

Poet's Glider Almost Too Eager in Action

Long ago, in Algeria, a French poet contributed unknowingly to the advancement of aerial conquest, says the Air Station News, biweekly publication of the naval air station at Pensacola, Fla. Mouillard was his name and he constructed his glider from the study of birds.

Bones May Be Those of Famous Drunkards

Human remains, buried under two or three yards of debris which had fallen from the ceiling of a great underground grotto, were discovered, seven miles north of Jerusalem by Prof. William Bode, head of the American archaeological expedition which unearthed the huge city wall, greater than that of Jerusalem itself, Piero Van Paassen writes, in the Atlanta Constitution. It has been suggested that Tel el Nasbeth is the site of the treasure city of Solomon. Professor Bode discovered a natural limestone cave artificially enlarged to a great underground chamber. The entrance to the grotto was found in the basement of a large building. From the entrance stone steps led to the bowels of the earth and to the cave. The human remains were apparently buried by ancient earthquakes. Beneath the debris was found a number of great wine jars of the Seventh century B. C., indicating that the chamber, above which was a wine press, was a store for the reputed drunkards of Ephraim. ("Woe to the crown of pride of the drunkards of Ephraim," Isaiah 28:1).

Antiquity of "Gent"

A Croxley Green reader is at a loss to know why a learned judge should have taken exception to the abbreviation "Gent" in legal documents. "It is," he writes, "time honored, even though nowadays it may appear to be a vulgar cockneyism. Upon many monumental inscriptions it may be found in place of 'man,' and he quotes one of 1564 in a Shropshire church, which refers to 'Ye body of ye worthy gent.' etc.

Old Hawaiian Custom

The custom of casting chelo berries into the crater of the Kilauea volcano is a very ancient one in Hawaii. The object is to propitiate the goddess Pele. The goddess Pele appears in various guises. Formerly it was believed that she would never allow the volcano to harm any individuals but the recent flows of lava have shown this to be not true. Red flags are often placed to mark the boundaries of the village and a live pig is tied in front as a sacrifice to the goddess. Kilauea is merely a crater on the eastern slope of Mauna Loa, which is the largest volcano in the world, though not the loftiest.

Children at Play

The noises of children, playing their own fancies—as I now hearken to them by fits, sporting on the green before by window, while I am engaged in these grave speculations at my neat suburban retreat at Shackwell—by distance made more sweet—inexpressibly take from the labor of my task. It is like writing to music. They seem to modulate my periods. They ought at least to do so—for in the voice of that tender age there is a kind of poetry, far unlike the harsh prose-accents of man's conversation.—Charles Lamb, in Essays of Elia.

Many-Legged Optimist

Several belated examination papers tell us that "posters are sheets of paper pasted on blackboards;" that "an optimist is a thing with a lot of little legs;" that "an aqueduct does marvelous things at a circus;" and that "All Baba means away when the crime was committed." Also that "R. S. V. P." means "received same very prompt." Too many students get their learning by ear and not very well then.—Capper's Weekly.

—Subscribe for the Watchman.

FIELD ILLUMINATED BY AIRPLANE'S HUM

Ingenious Electric Device That Aids Night Flying

Pittsburgh, Pa.—A formidable enemy of night flying—the unilluminated landing field—was conquered automatically by the modern wizardry of electricity at Bettis field, McKeesport, the other night. At a public demonstration there the hum of a plane, one thousand feet in the air, closed a switch on the landing field. A bank of airport floodlights was turned on, and an instant later the pilot was gliding safely along a path of illumination that was called into being by the voice of his own plane. Thousands witnessed the successful exhibition of the sound-sensitive automatic lighting agency developed by T. Spooner, research engineer of the Westinghouse Electric and Manufacturing company.

Merle Moltrup, chief of the air mail pilots at Bettis field, made the landing which opens a new volume in the annals of aviation. Essentially the function of the device is to use the drone of an airplane to control electrical energy. At first this controlled energy is a tiny weakling, but it is nursed along by a corps of amplifiers, and finally emerges as a husky child capable of closing a good-sized lighting switch. This switch locks automatically and the lights remain on until turned off by the field attendant.

A loud speaker constitutes the "ear" of the mechanism. It works in reverse order, inhaling rather than exhaling sound. The loud speaker laid on its back gives the apparatus a directive effect with reference to noises from above. A microphone completes the auditory section. After passing through the initial amplifier the impulse is received by a resonant circuit set, tuned to the dominant frequency of the airplane drone. Here a second amplifier does its work and then the thread is picked up by a device which has an amplifying power of 100,000,000.

