

We may gauge how far man will go by how far he has ascended from primeval time to the present. That man, and particularly the brain of man, is improving, is shown by everything on this earth except those things, such as forests, earth, ocean, and life forms, which were here before he arrived. Every other thing from a shoe string to an ocean steamship is the product of man's brain.

And what causes the brain of man to produce such wonders. The answer must be energy.

This is proven by the law that all matter is energy in process, and that any form of energy is convertible into any other form of energy.

Matter, light, heat, motion, electricity and chemical change are all forms of energy. To show how one can be changed into the other, take, for example, light and electricity. It is now known beyond doubt that the electrons from the sun bombarding the rarified gases above the magnetic pole, produce the Aurora Borealis. In fact, a replica of this phenomena can be produced in an ordinary test tube by sending electricity through a partial vacuum. To quote a plainer example, the sunlight causes trees to grow; the trees are buried beneath the earth and changed into coal. Coal is changed into motion in the form of a dynamo which supplies an electric light. This is an example that anyone can prove to his own satisfaction. To show that heat can be resolved into motion, all one has to do is to look at a locomotive. To prove that motion can be transformed into heat, you have only to strike a match. For a more penetrating proof of this law, rub your knuckle briskly along a board. The electric foot warmer shows very clearly how electricity can be changed into heat, and almost every cooking utensil nowadays can be run by electricity. We have the electric toaster which singes bread, and we have the electric furnace which melts steel and carbon.

Admitting these easily proven laws, we must also admit that energy is everything. Perhaps its source can be found in the seething carbon of the sun, but we have here only to deal with its presence in earthly affairs, and to make use of it when and wherever it can be harnessed.

The thoroughbred horse, from time immemorial, has been noted for his energy. It is the one quality in this breed of horse which transcends any other quality. Where the thoroughbred got this tremendous energy is not so important to you men engaged in Bureau work, as the fact that he has this energy and is lavish in the