In Honolulu, is effective except when sharks enter into a "feeding frenzy."

Although sharks can readily distinguish an object against a contrasting background in either bright or dim light, they cannot clearly discern the details of the object nor its color, Dr. Gilbert explained.

In experiments sharks had their vision interrupted by black plastic shields over each eye, and their ability to smell was obliterated temporarily by plugging each olfactory sac with cotton soaked in an anesthetic, pontocaine. At distances greater than 100 feet, smell is more important than vision in guiding sharks to prey.

At distances of 100 feet or less, depending on the clarity of the water and amount of light, vision increases in importance. At very close range of ten feet or less, vision is probably the principal sense involved in directing a shark to its target. When both vision and olfaction are obliterated simultaneously, an adult Negaprion swims helplessly about, injures itself seriously, and dies within three to five days.

* Science News Letter, 80:147 September 2, 1961

Okinawa in the Ryukyu Islands near Japan is one of the areas in which a long-continued study is underway. The other regions are New England, India, Mexico, the Philippines and Tegusa in Africa. This project is under the direction of the Harvard Graduate School of Education.

In such inquiries, for example, it is found that under polygamy the mother plays a dominant role and the child may not see its father for years. The experience of breaking away from the family in such a culture is different from that experienced by a child in a culture where monogamy is the custom, and the father and the mother's influence are present.

Even the form of government and the educational system have been found to affect the lives of people under various cultures.


**Pacific Peoples Earlier**

> THE PACIFIC ISLANDS were peopled several hundred years earlier than previously believed. This was revealed by radiocarbon dating determinations reported to the Tenth Pacific Science Congress in Honolulu by Dr. Richard Shuter Jr., an archaeologist at the Nevada State Museum, Carson City, Nev.

More than 100 specimens from various parts of the Pacific area were dating to Pacific archaeology has been to show that the early and middle periods of migrations into this area were made by several hundreds of years, being much earlier than anticipated. "Cosmic radiation bombarding nitrogen in the earth's upper atmosphere continually creates radioactive carbon of atomic weight 14 which is washed by rains to earth and accumulates in all living things. The rate of radioactivity, which decreases with time, tells the age of once-living objects."


**Personality and Society**

> THE WAY children are reared in a certain kind of civilization may affect their personalities and even diseases they will have in later life.

As a part of a world-wide investigation by medical scientists, anthropologists and other experts, the Tenth Pacific Science Congress in Hawaii made reports of effects of culture in Okinawa on personality.