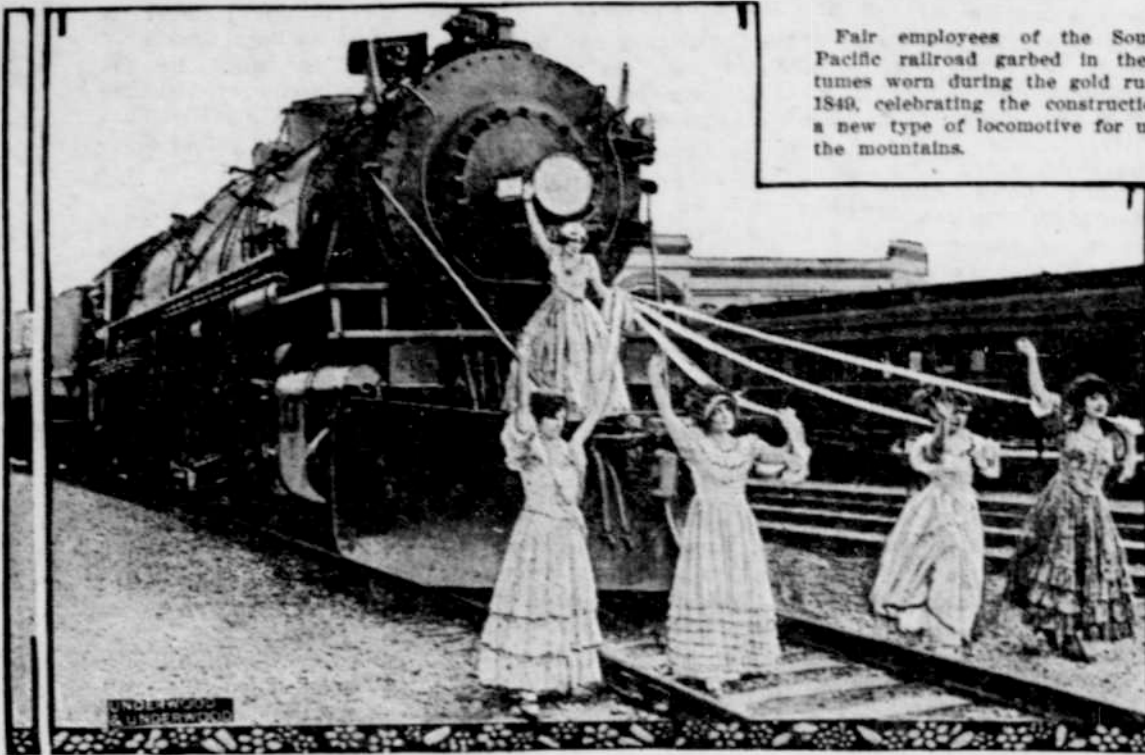


They Won the Columbia Costume Parade Prize

Members of the class of 1916 at Oregon State, winners of the costume parade prize at the annual class day ceremonies which were held at Baker field, Columbia university.



New Locomotive Welcomed in a Novel Manner



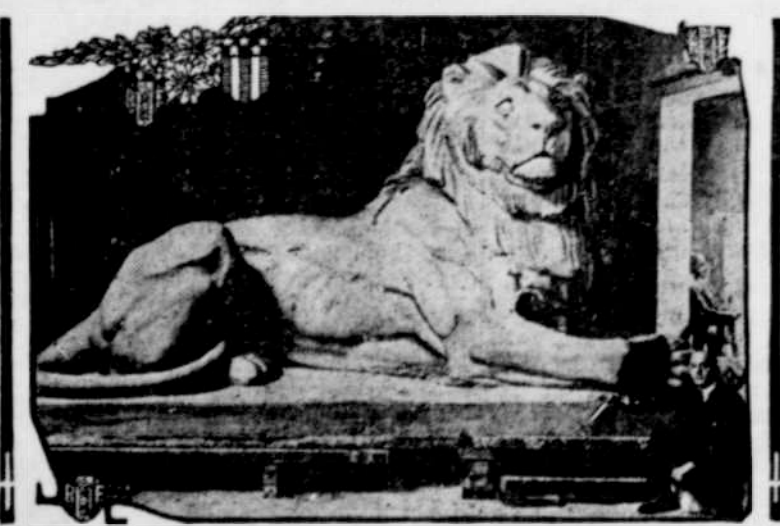
Fair employees of the Southern Pacific railroad garbed in the costumes worn during the gold rush of 1849, celebrating the construction of a new type of locomotive for use in the mountains.

Murphy Memorial Is Dedicated



Formal dedication of the John B. Murphy Memorial building in Chicago, which, architecturally, has been declared to be one of the most beautiful monumental buildings in the world, was held recently. The building was erected to the memory of one of the most famous surgeons of the time.

