## SUIENTHFIC AND SANITARY.

The fiercely contending waters of a rocky oast-line afford a singularly favourable place for animals to find food. Every stroke of the waves rends away bits of seaweed from the rocks and grinds the fragments into bits which may be seized on by the expectant months. The winds drift vast quantities of organic matter from the deeper mill of the surf. The result is that the water next the shore is a rich soup or broth capable of nourishing a vast amount of animal life. On sandy shores there is no foot hold for such creaiures; if they were placed there the first wave would cast them into the mill, but on the firm-set rocks they can, by various most ingenious devices, manage o make avail of this chance for subsistence. One may judge how well spread is this table of the shore by taking a glass of water from the turmoil of the surf; we see that it is crowded with the dóbris of animals and plants, all of which is good nutrition for hese marine creatures. thus to be able to get safety and feed at this richly furnished board, the shore animals have for ages been most assiduously contriving ways of securing themselves to the rock. Thus the barhacles, whose remote ancestors were froeswimming creatures somewhat like the shrimps, began by adhering by their headparts to lloating timber or rocks not much exposed to the waves, and gradually, by oue change aiter another, all apparently designed to the one end, have come to a nearly perfect reconciliation with the conditions which
surround them. Their original form is no onger recognizable, for they are now cased in a cone formed of stony plates, and only these parts fairly anchored to the rock on which they rest. Their net-like fringe of rms can, whenever for a moment the sea is till, sweep the water about them, and when he surge is about to strike, withdrawing in their shells, which by their shape part the wave, they are perfectly protected. So, too, the limpets have converted the ordinary snail-like nhell into a stout buckler, which when lifted as the wave withdraw, As the the sea water with its nutriment. As ef the shield comes upon the surface of the rock and is held there by the short muscle which forms a large part of the animal's body. Animals and plants pay with infinite toil and pains for their chance to secure food gainst organic enenies. The surf line is hy its conditions the hest provisioned part of the sea; it is free from creatures which can prey upon its inhabitants, and to gain a place in it it is worth while for any creature
to make many sacrifices.- Prof. N. S. Shaler, in Scribuer's Magazine.

## "August Flower"

How does he feel?-He feels cranky, and is constantly experimenting, dieting himself, adopting strange notions, and changing the cooking, the dishes, the hours, and manner of his eating-August Flower the Remedy.
How does he feel?-He feels at times a gnawing, voracious, insatiable appetite, wholly unaccountable, anuatural and unhealthy.-August Flower the Remedy.
How does he feel?-He feels no desire to go to the table and a grumbling, fault-finding, over-nicety about what is set before him when tye is there-August Flower the he is there
Fiemedy.
How does he feel?-He feels after a spell of this abnommal appetite an utter abhorrence, loathing and detestation of food; as if a
monthful would kill him-August Flower the Kemedy.
How does he feel?-He has irregular bowels and peculiar stootsreguar bowels and peculiar stools-
August Flower the Remedy. © Minard't Liniment for anle everywhere.

