## SCIENTIFIC AND SANITAKY.

The idea of flower-farming for perfumes eems to be exciting a good deal of interest in New South Wales, as many enquiries on the subject have lately been submitted to the Agricultural Department. There areat present in the colony no means of illustrating the practical operations of this industry, but the Agricultucral Gazette of New try, hut the Agricultural Gazette of New
South Wales hopes that this deficiency will south Wales hopes that this deficiency will experimental plots on one or more of the experimental farms. The Gazelte points out that in scent farms large quantities of waste material from nurseries, gardens, orchards, and ordinary farms might be profitably utilized, while occupation would be found for some who are unfit for hard, manual labour. A Government perfume farm was lately established at Dunolly, in Victoria, and this promises to be remarkably successful.-Science.

Dr. J. Hann laid before the Academy of Sciences at Vienna, on May 5, says Nature, another of those elaborate investigations for which he is so well known, entitled "Further Researches into the Daity Oscillations of the Barometer." The first section of the work deals with a thorough analysis of the barometric oscillations on mountain summits and in valleys, for different seasons, for which he bas calculated the daily harmonic
constituents, and given a full description of constituents, and given a full description of
the phenomena, showing how the amplitude the phenomena, showing how the amplitude
of the single daily oscillation first decreases with increasing altitude, and then increases again with a higher elevation. The epochs of the phases are reversed at about 6,000 feet above sea-level as compared with those on the plains. The minimum on the sum-
mits occurs about 6 a.m., and in the valleys mits occurs about $6 \mathrm{a} . \mathrm{m}$., and in the valleys
between 3 and $4 \mathrm{p} . \mathrm{m}$. The double daily between 3 and 4 p.m. The double daily
oscillation shows, in relation to its amplitude on the summits, nearly the normal decrease, in proportion to the decreasing pressure, but the epochs of the phases exhibit a retardation on the summits, of as much as one or two hours. In the tropics, then endeavours to show that these modifications of the daily barometric range on mountain summits are generally explained by the differences of temperature in the lower strata of air. In connection with even the differences in the daily oscillations at Greenwich and Kew are mostly explained by the different attitudes of the two sta tions and by the fact that Greenwich is on an open hill. In the second section he has computed the harmonic constants for a large number of stations not contained in his former treatise of a similar nature, including Brazilian Telegraph Administration, and Brazilian Tolegraph Administration, and
others at various remote parts of the globe.Sethers at

## "August Flower"

For two years I suffered terribly with stomach trouble, and was for all that time under treatment by a physician. He finally, after trying everything, said stomach was about worn out, and that I would have to cease eating solid food for a time at least. I was so weak that I could not work. Finally on the recomnot work. Finally on the recom-
mendation of a friend who had used A worn-out with beneficial reStomach. bottle of August Flower, and commenced using it. It seemed to do me good at once. I gained in strength and flesh rapidly; my appetite became good, and I suffered no bad effects from what I ate. I feel now like a new man, and consider that August Flower has en-
tirely cured me of Dyspepsia in its tirely cured me of Dyspepsia in its
worst form: JAMES E. DEDERICR, Saugerties, New York.
W. B. Utsey, St. George's, S. C., writes:' I have used your August Flower for Dyspep
ezcellent remedy.

