

SLEUTHS OF AIR TO COVER WORLD

Most Powerful Radio Station Ever Built Will Protect Listener.

Grand Island, Neb.—A great police force of the air covering the entire world will go on duty here September 1 in the most powerful radio station ever built. This international monitor of the air, under the supervision of the United States Department of Commerce, will be able to govern 20,000 transmitting stations throughout the universe to protect the listener. The sleuths of the ether will see that the stations stay on assigned wave lengths, keep within the limits of power and do not interfere with other stations.

Plans for the new station were prepared by the Navy department bureau of yards and docks. The main building is of brick and concrete construction 85 feet long and 75 feet wide and two stories high. This building provides space for receivers, generators, batteries and living quarters for the executive and clerical forces as well as the thirty electrical engineers serving as radio inspectors. An auxiliary building will house three Diesel engines which will furnish 75 kilowatts of power for testing and broadcasting services. The plant occupies a site of fifty acres.

Prevent Interference.

Every protection has been taken against interference. Telephone and telegraph lines run into the station under ground and the air in the station will be maintained at an even temperature. To insure uniformity and temperature control, masonry walls were insulated with a flexible insulation made of a woollike blanket placed between two layers of strong creped kraft paper. The bulk of this insulator is virtually 92 per cent dead air space—dead air space, according to scientists, being the most efficient insulator known with the exception of a perfect vacuum. The interior plastering is on a wall board made of coniferous new woods. Copper screen has been placed in the walls and over the windows as a further protective measure against interference. The out-of-doors antennae are erected on counterweights, so that in winter when the wires become heavy with ice, they will merely sag and not break.

Cover All Frequencies.

Three types of receivers are to be installed in this station, two of which cover frequencies of from 100 to 30,000 kilocycles and the third type from 10 to 100 kilocycles. These are two hundred times more sensitive than home radio receiving sets. Five sets of these receivers have now been installed, each in a shielded booth. There are several types of antennae through which the station will be able to receive from any other station in the world on land or sea. The station will serve all classes of radio communication including television, photoradio, transoceanic transmission, amateur stations and general broadcast. Its principal function will be to prevent interference of any kind between stations.

S. W. Edwards, supervisor of radio for the Detroit district, is superintendent of construction and equipment. Benjamin Wolfe, formerly of San Francisco, is the permanent superintendent of the station. The construction schedule calls for putting the new monitor of the air into operation September 1.

German Razor Ads

Pay Doughboy Tribute

Paris.—Germany has paid an unsuspected but belated tribute to the American doughboy.

German cutlery makers are flooding the continental markets with a cheap safety-razor blade which is presented in an attractive envelope with wording printed in English. The blade is named "Army Blade," with a picture of an infantryman, and the phrase, "Best on Earth."

The surprise comes in the fact that the pictured soldier is an American doughboy, now admitted "best on earth."

226,000 Will Be Given

U. S. Military Training

Washington.—Approximately 226,000 civilians will receive military training at summer camps this year, the War department announced. The number includes persons belonging to the Reserve Officers' Training corps, the citizens' military training camps, Officers Reserve corps, and the National Guard.

The summer camps will require services of 8,909 regular officers, 12 warrant officers and 43,871 enlisted men.

Noiseless Marching

Ordered for Troops

Paris.—In keeping step with the intense agitation to make Paris a silent city, the minister of war has issued circulars requesting the commanders of the various garrisons to order their troops to march through populous places with as little noise as possible and without the accompaniment of drums and bugles.

HOW

ONE MAY CALCULATE THE POWER OF ELECTRICITY.—When a great thunderstorm is raging we realize something of the stupendous powers of electricity.

If a cat's back is rubbed in the dark during hot dry weather sparks will often fly from it. The sparks are harmless, though they are identical with lightning flashes, and the crackling which accompanies them is thunder on a small scale. In a thunderstorm the earth represents your hand and the clouds are the cat's back.

The pressure which causes a flash of lightning may be as much as 1,000,000,000 volts—5,000,000 times greater than that which is used for household light. Could we collect and harness the power set free by a single flash of lightning we should have at our disposal a force greater than anything which can be produced by man.

In a famous scientist's laboratory there was tried the experiment of producing a million-volt spark. It leapt a ten-foot gap with a noise like the explosion of a bomb, and nearly wrecked the building.

