

SUN AGLOW BY RADIUM

Professor Darwin Speculates on Force of New Element.

MORE POWERFUL THAN DYNAMITE

An Ounce of It Would Raise 10,000 Tons a Mile High—How the Stars and Systems Are Formed—A Billion Years Since Moon Left the Earth.

Professor George Howard Darwin of the chair of astronomy and experimental philosophy at Cambridge, second son of the late Charles Darwin, in an address before the British association at Johannesburg, South Africa, is thus reported in a dispatch to the New York Times.

In the course of his address he declared it not unreasonable to believe that from 500,000,000 to 1,000,000,000 years had elapsed in the evolutionary history of our earth since the birth of the moon. He also gave some details in regard to which the discovery of radium and its properties had upset the calculations of the scientists.

Discussing the nebular hypothesis and considering the influence of tidal oscillations, he said the system might be traced back to a time when the day and the month were identical, both being only about four or five of our present hours. The moon at that time must have been only a few thousand miles from the earth's surface—a great contrast with the present distance of 240,000 miles. If at every moment since the birth of the moon tidal friction had always been at work in such a way as to produce the greatest possible effect, Professor Darwin said, 60,000,000 years would be consumed in this portion of evolutionary history. The true period must be much greater. Pure geology pointed to some period between 500,000,000 and 1,000,000,000 years, the limit being the more doubtful. Thus the geologists did not find anything which rendered the tidal theory of evolution untenable.

Physicists from a calculation of the total output of the sun's heat had regarded it necessary that the whole history of the solar system be comprised within 20,000,000 years. He always had believed that the geologists were more nearly correct. Recent marvelous discoveries in physics showed that concentration of matter was not the only source from which the sun might draw its heat. Radium was a substance which was perhaps millions of times more powerful than dynamite.

It was estimated that an ounce of radium would contain enough power to raise 10,000 tons a mile above the earth's surface. The energy needed to tow a ship of 12,000 tons for 6,000 sea miles at fifteen knots was contained in twenty-two ounces of radium. The Saxon probably burned 5,000 or 6,000 tons of coal on a voyage approximately the same length.

The earth contains radio active materials, and it was safe to assume that it forms in some degree a sample of the materials of the solar system; hence it was almost certain that the sun was radio active also. This branch of science was yet in its infancy, but already scientists saw how unsafe it was to dogmatize on the potentialities of matter.

Professor Darwin referred to the inconceivably vast multitude of stars and nebulae revealed by photography. A celestial photograph, he said, looked at first like a dark sheet of paper splashed with whitewash, but further examination showed that there was method in the arrangement of the white spots. It was possible to obtain general ideas as to the succession of events in stellar evolution.

The conviction was forced that the wispy clouds represented the earliest stage of development, the more condensed nebulae a later stage and the stars themselves the last stage. Change obviously was in progress everywhere, but scientists were unable even to form conjectures as to the tendency of the evolution. In conclusion Professor Darwin said:

"We have seen that it is possible to trace the solar system back to a primitive nebula with some degree of confidence and that there is reason to believe that the stars in general have originated in the same manner. But such primitive nebulae stand in as much need of explanation as their stellar offspring.

"Thus even if we grant the exact truth of these theories the advance toward an explanation of the universe remains miserably slight. Man is but a microscopic being relatively to astronomical space, and he lives on a gony planet circling round a star of inferior rank. Does it not then seem as futile to imagine that he can discover the origin and tendency of the universe as to expect a housefly to instruct us as to the theory of the motions of the planets?"

"And yet so long as he shall last he will pursue his search and will no doubt discover many wonderful things which are still hidden. We may indeed be amazed at all that man has been able to find out, but the immeasurable magnitude of the undiscovered will throughout all time remain to humble his pride. Our children's children will still be gazing and marveling at the starry heavens, but the riddle will never be read."

Way to Prevent Race Suicide. Chief Charles W. Pidgeon of the Massachusetts bureau of statistics of labor urges a "good fat tax on bachelors" as a means of checking the noticeable decrease in the population of the state. "I think they should be made to assume the same share of responsibility that the married men have to bear," he says.

AUTOS AND GOOD ROADS.

