are common to one or both of the other tribes. This is caused by persons leaving their own tribe to live with another one, but instead of uniting with some gens of the adopted tribe, they have preserved the name of their ancestral gens for themselves and their descendants. It is not probable that the names of the gentes are very uncleut. The Blood gentes "Many horses" and "Many children" are neither of them thirty years old. The Piegan gens "Stifftops" is also a comparatively new name. Each gens is governed by a chief chosen by the eeremony of the "Medicine Lodge" which will be described in another place. However, It can hardly be said that chiefs govern the gentes. Matters of importance relating to a gens only, are discussed by the leading men, and a decision rendered by the opinion of the majority. Matters of less consequence, such as the disputes about the ownership of a horse, a family quarrel, or a theft, are carried straight to the chief for his decision. Subjects of importance to the tribe are discussed in the centrally located lodge of some chief or "medicine man," and as in the gentile council, a decision is rendered by the majority. A tribal council is attended by all the chiefs, medicine men and married warriors of the tribe. A conneil is called "they-all-talk," a tribal and a gentile council house "in-the-middle-talk-to-cach-other-house."

The Blackfeet have very few laws for the social and military government of the people. The law regarding murdre is, that the murderer must be killed by some of the male relatives of the murdered; if the murderer escapes, some one of his male relatives may be killed in his place. If a married man of his male relatives may be killed in his place. If a married man of his male relatives may be killed in his place is the murdered man, who has no near relatives, dies, the widows may demand some warrior of his gens to neverge him. Thus, in the story of "Red Old Man," which is as follows: "And some wildows, whose husband had been talled by the Crows, painted their faces b

After an interval of a few days the friend is again sent to make a formal demand for the woman. The parents of the woman then call a family council to discuss the advisability of letting the young man have her. Often a price is set—a number of horses, valuable finery, etc. If within his means, the young man pays it, whereupon the bride is escorted by some femsle friend to his lodge, where she immediately earliers upon her duties as if she had always been accustomed to them.

If a man die his widows may become the wives of his eldest brother. However, if he does not choose to marry them, they are at liberty to marry any one else. If a man wish to divorce his wife, he accomplishes it by taking back the price he paid for her. The woman is then at liberty to marry again. The first woman a wan marries is called his "sits-beside-him-wife;" she is invested with authority over all the other wives, and does little hut direct the work of the other wives and adoes little hut direct the work of the other wives and adoes little hut direct the work of the other wives and attend to her husband's wants. Her place in the lodge is on the right side of her husband's seat. She enjoys the great privilege of being allowed—to a certain extent—to participate in the conversation of the neu, and offeu, at informal gatherings, take a whiff ont of the pipe as it is being snoked around the circle.

Female children are generally named by their mothers or some female relative or friend. Female can always be distinguished from mate names by the terminations, thus: Antelope-woman, Sitting-up-ha-the-attronantous, thus: Antelope-woman, Sitting-up-ha-bally work of the rest of his life. However, names are considered a man's personal property, as are his bows and arrows or his shield, and are often hought and sold, large prices sometime

of success, and the host then took the forward part of the host and put into play all the art years of practice had perfected him in, but uot a rise could be get. Turning around to see how his guests were amusing themselves, he found them dissecting a wild flower picked up on the road, and comparing it with others of the same family they hadknown in Europe; the nobleman mentioning the scientific name asked if other members of the same family were to be found in America. This question was too much for our friend, who, keenly feeling his want of knowledge of hodany, had to declare his ignorance of the subject. A dead silence followed for some time till the nobleman, easting his eye upon the adjacent rocks, then-asked if he could tell him of what formation they were. Another avowal of ignorance on the subject of geology had to be offered by our friend, who felt that he was entirely the wrong man to entertain such scientific straugers, but being best on establishing a claim to knowledge of some sont, turning to the Duke he told him that in America few men devoted much time to scientific stratiges. "Why is that?" and the nobleman.

tific straugers, but being bent on establishing a claim to knowledge of some sort, turning to the Duke he told him that in America few men devoted much time to scientific studies

