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EARTH MAY MEET ONE OF TWO FATES

Scientists Divided as to Whether Our Planet Will Freeze to Death or Become Too Hot to Support Human Life.

The decrease of the earth has from time to time caused much discussion and argument in scientific circles. There are two theories that are diametrically opposite, one holding that the earth will freeze to death and the other that it will become too hot to live upon. Both of these have good reasons, and if both causes to produce these effects go on simultaneously the life of the earth will doubtless be prolonged a few million years on account of the canceling effect.

Now the theory that the earth is constantly becoming hotter is based on the fact that whenever any kind of energy is transformed into another kind a certain amount is always lost in the form of heat. This is an electric motor where electric energy is turned into mechanical energy the motor becomes hot. In the reverse process where mechanical energy is transformed into electrical energy by means of the dynamo a certain amount is changed into heat. So all machines come under this argument, as it is impossible to build a machine that will not do this.

MANY CAUSES OF HEAT. Nearly all natural phenomena cause heat. The waves breaking on the shore, the rain falling on the ground, the rivers running to the sea all change their kinetic energy to heat energy to a great extent. Things happening in everyday life tend to a like direction. Every time the foot touches the ground in walking, every time a car wheel turns on a rail, every time a hammer strikes a nail there is evolution of heat. It is easy enough to change mechanical energy into heat, but by no means in our power can we change all the heat back again into mechanical energy.

Thus it can be readily seen that the earth is, indeed, constantly growing warmer from these causes, and as it is absolutely necessary that the energy transformations must take place, it is not hard to conceive that a time will come when nearly all of the energy will be in the form of heat. We are, therefore, compelled to believe that all the mechanical energy of the universe is being gradually but surely changed into the form of uniformly diffused heat. If this be true, then all the available energy of the universe will at last be reduced to a point where the existence of human beings would be impossible, not only on account of the high temperature, but on account of the lack of availability of the energy present to do useful work.

CLIMATOLING ITS ATMOSPHERE.

Now, the other theory has just as good reasons. As is well known, the heat that the earth receives from the sun is radiated into space by the earth. The only thing that keeps the earth from radiating it off too rapidly is the atmosphere. That acts as a blanket and holds the heat in. So if we lose our atmosphere, as the poor old man has already done, as soon as heat is received it would be immediately lost by radiation. Well, it is a fact that we are losing our temperature by bits, and it is only a question of time when we shall have a very small amount compared to what we have now. Of course, it will take several thousand, or million, years, but it is true, just the same.

Another thing operating to this end is that the sun itself is gradually contracting and growing colder. Consequently we will, as time goes on, receive less and less heat from the orb of day. But as the contraction of the sun amounts to only a very few feet in a thou-

TOLL OF WATERS.

TWO SISTERS DROWNED AT SARINIA WHILE BATHING.

Two Drowned in the Strait of Canoe, N.S.—A Triple Drowning in Lake George—Body of Port Arthur Boy Found.

Sarnia, July 16.—Ensign Bertha Brace, of the local Salvation Army Corps, and her sister, Miss Daisy Brace, of Boston, met death by drowning this afternoon about 4 o'clock in the St. Clair River, just below Sarnia. The young ladies, accompanied by Miss Cooper, of the local Army, were spending the afternoon by the river and the two sisters were bathing. Miss Daisy, the younger sister, was an expert swimmer. They had been in the water about five minutes, and were splashing about with their arms clasped, when they slipped over the channel bank into deep water and disappeared. Miss Cooper called for help, but no one was in sight at the time. Robert Harrison, a chainmaker from the Standard Chain Works nearby, and others responded, but the bodies had completely disappeared. Miss Bertha Brace came to Sarnia this spring. Her sister arrived from Boston two weeks ago. Their mother, Mrs. R. K. Brace, resides in Charlottetown, P. E. I.

TWO DROWNED AT PORT TUPPER.

