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## The End of the World.

By SIR BERTRAM WINDLE, F.R.S. (in Lloyd's Magazine.)

shown in a previous article, there is One eminent authority says that is—one of the things which is better some difference of opinion, and there "large areas in Europe and North in itself than in any picture when the is little doubt that it will have an America which are now principal end, at least, as a place of habitation centres of civilisation were buried for lying things. In this, it falls in wider glacial ice thousands of feet of the moon, but there is no reason increased enormously and I began to er has said that "the picture which some six thousand years ago. physics exhibit to us is that of the As to the cause of these glacial miverse as a clock running down, of epochs there is great difference of fers from that which is familiar to us. an ultimate physical death." We will opinion, and since it must be franknot stay to consider how the clock ly admitted that we do not know why a telescope it looks as if it had sufwas wound up, nor shall we linger they made their appearance, or why fered from a severe attack of smallever any of the suggestions which they disappeared, we have no means pox, for its surface is covered by a have been made as to the possibility of knowing whether or not another is number of irregularly distributed pits. of its being rewound; it is with the on its way; indeed, some have Some persons have suggested that the surface from lower depths by way in which it may run down that thought that another five thousand these resulted from bombardments ready conduction is, like all other we are here concerned. If the earth years may see the advent of a fifth by meteors, and others have thought waste heat, radiated off and becomes is indeed to become once more what Glacial Period. We do not seem as that they may have been the effects ineffective for all purposes. But what ft was in the beginning, a place unfit yet to have reached the maximum of of the bursting of bubbles in the about the occurrences at greater for living things, how may this take the present interval, since the gla- molten mass of the early days of the depths? Is there any radium there,

Most geologists believe that there

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THIS earth of ours had a begin- | epochs and even as to the date of the ning, whatever that beginning may termination of the last, as to which least through a pair of good fieldhave been, though as to the exact calculations should be more possible nature of that beginning, as was than as to the earlier occurrences, did and thoroughly satisfying object it shown in a previous article, there is One eminent authority says that for living things. In this, it falls in under glacial ice thousands of feet of the moon, but there is no reason with the lot of other parts of the thick while the civilisation of Baby- to suppose that the face which is hiduniverse, as to which a recent writ- lonia was at its heyday," that is, den from us but may be visible to as-

The possible advent of another shrinking. So far as we know, no of astronomers is that these pits are take place there? There was prob-Glacial Period is the first thing which glacial invasion has ever occupied the the craters of volcanoes long since ex- ably a sorting out of materials duroccurs to one. Many people have entire surface of the land, so that it is tinct. On our planet, besides active ing the molten condition of the earth's seen glaciers for themselves, and it unlikely that any fresh incursion of volcanoes, there are the remains of crust. Were the radioactive submay be assumed that those who have ice would render the whole earth un- others which have been out of oper- stances all or mostly sorted out into not have at least seen pictures of inhabitable, but nothing is more pos- ation for many years, yet which are the superficial layers? It is hard, perthem, and have a fair idea of what sible than that it might drive out all quite recognisable for what they were haps impossible, to say. One eminent they look like. Most people have life from these islands, from North heard of the Glacial Period, and will America and other parts of the world, between these and the volcanoes of culations which go to prove in the first be at least aware that there was a and ultimately entirely obliterate all the moon, but in spite of this astrono- place that if the interior of the earth period in the history of the earth traces of the great civilisations which mers are all in favor of the volcanic to a depth of only fifty miles contains when the extent of the glaciers was once flourished in those areas. Nor explanation of the features of the radio-active substances in an amount much greater than it now is, a period would there be any conceivable methduring which not only the British od of resisting the approaches of this Isles, but Scandinavia, Northern Ger- inexorable foe. Nothing would remany, and almost the whole of Eu- main but flight, and, should such a fail to strike any observer of the face be ample to make good any loss of ropean Russia as well as nearly half fate once more befall the world, there of the moon is the general radiance heat which could occur on account of of Northern America were covered would be a repetition of those scenes and brightness of the scene and the the cooling down process of which by huge and thick sheets of ice. It of emigration of human beings and of exceeding sharpness of the shadows we have been speaking. has been calculated that the thick- living things which archaeologists cast by the different elevations. This But he further claims that if the ness of the sheet amounted to about tell us occurred in earlier days. What, we may attribute to the absence of any entire of the interior of the earth was one mile in Europe, and from one to however, we are considering is not a atmosphere, a fact which is rendered as rich in radium as we know the exthree in North America. It is need mere partial or temporary episode, obvious by the behaviour of stars terior to be, then the surface of the