Most of the lightning in a thunderstorm does not approach near the earth, but flashes from cloud to cloud. Occasionally a fork tongue leaps from cloud to earth, and then anything in its path is destroyed.

How Constant Supply of Fish Worms Is Assured

To keep a constant supply of live food for fishes during the winter months, and, in fact, throughout the year, secure a "set" of Enchytraea, or white, worms from a reliable dealer in aquarists' supplies. Prepare a large wooden box 1 1/2 to 2 feet square and 6 inches deep and fill to a depth of about 4 inches with rich black soil—woodland mold, such as may be found about the roots of trees in the woods—moisten well with a mixture of half milk and half water; skimmed or sour milk will do. Do not soak the earth enough to make it soggy. Now spread the setting of worms over the soil, and they will soon disappear below. Keep the box moist at all times, never let it dry, and occasionally add a little undiluted sour milk and mashed potatoes. Do not cover tightly, or it will become moldy and failure result. With such a box a little care will keep the worms constantly multiplying, insuring an ample and continuous supply of food for the fishes.

How Ink Gives Evidence

Ink plays an important part in the detection of criminals and in settling legal disputes where the age of documents is in question.

Modern blue-black inks can be distinguished by the fact that they contain blue dyes, which differ in quantity and nature, says Dr. C. Ainsworth Mitchell, the handwriting expert. Chemical tests and optical examination enable the expert to discover their characteristics.

It is often possible to tell the age of an ink. The older inks had a woolly effect, as compared with the crystalline and clear-cut appearance of modern inks. In claims for old pebbles, documents have been produced where the age of the ink proved that they were not as old as they were claimed to be.

How "Ibid" Came Into Use

"Ibid" is a contraction of the Latin adverb "ibidem" and literally means "in the same place." It is used chiefly to avoid repeating a reference, particularly after a quotation to indicate that it is taken from the same book, chapter, passage or other source as the preceding one. In this sense the term came into general use during the Seventeenth century when it was still fashionable to borrow freely from the classical languages upon the slightest provocation. It is not uncommon to meet with persons who suppose "Ibid" to be a noted writer who is fortunate enough to have his writing frequently quoted.—Exchange.

How We Get "Hallmark"

To say of anything that it bears the hallmark of genuineness or quality is to impute to it the characteristics which are apparent at a glance to even the most casual observer.

The hallmark may not be a mark at all. Hallmarks may be such unrelated things as beauty of design or outline, thoroughness of execution, even integrity of purpose.

Today, the use of the word hallmark is metaphorical. Originally, however, the hallmark was an actual mark—a stamp, in fact, impressed on gold and silver plate at the hall or factory of the goldsmith's company, in England.—Exchange.

How Neon Gas Is Used

Neon is an inert gas, lighter than air. When an electric current is passed through it, it becomes incandescent. The neon advertising signs are composed of glass tubes filled with the gas, through which the electric current is passed.

How Birds See Behind Them

It is believed that the eyes of ground birds have tiny periscopes or reflectors which enable them to observe the approach of their enemies from behind.

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—by—

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1 Ton Ford Truck.....	\$ 20.00
1924 Ford Roadster.....	\$ 25.00
1927 Ford Roadster.....	\$ 65.00
1925 Ford Coupe.....	\$ 75.00
1927 Star Coach.....	\$ 175.00
1926 Ford Coach.....	\$ 100.00
1925 1 Ton Ford Truck.....	\$ 75.00
1924 Ford Coupe.....	\$ 20.00

1929 Chevrolet Coach.....	\$ 425.00
1925 Graham Truck.....	\$ 125.00
1926 Chevrolet Truck.....	\$ 100.00
1925 Oldsmobile Sedan.....	\$ 165.00
1926 Chrysler Coupe.....	\$ 225.00
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Auburn Straight "8" Cylinder	
1927 4-Door Sedan looks like new; Perfect in every way.....	\$ 450.00

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LIGHTNING struck the barn of a farmer living near Clifton, Va. He immediately called the telephone operator and told her what had happened. She summoned neighbors and called the nearest village for help. People came as fast as automobiles could carry them. The house and outbuildings were saved.



The Modern Farm Home Has a TELEPHONE

54,000 Australians in Appeal for Wives

Brisbane, Australia.—Out of a population of 900,000, there are 54,000 males in Queensland state who cannot find mates. Canon Garland, the director of the Church of England's immigration council, has broadcast an S O S, appealing to women between the ages of twenty-two and forty-two to come to Queensland.