The British consul in Hainan, in his last report, says, according to Nature, that dur ing the past year he has made two journeys in that island, one to certain prominent hills near Hoihow, known as the "Hum mocks," which lie fifteen miles to the west on the road to Ch'eng-mai, the other a gun boat cruise to Hansui Bay. The people at both these places, and presumably all along the north-west coast, though believing them elves Chinese, speak a language which is not only not Chinese, but has a large per centage of the words exactly similar to Siamese, Shan, Laos, or Muong. The type of the people, too, is decidedly Shan, with out the typical Chinese almond eye. At one time (1,000 years ago) the Ai-lau or Nan-chau Empire of the Thai race extended from Yun-nan to the sea, and the modern Muongs of Tonquin, like the Shans of the K wangsi province, the ancestors of both of which tribes belonged to that empire, probably sent colonies over to Haiuan ; or the Chinese generals may have sent prisoners of war over. It is certain that some, at least, of the unlettered, but by no means uncivilzed, tribes in the central parts of Hainan speak a type of language which is totally different from that spoken by the Shan speaking tribes of the north-west coast. Yet the Chinese indiscriminately call all the non-Chinese Hainan dialects the Li language. The subject, Mr. Parker says, is guage of great intereat, well worth the attention of travellers. It was his intention to pursue the enquiry when making a comnercial tour of inspection round the island, but his transfer to another post compels him to abandon his acheme.-Science.
The latest researches of the Finnish expedition to the Kola Peninsula will modify, as we learn from Nature, the position of the line which now represents on our maps the northern limits of tree-vege tation in that part of Northern Europe. The northern limit of coniferous forests fol lows a sinuous line which crosses the peninula from the north-west to the south-east. But it now appears that birch penetrates much farther north than the coniferous trees, and that birch forests or groves may be considored as constituting a separate outer zone which fringes the former. The northern limits of birch groves are represented by a very broken line, as they penetrate most of the valleys, almost down to trate most of the valleys, almost down to
the sea-shore ; so that the tundras not only occupy but a narrow space along the sea coast, but they are also broken by the exten sions of birch forests down the valleys. As to the tundras which have been shown of late in the interior of the peninsula, and have been marked on Drude's map in Berg ham's atlas, the Finnish explorers reuark that the treeless spaces on the Ponoi aro not tundras but extensive marshes, the vegetation of which belongs to the forest region. The Arctic or tundra vegetation is thus limited to a narrow and irregular zone along the coast, and to a few elevated points in the interior of the peninsula, like the Khibin tundras, or the Luyavrurt ( 1,120 Khibin tundras, or the Luyavrurt $(1,120$
metres high). The conifer forests, whose metres high). The conifer forests, whose
northern limit offers much fewer sinuosities northern limit offers much fewer sinuosities
than the northern limit of birch growths, than the northern limit of birch growths,
consist of fir and Scotch fir ; sometimes the former and sometimes the latter extending up to the northern border of the coniferous zone.
In the structure of his teeth and the organs of digestion, man more closely resembles his nearer relatives of the ape and monkey tribe, who are vegetarians, than he does his more distant relations, the carni vora. Yet there are differences of struc ture which clearly separate him from the former as well as the latter class, and which justify us in ranking him as omnivorous, and adaptable in bis dietatic habits to varying conditions of climatic and social environment. If any argument is needed for further scientific rebuttal of the ex freme vegetarian view, it may be found in the universal experience of the race. The further back we go in human history, the nearer we approach, apparently, not a con dition of pure vegetarianism, but on the contrary a more general and universal use of animal food. Men were hunters and fishermen before they adopted a pastoral or agricultural life, living almost exclusively upon the products of the chase and the re sources of the sea. In the ancient " kitchen middens" of Europe and America, mingled with the shells and bones of fish, we find animal, and sometimes even human, bones,
reveal the uses to which they were put And if we assume before this stage of
human evolution a social or unsocial state, human evolution a social or unsocial state,
when men lived exclusively on the pro ducts of the soil, an assumption which ha no warrant in the accessible testimony of archeology or history, we must imagine the condition of man then to bave been similar to that of the digger Indian or certain of the hill tribes of Hindustan, who rank among the lowest extant specimens of the humai race. Looking at this question from the climatic standpoint, we find in the tropica regions a predominance, but not an ex clusive prevalence, of the vegetarian habit, while in the Arctic regions the native races resort almost entirely to the use of animal food. In neither of these regions do we find the human race in its highest perfec tion. Civilization received its primary im pulse and has achieved its most notable suc cesses in the temperate zone, and among races which are neither exclusively vegeta rian nor exclusively carnivorous in their habits. The modern American and Euro pean, as is well known, is a descendant o one or more branches of the ancient Aryan or Indo European stock. It so happens that one branch of this stock which early separated from its European cousins and travelled southward to people the mountains and plains of India, through stress of climatic and religious influences, became as nearly exclusively vegetarian in its habits as any large section of the human race has ever been, and has remained so for centu ries. Here, then, is an opportunity for comparison. The effect of the vegetarian habit, superadded to climatic conditions, has been to develop a race notable indeed for some of its intellectual traits, but in ferior in size, lacking in physical stamina and energy of character, whose millions of people easily fell a prey first to the Moham medan and afterward to the English, whose commercial enterprise for centuries has proved inferior to that of the saall competing race of the Parsees-their nearer blood relations-and which has shown itself lacking in those essential traits which charactorize our modern, progressive civil ization. The great and successful men of all ages have been those who have not departed too widely from the mixed diet which has long constituted the habit of the race which have peopled the temperate region of the earth.-Lewis (7. James, M. D., in Food for July.
No Other Sarsaparilla has the merit by which Hood's Sarsaparilla has won such a firm hold upon the contidence of the people
The Todas, inhabiting the Nilgiri plateau, says Nature, are not dying out grad ually, as has long been supposed. The last census figures show that thoy have increased by no less than 10 par cent. during the last ten years, there being now nearly The Testimonials published in behalf of Hood's Sarsaparilla are not extravagan are not " written up," nor are they from its employees. They are facts, and prove that Hood's Sarsaparilla possesses absolute merit and is worthy the full confidence of the and is worte.
peoon's Pills are purely vegetable, per Hood's Pills are purely vegetable, per
fectly harmless, effective, but do not cause pain or gripe. Be sure to get Hood's.
c. C. Richariss \& Co.