To begin with, then, many have suphave been four such Glacial Epochs, posed that the earth is slowly cooling of an atmosphere. No one has ever and that there is perfect conductivity separated from one another by genial down and tending towards the condi- seen any trace of a cloud over the throughout, a fact which some conintervals, such as that in which we tion mentioned in the previous paragraph. What is there to be said for of its forms on its face. In each of these epochs enormous this theory? In considering it, it will glaciers descended upon the face of be useful to dwell for a moment on clear that our satellite is incapable a somewhat misleading term to apthe earth, and, slowly moving, acted the history of the moon, so far as it of supporting anything which we ply, having regard to the fact that like gigantic planes, shaving off the can be conjectured by us. Sir George should recognise as life; in fact, it is pitchblende, which supplies more surface of the land, and depositing Darwin has shown that there was a absolutely cold, and, so to speak, dead. radium than any other mineral, only their spoils in the shape of rubbish time when our satellite was quite Yet, according to the nebular theheaps or moraines which testify to- close to the earth; only a few thousday to the happenings of long ago, and miles off, in fact, instead of some ory, the moon is composed of like ma- mind that all we know about radium There is a good deal of difference of quarter of a million. Perhaps it may

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for living things as we know them.

of matter by our rapidly rotating planet. At any rate, the moon and the earth seem to have been close to one other and to have rotated togethr as if they were parts of one rigid ody, so that the day and the month vere then of the same length, namely,

It may be assumed that the moon then possessed an atmosphere similar to ours-a point of some importance. that it slowly receded from the earth present condition, when the lunar also informed that the day is slowly growing longer, like the month, but more rapidly. After the lapse of many years the day and the month will once he more become equal, but instead of being only a few hours, their joint period will be about fifty-five of our present

glasses, and will know what a splenis-one of the things which is better tronomers-if any then exist-mil-

When the moon is examined through ciers of to-day still seem to be moon. The general opinion, however, or do any radio-active manifestations

less to say that human existence was vast though it might be, but the end when the moon passes in front of earth ought to be a great deal hotter impossible in those arears and at that of the world as a place of habitation them, and without any of that previous dimming which would occur if um in these deeper regions can exert they had to encounter the influences the same effects as in the shallower,

As it glows with no light of its own. but only with the reflected radiance observers. gested that there is likely to be any manner indicated. Hence the question arises as to whether what has happened to the moon may not also happen to the earth, and that planet also cool down and lose its atmosphere and become a "has been" of the skies.

Such, in fact, was the fate predicted for this earth until the discovery of radium and radium-activity came to disturb things here as in other corners of the scientific field. Hence,

**Nothing Else** Ever Helped Him, Says Bob Young

Was All Run Down When He Began Taking Tanlac-Gains Twelve Pounds.

then possessed an atmosphere similar to ours—a point of some importance, since it has now none. To complete the history of the moon, we are told that it slowly receded from the earth—the length of the month becoming proportionately greater and that of the day also—until things came to their The Daily Star, and his case is still month occupies 27.3 days. We are that Tanlac is a most powerful re-also informed that the day is slowly growing longer, like the month, but a state of the the state of the transport of the tra tative and gladly assented to their eing published.
"I have been more or less sick fo