Influence of Horseless Wagons in the Making of Highways.

The crowning glory of automobile touring, however, lies in the demand it has created, in all parts of the world where motor cars are being used for pleasure or business purposes, for good roads, writes H. P. Burchell in the Outlook Magazine. Here in America the good roads movement within recent years has become a question of national importance. With the exception of a few states, notably New Jersey and Massachusetts, the subject of better roads was the last thought that gave the legislators the least trouble.

The Automobile Club of America in its younger days expended a tremendous amount of argumentative energy in endeavoring to convince the lawmakers of New York that money expended on good roads was a good business investment. Their appeals brought out a few thousand dollars, somewhat grudgingly given. Finally the generous sum of \$100,000 was appropriated, and at the forthcoming election a constitutional amendment will be presented to the voters providing that the state may bond itself for \$5,000,000 for ten years for the building of improved wagon roads.

Agitation has been productive of similar good results in other states. Governor Deneen of Illinois gave a marked illustration of the growing demand for better roads in the west when, in his last message, he made a strong plea for the expenditure of more money and careful thought upon road building. His statement that barely 2 per cent of the Illinois roads were suitable for traffic at all periods of the year was no exaggeration, and scores of other states could show no higher average.

Departments of highways have been established in California, Idaho, Minnesota, Mississippi, Missouri, Oregon, Tennessee, North Carolina, Nebraska and in several of the eastern states in which the good roads movement has languished. Florida recently appropriated \$500,000 for good roads, and it is confidently predicted that within a short time there will not be a state in the Union that will not manifest a just pride in the increasing mileage of its roads good all the year round.

EXCELLENT ROAD RULES.

Plan of Allegheny County, Pa., to Reduce Cost of Yearly Repairs.

Allegheny county, Pa., having gone to the expense of building some fine new roads, is taking adequate measures for their preservation. The board of commissioners met recently and adopted a set of rules and regulations, the enforcement of which will greatly reduce the cost of annual repairs, says the Auto Advocate and Country Roads. They are as follows:

"Where the load does not exceed 1,500 pounds the tire shall not be less than two and one-quarter inches broad.

"Where the load exceeds 1,500 pounds, but not 4,000 pounds, the tires shall not be less than three and one-quarter inches broad.

"Where the load exceeds 4,000 pounds, but not 5,000 pounds, the tires shall not be less than four inches broad.

"Where the load exceeds 5,000 pounds the tires shall not be less than six inches broad.

"No person shall use a chain or any other than a steel shoe 'dead lock' on the said improved county roads.

"No person shall willfully place dirt, stone, rubbish or debris of any kind on said improved county roads or in any manner obstruct the drainage thereof." These rules, which are to go into effect soon, are not at all unreasonable. They will in nowise interfere with any legitimate business, and no one can have any good excuse for resenting their adoption. It is a waste of money to build good roads and then neglect to take all necessary measures for their maintenance and preservation. Violators of the Allegheny rules will be subject to a penalty of \$10 and to criminal prosecution, for behind the regulations is a law passed by the last legislature authorizing county commissioners to make such rules and to punish those who violate them.

Rural Delivery Notes

Oklahoma now has 532 rural free delivery routes in operation and 69 petitions on file.

On July 1 there were 32,058 rural free delivery routes in operation in the United States, or 7,492 more than at the corresponding period last year.

The pay of rural free delivery carriers has been increased from \$300 to \$720 a year.

Less than nine years ago the first rural free delivery route was established. Now there are 32,000 in the United States.

To facilitate a more accurate handling of mail by rural free delivery carriers the postoffice department is arranging for the numbering of rural boxes. The delivery of ordinary mail matter of all classes addressed to boxes by number alone will be authorized, the same as is now permitted in the case of postoffice boxes, so long as improper and unlawful business is not conducted.

What is probably the only automobile in use by a rural mail carrier in the United States leaves St. Paul every morning for New Canada and vicinity, says the St. Paul Pioneer Press. Gerhard Melchior is the enterprising carrier who has introduced this innovation in the method of serving the patrons on his route, which is about twenty-five miles long, and it generally takes him from 9:15 in the morning to 4 or 5 in the afternoon to make the trip. The trips already made have proved successful, and he is entirely satisfied with the experiment so far as he has gone.

