

## SPONGES USED AS HOUSES BY MANY SEA CREATURES

Sponges are the bee hives of the sea. This curious discovery has been reported to the U. S. Bureau of Fisheries here by Dr. Charles J. Fish of the scientific staff of the New York Zoological Society's steamer "Areturus" cruising in tropical waters.

The "bees" which Dr. Fish found inhabiting the canals of sponges were whole colonies of the tiny snapping shrimp, *Alpheus*. These gregarious shrimps, he discovered, swim freely about but always return to the individual sponge which is their hive-like home.

Numerous other forms were also found to use these subway passages as a haven of refuge at the approach of danger. One sponge-hive with its homing shrimps was secured and placed in an aquarium aboard ship where the colony continued to flourish.

This discovery makes known another of Nature's queer partnerships; for the sponge which the shrimps use as a home is itself a marine animal, although it spends its adult life fixed to the rocks in one place, like a plant and the canals which shelter the shrimps are the many mouths through which the sponge gets its food.

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## SAME LAMP GIVES LIGHT OF TWO DISTINCT COLORS

Remarkable decorative effects have been made possible by a new lamp arrangement presented to the French Academy of Sciences by M. Georges Claude. Two different colored lights are produced in alternate sections of the same lamp at the same time. By forming a neon and mercury lamp in the shape of a tube containing constrictions, the orange glow of neon is obtained in the larger parts of the tube while the white light of mercury shines from the narrowed parts. If these lamps are made as uniform cylindrical tubes, however, only the yellow light of neon is seen.

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## COLLEGE STUDENTS PREFER FAIRNESS TO BRAINS

The college instructor who would be popular with students need not thrill them with his brilliance, but he must be fair in grading and courteous, according to a test made with 40 seniors at Purdue University. Tact, sympathy, and cooperation are the qualities which the students regarded as most essential to popularity.

Prof. George C. Brandenburg, who reports the results of these tests in a coming issue of the "Journal of Applied Psychology", expresses surprise that the students do not demand intellectuality in an instructor as one of the first desirable qualities. But he concludes that "after all, students are only human and apparently crave first the same humane qualities in their instructor that they demand in their classmates".

The ten qualities most agreeable in an instructor were rated by the students in the following order: honesty and fairness in grading, courtesy and consideration, liberal and progressive attitude, cheerfulness, clearness, punctuality, generosity, cleanliness and neatness, morality, intellectuality.