

AFTER SUFFERING TWO LONG YEARS

Mrs. Aselin Was Restored to Health by Lydia E. Pinkham's Vegetable Compound.

Minneapolis, Minn.—"After my little one was born I was sick with pains in my sides which the doctors said were caused by inflammation. I suffered a great deal every month and grew very thin. I was under the doctor's care for two long years without any benefit. Finally after repeated suggestions to try it we got Lydia E. Pinkham's Vegetable Compound. After taking the third bottle of the Compound I was able to do my housework and today I am strong and healthy again. I will answer letters if anyone wishes to know about my case."—Mrs. JOSEPH ASELIN, 628 Monroe St., N. E., Minneapolis, Minn.

Lydia E. Pinkham's Vegetable Compound, made from native roots and herbs, contains no narcotics or harmful drugs, and today holds the record of being the most successful remedy we know for woman's ills. If you need such a medicine why don't you try it?

If you have the slightest doubt that Lydia E. Pinkham's Vegetable Compound will help you, write to Lydia E. Pinkham Medicine Co. (confidential) Lynn, Mass., for advice. Your letter will be opened, read and answered by a woman, and held in strict confidence.

The Army of Constipation

Is Growing Smaller Every Day. CARTER'S LITTLE LIVER PILLS are responsible—they permanently cure Constipation. Millions use them for Biliousness, Indigestion, Sick Headache, Sallow Skin.



SMALL PILL, SMALL DOSE, SMALL PRICE. Genuine must bear Signature.

Had Made a Good Start. In a certain family there is one of those rare old maids—a type that is almost extinct. Two sad love affairs have made life appear rather curdled, and she's about as cheerful as a rainy day at the seashore. A five-year-old grandniece is her one confidante, because she's the "only one who understands me." The other day at dinner, after casting a reproachful glance at the other members of the family, she murmured: "Yes, darling, I never thought enough of myself. I'm only now beginning to. I hope when you grow up you'll think something of yourself." "Oh, auntie!" exclaimed the little one, "I don't have to wait 'til then, 'cause I think a whole lot of myself now!"

Term Too Brief. "I think a congressman ought to be elected for more than two years." "You can't accomplish much in that time, eh?" "Why, my wife can't return all the calls she receives."—Courier-Journal

Dr. Pierce's Pleasant Pellets cure constipation. Constipation is the cause of many diseases. Cure the cause and you cure the disease. Easy to take. Adv.

Appropriate. "What would you recommend in bouquets for an April bride?" "Why not carry a shower?"

Smile on wash day. That's when you use Red Cross Ball Blue. Clothes whiter than snow. All grocers. Adv.

Doing beats wishing, but it's more like work.

STOP THAT BACKACHE

There's nothing more discouraging than a constant backache. You are lame when you wake. Pains pierce you when you bend or lift. It's hard to rest and next day it's the same old story.

Pain in the back is nature's warning of kidney ills. Neglect may pave the way to dropsy, gravel, or other serious kidney sickness.

Don't delay—begin using Doan's Kidney Pills—the remedy that has been curing backache and kidney trouble for over fifty years.

A TEXAS CASE

J. H. Lee, 412 W. Walnut St., Cleburne, Texas, says: "For four years I had intense pains through the small of my back. I could hardly pass the kidney secretions and morphine was the only thing that relieved me. I had gravel, too. Finally, I began using Doan's Kidney Pills and they permanently cured me. I haven't suffered since."

Get Doan's at Any Store. 50c a Box. DOAN'S KIDNEY PILLS. FOSTER-McBURN CO., BUFFALO, N. Y.

Pettit's Eye Salve. SMARTING SORE LIDS

TWO POPULAR NOBLEWOMEN IN PARIS



The two most popular women of the aristocracy in Paris are the Baronne de Poliakoff (left), wife of the czar's adviser in French affairs, and the Countess de Montebello (right). Both are lavish entertainers of members of the "smart sets" of America and Great Britain and are noted for their charm and beauty.