Port Hawkesbury, C. B., July 16.—A double drowning occurred at Point Tupper today, the victims being Clarence Peeples and Daniel Ryan. The latter, with Frank Moore and Joseph McEachren, left here in a sailboat for their homes at Mulgrave, N. S., and soon after they started the boat was capsized. Moore and McEachren were saved by clinging to the upturned boat, but the others sank from exhaustion. Both bodies were recovered.

THREE DROWN IN LAKE GEORGE.

Glens Falls, N. Y., July 16.—Within sight of friends, who watched them from the shore as they battled with the waves of Lake George, Rev. John Laubheimer, of Albany, lecturer of the Grand Lodge of Free and Accepted Masons of New York State; Hiram Philo, of Glens Falls, and Joseph Hanson, of Wilmington, Del., were drowned last night by the capsizing of a 32-foot gas-line launch. Philo was an engineer on one of the Lake George steamers, and Hanson, a negro, had the launch in charge.

PORT ARTHUR BOY'S BODY FOUND.

Port Arthur, July 16.—This morning the body of Arthur Strachan, the fourteen-year-old son of J. Strachan, an employee of the street railway, was found in Booth's dock slip. The lad had been missing since the 7th inst., but as he was in the habit of going away on fishing trips and other vessels without telling his parents, his absence caused no alarm, until the dead body was located. No inquest will be held.

COTTON MARKET.

Boll Weevil Report Causes Remarkable Break.

New York, July 16.—One of the most remarkable breaks in the history of the New York cotton market occurred today as a result of a special report on the boll weevil situation by the Government entomologist, Dr. Hunter, to the effect that the present status of the weevil is not so bad as at the same time last year, and that dry weather is destroying 50 per cent. of the weevils. At the end of the decline cotton for new crop delivery was selling at \$2 a bale less than the closing price of Thursday.

The break was marked by panicky liquidation and intense excitement, such as has seldom been equalled except in times of complete demoralization.

Within half an hour prices declined fully 35 points, and while the market recovered a few points of the loss, the close was barely steady, the general nervousness of the traders suggesting a thoroughly unsettled state of sentiment.

The decline of today was the same as the culmination of a gradually increasing lack of confidence in the stability of prices.

Upon the publication of boll weevil statistics, liquidation reached record-breaking proportions, and the decline was not checked until December contracts had sold at 11.92 47 points below the closing figure of the previous night, and 95 points (\$4.75) per bale below the high record of last Tuesday.

There was a slight recovery later, with December closing at 11.50 bid, a net loss of 36 points for the day.

ACCIDENTAL DROWNING.

Sheriff Thinks Enquiry Into Aylmer Fatality Unnecessary.

Ottawa, July 16.—"I don't think there will be any arrests made," said Sheriff Wright, of Hull, today when asked developments would follow in case of the drowning of Misses Jennie and Dorothy Green, who occurred during the early hours of yesterday morning in Lake Deschenes, opposite the Hotel Victoria. "The girls apparently were as much to blame as the young men," their father, James Green, of Richmond, Ont., will demand an investigation. Efforts to find the bodies have been unsuccessful.

EARLY CLOSING.

Montreal Light Co. Will Test By-law in Privy Council.

Montreal, July 16.—The Montreal Light, Heat & Power Company has come to the assistance of the retailers of Montreal, and will supply the money required to go to the privy council in an endeavor to have the early closing by-law, passed by the City Council, declared ultra vires.

The light company would be one of the heaviest losers if the by-law were to go into force, as all retail merchants would be forced to close their stores at 7 o'clock night a week, just the time when the light company secures the largest proportion of its business.

HANGED HIMSELF.

Nelson Varedy Confined at Brampton for Insanity.

Brampton, Ont., July 16.—Nelson Varedy is dead in Brampton jail. He was confined on Saturday because of insanity. During a violent outburst about 2 o'clock yesterday, Jailor Wilson locked him in the corridor. At 4 o'clock he was found hanging against the door. Varedy had tied a towel to the handle of the door, made a loop and strangled himself. His knees were touching the floor.

Corner Lawson has named a jury, and will hold an inquest.

