Feline Prescience.

I must give a fact which was communicated to me many years ago by an old physician, of which the good old man assured me he was an eye witness. In his house were two cats, each with a litter of kittens but a few days old. One of the cats was very young, it was her first litter, and the old cat was her mother. It was noticed that the younger cat did not seem well. Each one had her litter by herself, although both were in the same room. As the old cat lay suckling her own litter the young cat came to her mother and made a low mewing, then went to her own litter. The old cat followed her and immediately began removing the grand-kittens, adding them to her own. The truth was, she had adopted them, and seemingly at the request of their mother, for not many minutes more had elapsed before they were orphaned by their mother's death.-S. Lockwood, Amer. Naturalist.

----PERIOPHTHALMUS,

In the swamps and brackish waters lying not far from the sea, in the torrid zone, especially in Western and Eastern Africa and in some of the islands of the Indian Sea, is found a species of fish called periophthalmus, which on account of the peculiar formation of their gills are able to live longer out of the water than other fish, and pass the greater part of the day in the wet mud. This fish is about fifteen centimeters long, of many changing colors and markings, but it has generally a light brown ground marked with silver and brown spots. A black band edged with white runs through the length of the upper half of the second dorsal fin; the other fins are also marked with spots and dots.

If any fish deserves the name of "tree climber" it is the periophthalmus, for its pectoral flus are constructed so that it is able to climb; they are rather feet than fins, and are used only as feet. These fish lie upon the mud, run along the shore like lizards, and rush upon their prey with such rapidity that they seldom fail in capturing it. If they are pursued they move swiftly over the mud, bore into it, and in the fact that ice is first formed on the outside surfaces conceal themselves.

only within the brackish water at the mouth of rivers or their freezing progresses, is forced toward the center, and since branches, and never in the very salt lagoons. He has observed them at the mouth of the Kuilu on the coast of seen by dozens, upon the flat, bare shore, generally on the brink in the shade of the mango trees. They avoid dry this peculiar formation. ground and ground grown over with grass and weeds. If they are not frightened they jump with a slight curving and stretching of the body, supporting themselves by their tail

attempts to leap, as if from excess of spirits, and sometimes a number of them jump about as if playing or chasing one another. It happens sometimes that a fish will suddenly spring from the ground upon a mango root, firmly clasping it with its fins. When frightenedit will drop from the root. They can remain out of the water for hours.

They are moderately shy, and at the approach of any person raise themselves to an erect position by means of their fins. If one remains motionless and surprises them by coughing, whistling, or knocking, they will bend down and escape with quick leaps into the deep water, when they instantly disappear. These leaps are about twice or three times the length of the body. The native boys often shoot them with arrows, and lightly wounded fish will jump about a table in a lively manner. Their food consists of crawfish and insects.-From Brehm's Animal Life.

.... Effect of Gas on the Voice.

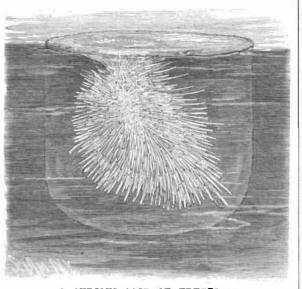
Our English exchanges inform us that Dr. Moffat delivered a lecture lately in Glasgow on voice training by chemical means. Dr. Moffat maintained that the presence of peroxide of hydrogen in the air and dew of Italyhad some connection with the beauty of the Italian vocal tone. A series of illustrations by people taken from the audience, who inhaled a chemical compound made to represent Italian air, were largely satisfactory-a full, clear, rich, mellow tone being produced by one application. Several gentlemen present gave their favorable opinion of the new idea. Dr. Moffat's own illustrations were quite unique. Taking what was origin-

by the possessor of a voice of this character.

A CURIOUS CASE OF FREEZING.

Many of our readers will no doubt have had their attention called to the curious shapes which ice assumes under different conditions of freezing. Our engraving represents a form to which our attention was drawn a short while ago. It seems that a small cylinder shaped mustard bottle, partly filled with water, had accidentally been left out in the cold. In the morning it presented the appearance shown-in the and it is a certain fact that all wasps, hornets, bees, ants, center an oval nucleus of snow-ice from which thread-like air bubbles radiated in every direction. The experiment male can do neither. The females do all the work and all was repeated with different shaped vessels, and the same peculiarity was manifested in those with sloping sides.

The explanation of the phenomenon must be sought for

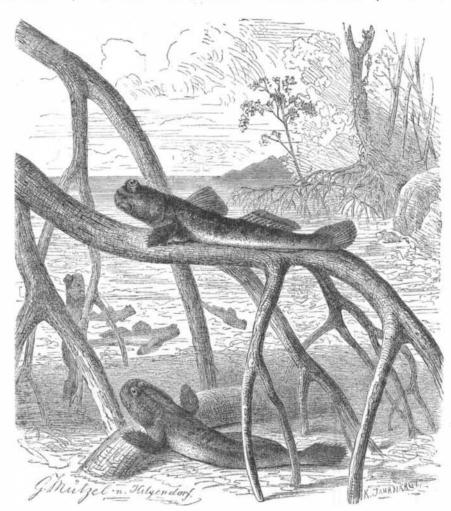


A CURIOUS CASE OF FREEZING

of the water, thus imprisoning the air, which is separated Pechuel-Loescne says that he has seen this strange fish from the water by the freezing of the ice. This air, as the ice forms by shooting out crystals, the air is imprisoned between them, and presents the appearance shown. A Loango. At low tide and in pleasant weather they may be specimen which had been thoroughly boiled to remove the air was frozen, but showed only very slight indications of stream of oxygenated water through and among the eggs,

Amazons of the Insect World.