"Why is that?" said the nobleman.
"Because," answered our friend, "it don't pay; in this country one regnires all his learning and energies for mouey-tasking, and the selentific man has a poor chance in the race for wealth. Yet," he added, "Your Grace must not form an estimate of our people's knowledge of many refined studies by my ignorance of botony and geology. We all try to cultivate a taste for some of the arts and sciences. Some of us are musical; others sketch, paint, or do something which can be made useful as well as agreeable. As far as I am personally concerned, being fond of shooting and fishing, I have acquired a familiarity with our birds and fishes, and my knowledge of or utilhology, or pisciculture, 1 shall be happy to place at your Grace's disposal."
"Thanks," answered the wobleman, "I am well acquainted with your American birds, and can left the name of many of them by their song. For instance, the bird we now hear is the robin"—and so it was—which for the moment fully established the Duke's knowledge of that bird at least. A little further on auother songster attracted his Grace's attention. He said to our friend:

"Of course you know that bird?"
"Oh, yes? he answered, "very well, indeed. They are very plentiful here about, and in fact everywhere."
"I also know him," said his Grace. "That is the—the—well, 1 have got his name on the end of my tongene, how odd, 1 early prononnee it. What do you call that bird?"
Now, thought our jolly friend, his eyes twinkling with satisfaction, the Duke is beautifully cornered by himself, and with a most respectful bow, he asswered. "That bird, your Grace, is called an Irish nighting le, but it is really a bird of another feather, or rather no feather at all, it is rally a bird of another feather, or rather no feather at all, it is rally a bird of another feather, or rather no feathe

## Hatural History.

LIFE AT THE BOTTOM OF THE SEA

cent—to participate in the conversation of the near, and offer, at informal gatherings, take a whiff out of the pipe as it was to be a distinguished room and the circle.

If you have not been a considered a man is a constant to the coast of America, the United States Pistone mander relative of friend. Penalle can always be distinguished from male names by the terminatious, thus: Anti-ope-woman, Sittlitug-up-in-the-air-woman. Little elst-dech-woman, etc. As soon as a young man has taken part in some brave deed he is allowed to choose a new name for himself by which he may be known for the rest of his life. However, names are considered a man's personal property, as are his bows and arrows or his shield, and are often hought and sold, large prices sometimes being paid for them. Passed in many and the bill. Young Bull, Water Bull, etc. A very ingular custom exists among the Blackfeet, that a man must not, ander any circumstatuces, meet or speak to his mother-in-law, and if this rule he broken, the mother-in-law may exact he saw may exact he saw may be compared to the contributor to the forner. The writer has been unable to learn any special reason for this. Some say that the sam made the law, others that is improper for a man to meet his mother in-law for fear she might hear him say something impolite.

A BIRD OF NO FEATHER.

A FREQUENT contributor to the Fornest and Strucking the same pressul proper for a man to meet his mother in-law for fear she might hear him say something impolite.

The nobleman in question, who, by the by, is very learned and a litterateur of high order, became interested in the fish and a litterateur of high order, became interested in the fish and a litterateur of high order, became interested in the fish and a litterateur of high order, became interested in the fish and a litterateur of high order, became interested in the fish and a litterateur of high order, became interested in the fish and a litterited or of the constant of the proper for the constant of the proper for the proper for

animals with eyes must depend upon phosphorescence for light, and, furthermore, that phosphoresence must be very common and very prilliant. Certain corals, and a few other animals, retain their phosphoresence even after being brought to the surface. Although animals are very abundant in these great depths, not a vestige of vegetable life has ever been found in any deep sea dredgings. The reason for this is of course that suffight is essential for the nourishment and growth of plants, which is not nt all the ease with animals.

animals.