"Lock Me Up."

Broken in health and weary of dodging the officers for the past three months, Samuel Wilkinson, of Turtle Creek, accused of juryfixing and indicted for embezzlement, walked into the Criminal Court in Pittsburg, the other day and requested that he be locked up. He told Judge Marshall Brown that he was tired of being a fugitive, and that he was ready to face the consequences. He said he expected to be found guilty, but that, if he was, he would make some disclosures which would implicate some of the most prominent politicians in Allegheny county, who, he declares, are as guilty as he is. Wilkinson is suffering from malaria, and his condition is serious.

Truly, the doom of the machine transgressors seems to be at hand.

J. D. Ritter, of Barnesboro, formerly of Philipsburg, has received the contract to build the new hospital at Spangler at a cost of \$18,500. The building will be brick and an imposing structure.

Andrew J. McClintic, of Lamar, died at his home Tuesday night of diseases incident to old age. He lacked a few days of 77 years. He is survived by his wife and two daughters.

G. F. JODON, Auctioneer, Bellefonte, Pa.

Offers his services to the public as an auctioneer. Farm sales a specialty. x45

A. E. Schadt

Fine Sanitary Plumbing

Gas Fitting

Furnace, Steam and Hot Water Heating.

Slating, Tin Roofing, Spouting.

All kinds of Tinware made to order.

Estimates Cheerfully Furnished.

Both Telephones.

Eagle Block, Bellefonte.

Painting

NOW is the time to look into the matter. Don't let your house stand out in the exposure all winter wearing a shabby coat of paint, when it will save your property for a number years longer by attending to it in time, and cost but a small amount to have it looking neat and nobby with a new coat. Nothing but the strictly pure white lead and oil used by us, tinted up in colors desired so that you know just what you are getting, and that we are not using some of the new compositions put on the market and trying the experiment on you to see how they will work.

When we paint it stays and gives you your money's worth. Give us a call and be convinced. Understand we are living up to our reputation for doing the best grade of work that can be done.

Paper-Hanging

We have the latest up-to-date styles in Wall Papers at a moderate cost and combined with artistic taste in the hanging make the prettiest rooms imaginable.

Paints, Oils, Glass, Window Shades, Curtain Poles, etc., Furniture Polish makes shabby furniture look like new, also Ja-pa-lac and Sa-po-lin varnish stains for brightening up the wood work.

Eckenroth Brothers

Contracting Painters, Paper Hangers and Decorators, BUSH ARCADE.

Always Remember the Full Name Laxative Bromo Quinine Cures a Cold in One Day, Grip in Two.

E. H. Brown on Box 25c.

LEGAL ADVERTISEMENTS.

NOTICE.

The following articles—2 horses, 2 calves, 2 hogs, harness, lot of farm implements, interest in 7 acres corn, etc., sold at constable's sale as the property of Chas. Wright, were purchased by the undersigned and all persons are hereby cautioned not to interfere with same.

Mrs. Mary Wright Boalsburg, Pa. x 41

EXECUTOR'S NOTICE.

Letters testamentary on the estate of Charity A. Aike, late of Boggs township, Centre county, Pa., deceased, having been granted to the undersigned, to whom all persons indebted to said estate are hereby requested to make payment, and those having claims or demands, will make known the same, without delay.

J. K. JOHNSON, HERMAN B. AIKER, Exr. Atty. Widdage, Pa. x 40

DIVORCE NOTICE.

KATE SHAW vs. H. BEN SHAW No. 104 April Term 1905.

To H. Ben Shaw: Whereas, Kate Shaw, your wife, has filed a libel in the Court of Common Pleas of Centre county, to No. 104 April Term 1905, praying for a divorce against you; now you are hereby notified and requested to appear in said court on or before Monday the 27th day of November, 1905, to answer the complaint of the said Kate Shaw and show cause, if any you have, why the said Kate Shaw should not be divorced from the bonds of matrimony entered into with you, and in default of such appearance you will be liable to have a decree granted in your absence.

Sheriff's office, H. S. TAYLOR Bellefonte, Pa. Sheriff.

DIVORCE NOTICE.

