SNAP SHOTS UNDERTHESEA.

How the Enterprising Camera Expert May Now Take Pictures Under Water.

With the development of the submarine boat has come a new science, submarine photography. Scientists who are now exparimenting with compressed air, electriproblem of how to navigate beneath the sea, assert that the day is not far distant when, stepping out from a submarine boat anchored at the bottom of the ocean, it will be possible to go shooting with pneumatic guns in ferests of coral and sea weed, and that pedestrians walking on the bottom of the ocean can take photographs of the scenery there as easily as if they were on dry land.

Recent discoveries show that rapid proggress is being made in the use of cameras in water. The great problem of taking anap-shot pictures at the bottom of the sea is believed to have at last been solved by M. Louis Bouton, an eminent French

He has demonstrated that the sensitive plate is affected as readily by light passing through water as by light that passes through air. He has shown that the me dlum through which the light passes is a matter of small importance.

While he has contributed nothing new to the chemistry of photography, M. Bouton has, by his experiments, removed many of the mechanical difficulties that surgraphs. From a long series of fallures he has learned just what new appliances were necessary to the taking of pictures of this

Each time he took down his camera to the bottom of the Mediterraneau, where his experiments were principally conducted, he came nearer to final victory. Now at last he has succeeded in taking photographs of the bottom of the sea that are marvellously clear.

These pictures possess a singular interest, as they show the strange animal and vegetable life of the bottom of the ocean. Welrd fish, strange crabs, odd creatures that are half fish half plant, and a multitude of curious and interesting mollusks are revealed by these new pictures.

The photographs of the submarine forests are startlingly novel. Seaweed makes an altogether different appearance when seen in its natural element from that which it presents when seen floating on the sur-face or driven up on the beach.

A grove of seaweed on the bottom of the sea, as these pictures of M. Bouton show, displays many of the characteristics of a grove of small trees or shrubbery. There is a well-defined underbrush, through which the grobe and carlons agantle insects. eels, erabs and curious aquatic insects prowl for food.

Higher up the longer seaweeds throw out their branches, and curlous fish come and light on these branches like flights of . by to on the branches of trees. Still high-

project weir slender fingers. The whole is suffused by a dim, green-ish light, which percolates downward from the surface of the ocean. A strange silence

natural light to be found even at a depth of twenty feet was too weak to photograph

Ha discovered that the sunlight 's enor mously weakened by passing through a tew feet of water. To take pictures at a depth of ten feet remires he says, an exposure of several knurs, and the picture is almost execute in the reliand by the movement of the severed and the disturbances caused by fish that, animated by curiosity, come up and fool with the camera.

M. Bouton has parinciple an apparatus for making a dash light in the bottom of the ocean. On top of a key, hearly weighted on one end, he places as mag-nesium powder apparatus.

This is hermetically scaled from the water by a round glass cover. His camera is also water-tight, so that he can use the ordinary sensitive dry plate.

The magnesium powder is exploded in its glass case at the same time that the plate the camera is exposed. The strong light which this powder makes penetrates the water for a long distance. It illuminates the darkest recesses of the

submarine landscape. It brings into relief the strange, mysterious fish whose dark bodies may be dimly seen by the photographer among the submarine undergrowth, and it makes them stare.

All the eyes of the fish within a radius of twenty feet are instantly turned upon the camera the moment this submarine flash-light is turned on, and, eatching the light in high relief, these eyes show plain-

M. Bouton claims that there are many reasons why a submarine photograph should be even more clear than a phograph taken on dry land. He says that oftentimes there is absolutely no motion to the water. Given a good light powerful enough to lituminate the submarine landscape for a distance of forty feet, bringing out the detail of all the plants and animals In the foreground, and the resulting photograph must necessarily, he says, be clear

The pictures he has exhibited as a result of his own work in these fields go far to show that he has succeeded in this diffi-cult task. In many instances, he says, his strange dress and his movements in arranging the photographic apparatus artracted crowds of fish, which swam about

When the flash-light was burned, these of fish, with their wide-staring eyes, were instantly pictured on the sensi-tive plate. Before the fish and crabs senttled away in fear of the light, they left their photographs in the possession of this

enterprising French scientist. In one instance, he says, he witnessed a fight between two submarine monsters, and a picture shows them struggling in a death grapple. Another interesting picture he has he sen, with ash swimming in and out of



M. BOUTON, THE FRENCH SCIENTIST, MAKING SNAP-SHOTS ON THE BOTTOM OF THE SEA.

BRIBED BY BRIGANDS.