The electrical impulse, which a split second before was awakened by the hum of the plane, is now ready for the time-limit relay—the last step in the process before the long arm of electricity reaches out to close the power switch. The time-limit relay is a vital unit in the Spooner sound-selective switch. Without this feature the automatic lighting mechanism might be operated by sporadic transient noises. With the time-limit feature nothing less than the continuous hum, characteristic of the moving plane, will operate the apparatus and light the field. Lacking this unit the apparatus would be like a nerve frayed watchman, who, startled by the slightest disturbance, jumps to the lighting switch, not knowing whether the noise he heard came from the air or the earth. The time-limit agency gives the Spooner device the advantage of the self-possessed watchman who knows what he is about to do before he acts.

New Type of Projector. The lights that went into action automatically came from a new type of airport projector developed by the Westinghouse company.

The new unit is designed to furnish sufficient illumination over an uneven field, at the same time keeping the source of light low and eliminating objectionable glare in the eyes of the aviator. It consists essentially of a steel drum 25 inches in diameter and 19 inches deep, mounted on a 2 1/2 inch pipe standard. Mounted within the drum are a lamp socket with vertical, lateral and in-and-out focusing adjustments, a 23-inch parabolic metal reflector of such focal length that all reflected rays come approximately within a 3 degree divergence, and a system of louvers to absorb all those rays of direct light the upward tilt of which exceeds 1 1/2 degrees. A spread lens mounted in front of the shell gives a horizontal spread of 45 degrees to the beam.

The unit is so mounted on the pipe standard that it may be rotated horizontally, or tilted vertically two degrees above and six degrees below the horizontal. It is dust and rain proof.

When equipped with a 1,500-watt projection lamp and spread lens, the unit gives a maximum intensity of 250,000 C. P., with an estimated intensity with plain lens of 3,000,000 C. P. The projector may be accurately focused by the use of a day-light lamp-setter developed for the purpose.

Eskimos Like to Have Teeth Pulled

New York.—Eskimos like to have their teeth pulled, says Dr. Leuman M. Waugh, professor of orthodontia at the Columbia School of Dental and Oral Surgery, in a report sent from the Labrador coast, and made public at Columbia university. He left New York June 23 to carry on researches with the Eskimo tribes in northern Labrador and the Ungava bay region.

Extraction brings smiles instead of wry faces, according to Doctor Waugh who sailed on the Nanu, a thirty-four-foot sea skiff, with a crew of two sailors and his young son, Donald, to disprove the theory advanced by Howard Mummy of Birmingham, England, in 1890 that the teeth of Eskimos were stronger than those of any other primitive peoples.

TASTE TEST BEST ICE CREAM GUIDE

Tongue Precise Instrument in Gauging Quality.

Washington.—The human tongue is a better scientific instrument than it is usually credited with being, at least so far as the great American dish, ice cream, is concerned. Recent experiments made by the United States Department of Agriculture indicate a rather close correspondence between the "taste test" of a large number of persons and the more precise determinations of quality made by instrumental means.

The first test involved three ice creams of varying butterfat content. These, containing 18, 15 and 12 per cent, were fed to fifty dairy purchasers for a period of ten days. In each instance freezing and hardening conditions were alike, the consumer changing his choice at will. The result was that 82 per cent of the samplers favored the ice cream of 18 per cent butterfat content.

The second test proposed to show whether or not sugar strongly affects the palatability of ice cream. An experiment was made with mixes containing 19, 16 and 13 per cent of cane sugar. About 90 per cent of the consumers preferred the 16 per cent composition.

The third experiment tested the effect of nonfat milk solids on the palatability of ice cream. For a period of six weeks three mixes of 12, 9 and 6 per cent nonfat milk solids were sold. More than 80 per cent of the 1,185 sales showed a preference for a 9 per cent nonfat milk solid rather than the commercial ice cream with but 6 per cent.

A debated point among ice cream magnates concerns the popularity of ice cream containing gelatin. For years it was used as a stabilizer, that is, to prevent the ready formation of ice crystals. Nowadays needless refrigeration eliminates that possibility, so many manufacturers do without gelatin altogether.

Yet some persons prefer the smooth taste gelatin gives to ice cream. Indeed, experiment 4 showed that some 63 per cent of 394 purchasers preferred ice cream with 1 per cent gelatin. Twenty-three per cent wanted ice cream entirely without it and the others insisted on a content of 0.5 per cent.