Lion for the Ypres Memorial



A memorial will be erected at Ypres, France, in memory of the British soldiers who fell in the salient during the World war. It will consist of an arch and this huge lion, to form the Menin gates, which will probably be unveiled in the autumn by King Albert of the Belgians. The lion, which is 18 feet in length, is the work of Reid Dick, shown at the right.

FROM THE FOUR QUARTERS

Most insects can see only a few inches.

The number of women lawyers and judges has trebled during the past ten years.

A machine gun firing 500 quarter-pound shots a minute has been perfected.

Mrs. John Butzer of Oshkosh, Wis., recently gave birth to her fourth set of twins.

A car traveling 80 miles an hour goes 22 feet in half a second.

A Chicago building of brick weighing 8,000 tons was recently moved 85 feet.

The average farm housewife wipes three acres of dishes in the course of a year.

The Salvation Army settlement in New York receives 1,200 pieces of clothing a week to dispose of.

FINE OSTENSORIUM



This is the hand-carved, silver ostensorium which will carry the sacred host as it is borne in solemn procession around the lake at Mundelein, Ill., in the closing service of the Chicago Eucharistic congress June 24. It stands three feet high, the base being embellished with Cardinal Mundelein's coat of arms, flanked by the figures of St. John the Evangelist and the Jewish high priest, Melchizedek.

ADLY PASHA



Adly Pasha, member of the Liberal party and friendly to Great Britain, was selected to be premier of Egypt instead of Ziaogul Pasha who was victorious in the elections but is distasteful to the English government.

In Close Alliance

Quoth Thomas Paine in his "Age of Reason": "The sublime and the ridiculous are often so nearly related that it is difficult to class them separately. One step above the sublime makes the ridiculous, and one step above the ridiculous makes the sublime again."

The Real Artist

All things considered, the most successful interior decorator is a good cook.

GOOD ROADS

ROAD ASSEMBLY FOR CALIFORNIA

Santa Monica, Cal., is to be the scene of the United States Good Roads association's 1926 national convention, which will be held in conjunction with the Bankhead National Highway association and the United States Good Roads show, during the week of June 7 to 12. The meeting, dealing with highway legislation and financing, construction and maintenance, will be most important and far-reaching, and in numbers and character of delegates, also one of the largest ever held in Santa Monica.

United States senators and congressmen, state governors and other national, state, county and city officials from all over the country have promised to attend. Acceptances have been received by General Roundtree, director general of the three organizations, from the following governors that they will attend:

Gov. E. Lee Trinkle of Virginia, president of the association, and Gov. McMullen of Nebraska; Jackson of Indiana; Erickson of Montana; Gore of West Virginia; Fields of Kentucky; Walker of Georgia; Dern of Utah; Scrugham of Nevada; Brandon of Alabama; Ross of Wyoming; Ferguson of Texas; Whitfield of Mississippi; Pierce of Oregon, and Richardson of California.

The convention will last five days, and, aside from business sessions in which good roads policies will be discussed, a feature of the gathering will be automotive tours of southern California, arranged by the Los Angeles Chamber of Commerce and the Santa Monica-Ocean Park Chamber of Commerce.

Money Apportioned for All National Highways

Of the \$75,000,000 available Secretary Jardine has awarded \$73,125,000 to the states in aid of highway building. In the amount apportioned, New York is only second, with \$3,647,156, Texas leading with \$4,439,917. Pennsylvania, whose greatest extent is east and west, naturally leads Illinois, whose length is vertical on the map. And much-advertised Florida is thirty-ninth in the list, following not only New Jersey but Idaho, Nevada and Wyoming.

Under the federal aid highway system the nation is assisting by the payment of about 45 per cent of the cost, in the construction of some 170,000 miles of truly national routes, enough to cross the continent more than fifty times, if that were all that such roads can do. What the system does in fact provide is a complex network covering every state and even Hawaii, but not Alaska, whose means of communication are otherwise provided for. Texas gets the biggest share, but it is a big state. The completion of the system will give further incentive and opportunity to rubber-tired neighborliness, already a notable development of the gasoline age.

Ohio Is Building Roads With a Six-Inch Base

Ohio is building roads capable of withstanding heavier loads than those of any other state, according to highway division engineers. The heaviest type Ohio builds is with a base six inches thick in the middle and nine inches at the sides.

A six-inch base is considered strong enough for the heaviest traffic. The strength of a concrete base increases with the square of its depth. The strength of a six-inch base would be thirty-six; of a seven-inch base forty-nine, and of a nine-inch base, eighty-one. A two-inch base would be only one-ninth as strong as a six-inch base.

The materials that go into a paved highway, the way they are prepared and how they are laid is pretty well standardized among highway engineers and contractors. The same is true of bridges and culverts.

