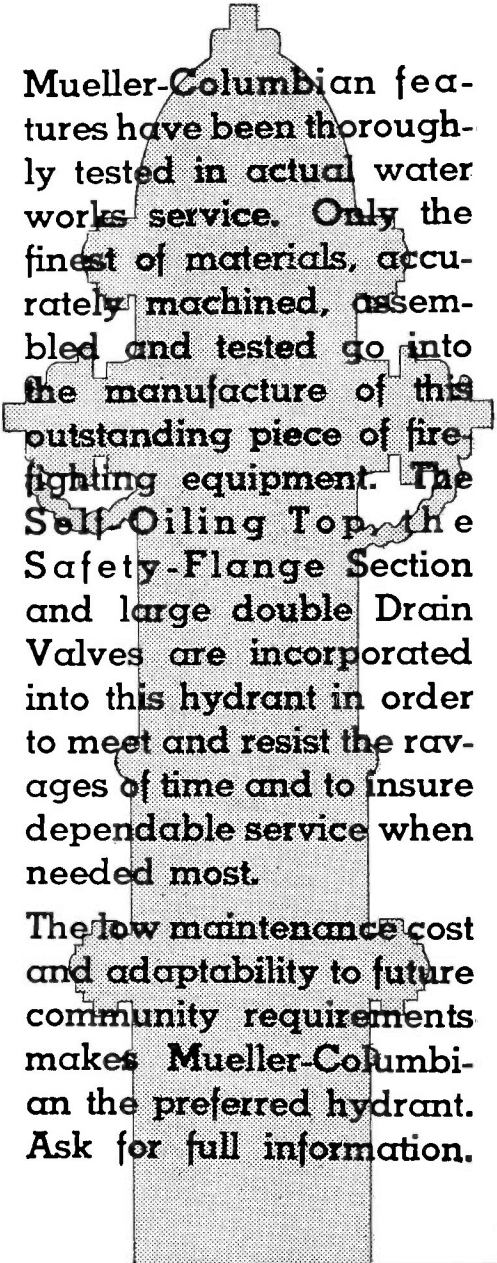
The water plant had its conception in January, 1888, when Ira Myers made plans for the utility and in connection with T. E. Collins and E. G. Maclay secured a franchise from the city council. A bond issue of \$150,000 was floated to finance the project. The property was acquired by A. G. Phelps in 1893, and Mr. Bergstrom went with the sale. He entered the service of the original company on June 16, 1891. The plant was acquired by the city on November 3, and similar to the band in the "Strawberry Blonde", Mr. Bergstrom "still played on."

When he became identified with the company, service was provided for 172 patrons. Mr. Bergstrom has seen and had part in providing service for well over 5,000 patrons.

In the early days changes in city administrations generally meant a clean sweep of all employees, but Mr. Bergstrom always survived all the local political upheavals.

We congratulate him on his remarkable record, sufficient unto itself as a monument to his name and efforts and his part in developing the growth and usefulness of the Great Falls Water Works plant.

STURDILY BUILT TO ENDURE THE YEARS



Mueller-Columbian features have been thoroughly tested in actual water works service. Only the finest of materials, accurately machined, assembled and tested go into the manufacture of this outstanding piece of fire fighting equipment. The Self-Oiling Top, the Safety-Flange Section and large double Drain Valves are incorporated into this hydrant in order to meet and resist the ravages of time and to insure dependable service when needed most.

The low maintenance cost and adaptability to future community requirements makes Mueller-Columbian the preferred hydrant. Ask for full information.

MUELLER CO.
CHATTANOOGA, TENN.

As Man To
Man We Are
Giving You
Facts!



The Mueller Adapto showers are the "open Sesame" for more business. They have carved for themselves a niche in the Plumbing Hall of Fame.

Wherever there is an old time bath room there is a sale for the Mueller Adapto Shower. IT FITS ANY TUB, and at reasonable expense your client (and a good profit to you) turns that old time bath room into a combined tub and shower room.

It ends all controversy in the home about need of a shower—pleases father and mother and delights the shower minded kids.

Nineteen Hundred Mueller Adapto showers have been giving satisfactory service in the great Palmer House Hotel in Chicago.

For apartment houses and hotels the Adapto Shower is a "sure fire salesman."

Don't wait until the last minute to order. Demand for these showers is increasing daily.

MUELLER, CO.
Decatur, Illinois

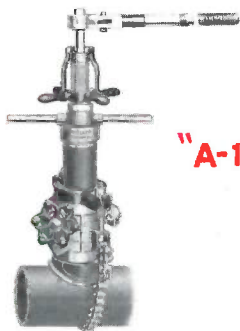
MUELLER CO.

DECATUR, ILLINOIS

WORK IN ABSOLUTE SAFETY

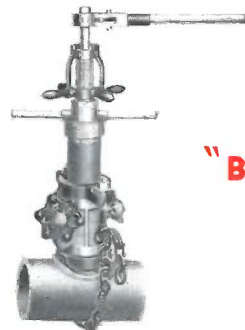


IT IS EASY TO TAP AND INSERT STOPS IN GAS MAINS UNDER ANY PRESSURE—AND ECONOMICAL TOO!



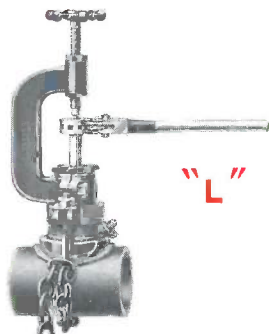
"A-1"

If you wish to tap mains under pressure and insert gas main stops without shutting down the line or letting it blow, then use either the Mueller Gas Tapping and Inserting Machine "B" or the Mueller Gas Tapping and Inserting Machine "A-1" and do the work in absolute safety. The "B" Machine will tap and insert stops from $\frac{1}{2}$ " to 1" inclusive and the "A-1" Machine will tap and insert stops from 1" to 2" inclusive. Both machines will also tap and insert pipe plugs for gas bag holes.



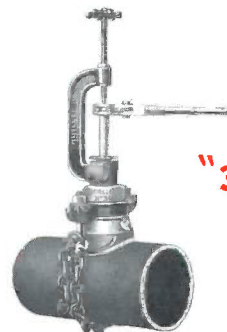
"B"

FOR TAPPING ONLY



"L"

The Mueller "L" and "30" Gas Tapping Machines are used for bag holes, service tees and other fittings, the "L" Machine having a capacity of $\frac{3}{8}$ " to 2" inclusive and the "30" Machine having a capacity of 2" to 4" inclusive. A feature of these machines is the swivel goose-neck which can be turned in any position to prevent interference with the sweep of the ratchet handle. Write us for full particulars about the many models available.



"30"