England Has Biggest Flying Boat in World

Hull, England.—England's newest military airplane is a veritable battleship of the air. It is the largest flying ship in the world, one of the wings alone being almost large enough to provide a landing place for a light airplane. The hull is of duralumin and stainless steel.

Christened the Iris II, the huge flying boat takes off from the water at a speed of 50 knots. In its hull are ample quarters and sleeping accommodations for a crew of five. Bunks can be folded up when not in use. The radio operator's room is a separate noise-proof compartment.

The dreadnought of the skies is equipped with large fresh-water storage tanks and carries an electrical cooking apparatus. It can remain in the air 14 hours and can cruise in the air or remain at her moorings nine months out of the year.

Fair and Warmer

Cape May, N. J.—Miss Dolores Dorman, 20, is known as "little fair and warmer." She is an official weather observer for the United States, and when not making observations and deductions, finds time to play the violin, ride horseback, dance and swim.

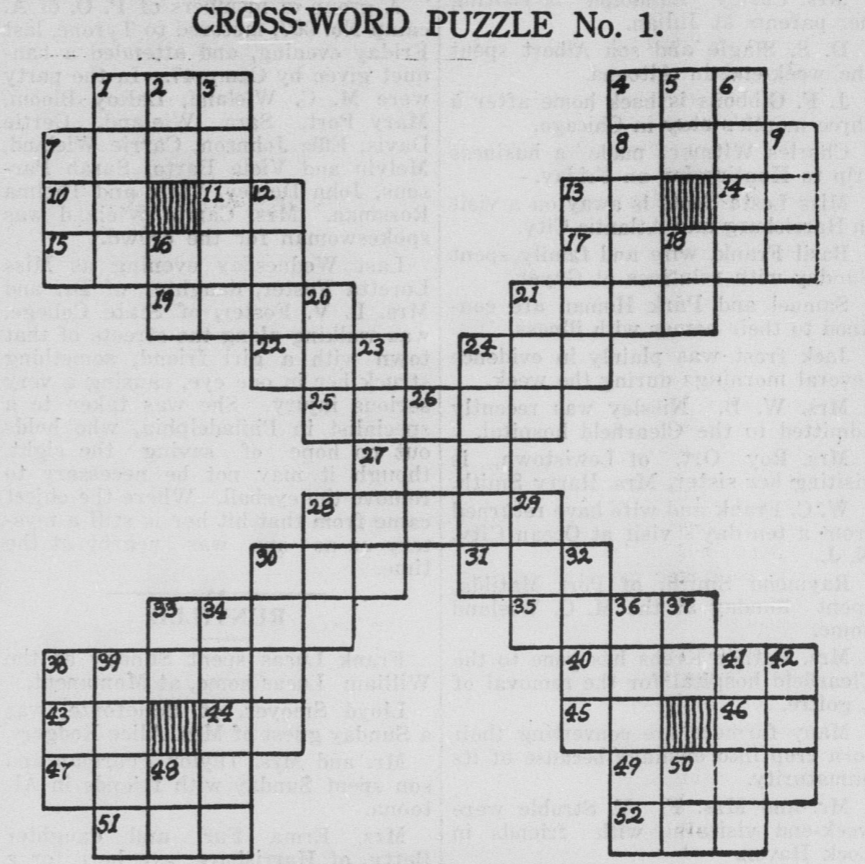
German, Jailed, Says He Was French Spy

Detroit.—A tale of a native-born German, that he served as a French spy during the World war, was before authorities here, with the arrest of Carl H. Elfes, confessed impersonator of a Seattle (Wash.) physician, and his arraignment on a charge of practicing medicine without a license.

Elfes, who is said to have performed 30 major operations here, was held in the county jail in default of \$2,000 bond after pleading guilty. Arrested under the name of Dr. Ernest Flehme, graduate of a German university, Elfes confessed that he came to Detroit and assumed the name after leaving North Dakota, where he practiced in towns under the names of Dr. Maximilian N. Schneller, Dr. V. D. Whepon, Dr. William Sauer, Dr. John L. Referty, Dr. S. Tergel and Dr. Rudolph Young.

Elfes, who claims he was graduated from a Berlin medical school, told James A. Chenot, chief assistant prosecuting attorney, that at the outbreak of the World war he offered his services to the French secret service, since he was not in sympathy with the German military system. During the conflict, he added, he spent some time behind the German lines, serving as an agitator, and on one occasion caused a near mutiny in two regiments by his propaganda.

