

DISPUTES NEWTON GRAVITY THEORY

Just a Push Says Cleveland
Doctor—To Prove Con-
verse Law.

St. Paul, Minn., March 21.—The Newtonian theory of gravitation that has stood for many years was attacked when Dr. Charles F. Brush, Cleveland, Ohio, one of the leading physicists of the country, ascribing the falling properties of matter to a "pushing" property within itself derived from the ether through which it falls, rather than to "pulling" power from the earth on the falling body.

Dr. Brush set up the converse theory that the energy exhibited in the gravitation is fully restored to the ether when the body is raised against the gravitation attraction. Dr. Brush assumes the ether to be endowed with a vast intrinsic kinetic energy, which is in wave form and is translated to the atoms or molecules.

Kinetic Theory of Gravitation.

In his paper on the "Kinetic Theory of Gravitation," read before the physics section of the scientists convention, Dr. Brush, after discussing at length the origin of the energy acquired by a falling body, concludes that the gathered energy comes from the ether through which the body falls. "Conversely," said Dr. Brush, "equivalent energy is restored to the ether when the body is raised against gravitation attraction."

The ether is assumed to be endowed with vast intrinsic kinetic energy in wave form. The waves are of such low frequency, or otherwise of such character, that they pass through the bodies without obstruction other than that concerned in gravitation. They are propagated in straight lines in every conceivable direction, so that the wave energy is isotropic, being in this respect like radiation in the interior space of a furnace with uniformly heated walls. Distribution of the ether's intrinsic energy is uniform throughout the universe as modified by the presence of matter. Any kind of ether waves capable of exercising motive action on the atoms or molecules of matter will fulfill the requirements.

Follow Nearly Parallel Paths.

"Atoms are imagined to be continually buffeted in all directions by the ether-waves in paths almost indefinitely short, but without collision because neighboring atoms are likened to particles of a precipitate suspended in turbulent water."

"Each atom of molecule is regarded as a center of activity, due to its kinetic energy of translation derived initially from the ether. There is a continual absorption and restitution of the ether's energy, normally equal in amount. But the ether is permanently robbed of as much of its energy as is represented by the mean kinetic energy of the atom. This energy deficiency in the ether is not wholly local, but extends indefinitely into space, diminishing in strength as the square of the distance increases."

A Spherical Energy Shadow.

"A body of matter is pictured as casting in effect spherical energy shadow consisting of the sum of the shadows of its constituent units, the depth or intensity of the shadow varying with the inverse square of the distance from the center of the body. Another body at any distance will cast a similar shadow, and the two shadows will intersect, each body being partially shielded by the other from waves coming from that direction, the extent of the shielding effect depending directly on the mass of the shielding body."

"Of the several components into which the composite motion of each atom can be resolved, that one lying in the direction of an attracting body will be the greatest, because the waves from that direction, being partially intercepted by the attracting body are weakest and the atom will be pushed in that direction by the superior waves behind it. If free to fall, the atom will continually absorb more energy from the stronger waves behind it than it restores to the weaker waves in front, and will thus acquire additional kinetic energy of translation in the line of fall, measured directly by the number of waves involved, i. e., by the distance moved. Conversely, if the atom be forced away from the attracting body restitution of energy will exceed absorption, and the energy expended in moving the atom against attraction will be transferred to the ether."

"It will be seen that gravitation is a push toward the attracting body and not a pull. It is clear, also, that the velocity with which a falling body can acquire tends asymptotically to a limit, which is the velocity of the ether waves which push; the velocity of light, if transverse waves are involved."

Coliseum open tonight for skating. Come! All Skate!

Until the year 1800 the English kings were also called kings of France, although the last continental possession was lost during the reign of Mary. Until the French revolution of 1789 the French kings styled themselves, among other things, kings of Jerusalem.

STATE OF OHIO, CITY OF TOLEDO, Lucas County.

