

Airplane Motor of Future Must Be of New Type

Engines Must Combine Power and Regularity With Fuel Economy, Says Pioneer Pilot.

Paris, July 15.—What is the future of aviation? Will the airplane eventually replace the train, the steamship and the automobile? Is the astounding air development of the past few years nearing its end? The automobile, say experts, is now perfect—it cannot be improved. How far is the airplane from similar triumph?

These questions were the basis of an inquiry made by the Paris bureau of Universal Service among aviation experts in France, admittedly the country where air travel has reached its highest stage of development.

Replies of these men constitute a remarkable contribution to the scientific research of modern times.

This is the sixth article of this series.

By **COMTE DE LA VAULX**, Pioneer of Flight.

I flew first in 1907—not very far up, it is true, nor for a very long period of time, but I flew. It was regarded as a marvel. We were the current jokes of the press. Nobody believed in the future of the airplane then. Even we never dreamed that in a few short years aviation would have progressed to the extent it has today.

But when you ask me what was the most remarkable event in the history of aviation I am embarrassed to reply. How establish a comparison between the deed of Bleriot, who flew the English channel in 1909, and that of Alcock, who crossed the Atlantic 10 years after?

Need Perfect Motor.
The greatest problem to solve? Not the helicopter—though that may one day take its place in air locomotion—yet the problem of stability, for that is almost solved. The great problem is to find the perfect motor—the motor which will be powerful, economical and absolutely reliable. As far as the creation of such a motor goes we are yet in the era of experimentation.

Perhaps the million-dollar prize offered by the Aero club will hasten the solution, but I do not think that even then it will have been completely solved.

Whatever happens, it is my opinion that the airplane motor of the future, which will combine power and regularity with economy of gasoline, will be of a type totally different from those in use today. Our engineers must strike out into new paths, disregard the past and the present and think only of the future.

Expect Invention Soon.
Only then it will be possible to practically realize the dream of regular airways between Europe and America, for no motor exists today which could be depended upon to make the voyage in perfect safety and regularity.

It is my conviction, however, that the invention of the perfect motor will be realized much sooner than is believed, and that from then on the progress of aviation will be so fast that its progress since 1906 up to today will be nothing in comparison.

It is droll to think that a future generation will find it as natural to fly over the world as we find it to walk in Paris or New York—whereas we in our generation still think it a marvel that one can breakfast in Paris and lunch in the capital of Great Britain.

Facts and Oddities
Washington, July 15.—(By A. P.) Two thousand feet below the surface of the earth, and 8,000 feet long, will be the longest tunnel of its kind in the world, now being run in the Star mine, in the Coeur d'Alene district in Idaho. The tunnel has been advanced a little more than 3,000 feet.

Blind 30 years, William Rabe of Chicago can see again. A surgeon cut out a part of each eye which had become opaque. A special glass lens worn spectacle fashion replaces it. Rabe was well to do when he became blind, but eventually was reduced to begging on the streets.

"If I enter Comes on the English best seller by A. S. M. Hutchinson, is not suitable for a public library, according to the library committee of Bernombsey, England. A man, so informed when he tried to get the book, started an agitation against the decision. Literary London is interested.

That old men do not lose their taste was proved at Portsmouth, England, by Alderman F. Power, 84. He was appointed official taste taster to the Portsmouth board of guardians institution. He drank six of 15 different cups, and told the blend of each after a sniff, and a click of his wetted tongue.

A picture post card, the only piece of mail Sarah Crotes received in 51 years, had been so treasured by her that it was buried with her when she died in London at the age of 70. She had been an inmate of a workhouse a half century, had no relatives and was never visited. The card was sent by a nurse, and was the only thing the woman valued.

One hundred times as valuable as a white diamond of the same size is the green diamond recently found in South Africa, according to experts. When found, the stone weighed about five and a half carats and was black and opaque but became reduced to a carat and a half and developed a beautiful emerald-green hue. There are few green diamonds of any size.

MR. DUBBLEY'S ONE WISH

(Copyright 1922, By The Chicago Tribune)

What's in a Name?

