

AMPHIBIOUS FISH

They Not Only Cross Dry Land But can Climb Trees

From long habit we have been accustomed to think of fishes as living exclusively in water; or being incapable, in fact, of supporting existence under any other conditions. Nature, however, does not always draw a hard and fast line between aquatic animal ife and that which belongs to the and. From the accounts of naturalists whose names are sufficient gaurantee for their veracity there exist fish which walk on dry land, and others which traverse in like manner the floor of the ocean.

Dr. Francis Day, of India, discovered several cases of the migration by land of fishes from one piece of water to another, whilst Layard once encountered some fish evidently belonging to the perch family traversing a hot, sandy road at noon on a sultry day. Humboldt was once astounded to behold a species of dorus progressing over the dry griund by a succession of leaps, supported by its pectoral fins, and he also heard of another specimen that had climbed a hillock twenty feet high.

In a certain part of India a party of English officers yere encamped when a rustling sound in the grass and leaves attracted their attention. They found, on investigation, that the noise was caused by countless numbes of little fish that were moving slowly over the ground and making steadily in one direction. Their method of locomotion consisted in using their sides and small fins as feet, and their progress was anything -but smooth.

The fish these officers saw are known as the climbing-perch, which have long taken prominent rank among the curiosities of Nature, and they were being compelled by drought to traverse a tract of dry land in order to regain their native element. Constantly the streams they inhabit become dried up in the heat of the ! summer season, and when this happens these extraordinary freaks climb up the banks, and, guided by some instinct, make a direct bee-line across country to some river that still contains a modicum of water.

It is well over a hundred years ago that this wonderful fish was first brought before the notice of naturalists. A specimen was then captured nearly at the top of a lofty palm tree, having probably ascended the trunk in order ti obtain any moisture that might have collected in the hollow of the leaves. This at first was regarded as atraveller's tale, but when M. Daldorf found one of these perch actually engaged in ascending a tree, it was amply sufficient to place the climbingperch in the lengthy category of Nature's oddities.

THE FADE-AWAY BALL

Falkenberg Has More Elusive Delivery Than Mathewson

"Fred. Falkenberg has a better fadeaway ball than Christy Mathewson. Left-handed batters can hit Mathewson, but find it almost impossible to get even a single off Falkenberg." Such is the declaration made by

Frank Baker, home run hitter extracordinary and hero of the world's series of 1911. Baker made ball history when he hit Mathewson for four bases in one of the games between the Athletics and Giants for the world's championship. He batted against Mathewson in three games of that memorable series. He made the work of opposing pitchers a study. For that reason his comparison of the two most famous exponents of the fade-away is of great value.

"McInnis and I were talking about Falkenberg," Baker continued. "Stuffy said he believed a right-hander could hit Falkenberg easier than a lefthander, and I believe he is right. To tell the truth, I would like to see how many hits a team composed entirely of left-handed batters could make off Fred. I'll bet he would come mighty close to pitching a no-hit game."

Mack's famous strategy board, is an-

other admirer of Falkenberg. "I have not batted much against Fred.," says Thomas, "but from observation I would say Fred has the best fade-away delivery ever pitched. Mathewson's fade-away comes up to the batter rather slow. He works it as a change of pace. Falkenberg throws his fast ball and fade-away with the same motion. The batter does not know which it is until he swings and misses. The fade-away comes up much faster than Matty's fade-away, and for that reason is harder to hit. Fred, is also the owner

A Painless Bullet

of more speed than Matty has now.

I would rate Fred, as one of the five

best pitchers in the country."

A new kind of bullet, known as the "narcotic bullet," is being experimented by military men. A minute particle of morphia is used. The drug is carried in tiny wells in the steel jacket of the regulation army bullet, The inventor claims that it in no way interferes with the effectiveness of the missile. The slight indentation in the steel jacket causes no splintering , when it comes in contact with the bone, and no deleterious effects will follow, the unique administration

of the drug. The soldier receiving a slight flesh wound from the new bullet fights no more that day; he calmly stretches himself on the ground and goes to sleep. The man receiving a serious wound suffers no agony, as the narcotic from the bullet is absorbed by his system, and he is insensible to pain before he reaches the hospital.

Protection in Mid-air

An English engineer proposes to defend his country in event of war by ground when approached by a hostile dirigible or aeroplane.