FRANK J. CHENEY, subscriber, certifies that he is senior partner of the firm of F. J. CHENEY & CO., doing business in the CITY OF TOLEDO, County and State of OHIO, and that he has deposited with the Clerk of the COURT OF COMMON PLEAS, in the sum of ONE HUNDRED DOLLARS (\$100.00) for each and every CATASTROPHE that cannot be cured by the use of HALS' CALCIUM THERAPY.

FRANK J. CHENEY.

Return to before me and subscribe to my presence, this 5th day of December, A. D. 1886.

A. W. GLEASON,
NOTARY PUBLIC.

HALS' CALCIUM THERAPY is taken internally and acts directly upon the blood and nervous surfaces of the system and has no side effects.

F. J. CHENEY & CO., Toledo, O.

Take Hals' Family Pill for constipation.

SURELY BREAKS THE MOST SEVERE COLD

The most severe cold will be broken and all grippe misery ended after taking a dose of Pape's Cold Compound every two hours until three consecutive doses are taken.

You will distinctly feel all the disagreeable symptoms leaving after the very first dose.

The most miserable headache, dullness, head and nose stuffed up, feverishness, sneezing, running of the nose, sore throat, mucous catarrhal discharges, soreness. Stillness, rheumatism pains and other distress vanishes. Pape's Cold Compound is the result of three years' research at a cost of more than fifty thousand dollars, and contains no quinine, which we have conclusively demonstrated is not effective in the treatment of colds or grippe.

Take this harmless Compound as directed, with the knowledge that there is no other medicine made anywhere else in the world, which will cure your cold or end Grippe misery as promptly and without any other assistance or bad after-effects as a 25-cent package of Pape's Cold Compound, which any druggist in the world can supply.



Prune Souffle.

For prune souffle remove the pits from a large cupful of stewed prunes and chop fine. Add the whites of three eggs and half a cupful of sugar beaten to a stiff froth. Mix well, turn into a buttered dish and bake thirty minutes in a moderate oven. Serve with whipped cream. If it is desired to cook this in individual cups butter the cups, fill only two-thirds full to allow for puffing up of the eggs and set the cups in a pan of water to bake. Some like a dash of cinnamon in this.

Another recipe for prune whip in which the making is omitted is especially rich. Take one pint of stewed prunes, one-third pint of thick cream, whites of six eggs and raspberry or loganberry jelly. After thoroughly draining the prunes pit them and rub them through a colander, but avoid rubbing the skins through as much as possible. Beat the whites of the eggs to a stiff froth, then by degrees beat this into sifted prunes. If not sweet enough to suit the taste add a teaspoonful of sugar.

The delicacy of this dish depends largely upon the thoroughness with which the ingredients are beaten together. When well beaten together pour into a glass dish. Whip the cream and spread evenly over the top of pudding, then deck the whipped cream with bits of the jelly. Serve with cream or, if preferred, with a custard made from the yolks of six eggs.

Chicken Pie.

Two medium sized chickens, one pound of raw sausage, one slice of onion, a few herbs, a little chopped parsley, seasoning of salt and pepper, two cupfuls of cold water, one heaping tablespoonful of powdered gelatin, some pastry, one raw egg, one hard cooked egg and a few slices of cold ham.

Cut the chickens into neat, small joints and take out the bones. Skin the sausages. Put the bones, necks and giblets into a pan with enough cold water to cover them; also the onion, herbs and seasoning. Let all simmer gently for an hour and a half. Put a layer of chicken in a pudding dish, then some slices of cold ham and hard boiled egg. Sprinkle over these some chopped parsley, pepper and salt. Repeat these layers till the dish is full, then pour in the cold water. Put on the lid of pastry. Decorate it with leaves of pastry, glaze it with beaten egg and bake for two hours in a quick oven to begin with and then in a cooler. When it is done lift out the center ornament and pour in the stock made from the bones.

Stews That Are Good to Eat.

