

It looks so antediluvian, as if the deluge had swept it off the top of the mountain towering over head and the houses had been arrested halfway down the incline. I doubt whether a house has been built within the memory of the oldest inhabitants. The juveniles of the place are the most pestiferous little beggars who ever dogged a tourist's heels! The sturdiest shouted: "donnez moi un sou." ("Give me a sou.") while from the throats of all burst the prolonged chorus: "Un sou -- un sou."

The next day also we camped out. The scene of our improvised pic-nic was on the slope of Cape Martin, looking towards Monaco and Monte Carlo. The time-honoured plaid beneath us and the blue sky above us, while immediately below us was the Mediterranean mirroring the colours of the sky and mountains. What enjoyment we had! I had my Italian Grammar, Maggie had her embroidery; but oft our thoughts and talk wandered away beyond the Atlantic, as we vainly wished that we had you and other loved ones beside us to share in our rapt admiration of Nature as she here delights to clothe herself.

SCIENTIFIC JOTTINGS.

DR. WALLACE, gas examiner for the city of Glasgow, has been making experiments upon the heating powers of different samples of gas. He says: "The extensive employment of coal gas for heating purposes, and especially for cooking, gives an interest to the question whether the heating power varies like the illuminating power, and if so, to what extent, in the gas used in different towns? As regards illuminating power, we know that it varies exceedingly. In Aberdeen and Edinburgh it is 30 candles for 5 cubic feet per hour; in Glasgow, Paisley, and Greenock, about 20 or 27 candles; in Liverpool, Manchester, and Carlisle about 20; in London and Dublin, 16; in Birmingham and many other English towns, 14; and in some as low as 12 candles. But as regards heating power we have no definite information, although there is a general belief that a rich gas has a greater calorific effect than one of poorer photogenic quality."

He then goes on to describe the apparatus employed. He determined the relative heating power of each gas by measuring the volume of gas consumed in order to raise one gallon of water from 60 degrees to 100, of Fahrenheit's thermometer, in thirty minutes.

The following table gives his results for three different gases:

The first column gives the illuminating power of the gas in standard candles; the second, the comparative value of the gas for lighting purposes; and the last its comparative value for heating purposes--

33.07	- -	48 10d	- -	48 5d
26.24	- -	3 10	- -	3 10
14.75	- -	2 2	- -	2 11½

From those results he very naturally concludes that "while the heating power rises and falls with the lighting power, the amount of difference is by no means so great in the former as in the latter," i.e. the difference between the heating powers of two samples of gas is not as great as the difference between their illuminating powers.

He next raises the question as to the comparative cost of heating by gas and by coal; and by an easy calculation arrives at the conclusion that gas costs for heating purposes about 11½ times as much as the equivalent quantity of coal, or "in round numbers, a pennyworth of coal gives as much heat as a shilling's worth of gas."

E. Cherreul has been studying the physical functions of the leaves of plants. His conclusions are:--That the

transpiration by both surfaces of the leaf is greater in the sunshine than in the shade. With the exception of the oleander and the maize plant, which exhibit in this respect an anomaly, it appears that in the numerous species experimented upon if the transpiration of the upper side of the leaf be represented by unity, that of the reverse equals 4.3. In the shade, however, the proportions are as 1:2.4. The leaves of the maize, the chestnut, and the periwinkle transpire equally on both surfaces.

It has been already demonstrated that plants absorb solutions of salts necessary for their growth, not merely by the leaves, but even by the petals of their flowers.

COLLEGE WORLD.

THE Governor-General has presented to the Wesleyan Female College, Hamilton, Ont., a medal for the most proficient student in English Literature.

THERE is a cat attending College at present.--*Whitby College Sunbeam.* The cat-o'-nine-tails, we presume; if not, it should be.

THE following is the method by which the young ladies of Ashland, Va., get rid of their student lovers of Randolph Macon College, when they stay too late. A youthful brother goes out in the back yard, at the old gentleman's command, and there keeps up an incessant crowing till the young gents are impressed that their call is too protracted, and to the joy of the girls bid them good night.

JAMES DEMILLE, Professor of Rhetoric and History in Dalhousie College, is dead.

AN Iowa young lady has won the distinction of being one of the first ladies admitted to the University of Leipzig.--*Ex.* So much honor for Iowa, but would it not be sad if the young lady had to lie-up-sick there, so far from home and friends? --*Ex.*

THE Sophomores of Columbia College presented with a baby cup Mr. John Spencer, the father of '82's first baby boy.

RUSSIA has only nine Colleges.

MRS. SCOTT SIDDONS offended the faculty of Asbury University by reading with a low-necked dress on, and she was not a little startled to hear a prayer for her conversion called for in the prayer-meeting the next day. The Asbury folks deserve credit for the rebuke, and would have deserved still more by preventing the reading. If it be impolite for gentlemen to appear in the presence of ladies in their shirt-sleeves, or with their coats off, is it not much more improper, if not shockingly immodest, for ladies to appear in the presence of gentlemen scantily clad? The rebuke given Mrs. Siddons is going the rounds of the papers, and will, it is to be hoped, have a beneficial effect on ladies possessed of more brass than modesty.--*Ex.*

THERE are 1,256 students at the Toronto night schools.

AN Association for the study of the Natural Sciences has been formed in connection with University College, Toronto. Graduates and under-graduates who are taking the honor course in Natural Science are eligible for membership.

THE *White and Blue* suggests to the out-going class that they arrange for a re-union 10 year's hence. The idea is a very happy one.

THIS is how they do it: A Yale student bought up 270 tickets for the Glee Club concert on spec.

THERE is a good plan in vogue in some colleges of handing back to the student at the beginning of a session the