Montana Girls Break

Broncs for Pin Money

Roy, Mont.—To Elma Brumfield, fifteen, and her sister, Edith, sixteen, there is nothing strange about their method of earning spending money; in fact, it's quite natural to choose an occupation for which one shows the greatest aptitude.

But sewing, cooking, piano playing, and even golfing women view their activities with wonder. For, in their spare hours, those two sturdy girls of the Montana plains occupy their time by breaking wild horses for a Roy rancher.

First they devote time to securing the confidence of a vicious and unbroken broncho. When he has succumbed to their advances, one of the other leaps astride. And then, of course, there's equine fireworks, but eventually the battle is won.

Observant cowboys grudgingly admit the young girls are remarkably successful in their profession. Their patience and kindness often tend to break down resistance of the wildest horse where rough handling would only strengthen it.

France Will Finance

Its Amateur Flyers

Paris.—A scheme for providing the French military and naval air fleet with a huge reserve of trained flying personnel by subsidizing amateur air-men has just been announced by the air ministry.

Hereafter the government will pay practically half the cost, which is about \$4,000, when an amateur wishes to buy himself an airplane, also half of the maintenance. The offer is limited to French citizens and to aviation material manufactured in France.

The subsidy is in the form of six different discounts. The first discount ranges from \$320 to \$1,360 on the original cost of the airplane, depending on whether it is a monoplane, a biplane or a triplane. There will be an additional premium of \$220 for metallic construction, another of \$280 for safety appliances and another on the cost of the motors.

As regards maintenance, the amateur will receive a bonus of \$2.62 per flying hour after the first 100 hours of flight, and higher payments proportionately on an increasing scale.

Italian Aviator Makes

New Endurance Record

Rome.—Commander Umberto Maddalena, famous Italian air ace, carried off the world endurance record for planes not refueling in the air on a closed circuit recently, beating the previous record of 85 hours 26 minutes held by the German flyer Johann Risticz.

Despite his victory, Commander Maddalena at midnight was still flying in order, if possible, to exceed distance records also.

The Italian flyer took off early on Friday morning in a Marchetti Savoia G4. The closed circuit covers a triangular route, and the plane must land where it started for the record to be recognized. Commander Maddalena, who aided in the rescue of General Noble in the Arctic in 1923, is accompanied by Capt. Ceconli. He is planning a flight to New York by way of the Azores.

Sues Boating Champ

He Woed by Sigus

Bridgeport, Conn.—Peter Shay of Norwalk, Conn., cannot speak nor hear. But he can make signs.

And he did, to pretty eighteen-year-old Helen Lockwood, Loug Island Sound's champion outboard motorboat racer.

She seemed to understand what Peter meant, for he sued her here to recover \$4,000 and the diamond ring which, he said, indicated she had said "yes" in reply to his signs.

An attorney for Miss Lockwood turned over the ring in court, and told Judge Avery a 50-cent tip, which Shay had once given a waiter for Miss Lockwood, also would be returned. This, and not \$4,000, constituted the cash outlay on Peter's part, the attorney said.

Civil War Vets Battle;

One Dies as a Result

Richmond, Va.—Two Confederate veterans, Jacob Heater, eighty-nine, and W. M. Butler, engaged in a fist-cuff to decide which one should be first to go to a barber's chair a few days ago.

Later Heater was found dead and Butler was arrested on the charge of killing him. Both men were inmates of the Soldiers' home here.

Heater served in the Civil war as a member of the Company D, Thirty-first Virginia Infantry. Butler served in the Confederate navy. He is alleged to have blackened one of Heater's eyes.

Coroner James M. Whitfield said Heater probably died of shock.

Shingle belles, shingle belles, Shingle all your hair!

Don't forget to wash your neck Or else don't leave it bare.

Shingle belles, shingle belles, Right up to the dome,

Ain't it fun the more you cut The less you have to comb.

...Money...

A Bank Book is not a thing of beauty until one looks inside and sees a column of figures that shows a constantly growing balance. Then it is a joy and a delight, for it means one has MONEY. That magic thing that will open all doors and satisfy all material desires.

Are you saving something as you go along? Doing without some of the things you do not need, sacrificing the temporary pleasures of indulgence for the real and permanent pleasure—the feeling of security, that money gives?

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