DISCOVERY THAT GRAVITATION IS CAUSED BY ELECTRICITY, ANNOUNCED

Prof. T. J. See, Government Astronomer at Mare Island, Upsets Newton's Law, He Claims, and Shows Gravitation Is Transmitted With the Velocity of Light, 186,000 Miles Per Second—Has Worked on Problem for Thirty Years.

San Francisco.—Prof. T. J. See, government astronomer at Mare Island, announced his discovery that gravitation is caused by electricity. He has upset Newton's law, he said, and shows that gravitation is transmitted with the velocity of light, 186,000 miles per second.

For 30 years Professor See has worked on the problems of light and gravitation. Able, impartial and experienced men of science, he said, assure him that the way is now opened for more important developments than any which have occurred in the physical sciences for two centuries. If he lives the work will occupy his attention for at least ten years to come.

So epoch-making does he consider his discoveries that he sent long cablegrams on the subject to Lord Raleigh, head of the Royal society of London, on April 7 and April 14. He also telegraphed his discoveries to the navy department in Washington for transmission to President Wilson.

The discoveries are made public coincident with the discussion of the nature of gravitation before the American Philosophical society at the annual general meeting in Philadelphia. The law of universal gravitation was established by Sir Isaac Newton in 1686, and has been the basis of our knowledge of the heavenly motions for over two centuries. Newton himself repeatedly declared during his life time that while he had formulated the law of attraction and explained its application to the sun and planets, the earth and the moon, he did not know the cause of gravitation. "Hitherto I have not been able to discover the cause of gravitation from phenomena, and I frame no hypotheses," said Newton; and he added, "but for us it is enough that gravitation does really exist, and acts according to the laws we have explained, and abundantly serves to account for the motions of the heavenly bodies and of our sea."

Professor See's announcement is that Newton's law of attraction is not strictly correct, except for bodies revolving in circular orbits, and thus experiencing no relative change of distance; but that the true law of nature is what is known as Weber's electro-dynamic law, which will apply to bodies revolving in orbits of any shape. Gravitation comes to the earth from the sun in about eight minutes.

Hitherto astronomers have not understood the nature of gravitation and nothing has been known about its velocity of propagation. Laplace tried to investigate the velocity of transmission over a century ago, and reached the conclusion that velocity was at least fifty million times greater than that of light. On account of the high authority of Laplace in astronomy, it was a long time before anyone attempted to further investigate the nature and velocity of gravitation. But for some years it has been known that method of calculation employed by Laplace was faulty; and a good many would have believed the velocity of gravitation similar to that of light, if they could have discovered any mechanical basis for such a theory.

Recently Professor See was able to show that all electric currents carry solid matter with the electricity; in fact electricity cannot be separated from matter, and an electric current as it runs along a wire curls around it in corkscrew fashion, and in this helical motion throws off at every step millions of particles of solid matter moving with the velocity of light. These solid particles are charged with electricity, and go right through the

insulation of the wire, the clothing and bodies of men and animals, as in case of the emission of the X-ray apparatus. The particles of metal carried away, as the current revolves round the wire, have mass, and when expelled and driven away into space with the velocity of light there is an equal reaction of "kick back," and often times the "kick back" is so strong as to twist up the wire. Electricians do not seem to have understood either the twisting of a wire by an escaping current, or why it is so destructive to life, and so powerful mechanically. After a careful examination of the problem Professor See claims that it is all because of the small amount of solid matter carried in the current, with the enormous velocity of light—the energy being as the square of the velocity, and thus enormous even for very small masses.

In dealing comprehensively with the wave theory of light, Professor See discovered that light is not really due to waves in the so-called Aether, but is really caused by electrically charged particles shaped like eggs, revolving about the shorter axis, and giving by their revolution an impression of wave motion which deceived many eminent philosophers of the past century. Thus by penetrating into the nature of light Professor See was able to restore Newton's theory largely, at the same time retaining the advantages of the Aether wave theory, without its manifold and admitted disadvantages, and fantastic and violent assumptions. By this daring and skillful innovation he puts the whole theory of light on a new basis, and in line with modern knowledge of electricity.

