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TODAY'S WEATHER PREDICTION.

- * Light frost tonight. Fair and warm tomorrow.
- * A rare and salubrious climate—soil of remarkable fertility—
- * beautiful scenery—mountains stored with coal, copper and gold—
- * extensive forests—streams stocked with speckled beauties—game in
- * abundance—a contented, progressive people—such is the Rogue
- * River Valley.
- * Average mean temperature.....55 degrees
- * Average yearly precipitation.....21 inches

WHY GIRLS GO WRONG.

There has been a shocking exposure of immorality among the very young of both sexes at Jacksonville this week. Before the juvenile court, presided over by Judge Neil, girls in their early teens have shamelessly admitted their depravity, implicating their youthful companions. As a result, there have been hasty weddings of those too young to face the responsibilities of marriage, an exodus of guilty youths to escape prosecution and the consignment of girls to the corrective influence of aid societies.

This immorality among these children blossoming into maturity is not confined to one section of the county, but has existed in several localities. The community is not to blame—but the home influences are.

Why do girls and boys go wrong?

Because of neglect by parents, because of insufficient home training, because of a failure to instil virtue in youthful minds. Because mothers do not properly teach their daughters, and fathers their sons, the responsibilities of life, and budding passions and animal instincts are left to develop unchecked and unbridled, leaving shame and ruin in their path—because the victim knew not what they were doing.

Heredity, education and environment shape human destinies. We are what we are because of them. Occasionally an inherited taint blights the budding blossom—despite training and knowledge—which are wasted on the wanton. But usually the education and environment are at fault. The majority are not born vicious—but acquire it through laxity of those entrusted by nature with the responsibility of the rising generation.

Youth is ever ignorant and thoughtless. If neglected, evil influences are apt to prevail. As humanity has learned self-control, so has civilization—and civilization is but its progress in the average individual. Self-control in the evolution of the race has brought us from the animals, and lacking it, we descend to the animal plane very rapidly.

Mothers cannot watch their daughters too carefully during the formation and impressionable years, nor fathers their sons, for the lure of the flesh pots spells the wreckage of human life, and the gilded apples of pleasure, so fair in the distance to the gaze of the young, are embittered with the poison of the damned.

SOMETHING ABOUT MAGNETISM.

To fully understand electrical machinery it is necessary to know a little something about magnets and their relation to electric currents.

Every child, almost, has played with a permanent magnet, which is nothing more than a piece of steel, shaped like a horseshoe, which has been given the property of magnetism either by rubbing it on another magnet or by surrounding it with a coil of wire carrying an electric current. When hard steel is magnetised it retains a large portion of its magnetism indefinitely and is then known as a permanent magnet. Soft iron can also be magnetised very powerfully in the same way, but when the exciting cause has been removed the magnetism vanishes. The hardening of the iron seems to give the molecules of the metal the power to retain the magnetism, but why this is so no one can answer.

But the permanent and electro-magnets behave alike in all respects. Both will attract and hold iron or steel. Both have two points where the magnetism seems concen-

trated and which are called the poles." Every magnet has two poles and no more. Suspend a magnet so it can turn freely and the north pole will always point north and the south pole will point south. Neither can exist without the other, every magnet having a north and south pole, which are of equal power.

The precise nature of magnetism is not known. To make it easy for the layman to understand the conception originated by Faraday is generally employed. Considering it in this way a magnet may be said to pour out a sort of an invisible and powerful fluid or effluvia from its poles. This magnetic force seems to come out of the north pole in ordinary magnets flow in a circular route, it has been shown by experiments that they are always trying to become straight lines. These lines of force do not travel through the air very easily, but iron and steel form an easy path for them. Therefore they will pass through iron or steel in preference to the air.

The attraction or "pull" of a magnet when it draws a piece of iron or steel is caused by the efforts of these lines of force in trying to shorten themselves. To make a magnet of a piece of iron all that is necessary is to make lines of magnetic force pass through it. When a current of electricity is flowing along a wire the lines of magnetic force circle about the wire. If this wire was insulated and wound many times around a bar of soft iron the lines of magnetic force would penetrate the iron and make it a powerful magnet.

Not only can a current of electricity in motion cause magnetism, but the process can be easily reversed. Placing the magnetism in motion will cause electrical pressure in the insulated wire and result in a flow of current if a properly connected circuit exists. If a wire is moved so as to cut across the magnet lines of force, a perfectly definite electrical pressure will be set up, depending upon the velocity of the movement, the length of the wire and the strength of the magnetic field. If the ends of the wire are not connected no current will flow; if they are connected current will flow and the movement of the wire will be resisted in proportion to this amount.

This, in plain English, is the secret of the electric generator. To obtain an electric current from magnetism all that is needed is some mechanical contrivance by which a good conductor can be moved in a magnetic field with arrangements for making contact with and withdrawing the current. Such a machine is called an electric generator. And it was this simple discovery which laid the foundation for all the applications of electricity to lighting, heating, and power purposes so familiar in this day and age.

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