MODISH LITTLE MAID



Sheer linen of a fine weave is high in price, but cheap when one considers its durability. Laundering is a breeze, but to add to its beauty, and it is, therefore, popular for little girls' frocks.

The dress worn by this small girl is simple, dainty and unique. It is very easily constructed, being cut after the kimono fashion, without seams on the shoulders. The only seam in the little dress is the one under the arm. The only trimming it seems to require is supplied by the large buttons down the bias front and on the sleeves.

The chemise worn with it is of all-over embroidery.

The hat is a mushroom shape of soft white straw trimmed with black satin ribbon and pink roses, and white hose and patent leather slippers are worn by this dainty maid.

GLACE BAY

(S. I. C. in Canadian Courier.)

Glance Bay, which, jointly with its fourteen mile distant neighbor, Sydney, has been so much before the public eye within the last few months, is, above everything else, undoubtedly a region of coal. Very many years ago the French, who were among the earliest settlers in Cape Breton, realised that rich coal mines abounded on the island, and as early as 1718 we read that the fuel used in Louisbourg was brought chiefly from Morienne, now known as Cow Bay.

(What a pity that all over Canada, so many of the original expressions and often euphonious French or Indian names have been or are being Anglicised into harsh and commonplace titles!) The name Glance Bay (Bay of Ice) is also an inheritance from the French settlers.

It is now, however, more generally pronounced to rhyme with "race". For about seventy years, from 1758 on, the mines were worked in a fitful and unsatisfactory manner, but not until 1865 was any really active interest taken in the operations. In that year, Mr. E. P. Archibald and others developed the coal fields, and then called them Glance Bay, as it was then called.

But it was in 1893 that the Dominion Coal Company took hold and that date is still known as "the year of the boom." Up till then, the population consisted chiefly of Scotch and Irish, the descendants of those families who had emigrated about 1820. Hardy, thrifty and frugal, these sturdy people managed to make a comfortable living by fishing and farming, little dreaming of the vast undeveloped wealth around and underneath them. But with the boom the development of the vast coal fields began on a large scale, and to-day, Glance Bay is the headquarters of business in New Aberdeen, Bridgeport, Caledonia, Reserve, Lingan and Waterford all testify to the success which has resulted from the mining operations carried on by the Dominion Coal Company.

The population has grown from a few thousands to between eighteen and twenty thousand and the nationalities represented are numerous and diverse.

As many as eight thousand miners have been in the employ of the Dominion Coal Company at one time, and no less than twelve collieries have been opened and worked. Of these, No. 1 is the oldest and the standard of the mine is one of the largest in the world, and surely it may also be termed one of the most famous, for in it lies the Phelan seam, rendered notorious by the great Steel and Coal dispute, so recently settled by the decision handed down by the Privy Council.

Glance Bay has good electric light, an excellent sewerage and water system, the main streets are paved with bituminous and there is an hourly service to Sydney.

The town itself has little to recommend it from the standpoint of natural beauty, chiefly owing to the absence of trees, but the climate is vigorous and bracing, and there is good bathing at Lingan Beach, and a view of the board Atlantic both pleasing and picturesque. And if the immediate surroundings of this great coal region are not, especially here, there is, at Mira, a few miles distant by rail, one of the most lovely and delightful summer resorts in the whole island of Cape Breton. There, one can have fishing, shooting, boating and lathing, and board at a reasonable figure.

A Millionaire's Pearls.

At the time of M. Chaudard's funeral, the newspapers made reference to a wonderful waist coat, buried with him, ornamented with pearl buttons, which, according to some accounts, was worth 500,000 francs and to others 500 francs. It had actually cost M. Chaudard nothing at all beyond the cost of making up.

It seems, says the London Globe, that some seven or eight years ago, a distant cousin of the millionaire opened a shop not far from the great stores of her relative, for the manufacture and sale of mother-of-pearl jewelry; and, in the hope of inducing M. Chaudard to "push" the sale of her goods, sent him some sample "pearls," which he wore, imitations as they were. This was the wonderful waist coat which was buried with the late M. Chaudard.