A lecture upon ants was recently delivered at Cooper trary, they were like their parents, they would at once sink and fins. With short springs forward they make their way Institute, this city, by the Rev. J. G. Wood. The geo- to the bottom of the water in the immediate neighborhood through the mud, leaving behind them a perceptible track, or graphical area of this wonderful creature is circumscribed; of their birthplace, and the area of their distribution would they lie comfortably scattered upon the soft mud; then one it is strictly a child of the South. In the tropics it is found be extremely limited. Nature here, however, as in the case



ers, which were once thought to be neuters in sex, but which are now known to be females whose growth has been arrested. They in fact resemble girls whose growth should be stopped at twelve years of age, and who should satisfy themselves with being housewives and nurses, without ever arriving at the dignity of motherhood. There can be no mistake about their sex, because they can sting and bite, and mosquitoes that either sting or bite are female. The the mischief, and show all the ingenuity. The males, in many cases, cannot even feed themselves.

"Among the workers there is an immense division of labor, which is not interchangeable. There are two great divisions, the warriors, or Amazons, and the civiliaus; and the former have become so accustomed to a purely warlike life of rapine and adventure that they cannot even feed themselves. Among some ants the workers are not of the same race, but are slaves captured by the Amazons, and it is a most singular fact that though they fight most stubbornly for their liberty, yet when once within the nest of their captors they become the tenderest of nurses and servants, feeding their mistresses, storing the eggs, looking after the grubs, tearing open their cocoons, storing up the honey dew, milking the ant cows, which are the green aphides that feed on the roses, and taking charge of the whole administration of the colony in the most disinterested and intelligent manner. They are never guarded, but though far more intellectual than their conquerors they never attempt to escape."

The Young of the Lobster.

The early life-history of the lobster is most interesting. The eggs are, upon extrusion, found attached to the "swimmarets" of the abdomen (the so-called tail of the lobster), and constitutes what is generally known as the "berry." A single female lobster will have from 20,000 to 30,000 eggs -as nearly as possible the same as the female salmon. Attached in this "berry" form, the eggs remain for some three or four months, and then the young are hatched. "No nutritive or other than a purely mechanical relationship subsists all this time between the parent and its egg-clusters, the passing of its small brush-like claws among them to rid them of any extraneously derived substances, and the occasional fanning motion of its swimmarets to increase the representing the sum total of attention they receive." The young animals that issue from the eggs of the lobster are distinct in every way from the adult. If, on the con-

of the great majority of marine invertebrate animals, has provided her offspring with special facilities for becoming distributed to long distances, their bodies being so lightly constructed that their specific gravity scarcely exceeds that of the fluid medium they inhabit, while they are additionally provided with long feather like locomotive organs, with which they swim at or near the surface of the water. As such essentially free-swimming animals, they now spend the entire first month or six weeks of their existence, in which time, it is scarcely necessary to state, they may be carried by the tides and currents many miles away from their places of birth. During this interval, however, the little lobsters by no means retain their primitive shape; their delicate skin, the rudiment of the future shell, is constantly getting too tight for them, and is thrown off to give place to a larger and looser one that differs each time in many structural points from its predecessor.-Fisheries of the World.

Effects of Rum on Pigs.

Mr. W. Mattieu Williams once witnessed a display of drunkenness among three hundred pigs, which had been given a barrel of spoiled elderberry wine all at once with their swill. "Their behavior." he says, "was intensely human, exhibiting all the usual manifestations of jolly good-fellowship, including that advanced stage where a group were rolling over each other and grunting affectionately in tones that were very distinctly impressive of swearing good-fellowship all around. Their reeling and staggering, and the expression of their features, all indicated that

PERIOPHTHALMUS, OR LAND FISH.

ally a voice of power and resonance, but destitute of intona- in its full glory, but as it approaches the temperate zone it alcohol had the same effect on pigs as on men; that under tion, he showed by chemical means this could become a diminishes in size and interest until a point is reached where its influence both stood precisely on the same zoological tenor of great range. Some twenty notes, ranging from the it disappears. Ants, bees, wasps, and hornets, which all level."

lower to the higher register, were sung without any effort belong to the same order of hymenoptera, may be divided into two grand sections-the solitary and the social. All that need be said of the former is that a male and a female

OIL OF WINTERGREEN AS AN ANTISEPTIC.-This oil, mepair off and make a rude nest with a few cells. All the reports the best results from the use of a paint composed of thyl salicylate, is obtained by the distillation of Gualtheria interest and all the intellect may be said to be centered in a tincture of myrrh and four grains to the ounce of bichlorprocumbens. It is here pronounced more efficacious than the socials. "Here we have a queen, males or drones, and a de of mercury. Other skin affections are cured by the ap-



Prompt Cure of Ringworm.

R. W. Taylor, M.D., in the Journal of Cutaneous Diseases, phenol, though it has the disadvantage of being more costly. multitude of smaller unwinged insects rightly called work- plication of this remedy.