The Bothybirs of Huxley, which was supposed to be the lowest form of life, in fact the primary starting point of all life, hardly an animal, yet not a vegenble, merely eapable of motion and taking food, has been proved to be nothing but a preephatic of organic and inorganic matter, covering the lowest forms of life found upon the cosen bothom, but of the depoted point of the depoted of the control of the depoted of the depoted

pp. In the particular case in mind, a circular membrane, hollow within, and open at the lower end, is produced downward as the colony grows. After becoming an inch of more long, the open cost closes, thus enveloping a nuss of mund and having the shape of a built. This bill-like loss is by the state of the polyse and the state of the polyse are all and having the shape of a built. This bill-like loss is by the polyse are all on one side; and on one side; and one count of this, together with the polyse are all on one side; and on account of this, together with the polyse are all on one side; and on account of this, together with the polyse are all on one side; and on account of this, together with the polyse are all on one side; and on account of this, together with the polyse are all on one side; and on account of this, together with the polyse are all on one side; and one account of this, together with the polyse are all on one side; and one account of this, together with the polyse are all on one side; and one account of the polyse are all on one side; and one account of the polyse are all on one side; and one side; and the side of the polyse are all on one side; and one side of the sid

to the animal. Food is sucked in through a rather long

to the animal. Food is sucked in through a fitter case, simple proboseds.

Deep-sea fish were represented by many new species, and some extraordinary forms. One, Gustrostomus bairdii, will probably form the hasis of a new order. It has a remarkabily long month, occupying a great deal more than half the body. The skull is very primitive, and the whole animal is a curious case of extraordinary development. One fish was taken, in which all traces of eyes were apparently vanting.

a curious case of extraordinary development. One had was taken, in which all traces of eyes were apparently wanting.

At the surface, two or three hundred miles from land, unitual life is extremely abundant. Cuttlefish swim around nud are chased by swordfish, sharks and dolphins. Mother Cary's chickens fly about, often in great numbers, attracted by the refuse thrown overhoard, which they hover over and, apparently, greedily devour. Notwithstanding the amount of food thrown away, still the stomachs of these hirds are usually entirely empty. In the warm waters of the Gulf Stream, by dragging a very fine net along the surface, millions of minute animals can be obtained in a very short time. Attached to pieces of timher and floating scaweed, the stalked, or goose, harmacle lives in great number. Good-sized erabs and shrimp also seek refuge among the seaweed. All these new and wonderful things have been discovered and studied by the Fish Commission, nader the excellent management of Prof. Baird, in addition to, and without interfering with the regular works of exploring the fishing grounds and studying the movements of the food fishes of Eastern North America.

R. S., Tann.

## DISCOVERIES IN ALASKA.

CAPT. M. S. HEALY, of the United States Revenue Marine stemuship Corwin, recently submitted to the Treasury Department an interesting report of discoveries made in Alaska during the past summer. He says:

Being desirons of ascertaining the exact locality and extent of a large river reported by the natives to debough in Hotham Iulet, I availed myself of Ensign G. M. Stoney's (United States Navy) better knowledge of surveying and his desire to make such examination, with a view to ulterior explorations should the result of the preliminary expedition warrant them.

warrant them.

I placed the dingy, with two men armed and equipped with ten days' rations, under his command, and landed him at Hotham Inlet July 23, with instructions to report on board at the expiration of ten days.

The result of his expedition, considering the limited means after see its bight greating recognitions and the set is bight greating as a constant of the second o

the expiration of ten days.

The result of his expedition, considering the limited means and time, is highly gratifying and well worth the attention of the Government. He reports that, leaving the native village on Hotham Inlet under the guidance of a native from the interior and well acquainted on the river, he made for the river marked on the chart. Arriving there, he found it to he small and very shallow—not worth exploring. Thence he proceeded some twenty-three miles along the northeastern shore of Hotham Inlet. Here he struck the mouth of another river of considerable size, which the native said was one of the outlets of a larger river. Ascending this branch in a southeasterly direction for two days, he struck the main stream, which proves to he a river fully three-quarters of a mile in width, having nowhere less than two and a half fathons of water, deepening at times to seven fathoms. He ascended the river a distance of fifty miles from its mouth. The banks generally were steep and thickly timbered with hirch, alder and spruce, some of the trees attaining a height of forty feet, with twelve inches diameter at the base. Back from the river banks the undergrowth formed an impassable jungle, particularly where the banks were low. The current was strong, at the hends reaching the rate of two knots per hour. The natives reported that the river held its depth of not less than two fathoms and its width of half a mile for not tess than three hundred miles beyond where Mr. Stouey turned back. It was further stated by the natives that by making a small portage near the head of this river they could reach another stream illowing northward into the Polar Sea. Mr. Stoney, having gone as far as time permitted, retraced his steps to the mouth of the main stream, which, with two ollice branches, forms the delta on the north side of Hotham Inlet.