The particles of light are similar to the particles carried away in electric currents, but much smaller in size; and the whole theory of Aether is abandoned as having no real existence. This elimination of the luminiferous Aether represents a milestone in modern progress, and is sure to awaken lively discussions in the scientific circles of Europe and America. In April, 1911, quite a discussion was carried on at the annual meeting of the American Philosophical society in Philadelphia, and it was then agreed, by numerous physicists in attendance, that the doctrine of the Aether was essentially wrong, but no one was able to substitute a better explanation.

Coming to a popular exposition of the cause of gravitation, Professor See said it was really only an apparent attraction between bodies, due to repulsion from them in all directions of minute particles moving at the speed of 186,000 miles a second, and thus driving them together. Owing to the fact that each body acts as a screen to the other, more of these rapidly moving particles come from without than from the direction of the other body, and thus the bodies are forced together, and the planets retained in their orbits round the sun.

It had been recognized by philosophers, he said, that if such rapidly moving particles could be shown to exist, they would explain gravitation; but it was only when he got rid of the hypothetical Aether, and proved that light is due to electrically charged corpuscles of solid matter in line with other modern electrical discoveries, that a true mechanical basis for gravitation had been discovered and this force shown to be transmitted with the velocity of light.

The repulsion of minute particles from the earth and sun force them together, by reaction, just as would happen if two parallel moving battleships each had six guns directed outwardly,

but only one towards each other; the four extra guns on each ship throwing shells away from the other are not counterbalanced by any projectiles thrown in the direction of the other ship, and thus the two vessels, under the action of incessant firing, will gradually approach. The reaction drives the ships towards each other, and a similar reaction is incessantly at work among the heavenly bodies when an infinite number of particles of fine dust is expelled from them with the velocity of light and totally imperceptible to our senses. Thus gravitation is due to the action of repulsive forces in nature, and is really not an attraction after all.

A similar explanation to that made for gravitation is given of magnets, and the magnetism of the earth, which has puzzled philosophers for over three centuries, since Gilbert published his first work on magnets in the year 1600. The magnets are receiving and transmitting outwardly streams of minute corpuscles moving with the velocity of light, and the reaction thus arising gives rise to apparent attraction, the intensity being greatly augmented over that of gravitation because the molecular groups are so arranged as to direct the repulsion of the particles uniformly along certain lines, whereas in gravitation there is a haphazard arrangement of the molecular groups, and the reactions largely destroy each other, leaving only a feeble residue of attraction equal in all directions.

In the case of the earth, under the incessant orbital revolution of the sun, electrifying our globe for hundreds of millions of years, the streams of electrically charged particles containing iron and other substances running through it with almost the velocity of light, has converted our planet into a great magnet, thus confirming the old idea of Gilbert. In confirmation of this view, Professor See points out that the magnetic poles of the earth are essentially perpendicular to the ecliptic in which the sun revolves, showing a fundamental dependence. An intimate connection between the earth's magnetic storms and the sunspot disturbances has been known for three-quarters of a century; but the significance of the observations of John Allen Droun about 1845 that there is a magnetic tide in the earth depending on the moon and varying according to exactly the same law as the tides of the sea, has not been previously appreciated. This magnetic tide is direct observational proof that Weber's electro-dynamic law governs the universe, instead of the Newtonian law.

In conclusion Professor See pointed out that the electro-dynamic law of Weber accounts for all the known attractive phenomena of the heavens and the earth, and he therefore cabled Lord Raleigh that it is the fundamental law of nature, operating uniformly throughout the sidereal universe. Previous investigators could not see any mechanical basis for Weber's law; and even Weber himself (1804-1891) a contemporary and friend of Gauss at Göttingen, did not understand the basis of his law.

COMMUTES ACROSS THE SEA

Sen of Viscontesse Sombreuil Loves Paris, Daughter America, Forcing Mother to Travel to See Them.