Onomatologist, Out of a Job, Prowls Congressional Directory in Senate Press Gallery and Finds Amusement.

By **WINDER HARRIS**.
Washington, July 15.—An onomatologist out of a job drifted into the senate press gallery the other day. As none of the irreconcilables nor Senator Pat Harrison was on the floor, he saw it was going to be a dull session. Turning to the congressional directory for amusement, here is what he found under the heading, "List of Senators":

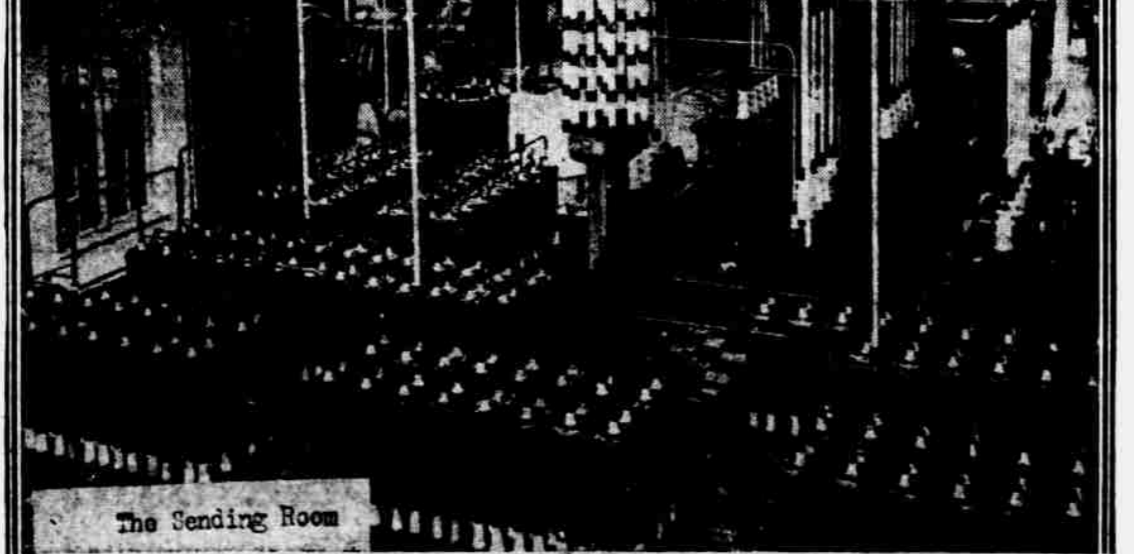
A nation and a monarch—France (Maryland) and King (Utah).
In the field of sports there was a Colt (Rhode Island) for racing, and the national pastime has its Ball (Delaware).
There was one bird of a senator—Crow (Pennsylvania).
Two necessary parts of a watch were available—Dial (South Carolina) and Glass (Virginia) for the crystals.

Going a little further, he came on a Moses (New Hampshire) to lead, but no bullrushes.
There were Keyes (New Hampshire) to the New (Indiana) Lodge Massachusetts, and, horticulturally speaking, a Newberry (Michigan).
Not all the senators are just plain men, either, the onomatological gentleman discovered. North Carolina has an Overman and there is an Oddie T. (Tasker) from Nevada.

To keep the statesmen on Edge (New Jersey), Pennsylvania furnishes Pepper.
Looking back over the Pennsylvania solons, he who was versed in onomatology mused to himself: "There's something mighty pleasant in that combination of old Crow and Pepper."
So pleased was our onomatological friend with his discoveries in the upper chamber that he ambled over to the house side to pursue his research among the list of representatives.

Under the heading of sports, Bowling (Alabama) came first. Dempsey (New York) was there to Box (Texas), and he had his old Swing (California) ready for the Beel (Georgia). There was a Free (California) Park (Georgia) for Sabbath (Illinois) games, but on Rainey (Illinois) and Alabama) days other Parks (Arkansas) were available.
Motoring was a popular item in the sports department. Two Brand

Greatest Radio Station Is Opened



The Sending Room

From Nauen, Germany, to Riverhead, L. I., in one twenty-ninth of a second, is the time required by messages from the new wireless station near Berlin, the greatest in the world. This photo shows the sending room of the station with the giant accumulators.