Rev. John B. McLaughlin, R. A. pastor of Dufferin Street Baptist Church, Toronto, has been accepted by the Foreign Mission Board for work among the Telugus of India. It is expected that he will sail early in October.

Mr. Victor S. Clark, a United States Government official, is in Kingston investigating the working of the Lemieux Act.

HIT BY BOLT.

MOTHER AND CHILD BURNED BY LIGHTNING AT HAILEYBURY.

Man Was Thrown to Floor—Large Mirror Splintered in Lower Room Where Two Other Persons Were Sitting.

Cobalt, Ont., July 16.—Surrounded by flames caused by the building being struck by lightning, two families in Haileybury yesterday managed to escape without serious injury. About 7 o'clock, when an electric storm was at its worst, a vivid flash of lightning struck the cement chimney of a house occupied by Mr. and Mrs. Dufresne, broke the front upstairs room and broke out the opposite wall of the building, scattering shivers of wood in the street.

In the front room, when the lightning flashed through, were Mr. and Mrs. Vanopphen, a Mr. Burnett and their eight-year-old daughter. Mr. Burnett was thrown to the ground. Mrs. Vanopphen threw her arms around the child and was severely burned about the hands, while the little girl's fingers were seared by the lightning. The fire broke out in the room, but was extinguished.

Down below where Mrs. Dufresne and her sister were sitting, a large plate glass mirror was splintered and the bolt seemed to go through the kitchen floor. A lady, who was staying in the house next door, felt the current scorch her face.

ARTIFICIAL COFFEE.

European Firms Make It In Vast Quantities.

Paris, July 16.—According to the statistics of a Paris paper, which has been investigating the subject, there are no less than 100 factories in France for the manufacture of artificial coffee. These factories turn out 24,000 tons annually, while there are 668 such establishments in Austria-Hungary, including 412 for the manufacture of coffee from figs, and in Germany nearly 15,000 hands are employed in the trade, and the annual output is 100,000 tons. It follows that a large quantity of "coffee" which we drink has not an atom of the real berry in it. The list of substances out of which it is manufactured is alarming. Cereals soaked with beer, brandy or rum, chestnuts and horse-chestnuts, hares, carrots and broad beans, carob, dates, and, finally, the hard core of cod. The annual output of what is charmingly called "fanciful coffee" for Europe is estimated at over 257,000 tons.

A BAD CASE.

Italian Professor in Toronto Arrested For Serious Offence.

Toronto, July 17.—Carlo Cattapani, known also as Professor Cattapani and known also as Professor Cattapani and has been about eighteen months in Toronto, was arrested at his tent on Toothpick Point, Toronto Island, yesterday morning by P. C. Miles as a result of statements made by several young boys, who had been invited by Cattapani into his tent.

Cattapani was brought before Magistrate Kingsford and charged with a serious offence. The prisoner desired to obtain the assistance of Mr. T. C. Robinson, K. C., who was not in court, and the case was remanded until the 23rd inst.

The police authorities state that one of the boys taken by Cattapani into his tent is so seriously injured as to require medical treatment. Rumors of several other cases are being investigated.

Cattapani was understood to be the representative of several of the leading Italian newspapers, and as such has secured introductions to quite a large circle in this city. It is further reported that he is married to an American lady of considerable means, who resides in New York.

LONG HATPINS DOOMED.

German Police Chief Threatens Arrest in Case of Accident.

Hanover, Germany, July 16.—The president of the police has issued a decree warning women against the dangers of wearing long hatpins. He points out that several deplorable accidents have occurred recently from this cause, and he announces that if in the future an accident occurs to another through woman's hatpin, she will be liable to arrest and prosecution for assault.

Earl Grey sailed on Friday for Quebec on the Empress of Ireland. Before sailing Earl Grey made a farewell speech, in which he said: "Five years ago Canada was apathetic on the question of defence. Now she is most eager."

