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## BRINGING UP FATHER



By George McManus

FISH PROVIDE OWN LIGHT  
IN DEPTHS OF THE OCEANPHOSPHORESCENT GLOW ILLUMINATES NEIGHBORHOOD  
WHERE THEY PASS ROWS OF LAMPS PROVIDED BY  
NATURE—IMMENSE WATER PRESSURE.

Sunlight is of no use to fish inhabiting the deeper portions of the sea. In the waters off the coast of Porto Rico, where the depth is about five miles, day and night are the same, and it was originally believed that fish lived in perpetual darkness.

It has now been discovered that this is not so. Although there are certain portions of the ocean where light never penetrates (and where fish, in accordance with nature's economical rule, are provided with no eyes), the majority of deep sea inhabitants live in a blaze of phosphorescent light produced by themselves. In other words, these fish carry their own lamps.

Sometimes a fish will have only one lamp, which may be compared with an acetylene lamp on a bicycle. It throws a penetrating shaft of light through the water ahead and the fish's path is perpetually illuminated.

## Have Rows of Lamps

Others are provided with organs in which are fitted rows of lamps, which either play upon the water ahead or flash through the water on either side like the illuminated port holes of a ship. The lamps are fitted with lenses and reflectors and their power is accentuated by the tremendous water pressure and peculiar conditions under which they live.

At a depth of 2,500 fathoms the pressure of water upon fish is twenty-five times greater than that required to drive a railway train. Such deep sea fish as have been brought to the surface, although retaining some of their phosphorescent properties, are assumed to have lost the greater portion of their brilliance.

One's imagination finds it difficult to grasp what the great artificially-lit water chambers must be like. Far below the ocean liners are enormous watery domes, icy cold, soundless yet as brilliantly illuminated as though the sun were pouring upon them.

These illuminated spheres are not stationary. They move, as the living lamps move, leaving behind them utter darkness.

## Deep Sea Angler

One of the most remarkable of these fish is the deep-sea angler fish. Like its shallow water relative, it has an enormous mouth with ugly irregular teeth, and a pendulous tentacle by which it catches its prey. But whereas the latter's tentacle is designed to resemble something edible, the former's is designed like a "Will-o'-the-Wisp" light, which teases and attracts prey into the waiting mouth. The deep-sea angler fish is found at a depth of 14,700 feet.

Most deep-sea fish bear a strong resemblance to some species of fish inhabiting the waters above them, apart from their quality of luminosity. This suggests that fish migrate from one depth to another, acquiring in the course of time the physical characteristic to their new environment. The nearer the surface they get the less they shine—another example of nature's logic.

But these migrations must be very gradual affairs, for a sudden

Mrs. Hinton played the accompaniments for the exhibition dances and for the Scotch and Irish dances. James Sturgeon played the bag pipes. For the guests' dancing music was provided by Sam Brail, F. W. Brown and Miss Blanche Curtin. Mrs. Crewe and Miss Cheston were assisted by Misses Erskine, Dorothy Tremayne, Pete Tremayne, Rhoda Saunders, Helen Wallace, Constance McMullin, Ruth Rix, Hester Wright, Lorna Tite, Myra Harvey, Margaret Palmer, and Gertrude Nelson, who waited on the tea tables. Harry Ward and Cedric Duncan were on the door. For the general decoration of the hall, Mrs. Crewe was aided considerably by the decorations that had been left by the Daughters of the Empire and the Masons from their dances, while Miss Cheston made the table decorations arrangements.

The Music.

For the Music.