PHENOMENA IN NATURE.

Newton's Laws of Motion May Be Upset.
While Much That Passes for Eternal
Truth Is Under suspletion—Cause of
Gravity Beyond Human (onception.

Recently we have discussed in these
columns recondite problems of physical science. To say that these things
are beyond the purview of engineers is
to limit the scope of the profession.
The business of the engineer is to utilize what has been termed, popularly
if not accurately, the forces of nature,
for the benefit of mankind. To, the
physicist the world is indebted for the
discovery of new phenomena and novel
relations existing between old and new
natural actions and interactions. It
is impossible, however, to draw a narrow line and say that the province of
the engineer lies on one side and the
territory of the man of pure science
on the other. Thus the discovery of
the phenomena of electrical induction
was mainly the work of Faraday; but
the construction of dynamos, which
utilize that discovery, is the daily work
of the engineer. Reasoning in this
way, it easily becomes obvious that
the engineer is really deeply interested
in the whole course of modern scientific
research; and speculations as to the
constitution of matter and the nature
of energy are by no means to be regarded as of necessity abstractions,
possessing no real value sufficient to
make them worth studying. No one
can tell from day to day whether or
not some extremely valuable discovery
will be made. There is reason, indeed,
to believe that co-relations of phenonena may at any moment be hit on
which will reduce the telegraph to the
level of a conspicuously clumsy piece
of apparatus, or bring down the cost
of electric lighting to a tenth of its
existing price. When hertzian waves
were first spoken of no one dreamed
that they would enable us to transmit,
messages through long distances with
out visible means of communication.
The telephone was built up out of
most unlikely materials; and the man
who asserted that he could make an
iron plate talk to an audience by the
aid of three French nails, a sm

who asserted that he are suit and of three Freuch nails, a small base into pilot talk to a could make as into pilot talk to a could make as into pilot they are they and to the progress of thought of the more advanced seeks were under the make of more advanced to the british association, which we have understood it. Dr. Larmor has evidently failed to make the English language express clearly what he wanted to say, nor are we surprised. It is a hackneyed saying that "words the wanted to say, nor are we surprised." It is a hackneyed saying that "words the wanted to say, nor are we surprised. It is a hackneyed saying that "words the wanted to say, nor are we surprised." It is a hackneyed saying that "words the wanted to say, nor are we surprised. It is a hackneyed saying that "words the wanted to say, nor and the wanted to say, nor are we surprised." It is a hackneyed saying that "words are no longer substitutions are no longer substitutions, and the substit

derstood that what we term magnetice attraction can be expressed in terms of lines of force; and, what is of all things important, that attraction is due not to anything done by the magnet per se, but to some external form of energy which is localized and directed by the magnet. But what this form of energy is, or how the magnet works, no one, as we have said, knows.—London Engineer.

MANNE'S KING GUMPICKER.

He Lends a Louely Life, but Makes a Good Income.

Good Income.

Ezra Robar, the king gumpicker of Maine, has camped all winter on Porgie Brook, and when he comes to town this spring he will have bags and bags of amber lumps to swap for the dollars of the druggists, who always pay the highest prices for the best gum. The life of a gumpicker, without doubt, is the most lonely that a man can lead. The men go into the woods in October, and they make a study of spruce growth. They have an odd outfit, consisting generally of several polles and knives, a pair or two of showshoes, a small dog, a couple of blankets, and a pair of "climbers." They are like those used by telegraph linemen.

The gumpickers travel alone, and

showhoes, a small dog, a couple of blankets, and a pair of "climbera." They are like those used by telegraph linemen.

The gumpickers travel alone, and have secrets, like gold hunters. They follow the wake of the old whirlwinds that have left long furrows in the wilderness, and as long as they can track the course by the gum that forms on trees wounded the previous season they follow it along. Sometimes a gum hunter finds that his pathway has been intercepted by another hunter, who had discovered the lead, and a new plan of campaign must be resorted to.

There are many men who go into the woods to chop trees or swamp roads at \$25 a month who work every Sunday at digging gum from the boughs of the spruces, and in that way they greatly increase their earnings, although they are not nearly so successful as the professional digger. The veretan gum hunter has made his occupation a life study and has reduced the work to a science. He can go up a tree like a cat, and skin it bare of gum, from stump to top, while the logger would be getting ready to climb. The lumberman generally gets 20 to 20 pounds of gum in a winter, and sells it at from 80 cents to \$1.25 a pound, according to quality.

A professional gum hunter can make from \$3 to \$8 a day when he strikes a really good gum country. When he gets into a good place he keeps very quiet about it until he has gathered the last lump in sight. He makes from \$400 to \$800 in a season, and he earns every cent of it by hard, lonely work.—New York Times.

QUAINT AND CURIOUS.

The leading poultryman in a thriving North Missouri town answers to the name of Henry Coop.

When Hannibal's army descended from the Alps into the valley of Lom-bardy, the whole force was well nigh routed by a plague of mosquitos, which drove men and animals almost wild

with pain.

"I bought some apples from a Chinaman yesterday, giving him an American dollar," writes a Kansas soldier boy from Pekin, "and in the change which he gave me back was an American half dollar of the date of 1813. I have been offered \$10 for it."