SCIENTISTS HOPE TO HARNESS THE MOON

Power Now Wasted Could be Put to Work Generating Electrical Energy

There is really no reason why the inhabitants of the earth should do any work at all. The moon would do all the jobs which mankind demands-if we could only harness her. Scientists are already engaged on the solution of this problem. Day after day and night after night uncountable units of power are wasted because the brain of man has not yet devised a scheme for utilizing the terriffic motive activity of the moon's "pull" on the tides. Incredible quantities of seawater are piled up and withdrawn twice every lunar day (a lunar day is about twenty-four hours and fifty minutes), and if the lift and fall of this water could be caught and translated into energy, all the mills in the world could be driven without our burning an ounce of coal, all the electric light could be produced, all the railroads run, all the trolleys, all the subways, all the electric automobiles, all the factories, housewives' sewingmachines, and other things of the sort, could be operated, with nothing but a little attention from mechanics.

Plans have been mooted for the utilization of the tides in England. The idea is to build enormous docks or basins, off the Bristol Channel, where the sea is compressed into narrow confines and the tides are consequently high. The tide would flow up into these basins twice a day—billions of tons of water-but it could only escape through tunnels containing turbines similar to those at Niagara. There is no reason why, in time, the tide at the mouth of the Bristol Channel should not thus work the street cars of London.

Technical difficulties still stand in the way, but Mr. William Snee, an inventor, built a model machine to prove that these are surmountable. In his model, paddles give to the water in a tank a movement imitating, exactly, that of the ocean's tides, the water passing through a series of receptacles and round a horizontal water-wheel. In Italy another inventor, Captain Pirandello, is working on similar lines, but his machine is designed to utilize and store up only the power of the waves and not that of the tide. The motive power is supplied by a buoy which rests on the surface of the water, and, as that surface undulates, the buoy works machinery which creates electricity.

SCRATCHES ON HORSES

Common Annoyance That Can be Prevented by Proper Precautions

Scratches, also called cracked heels, or mud-fever, can be prevented by careful stable management. Cases are rarely met with in well kept barns, but are aften seen in dirty, poorly- | job slipping from him, but he has an drained stables. Dryness and cleanliness of the floor of the stall are the two most important factors in the prevention of scratches.

Horses should not be allowed to stand in piles of manure and decomposing urine. These irritate and inflame the thin skin in the fold of the ankle, just below the fet-lock. The skin then becomes thickened, due to Ira Thomas, member of Counie the inflammation, and breaks or cracks in it appear and if allowed to gradually grow worse. The affected area grows larger, the cracks become deeper, and the animal is in an unsightly and painful condition.

Replaces from Les Bottle As a substitute for the hot water bottle a Detroit wo can las patented a pair of metallic discs, which discribute the heat obtained from an incandescent lamp inserted between them.

not wash cracked heels, as water and

rubbing only aggravates the con-

dition.-Dr. H. Preston Hoskins.

2.00

TRAINER OF STARS IN CONNIE MACK

Leader of Athletics Always Has His Eyes on the Future and on Young Players

There is an expression, "Connie Mack luck." It is shouted whenever Connie brings out a new star. It isn't suspending hombs from balloons, luck. It's hard work. It's perseverwhich could be exploded from the ance. It is careful selection of players and patient teaching. It is prudent handling of the raw material. It is weeks, months, years of preparation. It is a constant, never ending effort to be prepared always for the day when a star begins to go back.

Mack develops his own players. He gets them very young, usually out of high schools or colleges. He aims to secure them before they have bad



CONNIE MACK as he looks on the foul line

baseball habits; that is, false or incorrect methods in batting, throwing, pitching, etc.

Mack first watches a lad's physical faults. He tries to correct them. If the youngster will not listen to advice off the team he goes. His ticket to a minor league city reads only one way. Only one man in 11 years ever came back to the Athletics. This was Bris Lord.

After curing a player of his false motions, Connie starts to train him physically and mentally. He coaches the lad on the field and he seats him near him on the bench during a game and explains the various plays as they come up. He next tries him in every position until he finds the one the boy can play best. Then he waits for the decline of a veteran. Some day a man is needed for a man's job on the diamond and the recruit who has been trained carefully steps into the limelight a finished baseball product. It was so with Collins, Barr, Lapp, Mc-Innis and it will be so with others.

Twice a day Mack meets his players. They discuss the plays of the game before. They plan the battle that is at hand. Every opposing pitcher is put under a magnifying glass, so to speak. Every twirler has certain little motions which he makes in delivering different kinds of balls. These are pointed out. It was because a member of the Athletics discovered that Mathewson made a certain movement with his foot when he pitched his deadly "fadeaway" that the Athletics beat New York when Mathewson was pitching in a memorable world series.