Gents,- I have ngel your MiNariss liviMENT, in my fanily for fome years and believe it recommended to do.
Canan Forks, N. $\qquad$ Daniel Kienstraio.

John Mader, Malone Bay, informs us that he was cured of a very severe attack of rheunatism by using
MINARD'S LINIMENT.

Beware of Green Fruit.--Now that the heated term is approaching, people should pay particular attention to their diet, above all things a voiding unripe fruit and stale vegetables, which invariably bring on Cramps, Cholera Morbus, or Diarrhœa. Children are particularly subject to complaints of this kind, and no mother can feel safe without having a bottle of Perry Davis' Pain Killer within easy reach. It is a safe, sure, and speedy cure for the disorders named, and no family medicine chest is complete without it. Ask for the Big 250, bottle.

and varions hospitals the doctors discharged him as in

## hoalth since, until he beran to tak <br> Hood's Sarsaparilla

## Immediately his congh grew lonser, night sweats

 ceased, and he regained good general haalth. Hecordially recommenis Hood's Sarsaparilla, especially cordially recommends Hood's Sarsaparilla, especially to comrades in the $\mathbf{d}$. A. R.

For the Blood.
"Having tried Hood's Sarsaparilla I wish to state
that l have found it exellent. I have nsed about 4
bottles and bave proved the virtue of tit for the blood bottlea and have proved the virtue of it for the blood
and appetite. I have found no ernal to it and cheer


Hood's Pills curc Habitual Constipation by
Some trials with solidified petroleum were made a few weeks ago at the works of the Solidified Petroleum Corporation at Hackney Wick, London, and they demonstrated that a 6 horse power tubular boile containing eighty gallons of water could be heated by 62 lbs . of the chenhall fuel (or soliditied oil), and in 364 minutes steam raised to indicate 60 lbs . to the inch, while it took 106 lbs of coal and wood to raise steam to 60 lbs . in one hour's time.--Scientific American.
At the meeting of the Field Naturalista' Club of Victoria on March 14, as we learn from Nature, Professor Baldwin Spencer, the president, gave an interesting account of a trip he had made to Queensland in search of Ceratodus. Special interest attaches to this form, since it is the Australian representative of a swall group of animals (the Dipnoi) which is intermediate between the fishes and the amphibia. Ceratodus has its home in the Mary and Burnett Rivers in Queensland, whilst its ally, Lepidosiren, is found in the Amazon, and another relative, Protopterus, flourishes in the waters of tropical Africa. Although unsuccessful in obtaining the eggs of Ceratodus, owing to the early season, Professor Spencer was able, from a careful study of the surroundings under which the animal lives, to infor that its lung is of as great a service to it during the wet as during the dry seasona theory in direct opposition to the generally accepted one that the lung functions principally during the dry season, when the animal is inhabitiug a mud cocoon within the dry bed of the river.--Science.

In a recont number of the Journal of the Straits Branch of the Royal Asiatic Society there is an interesting note on the little insectivorn, T'upaia javanensis. It is very common in Singapore, and especially in the Botanic Gardens, where it may be often seen running about among the trees. It is easily mistaken for the common little squirrel (Sciurus hippurus), of which it has much the appearance. When
alarmed it quickly darts up the trunk of alarmed it quickly darts up the trunk of
the nearest tree, but it is a poor climber, and never seems to go high up, like the aquirrel. Besides these points of resemblance, it appears to be largely frugivorous. It was found that the seeds sown in boxes were constantly being dug up and devoured by some animal, and traps baited with pieces of cocoa-nut or banana were set, and a
number of tupaias were caught. These being put into a cage appear to live very comfortably upon bananas, pine-apples, rice, and other such things ; refusing meat. The Rev. T. G. Wood, in his "Natural History," states that T. Ferruginea is said to feed on beetles, but to vary its diet with certain fruits. The comanon species at Singapore seems to be almost entirely frugivorous, though its teeth are those of a typical insectivora.-Science.