An Esquimou baby is born fair except for a dark round spot on small or the back, varying in size from a three penny bit to a shilly of From this centre head of color the dark tint gradually spreads till the toddling Esquimau is as beautifully and as completely and as highly cored as a well smoked meerschaum pipe. The same thing happens among the Japanese.

A child's savings bank has been dug out of the ruins of Ostia, the senport of ancient Rome. The bank was an earthen pot containing 145 silver coins issued by Roman emperors between the years 200 and 19 B. C. The little savings bank was almost perfect when it was uncovered. It is three inches long and two and one-half inches wide, with a slit in the top through which the money was dropped.

Captain Baron Holzing of the Third Baden Dragoons recently covered a distance of 15 kilometres in the space of 25 minutes, riding against a minus running from Graben to the neighborhood of Carisruhe. He crived eight minutes before the train. His horse had been especially trained for the ride, having been fed on a particular sort of cake, instead of oats, for weeks past. The ride was accomplished without extraordinary exertion, and the horse was still fit for more work at the finish.

more work at the finish.

Remarkable to relate, wood can be utilized for soft flowing gowns. Wood pulp slik has long been a staple industry in St. Etienne, district of France. By certain secret chemical processes the pulp is reduced to a soapy condition. It is then forced into tubes full of tiny holes, through which it emerges in the form of fine silk like threads. These are speedily d'ied by boling passed through hot atmesphere, and are forthwith wound on bobbins ready to be woven into silk. The appearance of this unions product is and to be so natural that even experts are mistaken and think it the genuine article.

The Vicksburg national park will soon be complete as far as the acquisition of land is concerned. It will comprise in all 1,231 acres.

The latest Swiss mountain railway project is to connect the Engadine with the Italian lakes by a road over the Bernina range.

The daffodil is to be one of the fa-orite flowers of the season.

Garfield Headache Powders—a very simple medicine—cure when other remedies fail. When taken according to directions the re-mits are most satisfactory. Send for samples, Garfield Tea Co., Brooklyn, N. Y.

DEERING AT PARIS IN 1900.

The Famous Chicago Harvester Company Received More and Greater Honors' Than Were Ever Before Accorded an American Exhibitor in the Mistory of Ex-positions.

America may well feel proud of the interest which her citizens took in the Paris Exposition and the elaborate exhibits which were prepared with consummate skill and displayed in amanner not excelled by any other country. Those of Harvesting Machinery in particular were most complete and interesting. The Deering Harvester Company, of Chicago, America's foremost manufacturer of this line, the property of the line of the art of harvesting than any other manufacturer of this into the term of the art of harvesting than any other manufacturer, living or dead, and with a greater array of important inventions to its credit than any other company in the world. Visitors to the Exposition were prompt to second the Deering exhibits supreme honors, the property of the

Decring machines are known as Liour DRAFT DEALS, consisting of Binders, Mowers, Reapers, Corn Harvesters, Shredders and Rakes.

This Company exhibited at the Paris Exposi-tion an Automobile Mower, which attracted much attention, and exhibitions were given gith one of these machines in the vicinity of Paris throughout the season.

Berrien County, Michigan, is said to be the greatest peach growing section in the world. The number of acree cultivated last year was 45,960 bushels—over half of peaches was 45,960 bushels—over half of the Michigan eroof for 1205. Van Buren County came next, with 5557 bushels.

Coughing Leads to Consumption Kemp's Balsam will stop the cough at once Ge to your druggist to-day and get a sample bottle free. Sold in 25 and 50 cent bottles Go at once, delays are dangerous.

The population of the Isle of Pines 3.199, composed of 2.990 Cubans 195 Spaniards and 14 others. Their citizenship is classified as 2.818 Cubans, 32 Spaniards, 334 in suspense and 15 aliens.

Spring Cleaning Made Easy.

Much of the terror of spring cleaning may be avoided by proper preparation. Settled weather should be selected for the work, and a supply of all needed articles in readiness. Foury Soap will be found best for washing windows, paints and floors; it is harmless, and fresh—Eliza E. Parker.

A clean sween of about a quarter of a

A clean sweep of about a quarter of a million has been made by several English insurance companies. A gentleman who possessed the above amount did not agree with his relatives. Accordingly he purchased several annuties, but made a bad investment, for only a week elapsed between the purchase of the last annuty and the death of the gentleman. Thus the whole of the money goes into the insurance companies' coffers. His relatives get nothing.

When suffering with headache and general assitude take Garfield Headache Powders, remedy that is pleasant to take and convenient to carry. Business men will find then excellent to clear the head of dullness.

Avoid Cathartics.

Neu-Rot-Ico-Tea removes poisonous secreons from the bowels. By mail, 25 cents.
surotico Medicine Co., Hornellsville, N. Y.

A copy of Bradshaw's Railway Guide for 1839, the original edition, brought \$125 at a recent London auction.

The oldest statue in the world is of he Shelk of an Egyptain village. It is placed to the Shelk of an Egyptain village. It is placed to the Shelk of the Shelk of

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