Everywhere the ustives were kind, harmless and hospitable, many of them cvidently having never seen a white man

Everywhere the uatives were kind, harmless and hospitable, many of them cyidently having never seen a white man before. The heat was intense, vegetation rank and the

Everywhere the untives were kind, harmless and hospitable, many of them cyidently having never seen a white man before. The heat was intense, vegetation rank and the natives scantily clad.
Captain Healy also says:
Thus far ou our craise nothing has been seen to show that either liquor or breech-loading arms have been landed ou the American side by traders or others, while quite the reverse is the case on the Siberian shores.
Captain Healey also submits a report by Lieutenant W. E. Reynolds, who hastily explored the large lagoon that lies back from the bench south of Cape Seppings. The lagoon has an average width of about two miles, though the flats on the eastern side are exposed in many places at low tide. Striking right across from the mouth of the lagoon, the explorers found an entrance to, a small river up which they proceeded about five miles, when the current hecame so strong that they could not stem it without using the oars. Owing to their limited time they were unable to follow the stream but two miles further. Tracks of foxes and deer were found to be numerous.
Lieutenant Reynolds concludes his report by saying that were it uot for the shoal water at the entrance the lagoon would furnish an excellent harbor for small ships such as visit the Arctic, and recommends that the lagoon he named after the steamer Corwin.

The Addrondack Forests.—The Constitution Club of this city met last week. A committee appointed at a previous meeting presented a report. By the act of incorporation of the Addrondack Railroad, in 1863, the company was authorized to hold 1,000,000 acres of wilderness lands in addition to lands necessary for railroad purposes, and to dispose of the products of the forests and iron and other ores. The company has shready come into possession of 500,000 acres, and the forests are being gradually destroyed. The report called attention to the importance of forests to the water supply of the State and to the navigation of its rivers and canals, to its crops and climate. The discussion which followed the report took the form mainly of suggestions to the committee, which was continued with power to petition the Legislature to pass a general forestry law or such other measure as in its wisdom may be uccessary to preserve the woodlands of the State. The club was nuanimous in the conviction that the State should exercise its power to prevent the destruction of the Adirondack forests by milroad companies or by individuals.

A Hos-Nosed Snake.—Westfield, N. J., Nov. 3.—I send herewith a small specimen of a snake common to New Jersey and New York, that I know under the name of "that head adder," and believe to be as poisonous as either the rattlesnake or moreasin, though I have never seen the snake mentioned anywhere in Forrest aND Stream as heing venomous. Some time since I caught one and placed a live toad in an ash can with it and teased the snake until he bit the toad. I watched for some time, but saw no indications of the bite taking effect. Some homes after I concluded to kill the snake, and found the toad still sitting in the same natural position in which I left him, and therefore coucluded that the snake was not poisonous. The toad, however, proved to be stone dead, and had never moved or even kicked after being hitten. I am told that snakes of this species when termented will flatten their bodies as well as heads, and finally bite themselves and die. What is the proper name and classification of specimen sont you? I have rarely seen them over two feet long, and I have never known them to move an inch to get out of the way of man or dog. They his as a loud as a goose when disturbed.—
John J. Willers. [The snake is the common hog-uosed snake (Herdwolm platythinos), also called flat-leaded adder and poffing adder. It is a very common species, and from its appearance and actious is rather alarming to one not acquainted with it. It is not venomous, however, though generally helieved to he. See Dr. Yarrow's 'Notes on Reptles,' recently published in these columns.] A Hos-Nosed Snake,-Westfield, N. J., Nov. 3.-I send

generally nenered to he. See Dr. Yarrow's "Notes on Repriles," recently published in these columns.]