It is rumored that Crown Prince Frederick William of Germany has given up, for reasons that are not known, his contemplated visit to England.

THOROUGHNESS IN CONSTRUCTION INSURES A

Gourlay Piano

against loss of tone, and tone is the most important factor in any piano. In every Gourlay piano, the expert knowledge of its builders, and the determination to use NOTHING BUT THE BEST, either in labor or material, produce a sympathetic richness of tone that is unmatchable among Canadian pianos.

GOURLAY, WINTER & LEEMING

66 KING STREET WEST, HAMILTON

The Right House

HAMILTON'S FAVORITE SHOPPING PLACE

All next week great reductions

Clearance sales continue at THE RIGHT HOUSE

IN addition to the regular stocks we add from day to day special purchases which our purchasers are frequently securing from manufacturers, who for one reason or another want to clear out an entire line. You reap the benefit, as when we get a bargain from the manufacturers it is quickly passed on to our customers; and we might mention that, owing to the many exclusive agencies THE RIGHT HOUSE has secured for leading makes of goods, no house in this part of the country gives its patrons so many genuine bargains. There will be no let-up next week in the pace—July clearance prices prevail.

THOMAS C. WATKINS

Right House clearance sale reminders

Ready-to-wear wash muslin dresses Nobby ready-to-wear wash suits White muslin blouses of much style Women's and children's knit underwear and children's stockings Sale of entire stock of parasols All our children's wash dresses Lovely trimmed \$5 hats \$2.19 Wash muslins, gingham, repps, etc. Muslin underwear 50c, 60c, \$1.19

Corset and blouse fronting emblems Men's negligee shirts, socks, etc. Shantung Pongee silk dresses Clearance sale of children's hats \$1 and \$1.25 Foulard silks 50c \$1, \$1.25 worsted wool suitings 40c Odd pieces Jap & Irish linen Trunk, suit case, bag bargains Hammocks, porch screens reduced Rich ivory verges 50c, 59c to \$1.38

THOMAS C. WATKINS

Japanese matting—RIGHT HOUSE qualities at reduced prices

RIGHT HOUSE importations of Japanese Matting are heavy, and although we have done an excellent business in this line so far this season we have a lot of splendid qualities and very attractive designs that we remind you very forcibly of by the reduced prices they are going at.

Small conventional designs, in red, blue and green. This is our 10c matting, now cut to 14 1/2c

Printed and interwoven designs, in red, blue, green and natural; some small interwoven patterns and shadow effects; good value at the regular price of 30 and 22 1/2c

35c, now cut to 22 1/2c

A few of these large Mourzook verandah rugs left

These fine, durable, large-size Mourzook Verandah Rugs are exceedingly durable, the design being woven clear through and being sun and weather-proof. The smaller sizes are going fast, but these big fellows must go, too; therefore, we have cut the price to a figure that means a saving in cash of just \$2.50. They were \$17.25; you can have one now for \$14.75

THOMAS C. WATKINS

Axminster rugs and squares

On sale Monday for first time

A special purchase of 43 Axminster Rugs and Squares, in rich Indian and Persian designs and colorings, also two-tone green and self-colored effects. These Rugs and Squares, while being suitable for all rooms, are especially the thing for reception halls and "dens." Come and make your selection Monday.

Size 4 feet 6 in. by 6 feet, \$5.90; real value \$8.00
Size 4 feet 6 in. by 12 feet, \$13.00; real value \$18.00
Size 4 feet 6 in. by 9 feet, \$8.00; real value \$13.00
Size 6 feet 9 in. by 12 feet, \$17.75; real value \$25.00
Size 9 feet by 12 feet, \$25.00; real value \$30.00

THOMAS C. WATKINS

Parasols reduced

The annual July reduction clearance sale of our entire stock of Parasols—this season's quite leading and exclusive styles in beautiful shadings and handles—a nice variety—at great reduced prices.