about a year, and really was com-pletely run down. I had no appetite will be about fifty-five of our present and scarcely ate enough to keep me twenty-four hour days. When matters have reached that stage the moon was when I tell you that I only will begin to revert slowly to her first position, and will finally return to the earth from which she may have when I tell you that I only weighed a hundred and six pounds. I couldn't sleep at all well at night, and I never seemed to have enough strugth for the day's work. I was losing all interest in life and selt that t wouldn't be long before my folks collected my life insurance money. I tronomers. Now let us for a moment didn't consult a doctor because consider the present condition of the didn't know there was anything demoon. Most people have looked at it, finitely wrong with me. I just had no if not through a large telescope, at good medicine to give me

strength.
"I 'tried quite a number of tonics but they didn't seem to meet my need. Hearing that so many people the present I have ...ctually gained lions of years hence in any way dif- I am only too pleased to speak of my

Connors, and by the leading Druggist

once. There are marked differences observer has made a number of calproportionate to those of the sample Gazing upon it through a telescope, of the crust which he examined, the one of the things which can scarcely heat which they must generate would

moon, nor any effects of water in any sider to be very doubtful.

In this connection it may be well to From these things we may feel quite remind readers that "rich" is perhaps contains one part in every four mil ory, or even the most meteoric the- lions. Further, it must be borne in terials to those of our earth, of which, and radio-activity is but of yesterday, opinion as to the dates of these have been actually detached from our as we have seen, some have thought and that doubtless there is far more that it may once have formed a part. yet to be found out than has so far come to the knowledge of scientific

of the sun, we cannot examine it Suppose, however, that there is spectroscopically as we can those radium at these lower depths, and heavenly bodies which have their own that it there displays the activities luminosity, but no one has ever sug- with which we have become familiar in recent years; and suppose again marked difference of composition be- that there is not perfect conductivity between it and the other heavenly are not impossible according to those ter and hotter. bodies which have been studied in the who have studied the matter, what then?

The result of that state of affair would be that some of the heat evolved must be stored up where it is pro-

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That is not a process which can go sor Joly, whose interesting calculations as to the bearings of the saltness of the sea on the question of its age were dealt with in another article, has also been exercising his ingenuity in this matter.. He calculates that if there are two parts of radium and the corresponding uranium in every million millionth parts of the globe-and that is less than the average found in the surface materialsthe temperature of the globe must increase by 1,800 degrees C. in one hundred million years. What that means is that at some point or another the world must explode and burst into bits. When that event would take place would depend upon the resisting power of the crust, but it must come sooner or later.

Why has it not come before? Some would say that it has happened before, perhaps more than once; that is to say, that some pre-existing body has burst into fragments which, reinforced or not by meteoric fragments, have solidated once more to form our planet. Overcooling or overheating such seem to be the alternatives Vhich-if either-is the true solution

duced, and thus must be making the he would be a very rash or a very millions of years with which g tween the earth and its satellite, or or anything like it, all of which things bowels of the earth progressively hot- wise man who could say to-day. It gists delight to juggle. It is professively does not concern us nor our children that we may experience another nor their children, for either of the cial Epoch, perhaps even several s on for ever; that is obvious. Profes- events is spoken of in those terms of epochs, before the final curtain.



though the cooling down theory is not Fresh Green Cabbage. Toronto, a large shipment finally discredited, there is another and very widely differing theory which is put forward by those who have made a study of radio-activity. MOIR'S CONFECTIONERY-1/2 lb., 1 lb. and 5 lb. bxs. This we may now briefly consider. KILLED and Bar Goods Radium-though no doubt in very minute quantities-exists in most of New stock and very fine full selection on hand. the solid materials of the earth's crust, HOOTON'S BARS and MAPLE BUDS. and radium is capable of disengaging a good deal of heat; it can, in fact, produce sufficient heat every hour to raise its own bulk of water from freezing to boiling point. Moreover, it is not the only radio-active substance known. The process of radiation must have been going on for a long C. P. EAGAN, Duckworth Street & Queen's Road

time, but there is no obvious sign of its coming to an end. The heat thus produced at the surce, as well as that which re