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Germans Shipping Lambs Into Devastated France

These Germans are sending a shipment of lambs into the devastated regions of France in accord with the terms of the peace treaty.

Seeks Missing Link in Ether

Holyoke Professor Meeting Some Success in Investigation of Waves.

TRYING TO BRIDGE THE GAP

Bunch of Waves in the Ether Is Lost and No One Knows Whither They Go or What They Do.

South Hadley, Mass.—The scientist has another missing link for which to search. This time, however, it is not the biologist who seeks the link but the physicist. A bunch of waves in the ether is lost and no one knows whither they go or what they do. Some of their associates were long ago found, a few others were investigated more recently, but others are still missing. Wireless waves, heat waves, light waves and the waves of the X-rays have been made clear to us. Yet there is an unabridged gap, a gap that is nearer being filled today than it ever has been in the past.

Trying to Bridge the Gap.

A Mount Holyoke college professor, Elizabeth R. Laird, is finding some success at one end of the gap and investigations at the other end were completed some time ago. At the one end are the ultra violet rays and at the other are Entladungsstrahlen and soft X-rays. It is with this latter class that Miss Laird has had considerable success.

The first of the waves of radiation to be studied were those of visible light. The spectrum received the attention of the physicist, who found that the interval from the red to the violet was, in the language of the physics of sound, less than an octave, the violet rays having less than twice the frequency of the red ones. Naturally the question arose as to exactly what was outside this brief space of waves capable of affecting the sense of vision.

Where the Link Is Missing.

And so outside were found infra-red waves of heat and above these, beyond another gap, were found Hertzian waves used in wireless, while at the lower end of the spectrum appeared the celebrated ultra-violet ray. Then came the long gap, the missing link for which the physicist is searching, and after that the Entladungsstrahlen, joined to the X-rays. Last on the scale are the gamma-rays, probably in the neighborhood of two five-billionths of an inch in length. From the waves of wireless which are often ten miles long to the minute waves of the gamma-ray, the visible and the invisible spectrum is continuous save for the two harrowing gaps on opposite sides of the visible section.

Armed with a diffraction grating graduated to the ten-thousandths of an inch, a vacuum of high order and apparatus for the production of slow moving electrons, the scientist is on the trail of a wave so small that almost 10,000,000 of them measure but an inch in length. And the physicist gives promise of finding his missing link before his brother scientist, the biologist.

"Old Aunty" to the Boneyard.

Maysville, Ky.—Score another for the automobile. "Old Aunty," the last livery horse in Georgetown, has been sold. At one time a half-dozen livery stables did a big business here, but jitneys have put them all out of business.

Held Eggs for a Raise, Got Chickens Instead

A woman, living near Rio Vista, Cal., recently set a box of eggs in a corner of her room, beneath which was a water pipe kept constantly warm by a fire in the cook stove.

She planned to keep the eggs until the price would go up, then reap a nice profit.

Instead, she heard the chirping of chicks, and on investigation found that 42 of 48 eggs had hatched.

REAL CHIVALRY AMONG HOBOES

Girls, in Continental Hike, Never Insulted Except by Rich Motorists.

TRAMP COUNTRY 18 MONTHS

Co-eds Set Out to Learn of Life in Open West and Find Modern Sir Galahad in Knight of the Road.

Indianapolis.—The modern Sir Galahad stews his evening meal in a tomato can suspended over a fire built of chips from railroad ties, according to two girl "knights of the road," who enjoyed a year and a half of hobo life in a dozen western states and "bummed" their way across the continent. The girls who found present-day chivalry flourishing in a box car are Miss Hazel Gage of La Grange, Ind., and Miss Virna Haskins of Orland, Ind. Both are graduates of the Tri-State college at Angola, Ind.

They set out in 1917 to learn of the life in the open West. Hobos doffed their caps and courtesied, lonely fishermen placed their cabins at the disposal of the girl pals, and rugged cowpunchers shared their meals on the prairie.

Everywhere the girls were treated with the utmost respect. It was only when the girls accepted automobile rides from the modernized tourists of the East that the dreams of knightly chivalry burst like soap bubbles. The tourists would insist on holding the girls' hands.

Although the girls became expert revolver shots, they never once were in danger from the rugged westerners they met. A few months ago, minus everything but a ray of hope, they tumbled out of a box car on a mining camp side track near Tonopah, Nev. In the succeeding weeks they saved their pay checks, and, with a bank account of $400 felt secure.

Then came the idea to walk across half the continent to their homes, dressed as men. Their experiences were varied and thrilling. A Mexican sheep herder found them exhausted on a hillside. He shared his meal of bread and mutton with them, managed to get them aboard a freight train and bade them good-by.

A tramp on the train peeled off his coat for them to sit on, and the three swapped stories until the train pulled on to a siding.

"Everywhere," said Miss Gage, "we found the spirit of fellowship, backed up by the unwritten law of man and woman. Not even in those old saloon-hotels was there any improper familiarity. It was a new life which we discovered—the life of universal understanding in the great outdoors."

HITS AT OIL LEASES

Ancient Document Casts Doubt on Their Validity.

Present Owners May Lose Billions of Dollars' Worth of Land in Texas.

Washington.—Doubt is thrown upon the validity of title to thousands of oil leases in the state of Texas by ancient documents brought to the attention of the department of justice following litigation between Oklahoma and Texas involving oil deposits in the Red River district.

Unless the documents now at the disposal of Attorney General Palmer are declared by the Supreme court to be invalid or non-applicable, more than a billion dollars' worth of oil lands in Texas may pass out of the control of their present holders and become the property of the first "lease jumper" who files upon them.

The nice legal questions involved have to do with the old Spanish law regarding mineral rights, international law as regards treaties or annexation, and modern statutory law as exemplified in the acts of congress.