\$1.25, formerly \$1.75
\$1.50, formerly \$2.50
\$2.50, formerly \$3.50
\$3.50, formerly \$4.50
and on up to \$12.00

Nottingham curtains \$2.09

We have included over 50 pairs of White Nottingham Lace Curtains in our clearance sale to help keep the interest this second week. Four beautiful designs, some single, some double borders, plain or figured centres; 53 and 60 inches wide, by 2 1/2 yards long. These are our regular up to \$2.85 values; on sale Monday for the first time; this special reduced figure, per pair \$2.09

THOMAS C. WATKINS HAMILTON ONTARIO

BIG TUNNELS.

CEDAR FOR PENCILS.

Pennsylvania Bores Under Bergen Hill and Hudson Nearly Done.

The Pennsylvania Railroad has completed construction of its tunnels under Bergen Hill and the Hudson River into its station at Seventh avenue and Thirty-Third street, New York. The final inspection has been made by Second Vice-President Rea and Charles M. Jacobs, chief engineer of the North River division, and the work proceeds to completion to proceed with electrification, signaling and track laying, which will begin immediately and be pushed rapidly.

The Hackensack portal is 6.1 miles from the junction, with the main line at Harrison, just east of Newark, N. J. A temporary track has been laid on the embankment from Harrison to the portal, and materials for track laying will be carried over this line and into the tunnels, avoiding the inconvenience incident to carting this material across Manhattan Island.

This culminating construction work on the first two tunnels to be built for trunk line service under the Hudson River. The first excavation was begun May 12, 1905. The north tunnel was joined September 12, 1906, and the south tunnel October 9, 1906. The tunnels under Bergen Hill were completed May 7, 1908, and April 11, 1908, respectively.

These two tunnels, which are 23 feet in exterior diameter, are lined with two feet of concrete, leaving them of 19 feet interior diameter. They extend from the Hackensack portal under Bergen Hill, the Weehawken shore, a distance of 1.2 miles, and from the latter shaft to Ninth avenue, New York, 1.4 miles.

In their construction 501,935 cubic yards of material have been excavated and 1,201,000 pounds of powder used for blasting. All the subaqueous tunneling was done under compressed air, and for this purpose 3,770,000 cubic feet of air was pumped into the tunnels. In drilling operations 212,420,000 cubic feet of compressed air was used. The tunnels contain 64,265 tons of cast iron and steel, besides 740 tons of structural steel.

In bolting the segments together 2,896 tons of steel bolts were used, and 2,896 various concrete linings 240,500 barrels of cement were consumed and 170,400 cubic yards of cement installed. In addition, 4,980 cubic yards of brickwork were laid, and in the benches along the tracks 1,827,396 duct feet, or 346.1 miles, of conduits were installed.

The Toronto City Council has agreed to sell to the National Iron Works, Limited, a site on Ashbridge's Marsh. Catholic Church authorities in Toronto have purchased a block of land on the Kingston road for a religious and educational building.

Chief of Police English, of Calgary, has resigned, at the order of the commissioners.

In Warm Weather. The business woman must take extraordinary care of her health, or the long summer of work will tell on her.

The one form of precaution that pays better, perhaps, than any other is to take plenty of sleep. The time to take a good part of it is before midnight. Two hours before midnight, they say, are worth double the time after.

So, take your recreation in the evening, if you must, but take it early. It is just as easy to start out on a trolley ride, or a trip to the park a little earlier, coming home earlier, and vastly better, where such trips are frequent, for one's health and one's looks.

If every business woman could have an average of nine hours' sleep for the next two months, there would be fewer breakdowns at the end of the summer than ever before.

Nine hours seems like a good deal perhaps, but it is merely going to bed at 10, or rather being in bed by 10, and getting up at seven. Even the eight-hour regime rigidly adhered to, will do wonders in keeping one in good health.

If it is the habit of your family to go to bed late, make an effort to break through the habit, for one summer. It will more than repay you.

Raeburn's famous portrait of Sir John Sinclair was sold at auction at Christie's for \$32,500. Six years ago the picture was bought for \$75,000.