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#### SCIENCE.

UTILISING SMOKE FROM WOOD,furnace in which are manufactured | Some water springs in the vicinity | a fundamental knowledge of what it fifty tons of charcoal iron per day. have changed from fresh to salt. is necessary to do in getting up a There are twenty-five charcoal pits, was formerly lost in the air, has price for. now been utilized by Dr. Pierce, a chemist. Chemical works have been erected, which are thus described :- First, they have a circular tube made of wood, with pine staves 16 feet in length, bound together with heavy iron hoops. This tube is placed directly over the pits in a horizontal position, with an opening from each pit into the tube. At the end nearest the building there is a large drum containing a rotary fan propelled by machinery, the power of which is gas. That acts as a suction or draft for the smoke, which is conveyed into five stills regions. filled with copper pipe 21 inches in diameter. The boxes in which the pipes are situated are 20 feet square, 8 feet deep, made of heavy pine, and filled with cold water; these are all connected by copper pipes; they are connected with the main still, 100 feet in length, 10 feet wide, 8 feet deep, filled with copper pipes 21 inches in diameter, in a cold water, from this it is conveyed to farm or step aside and lose his claim. and four gallons of water. purifier, from which runs what is called pyroligreous acid, which is as clear as amber, with an unpleasant odor. From the acid is produced: -First, acetate lime; second, alchol; third, tar; the fourth part produces gas, which is consumed under the boilers. Each cord of wood contains 28,000 cubic feet of smoke; 2,800,000 feet of smoke handled every twenty-four hours, producing 12,000 pounds acetate of lime, 200 gallons alchol, 25 pounds tar. ton Courier.

have had the pleasure of a rather circumstances. extended interview with a patient | Most boys imbibe the idea that whose larynx and epiglottis Profes- cooking is a woman's occupation, sor Gussenbaeur removed over a and the man who attempts it is you here now, eh?" The police, sir!" year ago. Six weeks after the belittling himself with "woman's operation he began to wear part work." Now I do not understand of the artificial larynx, and after why woman's work should be any accustoming himself to this, he more belittling for a man than a duce and use the reed which takes the fact is patent that women are afternoon, that he determined never to the place of the vocal cords. This rapidly preparing for and serving do it again. apparatus was made for him by many positions which have been Rothe, who has also done some considered the especial property of work for the Reese Hospital. The men. These women do not belittle patient is a riding teacher, is reputed | themselves by doing this, in our the best rider in Prague, is busy opinion; and if they do not, we from morning to night, taking all certainly shall not be relaxing from day, and suffers not the slightest our masculine dignity in learning inconvenience or pain. His voice is, how to perform one of the most imof course, very monotonous, but his portant branches of labor necessary enunciation is excellent, his speech to the welfare of mankind. To perfectly intelligible, and he eats know how to cook, and cook well, is and drinks with perfect facility. to have an accomplishment to be Three intralaryngeal operations had proud of. At the West, where so been previously made, before Guss- many phases of society are lacking enbauer attempted his feat. This in the feminine element, the man case is said to be the best living who can cook, can command almost example of what the art of the sur- any price for his labor. In the geon and the mcchanician can accom- mines, the pineries, and on the adplish for such a terrible disease vance-posts of civilzation, the cook as cancer of the larynx.

An extensive deposit of bismuth sway he maintains over men's in the form of metal and oxide has been discovered in the north-east of New South Wales. Hitherto the bismuth of commerce has chiefly been derived as a bye product in to learn to cook as it is to stand gladly accepted, and a considerable sum the treatment of zinc, cobalt, and behind the counter and measure off silver ores, and has commanded a price quite out of proportion to the wherein the advantage of such cost of production. From the new knowledge may be turned to good mine, the Journal of the Society of account in many ways. Get them Chemical Industry says, the metal interested in the science,—for good can be sent into the market at a cost which, if the present price-6s. 8d. per 1b.—were maintained, Stimulate a healthy rivalry between the "trap" a mousetrap! would insure a profit of more than the boys and girls in the acquire-£500 per ton.

7 feet above the ordinary level, and learned, or acquired, that no one has At Elk Rapids, Michigan, is a blast a farmhouse has risen ten feet. an excuse for being without at least

constructed of brick. Each pit is ago are, it is said now being con- who knows nothing about cooking filled with 100 cords of hard wood verted into paint; they make very when left to his own resources in and then fired. The vast amount superior burnt sienna, which London this direction. Of all helpless perof smoke from these pits, which painters are willing to pay a good sons, he is the most helpless. Teach

> By thrusting the ends of green Housekeeper. scrub wood-" mallec scrub"-in the fire, and catching the sap driven out at the other end in a bark trough, an Australian supplied himself with water and saved his life while crossing in a waterless region. from lice. He says that a dozen mallec sticks, 4 feet long, and 2 or 3 inches in diameter, would give a pint of bush rangers and travellers in arid vative.

farms is used in Switzerland. A foot. farmer may borrow of a dozen men successively, the simple record in an of eight-inch wall when laid. official book showing their order. If he fails to pay, a successor is one teaspoonful to four gallons of found for him by beginning at the water will cause a precipitation of bottom of the list of debtors, and its impurities. calling on each in his order to ashorizontal position, surrounded with sume all the debts and manage the pounds of hay, six quarts of oats,

> The Science Congress, Montreal, of hay and six gallons of water. was attended by over 900 people. The papers read, or held as read, were numerous, varied, and many of them of great value. Over 300 new members were enrolled .- In 1884 the British Association is to meet at Montreal.