Destiny of Once Rich Shantung Is Left to Fate

Province Millions in Debt, Overrun by Bandits and Threatened With River Floods.

By **CHARLES DAILEY**.
Tsinanin, Shantung, June 15.—One who has spent two years amid famine and flood conditions in China knows what is in store for Shantung this year. The normally rich province is millions in debt, overrun by bandits, is struggling to get the Shantung railway back into its control and on top of it all 300,000 souls, with all they possess, which is next to nothing, are doomed to die.

Let those superior beings look at us now, and when they see a small boy with a self-made mechanism holding wireless communication with his playmates over vast intervening spaces they may well show us for something more than apes. They may now point us out braggingly to one another, and boast a common brotherhood.

Radio Makes Sound Fleet.
Radio telephony, with its speed of 186,000 miles a second—that of light—gives fleet feet to slow-paced sound. In telephoning by wireless from New York to San Francisco the voice should travel at merely the speed of sound—1,088 feet per second—it would take more than four hours for the first word to reach the ear of the listener; whereas, by radio, the voice is transmitted at the speed of light, so that there is no appreciable lapse of time in the transmission of the voice to any distance on the earth's surface.

If, however, it were possible to establish wireless communication with the nearest fixed star, Alpha Centauri, it would take four years, even by radio speech, to cross the gap. With merely the "speed of sound" it would take 4,000,000 years for speech to reach the Centaur.

Starting Statement.
If one of our amateurs should pick up a radio message sent out to us from some planet circling a sun on the far frontiers of the Milky Way, he would know that the sender of the message lived and died more than 25,000 years ago, and that the message had been on the way all that time—and this, too, coming at the speed of light—186,000 miles a second; for the light by which we see such a star left there 25,000 years ago, when the Cro-Magnons inhabited Europe, along with the bison, the sabertoothed tiger, the hairy

Destiny Left to Fate.
So the destiny of 300,000 persons in Shantung province, only 120 miles northeast of Tsinanin, the capital, and 60 miles from the railway, is left to fate. It could have been averted, but it is too late now. Oliver J. Todd, a civil engineer from San Francisco, now building with Red Cross funds and famine labor a roadway in the district stricken last year, reluctantly has abandoned hope for these people and now is striving to get Red Cross aid for the erection of dikes around two large towns on the edge of the area that will be flooded. This will be accomplished with funds for ration wages donated last year and the year before by sympathetic Americans. The dikes will save the town dwellers, herded like rabbits in warrens and possessing but little, but the farmers are to lose all.

The yellow river flood last year sent down its torrents as usual, but the dikes held until most of the people could get out of the way. When the break came thousands of acres were inundated. Had the dyke been repaired a more serious calamity this year could have been avoided. But the province had no money and Peking had neither money nor the time to listen, what with cabinet crises, militarist and other corruption and factional maneuverings for what yet may prove civil war.

Contractor Gives Up.
In July the flood will come. A great gap many miles long awaits the torrent that will spread over the vast area. The estimated cost of the labor, philanthropy does not exist, and the estimated cost of the engineering firm is \$950,000 (Mex) without anything but a mere supervising profit but at a price reckoned actually without squeeze or commissions to authorities and with labor at current prices without additional book charge to the influential recruiters of labor. Philanthropy does not exist in China—not even in Shantung. In mid-April the generous contracting firm passed up the case as hopeless.

The doomed area is in the delta section, on land reclaimed by the silt swept down in the centuries the Yellow river has been washing the mountains into the sea. The owners of the land are poor people, or else they would not be there. China is overpopulated. In a desperate struggle for existence the less fortunate were glad to get even this lowland. They build their mud and brick houses and they plant their crops. The wheat is all wavy green now, but cannot be harvested until July. Before the reapers can work the floods will rise. All the seed sown last year in the hope the dyke would be repaired will be wasted. And with it possibly many lives. Such is China.