Road Chief Avers Wide Highways Big Need Now

Road building is trying to keep pace with the increased number of automobiles on public highways. The annual improvement of approximately 50,000 miles of new roads in the United States as a result of combined efforts of federal, state, and local agencies will continue during the next few years, according to a statement by Thomas H. MacDonald, chief of the United States bureau of public roads. He also stressed the need of immediate improvements of all roads included in the federal aid and state highway systems by widening. This, he said, is a necessity in order to obtain the lowest possible cost of highway transportation.

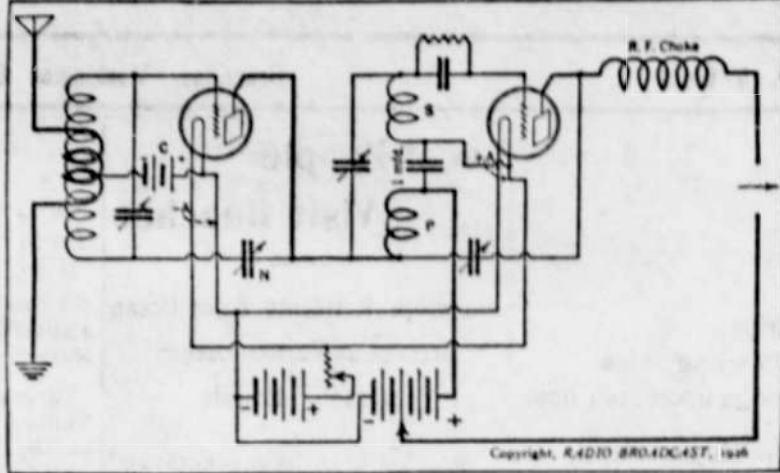
Uniform Highway Policy

A uniform national highway policy has been very largely responsible in making possible an easy flowing interchange of motor vehicles between different sections of the country. County lines have been erased. State lines do not exist for the motor vehicle. The improved highway speaks a language common to all. In point of time we have only just emerged from the dark ages of highway improvement and building in the United States.

Progress in Virginia

During the 12 months ended June 30, 1925, much was accomplished in lifting Virginia from the mud. The total fund available for 1925 is \$7,000,000, this estimation being figured as follows: Convict labor, \$400,000; 2-cent gas tax, \$2,700,000; federal aid, \$1,450,000; state mill tax, \$2,120,000; supervision, \$315,000, and special appropriation, \$775,000. On June 30 last there were 116 construction projects in operation. Several others are now under consideration.

RADIO



Circuit Specially Developed for Use With a Toroid Coil as Radio Frequency Coupling Device.

We have seen and heard a great deal about the toroid coil during the last few months, and much space has been devoted to the publication of data for the inclusion of these coils in already existing circuits. Few writers have gone to the trouble of describing circuits which have been especially designed to make use of the toroid inductance, however. The Radio Broadcast Magazine's "Lab" circuit is one of the few examples where special attention has been paid to this matter. A series of articles on the "Lab" circuit appears in the Radio Broadcast Magazine, from the pen of Keith Henney, the director of the laboratory of that publication.

"The great advantage of the toroid coil," he says, "lies in its restricted field. This means that energy from the coil is not likely to expand about the coil itself and interlink with other fields, and by the same token it is difficult to get energy into the coil. For this reason a circuit in the neighborhood of powerful broadcasters is not so likely to be disturbed by local signals except those arriving at the receiver through the proper means—the antenna. The fact that the field is restricted indicates that the coils may be placed closer to metal end plates of condensers, closer to wires carrying radio frequency currents of wrong phases, and even closer to each other without the many troubles incident to interstage coupling.

"C" Battery One of Most Valuable Accessories

The "C" battery is very often disregarded in wiring up radio receivers. Whenever this is done one of the most important parts of the entire receiver is omitted. Its true worth in the circuit is not generally appreciated, but the fact is that the "C" battery pays a greater dividend in money saved and satisfaction given than any other accessory or part of the receiving system. It increases the operating life of the "B" battery. It increases the amplification of each tube in the circuit. It makes possible the use of higher plate voltage. It increases the load-carrying capacity of the tubes, it greatly reduces distortion from overloading, and it improves the quality of the output of the receiver. And all these things the little "C" battery accomplishes without itself furnishing any appreciable current, so that all are practically obtained without cost.

From an economical point of view the greatest gain derived through the use of a "C" battery is in the increased life of the "B" battery. For the higher values of plate voltage and with the proper adjustment of the "C" battery voltage, the useful life of the "B" battery is practically doubled. Even with the increased life of the latter a little "C" battery will outlive several sets of "B" batteries. But suppose that it will outlive only two sets of them. Then during the life of the "C" battery two sets of "B" batteries will have been saved. The cost of these saved "B" batteries might have been \$12, whereas the cost of the "C" battery which effected this saving might have been only 75 cents, a saving of \$11.25. Hence, from this point of view alone it is decidedly worth while to include the "C" battery in the receiver.