IRA R. MCCLINTIC vs. SARAH J. MCCLINTIC No. Term 1905.

To Sarah J. McClintic: Whereas, Ira R. McClintic, your husband, has filed a libel in the Court of Common Pleas of Centre county, to No. 1 April Term 1905, praying for a divorce against you; now you are hereby notified and requested to appear in said court on or before Monday the 27th day of November, 1905, to answer the complaint of the said Ira R. McClintic and show cause, if any you have, why the said Ira R. McClintic should not be divorced from the bonds of matrimony entered into with you, and in default of such appearance you will be liable to have a decree granted in your absence.

Sheriff's office, H. S. TAYLOR Bellefonte, Pa. Sheriff.

DIVORCE NOTICE.

ROXANNA I. ARDERY vs. WM. H. ARDERY No. 9 April Term 1905.

To Wm. H. Arderly: Whereas, Roxanna I. Arderly, your wife, has filed a libel in the Court of Common Pleas of Centre county, to No. 9 April Term 1905, praying for a divorce against you; now you are hereby notified and requested to appear in said court on or before Monday the 27th day of November, 1905, to answer the complaint of the said Roxanna I. Arderly and show cause, if any you have, why the said Roxanna I. Arderly should not be divorced from the bonds of matrimony entered into with you, and in default of such appearance you will be liable to have a decree granted in your absence.

Sheriff's office, H. S. TAYLOR Bellefonte, Pa. Sheriff.

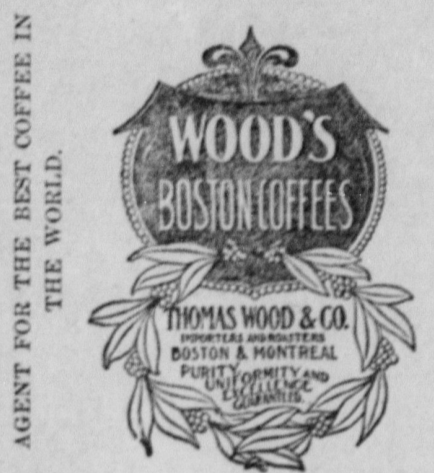
Annual Contest

To the Farmer bringing in the largest number of eggs during the month of October:

1ST LARGEST NO. OF EGGS, \$2.50
2ND " " " 1.50
3RD " " " 1.00

Market price will be paid for Eggs.

AGENT FOR THE BEST COFFEE IN THE WORLD.



E. T. ROAN, Bishop St., Bellefonte.

Pure Spices.

Every housekeeper has suffered through the purchase of adulterated spices. We have a line of spices that we guarantee ABSOLUTELY PURE. They are called the

"Symonds Inn Spices"

Try them—if not perfectly satisfied come back and get your money, it is yours and we want you to have it.

Green's Pharmacy Co., THE REXALL STORE.

RAILROAD SCHEDULE.

PENNSYLVANIA RAILROAD. Schedule in effect May 25, 1905.

Trains arrive and depart from BELLEFONTE as follows:—

VIA TYRONE—WESTWARD. Leave Bellefonte 9:55 a. m. week-days, arrive at Tyrone 11:55 a. m., Altoona 1:30 p. m., Pittsburg 5:50 p. m. Leave Bellefonte 1:55 p. m. week-days, arrive at Tyrone 2:10 p. m., Altoona 3:10 p. m., Pittsburg 6:50 p. m. Leave Bellefonte 4:44 p. m. daily, arrive at Tyrone 6:30 p. m., Altoona 8:55 p. m., Pittsburg 10:45 p. m.

VIA TYRONE—EASTWARD. Leave Bellefonte 9:55 a. m. week-days, arrive at Tyrone 11:55 a. m., Harrisburg 2:35 p. m., Philadelphia 6:47 p. m. Leave Bellefonte 1:55 p. m. week-days, arrive at Tyrone 2:10 p. m., Harrisburg 6:55 p. m., Philadelphia 10:47 p. m. Leave Bellefonte 4:44 p. m. daily, arrive at Tyrone 6:30 p. m., Harrisburg 10:00 p. m., Philadelphia 12:45 a. m.