Scientists Will Decide if Ballooning Is Safe
Paris, July 15.—Should free ballooning be relegated to history, along with jousting, bear baiting and table tennis? Is it needlessly dangerous? Is it too safe to be any fun?

These questions, raised by the international balloon race which took place here recently, are subjects of discussion in both sport and scientific circles. It is held on the one hand that balloon races and ascensions make use of a type of flying machine that is as antiquated in comparison to dirigibles or airplanes as a tricycle is to an eight-cylinder speedster. The pro-balloonists declare that mankind always will enjoy putting himself to some extent at the mercy of an element over which he has obtained at least partial mastery.

Funds Are Raised to Send Madame Vonsiatsky to U. S.
Paris, July 15.—Paris-Russian colony is raising funds to send Mrs. Ljubov Vonsiatsky to America.

Mrs. Vonsiatsky, youthful, lithe Russian beauty, talks threateningly of her husband, Anastase Vonsiatsky, whom she is determined to have prosecuted for bigamy. Vonsiatsky married Mrs. Marion Stephens, American heiress, in New York in 1911. Russian friends say that in cases of bigamy it is often the custom in Russia for deserted wives to take the law into their own hands.

Mrs. Vonsiatsky lives at present with her brothers and sisters in Paris. She has been trying to get an American visa on her Russian passport.

Famous Scientist Explains Radio

How Wireless Speeds Up Sound Transmission Is Subject of Treatise by Hudson Maxim—With Speed of Light, It Would Take Four Years for Radio Speech to Reach Nearest Star, Says Scientist.

By **HUDSON MAXIM**.
(Copyright 1922, by International News Service.)
Maxim Park, N. J., July 15.—The most marvelous and mysterious thing in macrocosm is the universal ether. From the ether all the worlds have been quarried, and from the ether all life has sprung.

The commandeering of the ether in the radio service is a thing so wonderful and masterful as to make the ghosts gaze.

Alexander Pope Said:
"Superior beings, when of late they saw
A mortal man unfold all Nature's law
Admired such knowledge in an earthly
And showed a Newton as we'd show an ape."
Let those superior beings look at us now, and when they see a small boy with a self-made mechanism holding wireless communication with his playmates over vast intervening spaces they may well show us for something more than apes.

They may now point us out braggingly to one another, and boast a common brotherhood.

Radio Makes Sound Fleet.
Radio telephony, with its speed of 186,000 miles a second—that of light—gives fleet feet to slow-paced sound. In telephoning by wireless from New York to San Francisco the voice should travel at merely the speed of sound—1,088 feet per second—it would take more than four hours for the first word to reach the ear of the listener; whereas, by radio, the voice is transmitted at the speed of light, so that there is no appreciable lapse of time in the transmission of the voice to any distance on the earth's surface.

If, however, it were possible to establish wireless communication with the nearest fixed star, Alpha Centauri, it would take four years, even by radio speech, to cross the gap. With merely the "speed of sound" it would take 4,000,000 years for speech to reach the Centaur.

Starting Statement.
If one of our amateurs should pick up a radio message sent out to us from some planet circling a sun on the far frontiers of the Milky Way, he would know that the sender of the message lived and died more than 25,000 years ago, and that the message had been on the way all that time—and this, too, coming at the speed of light—186,000 miles a second; for the light by which we see such a star left there 25,000 years ago, when the Cro-Magnons inhabited Europe, along with the bison, the sabertoothed tiger, the hairy

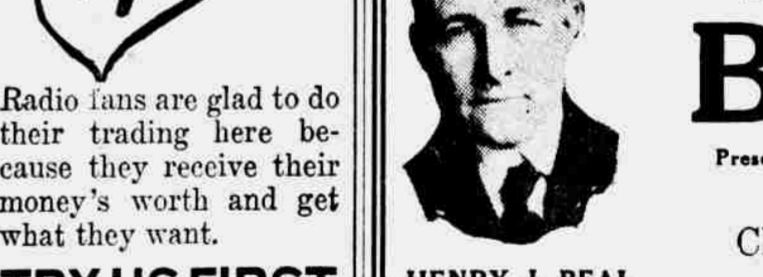
Money Invested With Us

Is the Best Investment of the Day
\$9,811,262.34 Assets
Security is first mortgages on homes.
6% Dividends paid quarterly. Dividend checks mailed promptly every three months or accumulate on a book account. Withdrawal on 30 days' notice. 33 years without loss to the investor.