The principal documents bearing upon the case are a formal conveyance of plenary power by the republic of Texas to its ministers at Washington, dated November 16, 1836; a treaty of annexation signed by Secretary of State John C. Calhoun for the United States and Isaac Vansant and J. Pinckney Henderson for the republic of Texas; the diary of President James K. Polk for the year 1845; a joint resolution of congress "erecting the now state of Texas;" the United States mineral land law of 1868, and the federal oil land leasing act of February 25, 1920.

Giant Elm, 600 Years Old, Has Quit Leaving

London.—For the first time in 600 years a giant elm standing outside the Croydon parish church, near London, has failed to leaf this year. This elm is famous because under its branches parish meetings had been held annually for more than three centuries.

Plowing by Spotlight.

Cincinnati. — Farmers throughout this section are working hard to overcome the handicap of a late spring and are plowing with tractors at night by the aid of spotlights. In Kentucky courts are being adjourned and farmers excused from jury service so that they can stick close to farm work.

Melodrama began, as its name indicates, as music interspersed with dialogue.

FORMER KAISER TURNS TAILOR

William Unfortunate to Have Missed Vocation, Says Holland Dispatch.

London.—William of Hohenzollern, former emperor of Germany, is trying his hand as a tailor, according to a Central News dispatch from Amsterdam.

He is cutting out patterns for many new suits with which he is going to stock his wardrobe, and the dispatch quotes a trade paper as declaring he is "excelling at the job."

"How unfortunate it is," says this paper, "that William missed his vocation. After all the notoriety he achieved as an emperor, one can imagine what would have been his fame as a tailor."

Death Invades a Crap Game.

Elkins, W. Va.—A half-dozen men jumped out of a second-story window when the police raided a crap game. John Coleman was impaled on the picket of an iron fence dying almost instantly.

Lion a Guest in a New York Hotel

Thomas R. Zann, registered from Leavenworth, Wash., brought a tame lion into a New York hotel in a canvas-covered cage, the discovery that there was a lion in the hotel created a sensation, and the department of health ordered "Jim," as he is called, removed. He is on his way with "Jim" to South Africa.

First Hundred Years the Hardest.

Jackson, O.—When Mrs. Peggy McDaniel, who is entering her one hundred and sixth year, celebrated her birthday among the 200 guests was Mrs. Winnie Carter, one hundred and seven years, who lives just ten miles from the McDaniel home.

Highway Improvement

ROADS STAND TRUCK TRAVEL

Comprehensive Experiments and Tests Now Being Made by Bureau of Public Roads.

State highway departments are vitally interested in the successful outcome of comprehensive experiments and tests now being made by the bureau of public roads of the United States department of agriculture. One state engineer recently declared that millions of dollars in his state are involved in the proper design of road surfaces, which make up one of the problems being investigated by the federal engineers.

The coming into general use of the heavy motor truck has practically revolutionized the science of road building. Big new problems came when loads weighing 10 to 15 tons took the place of vehicles that placed a weight of one-fourth as much or less. The roads built ten years ago were constructed before this fact could be realized—which is one of the reasons why many "permanent" roads have proved to be impermanent.

Constructing Road Sections for Impact Tests.

One of the testing experiments being made by the federal bureau involves the use of a 49-section roadway in the Arlington farm, owned by the department of agriculture. Each section was built from a different type of material, or with a different method of construction. The same use is given to each section, so that eventually the type of construction best suited to heavy traffic will prove itself.

TREE PLANTING BY ROADSIDE

Shade Is Great Help in Keeping Pavement in Prime Condition—Beauty Is Added.

There is a newly discovered benefit in tree planting by the roadside. It has been learned of late that the shade or partial shade of roadside trees is a great aid in keeping the pavement in prime condition. The authorities tell us that during the hot days of summer improved roadbeds are injured by the direct rays of the sun and that the partial shade of trees planted by the roadside enables the cement or other pavements to stand much longer unimpaired. Roadside trees will far more than pay for themselves by assisting in preserving good roads. Then there is the beauty of shade trees, and if fruit trees are planted think of the abundance of peach, plum, pear, cherry, apple and other fruit trees growing by the roadside which in the aggregate would amount to millions of dollars if generally planted through the fruit growing sections of the United States.

URGE CHANGE IN ROAD RULES

British Columbia Favors Alteration to Encourage Motorists From Other Sections.

Changes in the highway regulations now in force in British Columbia are being urged by local automobile and trade associations as a means of inducing motorists from other parts of Canada, and from the United States, to travel in the province. The present rules, which differ considerably from those followed elsewhere on the continent, are declared to deter tourists from including the region in their itineraries. Legislation intended to remedy this condition is being considered by provincial government officials.

INCONSISTENCY IN FARMING

Roadside Often Neglected by Farmer Who Is Provided With Most Modern Equipment.

Often a farm is seen provided with the best of equipment, good fences, fine premises and well painted buildings, yet the roadside is wholly neglected. Such inconsistency is like putting a dirty collar on a clean shirt.

DEPENDENT ON GOOD ROADS

Many Farm Crops Must Be Hauled Some Distance to Railroad Stations and Markets.

Farming is essentially dependent on the condition of country roads; for whatever is not produced on the farm must be hauled to the farm, and many crops of the farm must be hauled away to the railroad stations and local markets.

GOOD HIGHWAYS LOWER COST

Mud-Tax and Hill-Climbing Tolls Are Estimated to Amount to 18 Cents a Mile.

Good roads reduce the cost of transportation. To haul a ton over good roads costs 7 cents a mile; over ordinary country roads, 25 cents a mile. Mud-tax and hill-climbing tolls, therefore, set the farmer back 18 cents a mile.

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