Having culled the youngsters he deems worthy, Connie puts them with the veterans. Not one of the latter could ever dare attempt to discourage a youngster. The star may see his abiding faith in his manager. He knows that Connie is watching out for the future of his men and a veteran seldom leaves his club without first getting a job as manager of another

A Bull's Strength

The following authentic tale comes from a South Wairarapa (New Zealand) station, and shows the immense power possessed by a bull. Two shepherds were driving bulls from various paddocks, and bringing them down to the homestead. As each fresh buil was added to the mob there were trials Owners of horses can prevent the of strength and savage skirmishes betrouble in the majority of cases by tween the various members of the doing two things. Do not allow herd. At one gate a large roan shortmanure to accumulate behind your horn bail was waiting for the rest horses, and see that your stalls will and as soon as the gate was opened drain away promptly. If your horses he charged out, and, after the usual show any tendency toward the con- roaring and grunting, came to locks dition, apply a small amount of , car- with a well-grown red shorthorn bull bolized vaseline, benzoinated lard, or of equal size. After several bouts zinc ointment, well rubbed into the with horns locked, the red bull slipped affected parts. These remedies will past the roan's guard, and, getting him soften the skin and protect it from fairly under the body, heaved him external moisture and irritating sub- bodily over the fence into the paddock stances. During wet weather, or where he had just come from. The when the roads and streets are muddy roan bull weighed nearly a ton, and or slushy, extra precautions should be his body cleared the fence, one of taken to prevent the condition. Do the post being broken by his horns.

Chance For Economy

According to an English parliamentary committee the production of all of London's electric power in a few large stations would save 6.000,000 tons of coal a year and greatly lessen the smoke nuisance.

Great Britain exports \$1;600,000 worth of firearms annually.

Sweetens the Water

The toxic tendencies of alkaline waters have been corrected with nttric acid experimentally by an Australian chemist, which leads to the belief that vast areas of unproductive land may be safely irrigated in that manner.

Thin Glass Tubes

Using an electrical furnace a London scientist succeeded in drawing glass tubes with an outside diameter of but one twenty-five thousandth of an inch.

Fifty species of fish possess organs apable of imparting electric shocks

Lacking in Knowledge

Nineteen young Englishmen arrived in New York during one week bound for the Canadian west. Each one of them was armed with pistols and bowie knives.

Does Not Eat or Talk

A machine has been perfected which pours any dry powder into a paper bag, folds the bag, makes a paper box and places bag and a folded circular within it, pastes on a label and seals the box at a rate of 1,500 boxes an

A WINNING FIGHT

Telling of the progress made in comoating the terrible 20th century plague-Consumption.

Notwithstanding the enormous increase in population in Canada in the past few years, it is more than gratifying to be able to record that the fight which the National Sanitarium Association are putting up against the "white plague"consumption-is proving a winning one.

Prior to 1896 deaths from Consumption were on the increase every year. In 1910, despite the greater number of citizens, the figures in Ontario alone showed a decrease of 1118 over those of ten years ago. Isn't this splendid testimony to the noble work going on?

Maybe you haven't a father, mother, sister or dear friend of your own afflicted, but wouldn't it feel good to help some poor soul in the throes of the dread disease to get back into the wage-earning classto return cured to wife and loved ones?

Our proud boast is that no needy Consumptive has ever been refused admittance to our Free Institutions at Weston and Muskoka because of poverty. But the good work cannot expand without your kindly sympathy and material help.

The need is urgent. If you are blessed with that greatest of all blessings, good health, think of your needy suffering brother and sister.

Send along your mite, however humble, to MR. W. J. GAGE, Chairman of the Executive Committee; or to Mr. R. DUNBAR, Sec. Treas., 347 King West, Toronto.

Every penny you send poss to help.

DIVISION COURT SECOND IN THE

COUNTY OF VICTORIA,

The next sittings of the above Court will be held in Twomey's hal, in the Village of Fenelon Falls.

On Wednesday, Sept. 10, 1913,

commencing at 1 30 o'clock in the afternoon. Saturday, August 30th, will be the last day of service on defendants residing in this county. Defendants living in other counties must be served on or before Monday, August 25th. Office hours from 10 a. m. to 4 p. m.

E. D. HAND, ELISHA MARK. Bailiff. Clerk.

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