

SCIENTIFIC IDEAS

By Helmholtz on the Origin of Music, by Helmholtz on the Weight of the Human Brain, By Siemens on the By-Products of Coal-Burning, and by Cohn on What the Cell Can Do.

The Popular Science Monthly, one of the noblest publications of our era and one that would find its way into every household, we make the following extracts. They will no doubt interest our readers, only we regret that for the fuller measure of profound inquiry and reflection which the magazine is full of, we must refer to the original.

What the Cell Can Do. BY PROF. FERDINAND COHN. Water, earth, salts and the gases—the raw materials of which the plants are made—changed within the cells into starch and sugar, gum and woody fiber, albumen and casein, and resin, and the medicines which are made from them.

FOR AND ABOUT WOMEN. J. G. Brown, a Philadelphia artist, in painting "a young girl with a very sweet face," was struck by the beauty of the girl's face, and he has made the work of the cells in the middle of the forehead of Christ's face, which is covered with a network of fine, raised in coiled lines, along with a hundred other splendid pigments, out of tar and sandstone, and is not one of the things which work away from the indigo plant into the raw material of the cell.

THE BY-PRODUCTS OF COAL-BURNING. BY C. WILLIAMS SIMMONS, F. R. S. In using raw coal for heating purposes, these valuable products are usually lost, but in their stead we are saved with those of the coal which are in the atmosphere low and large to the demand of London and other large towns.

A Heavy Brain. BY DR. J. P. M. BOLLEAU. The chief interest in this case lies in the great weight of the brain, and its high specific gravity, in relation to the high intellectual power exhibited by the individual during his life.

THE ORIGIN OF MUSIC. In the theory of Helmholtz, music expresses the different dispositions of the soul or initiating the characteristic particularities of movement in space, and by thus translating the forces and motions of the soul into sound, while he admits that it may have been at first only an imitation of the instinctive modulation of the voice corresponding with the different states of the mind, he does not consider this fact contradictory to the definition for the natural processes of vocal expression as capable of being subjected to the same elements.

THE BEAUTIFUL LAND OF NOD. One ends you read on your shoulder, dear, and you will go walking away from me, and you will go walking away from me, and you will go walking away from me, and you will go walking away from me.

JACQUES NAUDI.

The Belgian Lightning-Calculator, Who Deals with Figures After the Most Miraculous Fashion, And Who is Said to be a Spirit Medium, Just as Elias Tom, the Negro Pianist, Is.

A recent Belgian paper relates marvels of a young lightning calculator, a youth named Jacques Naudi, who has been reported to be a lightning calculator, a youth named Jacques Naudi, who has been reported to be a lightning calculator.

IF I DIE FIRST. I die first, dear love, I die first, dear love.

FOREIGN PERSONS. Jelenka, Sullivan & Gilbert's new opera, will be produced to-morrow at the Savoy.

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