Succeed in "Fixing" the Jury Who Tried Them.

The seaweeds oscillate gently, as if played upon by a breeze. Their delicate dark brown colors are relieved by the brilliant reds and whites of the coral While the citizens of Syracuse were con-The city of Syracuse, in Sicily, has a

a verillet of aequitial for the whose fifteen

Some of the troops garrisoned in Paris

ed over a hot fire and cooked with the following vegetables: To every 100 pounds of tallow five pounds of carrots are added, in Sizm They Are Great Trophies and Are seven pounds of leak, seven pounds of onlons, one pound of celery, five hundred grains of parsley, five hundred grains of Some of the troops garrisoned in Paris hours the whole soup is put through a are now fed on a new article of food called sleve and the vegetable stuffs are thrown fortunate as to capture a white elephant.

The remaining mass is formed into bricks, When one is secured in Slam, it is feetched to the capital city and presented to the matter of the capital city and presented to the capital city and city and city and

WHITE ELEPHANTS,

Pampered and Invested with

of darkness and dammation; and that 14 d reached only through the bottomless pit. garile, fifty grains of thyme and laurel laws also sait, pepper and nutmeg. After this olfa podrida has balled for several kill them. Great rewards, on the other European Governments Send Up Their

War Balloons to Test Their Power

The Ministers of War of the great powers ers and of Continental Europe arranged an inseresting leternational balloon race recently to ascer ain, if possible, the reliability of these adjuncts of warfare on a larger scale than ever before attempted. The result, as new officially announced, was not altogether satisfactory. It prove various armies, wind and weather and other elementary contingencies are still playing an important part in deciding the fate of aeronautic enterprises, whether the balloon be manned or not

of the earth, the four winds of heaven,

etc. The underside of the earth having

no sun is, say these dreamers, the place

IS FLAT.

Attempt to Prove

This Very Curi-

ous Theory.

Experiments are soon to be made on the

The hardy searchers for glory have come

The Russian Minister of War sent up two balloons, the one that ascended at St. Petersburg being of the "registering vari-This went up to an altitude of

4,700 feet, and there exploded.

Another military baltoon, carrying an officer and five men, ascended to a height of 18,000 feet, where the thermometer was found to stand at 27 degrees. After a voyage of eight hours this bulleon handed near Pikow, about 150 miles southwest of St.

Petersburg. The Russian authorities also sent up a balloon at Warsaw, which encountered northwest winds that drove it into Gallela. The Freach Minister of Wer loaned the well-known registering balloon L'Acrophile III, for the experiment; It vanished behind the clouds within a few seconds. Although the authorities throughout France and the adjacent countries were advised to look out for the balloon, nothing was heard of it for several days and the War Department surmised that it had fallen into the North Sea and was lost. Finally word came from Graide, a little place in Belgium, 150 miles northeast of Paris, that "Aerophile" had landed there safely. The balloon had travelled to an altitude of 47,000 feet, where it registered 63 degrees Celsius. It arrived at Graide five and one-half hours after start-

The German balloon division sent up its erack registering airsnip, the Ciraus, at Schoeneberg, near Berlin, this hallown having a record for swift and energetic work. During its first trip it travelled 600 miles in ten hours, rising to an attitude of 47,000 feet. On other occasions it rose to 54,000 feet, and on a trip to the Danish Island of Lolland, to 07,000 feet. This race was the last trip the Cirrus was destined to undertake. After two or three days it was found stranded on several of the highest trees in Grunewn)d forest, near Berlin. paratus showed that it had attained an altitude of 19,000 feet, and then dropped, its pear-shaped silk has becoming defective.

a capacity of 1,300 cubic metres and which was filled for this occasion with 1,000 cubic metres of hydrogen gas, ascended at the same time as the unfortunate Circus, with five men in its basket. The observers notheed an increase of temperature in the dower strata of the air. During the night the balloon remained at an altitude of 2,300 feet, but began to rise rapidly in the morn-The navigators tried to fly over the Baltic, but, on account of contrary winds, were obliged to hand at Ribnitz, Mecklenburg, after being out eleven and a half

The military balloon Russard, which has



E EARTH WERE FLAT, THIS IS HOW THE SCHOOL MAPS WOULD LOCK