VIA LOCK HAVEN—WESTWARD. Leave Bellefonte 1:25 p. m. week-days, arrive at Lock Haven 2:15 p. m., Buffalo 7:50 p. m. Leave Bellefonte 6:25 a. m. week-days, arrive at Lock Haven 10:30 a. m., leave Williamsport 12:30 p. m., arrive at Harrisburg 3:30 p. m., Philadelphia 6:22 p. m. Leave Bellefonte 1:25 p. m. week-days, arrive at Lock Haven 2:10 p. m., leave Williamsport 4:25 p. m., arrive at Harrisburg 6:50 p. m., Philadelphia 7:52 p. m.

VIA LEWISBURG. Leave Bellefonte 9:55 a. m. week-days, arrive at Lewisburg 11:30 a. m., Montandon 9:15 a. m., Harrisburg 11:30 a. m., Philadelphia 3:17 p. m. Leave Bellefonte 2:00 p. m. week-days, arrive at Lewisburg 4:35 p. m., Montandon 4:45 p. m., Harrisburg 7:00 p. m., Philadelphia 10:47 p. m.

For full information time tables, etc., call on ticket agent, or address Thos. E. Watt, Passenger Agent, Western District, No. 300 Fifth Avenue, Pittsburg.

W. W. ATTERBURY, J. R. WOOD, General Manager, Pass'r Traffic Manager. GEO. W. BOYD, General Passenger Agent.

BELLEFONTE CENTRAL RAILROAD To take effect May 21, 1905.

Table with columns for WESTWARD and EASTWARD, listing stations and times. Includes stations like Bellefonte, Coleville, Morris, Whitmer, Lime Centre, Hunters, Fillmore, Waddle, Krumrine, State College, Struble, Bloomsdorf, Pine Grove.

Trains from Montandon, Lewisburg, Williamsport, Lock Haven and Tyrone, connect with train No. 5 for State College. Trains from State College connect with Penna. Railroad at Bellefonte for points east and west. F. H. THOMAS Supt.

INSURANCE AGENCIES.

W. H. MUSSER, General Insurance Agent. Notary Public and Pension Attorney. BELLEFONTE, PA.

S. E. GOSS, SUCCESSOR TO JOHN C. MILLER. FIRE, LIFE AND ACCIDENT INSURANCE. REPRESENTS SOME OF THE BEST STOCK COMPANIES. 2nd Floor Bush Arcade, Bellefonte, Pa.

HARRY FENLON

Successor to Frederick K. Foster and Wm. Burnside. FIRE, LIFE, ACCIDENT AND TORNADO INSURANCE. BONDS of every description.

TEMPLE COURT, BELLEFONTE, PA. 2-42 ly

Jno. F. Gray & Son

Successors to GRANT HOOVER. Insurance: This agency represents the largest Fire Insurance Companies in the world. We are prepared to write large lines at any time.

Life and Accident Insurance, and Surety Bonds. Call on or address us at Crider's Stone Bldg, Bellefonte.

E. K. RHOADS

At his yard, opposite the P. R. R. Passenger station, sells only the best qualities ANTHRACITE AND BITUMINOUS COALS. Also all kinds of Wood, Grain, Hay, Straw and Sand.

Superior Screenings for lime burning, Builders' and plasterers' Sand.

TELEPHONE CALLS: Commercial, No. 68; Central, No. 1321

SAVE TIME! Use Rubber Stamps!

We make all kinds. BELLEFONTE STAMP WORKS, 2nd Floor, Oriders Exchange, Bellefonte, Pa. WRITE FOR CIRCULAR. 137

Dr. J. J. KILPATRICK, Dentist, Bellefonte, Pa. Temple Court, over Postoffice. Special attention given to artificial plates. 1343.

The House of Kuppenheimer

WHEN you see a well dressed man—a man whose clothes attract your attention—not because they are extreme or showy, but simply because they look well, look neat and stylish—you may know that man understands clothes buying. It may not mean that he has gone the limit of expense, but simply means he has used good judgment, and that leads you to our stock of Kuppenheimer Clothes.

Fall and Winter styles 1905-1906—the latest and newest things in Men's and Boys' Clothes—Kuppenheimer Clothes—are being shown by us.

MONTGOMERY & CO.