New York.—Viscontesse De Villelume Sombreuil, who arrived here aboard the steamship Oceanic, has two children, a son and a daughter. The son loves Paris more than any other city on the map, and Egle, the daughter, thinks there is no such place as America. The son will not



leave Paris, and the daughter will not leave America; so, the mother is compelled to commute across the ocean in order that she may be with one or the other of her children for a certain period. The mother was joyously greeted by the daughter when the former arrived at the pier.

Northwestern Co-Ed Under Restraint. Chicago.—Northwestern co-eds have been forbidden to give chafing dish parties and make fudge for lingering young swains in the dormitories at midnight.

Dear Wrecks a Kitchen. Cold Springs, N. Y.—Frightened by dogs, a deer bounded into Albert Spangler's kitchen, wrecked the place and escaped.

ADDRESSED TO WOMEN

In the Expectant Period

Before the coming of the little one—women need to be possessed of all their natural strength. Instead of being harassed by forebodings and weakened by nausea, sleeplessness, or nervousness—if you will bring to your aid

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you will find that most of the suffering will not make its appearance.

Dr. Pierce's Favorite Prescription is the result of a life study of ailments, disorders and irregularities peculiar to women. Its continued supremacy in its particular field for more than forty years is your assurance of the benefit to be derived from its use.

Neither narcotics nor alcohol will be found in this vegetable prescription, in liquid or tablet form. Sold by druggists or a trial box will be sent you by mail on receipt of 50 one-cent stamps.

Address Dr. Pierce's Invalids Hotel, Buffalo, N. Y.
Dr. Pierce's Pleasant Pellets regulate liver and bowels

FIGHT PLAGUE IN THE ORIENT

American Anti-Tuberculosis Society Has Been Active in Movement for Health Preservation.

Tuberculosis is one of the most serious public health problems of the Orient. Active organizations to fight this disease have been formed in Japan, the Philippines, India and Australia. A movement is on foot for a national organization in China and in a number of cities local work has been started. While no accurate figures are available, those who are in position to know claim that consumption takes annually from 500,000 to 1,000,000 lives in China alone. In India the death rate is fully as high, and on account of caste distinctions and native superstitions, the problem of prevention and treatment is peculiarly difficult. The Japanese government has taken a hand officially in the control of tuberculosis, and is co-operating with two well-organized private associations. The death rate, while very high, is lower than in China and India. Under the direction of the United States public health service a movement for the prevention of tuberculosis in the Philippines has also been organized.

The National Association for the Study and Prevention of Tuberculosis, with headquarters in New York, although organized especially for work in this country, has been largely instrumental in the establishment of anti-tuberculosis movements in most of the oriental countries, as well as in Africa and South America.

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R. F. D. No. 2, Jackson, Mo.—"Our daughter who is ten months old was suffering from an eruption all over the body. In the beginning they were small red spots and afterwards turned to bloody sores. We tried all sorts of ointments but they did not procure any relief for our child. She cried almost day and night and we scarcely could touch her, because she was covered with sores from head to foot.

"We had heard about the Cuticura Soap and Ointment and made a trial with them, and after using the remedies, that is to say, the Soap and the Ointment, only a few days passed and our child could sleep well and after one week she was totally well."

(Signed) August F. Bartels, Nov. 25, 1912.

Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address post-card "Cuticura, Dept. L, Boston."—Adv.

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The opportunity of securing free homesteads of 160 acres each, and the low priced lands of Manitoba, Saskatchewan and Alberta, will soon have passed.

Canada offers a hearty welcome to the settler, to the man with a family looking for a home; to the farmer's son, to the renter, to all who wish to live under better conditions.

Canada's grain yield in 1913 is the talk of the world. Luxuriant Grasses give cheap fodder for large herds; cost of raising and fattening for market is a trifle.

The sum realized for Beef, Butter, Milk and Cheese will pay fifty per cent on the investment.

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Nebraska Directory

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