Professor Vogel, the distinguished region. The address concluded with a chemist of Berlin, says that he has perfected a process by which it will be possible for skilled operators to reproduce the natural colours of animate and inanimate objects by photography. He says that he can photo graph people in natural colours as perfectly as he can reproduce pictures. He admits that he has not yet practically demonstrated his theory, because the light in Berlin has not been favourable to his experiments, but says that when the summer comes with its more brilliant light he shall do so, and has no doubt of perfect success. The subject of photographing in colours is one that has been debated very extensively during the past few years, and the general opinion has been that it is impracticable; but that, of course, does not determine it. There have been so many cases where theory has been so completely upset and overturned by the logic of facts that it is never safe to say what can or cannot be accomplished. If Professor Vogel is right and his discovery is a genuine one, the vista it opens is almost infinite, and that, too, not only in an artis tic, but in a practical sense. The uses to which colour photography could be applied, if the art were perfected, are practically numberless. Illustration, for example, will become something wholly new and different, and the slow and tedious process of printing in colours will bo superseded by a method which successive improvements will render as casy and simple as printing in black and white. Then, too, the exact reproduction of tints and colours will have its uses in a great variety of ways in different arts and sciences. Colour is now the despair of the painter, whether he be artist or mere copy ist, but an exact reproduction of colour may
lead to new discoveries in the art of combilead to new discoveries in the art of combl
nation, and open new vistas to those who are concerned more with the material than with the artistic side of painting.--San Francisco Chronicle.
A'r the anniversary of the British Geological Society the retiring president, Sir Archibald Geikie, gave the annual address, which was devoted to a continuation of the subject treated of by him last year. He now dealt, according to Nalure, with the history of volcanic action in this country from the close of the Silurian period up to older Tertiary time. The remarkable volcanic outbursts that took place in the great lakes of the Lower Old Red Siandstone were first described. From different vents over central Scotland, piles of lava and tuff, much thicker than the height of Vesuvius, were accumulated, and their remains now form the most conspicuous hill-ranges of that district. It was shown how the subterranean activity gradually lossened and died out, with only a slight revival in the far north during the time of the Upper Old Red Sandstone, and how it broke out again with great vigour at the beginning of the Carboniferous period. Sir Archibald point ed out that the Carboniferous volcanoes belonged to two distinct types and two separate epochs of eruption. The earlier series produced extensive submarine lavasheet, the remains of which now rise as broad terraced plateanx over parts of the lowlands of Scotland. The later series manifested itself chiefly in the formation of numerous cones of ashes, like the puys of Auvergne, which were dotted over the lagoons and shallow seas in central Scotland, Derbyshire, Devonshire, and the south-west of Ireland. After a long quiescence, volcanic action once more reappeared in the Permian period ; and numerous small vents were opened in Fife and Ayrshire, and far to the south in Devonshire. With these eruptions the long record of Palazozoic volcanic activity closed. No trace has yet been discovered of any volcanic rocks inter calated among the Secondary formations of this country, so that the whole of the vast interval of the Mesozoic prriod was a prolonged time of quiescence at last when the soft clays and sands of the Lower Tertiary deposits of the south-east of England began to be laid down, a stupendous series of fissures was opened across the greater part of Scotland, the north of England, and the north of Ireland. Into these fissures lava rose, forming a notable system of parallel dykes. Along the great hollow from Antrim north wards between the outer Hebrides and the mainland of Scotland, the lava flowed out at the surface and formed the well-known basaltic plateaux of that
region. The address concluded with British volcanic bistory bearing on the in vestigation of the nature of volcanic action. Among these Sir Archibald laid special stress on the evidence for volcanic periods, during each of which there was a gradual change of the internal magma from a basi to an acid condition, and he pointed our how this cycle had been repeated again and again even within the same limited area of eruption. In conclusion, he dwelt on the segregation of minerals in large eruptive masses, and indicated the importance of this fact in the investigation, not only of the constitution and changes of the volcanic magma, but also of the ancient gneisses where what appear to be original structures have not yet been effaced.--Science.
Some trials with solidifed petroleum were made a few weeks ago at the works of the Solidified Petroleum Corporation at Hackney Wick, London, and they demon strated that a six horse-power tubular boiler containing eighty gallons of water could be heated by sixty-two pounds of the Chenhal fuel (or solidified oil), and in $36!$ minutes steam raised to indicate sixty pounds to the inch, while it took 106 pounds of conl and wood to raise steam sixty pounds in one
hour's time.-Engineering and Mininy Tournal.
Enterphising proprietors of large farms would do well to look into the subject of electric power to perform their farm work. Some interesting experiments have been made in this direction by the State Agri cultural and Mechanical College of Alabama, at Auburn, Ala., and the electric plant is now running successfully. The power is put to various uses, such as gin ning, pressing cotton, cutting up feed stuff thrashing grain, etc. This plant is the firs of its kind everestablished.-Electrical Age.

Hood's Saisaparila nbaomely curem all diseases caused by impur
builds up the whole system.

The noed for telegraphic and telophonic intercommunication between lighthouses, is so apparent as to require no argument The Government should take the matter up at once and provide a complete and serviceable system of communication.-Electrical Review.
Every Testimonial in behalf of Hood's Sarsaparilla is strictly true and will bear the closest investigation. No matter where it may be from, it is as reliable and worthy your confidences as if it came from your most respected neighbour. Have you ever tried this excellent medicine?
Fon a general family cathartic wo confidently recommend Hoor'm Pillw. They should be in every home medicine chest.
The Summer Death-Rate.--The great est evidence of the dangers of Cholera Morbus, Diarrbes, and Dysentery, is the increase in the death-rate of all the leading cities during the summer months. Mon and women can not be too careful of their habits of life during the heated term, and particular attention should be paid to the diat of children. A supply of Priky Davis' Pain Killer should always be at hand, for it is the only medicine that can be relied on at all times as safe, sure, and speedy. A teaspoonful will cure any ordinary case, but in severe attacks it is occasionally necessary to bathe the sufferer's stoman druggists have it for sale. 25 c . price per large bottle
c. c. Rehamos \& Co.