Occidental Building & Loan Association
322 South 18th Street

POLITICAL ADVERTISEMENT POLITICAL ADVERTISEMENT



Vote for **HENRY J. BEAL**
Present Deputy County Attorney running against **CHAS. E. FOSTER** Present Police Judge

For County Attorney

Radio fans are glad to do their trading here because they receive their money's worth and get what they want.
TRY US FIRST
Headquarters for Grebe and Westinghouse Complete Sets.

RADIO Apparatus Co.

S. E. Cor. 17th and Howard
AT. 2424 Omaha, Neb

Cured Her Rheumatism

Knowing from terrible experience the suffering caused by rheumatism, Mrs. J. E. Hurst, who lives at 508 E. Olive St., B-568 Bloomington, Ill., is so thankful at having cured her that out of pure gratitude she is anxious to tell all other sufferers just how to get rid of their torture by a simple way at home.

Mrs. Hurst has nothing to sell. Merely cut out this notice, mail it to her with your own name and address, and she will gladly send you this valuable information entirely free. Write her at once before you forget.

GULBRANSEN PLAYER PIANO

Nationally Priced
Branded in the Back.
White House, Congress, Best, Student
\$700 \$600 \$495
A. Hospe Co.
The Art and Music Store
1513-15 Douglas Street

Band Concert

The City Concert club of 38 players, Arthur E. Smith directing, will give a concert in Riverview park at 5 o'clock this afternoon:

- March—"El Capitan" Susan Huggs
- Overture—"Beautiful Galatea" Waldteufel
- Waltz—"Estudiantina" King
- Polka—"A Night in June" Nana
- Polka—"Presidential" Nana
- Intermission
- March—"New York Hippodrome" Susan
- Selection—"Woodland" Luders
- Maxim Hymn—"La Paloma" Yradier
- Gavotte—"Shades of Night" Fiedler
- Caprice—"Mill in the Forest" Fiedler
- Finis—"The Star Spangled Banner" Key

Take this program to the park for reference.

The Bee Want Ads are best business boosters.

LEG TROUBLE

quickly relieved with our **Laced Stocking**
NO RUBBER NO WASHABLE
Open or Swollen Limbs Varicose Veins
ADJUSTABLE
Laces like a legging.
\$2.75 each, two for same \$4.25
limb.
Call or send for measurement Blank No. 38
Corliss Limb Spec. Co
1475 BROADWAY, NEW YORK, N. Y. CUT THIS OUT

FREE TICKETS to KRUG PARK

Gate, Dance Floor and Bathing Beach
Welch's Annual Outing, Tuesday, July 18
Tickets given to each customer on Saturday, Sunday, Monday and Tuesday, July 15, 16, 17 and 18.
All Welch Restaurants

SPARKS

Radio amateurs in Council Bluffs find the Radio Den, 204 Main street, a meeting place where they swap tales about unusual experiences in radio together with learning new advice on installing receiving sets. Radio fans may also use the circuit of the Radio Den to test their outfits.

Washington, July 15.—The Bureau of Mines is contemplating the use

It Will Be Hot

During July, August, September
Awnings Will Be Necessary
Make the House Cooler and Larger.

Our Rush Is Over
We Have Just Received a New, Full Assortment of Patterns and Can Make Better Prices.

Call Us on the Phone and We Will Cheerfully Make an Estimate Without Charge.

Scott-Omaha Tent & Awning Co.

Phone Doug. 0882. 15th and Howard.