Flying Acaist Belldings,—Cosumue, Cal., Nov. 8.—
A note in a receut issue reminds me of an incident which happened to me some years ago, while living in Orange county, N. Y., near the New Jersey line, I was out after grouse with a friend. Alove his house, at three or four hundred yards distance, ran a high rocky ridge well covered with rhododendron, along which many a grouse had in the course of time fallen before our guns. On this occasion a brace whirred up and one dropped to my shot. The other got away unharmed, slanting down the hill at a tremendous rate, with wings almost stationary as is their custom when under full headiway down hill, only an occasional movement keeping them in the air. We could find nothing more of him and returned to the house, where we were astonished to find a fine coek hung up; and on inquiring, were told that the family had been startled by a tremendous blow on the house, and going out had found this hird lying on the steps with neck broken. At the same place on another occasion, I saw a foek of qualis pursued by a hawk, three of whom fing plenty and geese coming in by thousands. Have just come back from a hunting trip in the Sierra Nevadas, during which the party brought thirty-five deer to camp.—W.

E.W.,

Enomous Fossil Shark Teeth.—Monroe, Louisiana, Nov. 9, 1883.—There was recently found, in a gravel pit, on the line of the V. S. & P. Ry., two stones, one about twice the size of the other, and each having exactly the shape of a shark's, or "gourd seed," tooth. The larger one measures thirty four inches from extreue projection of base to point, hesides several inches broken off from the point. It is uincteen inches across the base and seveu inches thick at the thickest part. There were no other stones found in the pit except small gravel. These have been pronounced genuine fossil teeth by a scientific authority. The animal that owned and operated these toys must have been the one that swallowed Jonah, or a near relation of that one. One specimen is now in the R.R. office. I inclose a rough outline sketch of the larger ene.—Ouacutta. [We have no knowledge of any fossil shark's teeth having been found that are at all comparable in size with those here reported.]

## "HOW TO COOK A 'POSSUM."

"HOW TO COOK A 'POSSUM."

In a barber shop one day last week, while several geutlemen were waiting to be shaved, the conversation turned on good things to eat. After discussing various dishes, Joe Roney, who is considered a connoisseur, and who had taken an active part in the discussion, said: "Well, boys, you can all talk about nice things to eat. After discussing various dishes, Joe Roney, who is considered a connoisseur, and who had taken an active part in the discussion, said: "Well, boys, you can all talk about nice things to eat. but the best thing in the world lever tasted was possum, hedged in with brown gravy and sweet potatoes, with sugar on them." It strucks us that Joe knew the tries of the said and opportunity. We soon had the charce. Mr. Walls Furlow extended an invitation soon after to go out to his plantation and assist in a genutine old-fashioned possum hunt, with an hour or two for squirrels thrown in. We suppose there is hardly a man in Southwest Georgia who has not experienced the glories of a possum hunt. It is not for their benefit, therefore that we write these lines. Possibly the ladies may not feel particularly intersted in them, but we must be githe excuse that some one will, for we are full to overflowing with the good of the hunt, and must tell some one. Possum and 'coon-hunting,' who can tell you to a hair's breath where to find them. Mr. Purlow's plantation is no exception. There is a negro there named Jim that knows all about it, and what he don't know his dogs do. His dogs are his life and soul; he would rather you would steal his wife than his dogs, for he reasons that another wife he could get, but another dog as good as Rock, Jack or Fup, never. Rock is his "boss dog," and when his deep bay is heard you can lay your last dollar and wager it that 'possum will be treed. The first night's experience was a tame one wee, got into the first night's experience was a tame one wee, got into the first night's experience was a tame one wee, got into the body of the proper of the possum w