Gents,- -1 sprained my leg so badly that $I$ had to be driven home in at carriage. T immediately ap-
phied MINARD'S LINIMEAT fredy and in 48


Manganine is the name of a new alloy, consisting of coaper, nickel and manganese, which bas been brought into the narket by a German firm as a material of great resisting power, it having a specific resistance higher than that of nickeline, which has hitherto passed as the best resisting metal.

That Tired Feeling

Prevails with its most enervating and discouraging effect in spring and early summer, when the days grow warmer and the toning effect of the cold air is gone. Hood's Sarsaparilla speedily overcomes

"that tired feoling," whether caused by change of climate, season or life, by overwork or illness, and climate, season or life, by overwork or ilness, and
imparts a feeling of strength, comfort and selfconfidenco.
Editor Rowell Talks Common Sense.
"Every one living in our variable climate, partienlarly as we Americaus hive during the wint ment, especially fat meat, needs somothing eating meat. especially fat meat, needs somothing

## Free a Clogged Liver

in the spriag. Hood's Sarsaparilla completely fills the hill as a Spring Medicine. dfter taking two or ter, yes, even five hundred per cent. better. The brain is clearer, the body in better condition for work, sleep is sweeter, and the little troubles of life pass by unnoticed.'.-A. S. Rowelo, Editor

## Hood's <br> Sarsaparilla Cures

Where other preparations fail. Be sure to get
Hood's Sarsaparilha. It is Peculiar to Itself. Hood's Pills cure liver ills, constipation,
bilionnes, janndice, sick headache.

At the Royal Gardens in Edinburgh is a large insectivorous plant, of the genus Rori cula. The plant is a native of Trasmania. It is a branching bush, with filiform leaves, moro slender than those of Drosera, and, like the latter, furnished with glandular hairs with which it captures flies. The glandular hairs of the leaf of Drosera will not move on contact with inorganic matter but they will contract upon a minute piece of fresh meat in the space of twenty sec onds. The insects most abundantly cap tured by

Recent experiments hy Messrs. W. Thomson and F. Lewis on the action of metals on indiar rubber, according to Engineering, show that that of copper is the most deleterious. Platinum, palladium, aluminium, and lead act only very slightly, while magnesium, zinc, cadmium, cobalt nickel, iron, chromium, tin, arsenic, anti mony, bismuth, silver and gold have no ac tion whatever on this material. Of metallic salts, those of copper are very destructive, but nitrate of silver, manganese oxide, and several less common salts are equally so. The nitrates of iron, sodium, uranium, and ammonia have also a deleterious action, though less pronounced than in the case of
the salts previously mentioned.--Science.
Wuen the air around us becomes con-densed-shrinks into a smaller volume-it hecomes heavier, puts greater pressure on the surface of the mercury, and makes it, ascend in the tube; then the mercury is said to rise. Wben the air expands-aswells into a larger volume--it becomes lighter, the pressure on the mercury is less, the mercury sinks in the tube, and the barome-
ter is said to fall. Therefore every change of height of the quicksilver which we ob serve is a sign and measure of a change in the volume of air around us. Further, this change in volume tells no less upon the air inside our cases and cupboards. When the barometer falls, the air around expands into a larger volume, and the air inside the cuphoard also expands and forcess itself out, at every minute crevice. When the barometer rises again, the air inside the cupboard, as well as outside, condenses and shrinks, and air is forced back into the cupboard to equalize the pressure; and along with the air, in goes the dust. The smaller th crevice, the stronger the jet of air, the far ther goes the dirt. Witness the dirt-tracks so often seen in imperfectly framed engrav. ings or photographs. Remember, ladies and gentlemen, whenever you see the barometer rising, that an additional charge of dust is entering your cuphoards and drawers.-From Dust and Fresh Air, by T. Pridgin Teale, in the Popular Science Monthly for June.

Minards Liniment Cures Burns, etc.