### THE HOUSE.

TEACHING BOYS TO COOK .- If girls These articles have a commercial are to be taught how to drive horses value in the manufacturing of various | and manage the reaper or the mowarticles. The alchol has been con- er, and fill many other places on tracted toa firm in Buffalo, New the farm, heretofore given over to York, for five years, they furnishing the boys, it is only fair and proper, the packages and receiving it at the and, it seems to me very sensible, works at 80 cents per gallon. The that boys should te taught to cook. smoke from 40,000 cords of wood It is often convenient for a man consumed per annum is thus made to know how to prepare a meal. a source of much profit, as the If he can do it well, he is in a measworks are nearly automatic. - Bos. | ure independent of female help. If he can turn his domestic knowledge ly." A MARVEL OF SURGERY .- Dr. Ros- to account, and there is not a comwell Park writes from Prague to | plete stagnation of household affairs, the British Medical Journal: - "I as is usually the case under similar

> is one of the most important persons, and he rules the camp by the

stomachs. with the girls. Instill the idea into bazaar received an offer from Manchestheir minds that it is just as manly ter of a horse and trap. The offer was silks and ribbons. Show them cookery is a science—and they will not find the work a distasteful one. the "horse" was a clothes horse, and ment of the knowledge.

I hold to the belief that every An extraordinary geological phe- man should be able to take care of nomenon is reported from Branx- himself if necessary. If he can not mony in English and German, the bride

the creek and then were suddenly dent man he should be. The knack arrested. Large trees were raised of cooking and sewing is so easily Egyptians who died 2,000 years simple meal. I always pity the man the boys to cook, and these helpless men will die out in a generation .-

> It is said by a poultry raiser that a few sprigs of cedar mixed with hay or other material for hen's nests will keep the fowls entirely free

Mix a little carbonate of soda with the water in which flowers water in an hour, and suggests that are immersed, and it will preserve the same device may possibly be them for a fortnight. Common saltfound of vital importance to other petre is also a very good preser-

THINGS WORTH REMEMBERING -A peculiar system of mortgaging Twenty common bricks to a cubic

Fifteen common bricks to a foot

Powdered alum will purify water;

Horses require per day fifteen

Beeves require eighteen pounds Dull files laid in sulphuric acid

will become sharp. Coal-tar mixed with a little turpentine makes good and cheap paint for iron-work.

BORAX IN THE TOILET .- Keep a cup of powdered borax on your washstand; it will do wonders in the way of softening the skin. If you have been working in the garden or doing things about the house which have tended to make your hands rough, when you wash them, dip your fingers in the borax, and rub your hands well with

To PRESERVE EGGS .- " Place the eggs in a cabbage net, and dip them in a saucepan of boiling water for eight or ten seconds. For all culinary purthe wife falls sick, or girl goes away poses they will keep almost indefinite-

## VARIETIES.

"Prisoner, this is the third time this year that you have appeared before this court. What has brought

Archbishop Whately was one day asked if he rose early. He replied that once he did: but he was so proud gradually learned how to intro- man's work is for a woman: and all the morning, and so sleepy all the

> A TWO-FOOT RULE.-Keep your feet dry.

"Do you think, Mary, you could leave father and mother, and this pleasant home, with all its ease and comfort, and go to the Far West with a young lawyer who has but little besides his profession to depend upon, and with him search out a new home which it would be your joint duty to beautify, and make delightful and happy like this?"

Dropping her head softly on his shoulder, she whispered: "I think I could, Archie."

"Well," said he, "there's Tom Jones, who's going West, and wants to get a wife. I'll mention it to him."

A stupid joke is reported from Shef-I would teach boys to cook, along field. The promoters of a Wesleyan was anticipated as the result of this somewhat novel contribution. One of the members of the committee, who had been previously advised by telegram, went to the railway station to take charge of the present, which was really what it professed to be, only that

It isn't often that a couple is married in three languages, but at a wedding in Cleveland, O., one day last week, the justice performed the cereholm, near Hamilton, Victoria, where cook his own food, nor fashion his responded in Bohemian, and the groom own clothes, he is not the indepen answered in German.



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Being compounded of the concentrated virtues of purely vegetable substances, they are positively free from calomel or any injurious properties, and can be admin-istered to children with perfect safety.

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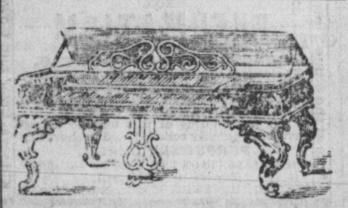
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