t.ave four ellipticul funnels, each 2 a
f.et in dianjeter. Her freboard will fcet in dianeter. Her freeboard will be nomewhat greater, being sbout 52
feet at the bow, 45 feet to the level of fert at the bow, 45 freet to the level of
tho nain deck, 62 fret to the boat deck the main deck, 62 tret to the boat deck
amind hips, and 42 feet at the atern. A atriking novelty will be the provision of a single pole mast forward of the bridge. At 35 feet draft the roosi of the pilot house will be 70 feet above the water. Nu attempt will be made to emulute the spered of the famous c'manders, the 4.5. (0x) hurse-power e:iginem sufdicient, culling for 21 kuots seas specd.

## An Ingenion: Agricultarint.

Col. Frank Tonvelle, a runcher living near Medford, Orepun, is said to have
 seis sun, whirle result hats beren anchireved the strawlerry vine. Alfalfa roots deep1y, and prodicex thire to five erops a your without irrigation. It oceurred to
him that strawberios might do the sime if the vine conda he made to extend down far chough, so as to rereive moist.
are from the suil throughout the scason.

## The Poinon of the Borgias

Dr. Jarnt, of the Angers Medical arhori. Nitime to hive diseovered the Burgins. Two puisons, apparently, were

The Romance of the Earth.

## (Specially written for the "Weekly irrphic " by F.R.G.S., ete.)

What a marvellous history is that of our little planet barth, and bow few, amind the excitement of horse-racing, proverbial "two such things, care the very few ever pause to think of the "Romance of a stone," picked up at randon from any river-bed; to how few the history of New Zealand-carved in the arehives of those faithful historians, the mountains, plains, and rivers-appeala! leople, in fact, have no conception of the extreme age of the basis of this country, rephete with information to those who will only take the trouble to read and understand-praying to that Royal Arch
Frepmason of the Supernal Whole the Fivemas Arelitect and Mathematician, for guidance and light. Fiat lux! What a nieaning in those words: Let the ecales maliang from our eyes-behold!-and read our theoren of the past.
(1) Nearly a thousand millions of years ago this planet was hurled off from the sun by a propess akin to that of the disintegration of the radium atom, and at once legan to spin on its axis with the amlazing velocity of two rotations per hour. It was then in the vaporous state salidify, while the rate of rotation slowed down-and internal fires and inherent


GROWTH OF THE TRASSATLANTIC STEAMSHIP FROM 1840 TO hing.
This is the conerinet borse power and epeed.
nacd, one slow and the other rapid in operation. The former appears to have bern arsemisus afid. wommonly hown as and therefore ants slawly, while the Quick peisenis was probably une of the solQubk pesmin was probably one of the solshmest instantanemusly. It is, not, how-
 arswnic. to the pitomaines of putrcfaction or to luith combinmel.

Largest Dry Dack in the World.
The contract has bern awarded by the Navy Drpartmant to the Sing Framitioco liricles company for the construction at Jeart Harlour. Hawaii, of what will be the largent dry dock in the world. The manonty and rement portion of the dork have bren drawn for a complete gyateni of have bren drawn for a momplete gyatem of
defrnce for the harbnur, and the onndefrnction of thace defercen and of the 2relk will proceed simultanemal.
forces caused eruptions and upheavals the extent of which it is difficult to grasp. inned, and when the Farth had evolved sufliciently to support human life, the soul-wave of mankind was transferred by etheric vibrations from a planet or sub-planet that could no longer support it, and that plamet was probably the moon
(3) When this took place the equator probably cut the ectiptic at right augles, and the poles of the ecliptic and those of the Earth coincijed, giving alternately a verlical and nadir sun at the North and South Poles.
(4) Croll's law of eccent-icity of orbit and also precession operated, and enor: mous periods of time were involved in the process.
(5) When the first creatures zame by electric operation, whence evolved main, the elongated earth's orbit, the focus of the elongated earting orbit, the $8 \times 18$ was horizontal, or nearly no (inatead of twothe ummer soistice of the northern
hemisphere was vertical at the North Pole, where, during the opposite seabon (when the earth was traveling more rapidly), was a shart, dark, steamy and reeking tropic winter, analogous to a night on the banks of the Ainazon.
(6) The human life-germ-be it under-stood-first, we maintain, inhabited the polar north, and from these areatures whs developed the great Iembrian or preAryan root-race about $18,000,000$ yeara ago, and from them the rest of mankind. Lemuria, whici was the most ancient continent, was thus the cradle of the human race, and was so-ealled on account of the monkey-like animals, early man, that first irhabited it. It extended from what is now Sipitzbergen acros, Centril Asia and the Japanese and Malayan IsInnds to the Carolines, Tonga, South. Fastern Australia, and New Culedonia; and not only so, but it covered nearly the whole of what is now the Suath Pacitic, thus embracing New Zealand, Fiji, Rarotonga, Tabiti, and Easter Island; and a kind of huge peninsula linked it up with Antarctica, and probably also Tierra del Fuego. Another huge Lemurian peninsula took in Southern India and Ceylon, and extended south-westwa dis to Madagascar and Fast Africa.
(7) In those remote times nearly the whole of the Southern Hemisphere was glacial, save for a brief tropic summer, when the melting of the ice caused such flooding as accounts for many a ravino in the New Zealand of to-day.
(8) Further tremendous periods of time elapsed, and conditions became modified, and later totally altered, by the operation of what is known as Crolls Law. The sun thus became in the right-hand focus of the ellipse, and the once genial Northern Hemisphere then became glacial, save, in turn, for ics brief tropic summer. In this case, as in paragraply 7 , it will be understood that the eceumulation of the ice in the two hemispheres, during the long winters respectively, far overlong winters respectively, fir overpole, but while the vertical sun operated in this case as in the other, the floods and erosive action of the melted ice carved in no small degree the gorges of Bitain and Northern Furopo, and were mainly responsible for the Bunter conglomerate, an ally of which is found in Southern New Zealand.
(9) In consequence of the growing north. ern iec, the pre-Aryan root-race was fored to migrate to the Southern Hemisphere, which had then becone genial asross that old romantic lanh, Lemuria and from it, by Mongoloid migrations, devoloped the Moriori Polynesian and the Maori history is one of absorbing inthe Maori history is one of absorbing in-
terest in connection with the subsequen lureaking up of Lemuria. Think of the lrumang tooth which we have seen alleged to have been found in the Whangarei limestones
(10) The Euster Is'and statues are representative of the root-race, and the inserjptions on the rocks in Easter Ibiand which have been translated confirm and practieally deseribe the increasing cold in the Northera Hemisphere, and the migration aforesaid.
(11). The megalithic or anclent stona
track route from Ireland and Western track route from Ireland and Western Europe, timrough Portigal, Egypt, India, Mongolia, Japra, Javil, the Chrolines, Tongs and New Zeilland, onward to Tawith the foregoing; and remember the humar remains liately discovered in France, which date back from 200,000 to 500,000 years.
(12). Hence the information given by Egyptian priests to Heredotus that the sun did not always rise and set where it does now was, we are of opinion, correct.
(13). Owing to the Earth cuntracting intermally, and to changes in eccentrieity and climate, Lenuria became broken up Fire and ice were the dentroying factors and from the force thus let loose equili and from the force thus let loose equiliaxis was shifted to an irclination of about two-thirds of a right angle, as now. Yet regular axial ehange also operated aq indicated in paramraph 15 . This was probubly $4,000,000$ years ago. And New probably $\mathbf{Z c a l a n d}$ is ever to ancient, and is a rem nant of the old Lemurian contincnt.