HOW TO SOLVE A CROSS-WORD PUZZLE. When the correct letters are placed in the white spaces this puzzle will spell words both vertically and horizontally. The first letter in each word is indicated by a number, which refers to the definition listed below the puzzle. Thus No. 1 under the column headed "horizontal" defines a word which will fill the white spaces up to the first black square to the right, and a number under "vertical" defines a word which will fill the white squares to the next black one below. No letters go in the black spaces. All words used are dictionary words, except proper names. Abbreviations, slang, initials, technical terms and obsolete forms are indicated in the definitions.



- Horizontal: 1—Possesses, 7—The ultimate one in any sequence, 10—Preposition, 13—Note of scale, 14—Land measure, 17—Fruit of the oak, 19—Card game, 21—Frozen beverages, 22—Device for shooting an arrow, 24—Insect, 25—Practical joke, 27—Own (Scott.), 28—To hone a razor, 30—Exclamation of disgust, 31—Over there, 32—Small ball of medicine, 33—Method of preparing eggs, 40—Egyptian city, 43—Midwestern state (abbr.), 44—To exist, 45—Printing measure, 46—Indefinite article, 47—South American monkey, 48—Caution, 52—Before (poetic), 4—Aeriform fluid, 7—The ultimate one in any sequence, 8—Ceremony, 11—Like, 15—A decree, 1—End of arm, 2—Hay pile, 3—Three-toed sloth, 4—Charm, 5—Like, 6—Heavenly body, 7—A falsehood, 8—Sea eagle, 9—Sea eagle, 12—To stick with a knife, 13—A certainty, 14—Part of "to be", 15—Boy's plaything, 16—Writing fluid, 17—Anger, 18—To irritate, 19—Atmosphere, 20—Gloomy, 21—Soft drink, 22—To drill, 23—Exact, 24—Eastern state (abbr.), 25—Earth's path around sun, 26—A javelin, 27—Long Island (abbr.), 28—To occupy a chair, 29—Slender, threadlike outgrowth on an animal, 30—Preposition, 31—Land measure, 32—Single.

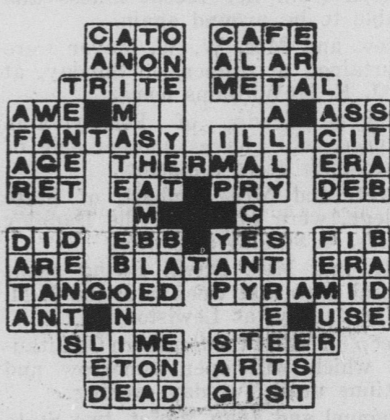
Electric "Fish Ladders" Save Salmon.

Transportation for fish is now an established fact. By means of "fish railroads" and the longest "fish ladders" in the world, millions of salmon have been enabled to climb upstream past a 265-foot dam to reach their spawning grounds in the spring, says the Pennsylvania Public Service Information Committee.

These same fish, together with the millions of young salmon, later leap safely down that same dam on their way to the sea. The electric power companies in the American Northwest have made this possible. The Northwest needed the electric power produced by the falling water, so that the dams were necessary. The salmon fishing industry, however, would have been dealt a severe blow if the fish had been unable to reach their usual spawning beds.

The plan was worked out successfully on the Baker River, one of the two main salmon rivers in the State of Washington, where engineers constructed a series of flumes and fish ladders with low jumps and resting pools, each with a gate to prevent the fish from turning back from their trip upstream. The last stage of the journey is a train railroad with a tank car pulled by a cable.

Solution to Last Week's Puzzle.



Nobody knew certainly that the new system would work until this year's run of salmon began, but it soon proved successful. When the downward run of young salmon started, five and six-inch fish went over the dam at the rate of 10,000 an hour, dropping with the falling water into the deep pools below and swimming off.

—Don't borrow your neighbor's paper to see what is going on. Subscribe for the Watchman.

A Word With the Old Folks

Elderly People Are Learning Importance of Good Elimination.

IN the later years of life there is apt to be a slowing up of the bodily functions. Good elimination, however, is just as essential to the old as to the young. Many old folks have learned the value of Doan's Pills when a stimulant diuretic to the kidneys is required. Scanty or burning passages of kidney secretions are often signs of improper kidney function. In most every community are scores of users and endorsers who acclaim the merit of Doan's. Ask your neighbor!

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