But this is not the only advantage. The greater amplification per tube will make the set more sensitive and will bring in more stations and increase the increase in the load-carrying capacity of the tubes will give more volume without introducing noticeable distortion. The latter gain results in greatly improved quality of the output, and this is one of the most important advantages of using a "C" battery. Without the "C" battery the tubes will overload quickly and result in harsh quality in the loud speaker; with a correctly adjusted "C" battery and a sufficiently high plate voltage loud speaker volume of pure quality may be obtained.—New York Herald-Tribune.

Nickel-in-Slot Radio Among New Inventions

After sixteen months' work Joseph Pinto has completed a unique radio slot machine. When you drop a nickel in, the machine is set in operation so that you can tune in on any desired broadcasting station for a limited time. A red warning light flashes one minute before the time is up. The receiver, says Popular Science Monthly, operates equally well on batteries or house current.

If all the tubes in your set are old, you may try rejuvenation by disconnecting the "B" batteries, turning on the "A" batteries and starting your set in operation. Some radio experts advise disconnecting the "B" batteries, exchanging the connections on the "A" battery so that the negative wire goes to the plus terminal and the plus wire goes to the negative terminal. However, tube rejuvenation has as yet not proved satisfactory to a valuable extent.

Batteries and Tubes Are Cause of Much Trouble

Radio repair experts find that approximately 85 per cent of the faulty sets they are called to inspect fail to work because of an incorrect battery hookup or because of an imperfect tube.

Although the battery hookup is plainly marked both on the set and batteries, thousands of radio owners find it difficult to make right connections. This is chiefly due to a prevalent idea that a plus and minus must be connected together wherever possible. People have heard that it takes a plus and minus to complete an electrical circuit. However, this idea becomes hazy and obscure. Radio set owners get the most startling results due to novel and original hookups based on the plus and minus idea.

The second important trouble-maker in your set are the tubes. Tube trouble can usually be distinguished by a peculiar howling noise in the set. This is different from the squeaks and squealing usually caused by run-down or wrongly connected batteries.

Often a vernier attachment on the detector rheostat will add distance and clarity to the reception of a regenerative set.

Just a Little Smile



A LITTLE DIFFERENCE

Hub—What was the letter you just tore up?
Wife—Only from one of my relations, trying to borrow money.
Hub—Your people are always trying to sting us for something. I'm glad you aren't going to answer it.
Wife—Wouldn't think of it. This one happens to be from a brother-in-law.—Exchange.

What She Really Wanted

"I'm sorry, dear, but I went into six stores and they didn't have any dress goods to match the sample you gave me," said the husband as he sank into a chair.
"Fine! That's just what I wanted to know. My dress will be unique!"—Christian Science Monitor.

A NATURAL MISTAKE



Mr. Bass—Run and tell Mr. Cod here's a package someone left for him.

Musical Uncertainty

The saxophone sends forth a croon. My ears in patience grab it. I wonder if it is a tune. Or if it's just a habit.

True Sympathy

"Your recent speech was a masterpiece. I was moved to tears."
"What about?" Inquired Senator Sorghum.

"You are on the unpopular side. I felt sorry for you on account of the votes that speech will cause you to lose."—Washington Star.

Well Enough

She—I cannot marry you because I do not love you. But I will be your sister.

"Good," he answered, with a triumphant smile; "and how much do you think our father will leave us when he dies?"

ASK BIG SISTER



Both—Now we're engaged, what do we do next?

The Shy Boarder

If landladies served flying-fish, I do believe, by jing, that every time they served the dish I'd get a wing.

Foxy Mose

Officer (on transport)—Sick, Mose? Mose—Not sick yet—Jaw' sleep, sah. Officer—Why don't you lie down? Mose—Sah, eff Ah lay down Ah yawm, and A'm skeered to yawm Jis now.—Carrying On.

Oh, I Say!

Visitor—Want the nice big man to get you a jinky water?

The Professor's Child—If you mean do I wish to relieve my thirst with a quantity of H2O—no, I've just had some.

The Only Splendor

Author—So you like my article. What part do you particularly like? She—Oh, I think those quotations from Byron are simply splendid!—Columbia Jester.

The Important Consideration

"We are with you to a man," declared the enthusiastic constituent. "That's all right as far as it goes," answered Senator Sorghum. "But how about the woman voters?"—Washington Star.

Up to Father

Connie—You don't intend to stay out of school next year on my account, do you, Tom?
Tom—I intend to stay in school on dad's.—Notre Dame Juggler.

Advice All Around

Daisy—You ought to do something for that cold of yours. A neglected cold often leads to serious consequences.

Dick—This one isn't neglected. Dozens of my friends are looking after it.

No Proof

Mrs. Tartar—My first husband had much better sense than you have, Tartar—I don't see it. We both married you.