- (14). The tattooing of the Miroris on their faces and on canoes has doubtleat come down through enormous uges; through Mongotoid and Aryan nources; and polar regiong when the avia of the Farth polar regiontal to its orbit Snikes on bouses have a pre-4ryan aripin, pilid refe to ancient sun-woruhip, and it must be
recollected that Europeang art en of ahoot of the old Aryan stock.
(15). Be it ever.remembered that axial seculur change ia, we ere sure; a fuct, (apart froms precespion and eccentricity) with respect to climatic variationa and zones on a grand scale, and may be likened to the regulator of a watc!?. The next axial ghift will probably be when the great snow and ice cap near the South Pole carries away, as give way it must in time, for while it is accumulating it is also being undermined very gradually but ever so surely by the comparatively warm northerly winds southerly blizzards experienced by Lieutenant Shackleton. When this takek place - rome thousand or more years ahead-auch a tidal wave will tear up the Atlantic will in a great measure swanp Western Europe, Sir Joseph Ward will then have been forgotten. Thus Ward will then have been forgotten. Thus axial changes may be sudden and also regular; and we aftirin that there is an sctial motion of the poie among the slout blars, apart from precession, of slout three minutes of arc fer century, which is enough to carry the poles through a complete revolution in 120,000 limile of ablicuity, as alleged by Ia plece humits of obrigity, as alleged by La Place have been obtained frami erroneous pre-
misem, and are, we maintain, without any misens, andion are, wet.
foundatin
(16). Bearing in mind what has beea said, and also ragular axial thift temporarily masked by sudden disturbunce of equilibrium, all geological, climatic and ethnulogical changes at once become clear, and the history of the Farth can be read like an open book through the long ages past; while the existence of remains of tropical flora and fauna near the polar circles is no longer a mystery.
In considering the forpgoing, wbich wint set people a-thinking, we must not forget ancient records - apart from the light thrown on the matter by the ingeriptions of Easter Island. From earliest times the old scriptures of the world have referred to the inversion of the terrestrial poles through vast periods. Thus there was also a time when the axis of the Earth would have been directly upright to the ecliptic, and there would have been constant spring, the intensity of which would only be modified by change of latitude. The Zoroastrian sacred books particularly refer to this, and to the constant Spring of Airyaing Iaejo, and tha Yarsee Vendidad confirms what has been enunciated, likewise the Dendera Zodiag of the ancient Eryptians.
Finally, it is maintained that La Placs did not adequately prove that the inclination of the equator to the ecliptic is alwaya practically the same; and we say that the inclination of the poles to the plane of the orbit increases and decreases through long cycles or ages, and that there was a time when the altitude of the pole could have been neasured from Delta Ceti. For Polaris and Sigma Octantis will not always be pola stars, and "there are more things in heaven and earih than are dreant of in our phitosophy." Of course, in some circles wa shall be deemed a " beretic" and a fit subject for electrocution with Baracchi of Melbourne, Lord High Executioner, Hunt his assistant, and the "gentle Bates" ministering spiritual comfort. But let either of them prove that our dicta are wrong.


A "Skipper" Sardine is a Sardine with a personalityl How different are "Skippers" from ordinary Sardines! More dainty in size-more delicious in flavour. Ask gently but firmly for"Skipper" Sardines.

Newcastle-ou-Tyne, Fingland.