A variation of the old time Irish stew has the meat cooked with tomatoes, peppers and potatoes in place of the usual carrots and other vegetables. For a brown stew cut the cooked or uncooked meat in pieces, roll them in flour and fry them brown in drippings. Then turn in hot water and boil until the meat is within fifteen minutes of being tender. Add potatoes cut in pieces, a green pepper or two with the seeds removed, and cut in pieces a sweet red pepper or two prepared in the same way and a half cupful of tomatoes. Season with salt, pepper and a little paprika.

Clam Fritters.

The following batter is excellent for clam fritters: Sift a cup of flour with a teaspoonful each of salt, sugar and cream of tartar and half a teaspoonful of soda. Add a tablespoonful of melted butter, one egg and half a pint of milk. Mix the flour, sugar, salt, soda and cream of tartar together and rub through a sieve. Whip the egg till very light and stir it into the milk, then beat it gradually into the dry ingredients. When the batter is smooth stir a very scant pint of chopped clams into it, taking care not to add enough clam juice to moisten it too much. Fry on a hot griddle.

Neapolitan Cake.

For neapolitan cake prepare two cake batters, one white and the other yellow, and divide each batter into two parts. Color one half of the white batter a beautiful pink and leave the other half white. Color and flavor one half of the yellow batter with chocolate. Bake each of the cakes in layer form and when cold place the layers together with a nice soft icing flavored with orange juice. The yellow layer may be flavored with orange juice if desired and the white flavored with vanilla or almond. The pink may be flavored with strawberry or rose.

TIME LAPSES BAR LICENSE RENEWALS

Marion County Attorney
Raub Against Renewing
Expired Permits.

Indianapolis, March 21.—In a written opinion giving his construction of certain parts of the new Proctor liquor regulation act, County Attorney Edward F. Raub has advised the county commissioners to refuse a renewal of a license to sell liquor where the old license had expired previous to the hearing of the application for renewal. If the commissioners follow the advice of their attorney they will refuse to grant renewals to the old holders of licenses to conduct sixteen places, licenses for which were applied for by men who are not the holders of old licenses. The only way licenses could be granted for any of these places, was for the old holder to make application and have a hearing at the April meeting of the board, and then transfer the license, if renewals were granted, to the new applicant. All the sixteen licenses will expire before the April hearing.

The county attorney explained that he had advised this course because, in some of the cases, there was plenty of time to advertise twenty days, as required by law, and still get a hearing before the old license expired. Several of the licenses expire late this month, and if these men had taken advantage immediately after the county attorney advised them what to do, he says, the could have had a hearing before their old license expired.

Renewal and Expiration.
The question on which Mr. Raub now gives an opinion is: "May the board of commissioners grant a renewal to a person who has all the qualifications required by law, but whose license will expire before a hearing can be had on his application?" He holds that, according to the provisions of the act, "the removal shall continue the original license for a period of one year from the date of such renewal." He believes the date of the expiration, without any lapse of time between the expiration and renewal.

"The question is not free from ambiguity," says the opinion, "yet, inasmuch as the burden is on the applicant to show that he comes clearly within the provisions of the statute permitting the board to grant him a renewal, I advise your honorable board that * * * where the advertisement has not been made in time so that a hearing can be had before the expiration of the former license or renewal thereof, such application for renewal should be refused."

Carl von Hake, president of the board, said that no such cases had come before the board as yet, and that the commissioners would not take action in reference to the opinion until such applications were filed.

Sixteen Applications Turned Down.
Following the written opinion of the county attorney in regard to the matter of granting applications of new applicants for old places, the board formally refused the sixteen applications that were pending. The attorney had given a verbal opinion that the board could not grant such applications, and they had been refused consideration before. The board also formally refused the three applications of new men for new places.

The county attorney, also gave an opinion on the question of whether or not an applicant who holds a sublease for the period during which a license is to run is a qualified applicant under the new act. The attorney decided that a lease which gives the applicant the sole and exclusive right to the premises for the period for which the license is to run is qualified as a lessee, even if he hold only a sublease.

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