WEEKLY SUN, ST. JOHN, N. B., DECEMBER 19, 1894.

A VALUABLE PAPER.

"Some Evidence of a Glacial Epoch;" by Charles R. Fisher.

Read by the Author Before the Natural History Society, St. John, October 9th, 1894.

This evening it is purposed to give some account of that comparatively short, but remarkable, recent geological was much higher than now, and high time, known as the Glacial Period, or Great Ice Age. The immediate reason for the moisture, causing it to fall as for giving this description is because snow, in sufficient quantities for we have before us a quantity of the glacier building. material, accumulated by ice action during that period. These specimens were found in England, not in Cana- Croll and others, have been of much da, although in many respects, the value to geologists, by giving them northern portion of America is un- data which shews that a much doubtedly one of the finest fields ex- lower temperature was probable at the tant in which to study the phenomena time assigned for the glacial period. resultant upon Glacial action, and es- This, at any rate, would be the case pecially is this the case in the vicinity in the northern hemisphere. Then of St. John. Above your Canadian we have the suggestions that the Drift you often find clays of a more warm ocean currents were so deflected dces, after all the great deposits of or less grey or reddish color, known from the countries whose climatic the Tertiary Age were laid down. as the Leda Clay, so called because rigors they now so much modify, that Prestwich gives about 25,000 years, as amongst other marine shells, the Leda | a great change of temperature would Glacialis is found extensively in it. ensue. As an instance :-- If the Gulf of ice. Examples of this clay are to be found Stream were to have its course turned, along the coast of the Bay Shore, say into the Pacific Ocean through an opening in the Isthmus of Panama. near Fort Howe, in the valley between St. John and Portland, (St. John | London would have a mean temperanorth) along the Red Head Road, in | ture about 40 degrees below the prethe Horticultural grounds at Seely sent one. street, and elsewhere. This clay is The prevalence of certain winds undoubtedly of sedimentary origin, might prove another possible factor; and one which accumulated very though these would probably be the quickly, probably at the time when result of a changed temperature, rather the immense amount of glacial ice than the producer of it. was re-converted into water. I am I have, of course, only touched upon not aware that the equivalent of, this the possible causes which might aid is found in England, though some of in bringing about the epoch of frigithe Eastern counties' Boulder Clay dity; to attempt even to sketch out contain many broken portions of the different theories, would need marine shells. much more time than I now have at Our president, Mr. Matthew, is such my disposal. an authority upon all connected with | The particular specimens brought to geology in this city and province, that | illustrate the subject of this paper, will not attempt to give came from what is known as the any account of the evidences in the Upper Glacial Boulder Drift. immediate vicinity of St. John, which were collected from that deposit during

tend to prove that at one time this entire region was covered with ice, perhaps to a depth of from one to two thousand feet. My work in this special England. field has been very desultory, not so much, I hope, from want of inclination as from absence of opportunity. For many interesting facts in connection with your local formations. I am much indebted to the kindness of my friend Mrs Rowden Ice action has been the formative

agent of various deposits. During the especially Ammonites, of which some Pleistocene age, accumulations were 20 varieties were collected, were abunlaid down upon the older rocks, with- ant. A piece of wood was found out any apparent order, often ending in good preservation; it was probably very abruptly, and in a manner which a portion of some Pilocene conifer. indicates the work of quite a different One specimen of Trigonia Pulchella force from any which built up the was unearthed; this bivalve has only before been found in the Upper Lias more ancient strata. The evidences of this action are found in the Boulder clay near Lincoln, some 70 miles north Clays, Tills and Gravels of the early of the tunnel. Quite a heterogeneous

Some of the earliest geologists con-

1st. There is no trace of stratification

Undoubtedly England, at the time

also. One immense glacier moved

southward, being fed by ice-streams

the manner of river tributaries. You

Why, by the contents of the clay.

The Bedfordshire drift clay is un-

doubtedly obtained in a great mea-

sure from the Liassic and Oolitic

paratively near at hand. In fact, both

are found in various localities not far

distant, the Oxford clay lying in the

portant, as the number of fossils found

in this particular drift, which are

characteristic of either the Oolitic or

from these sources.

Scandinavian origin.

may ask "How is this proved ?"

To this theory there are

Lias, and Cretaceons, to the Pleistoolder school of writers. Here is the The evidences, however, are contrast, if figures of such magnitude not definite enough to be considered can be sufficiently grasped to appreconclusive; although Sir A. C. Ramclate their import. sey and other writers, hold the opinion 500,000,000 years ago the Eozoon that there are traces of glacial action would be flourishing, according to Sir in some of the deposits of those ages. Charles Lyell. Of course, it is very The ice age which wrought upon so possible that you do not accept the considrable a portion of the earth's evidence as sufficient to show that surface, such important and remarkany organism existed, prior to the able changes, that often the entire reign of the Trilobites. Anyway, that contour was altered, took place at a is the age given when the Laurentian comparatively recent date. Various rocks were being formed.

causes have been assigned for the Young and Wallace, two more molowered temperature of the globe at dern mathematical geologists, give that time. In many places the land about 30,000,000 years only, as the time of the "Dawn of Life."

ridges of land would act as condensors Dana, in his geology, gives this proportional ratio : Palaeozoic, 22; Mesozoic, 6; Tertiary, (together with the Post-Tertiary) 2. From this you will The astronomical deductions made gather that the whole of the deposits by Herschel, Arago, and later by ranging from the Lower Eocene to the

Pliocene, onward through the Pleistocene to the present time, is only 1-15 of the geological life period. Some authorities give a much less proportionate time value than this even, for the Kainozoic age. Out of this time, only a small portion can be taken for the Glacial Period, occurring, as it the time for the existence of the age

Next arises the question: How much time has elapsed since the close of the Glacial Epoch? From Cumulative evidence a fairly near date can be attained.

The Niagara Falls form, perhaps, the best geological clock in existence, for the purpose of giving the approximate date when this period ended. It took years to work out a satisfactory result, and such men as Sir Charles Lyell, James Hall, and Woodward all aided in solving the problem. It is a very well authenticated fact that the river Niagara is of post-glacial date, as is also Lake Erie, and a large number of the Canadian lakes. Lake Ontario was probably pre-glacial, the

Grand River and its tributaries being the means by which the whole of the valley which is now Lake Erie was drained. This river course was com-They pletely diverted by ice-action, as bethe excavations made for a new railfor the ice age, it entered Lake Onway tunnel, which was being contario at its western extremity at the structed in Bedfordshire, East Midpcint where Hamilton now stands. The calculations as to the length of The organic remains, of which some time since the glacial period, are to publish the testimonials we would 55 species were found, belong almost based upon the wearing away of the entirely to the Mesozoic period, and rock at the falls of Niagara. The

consist of fossils derived principally yearly loss of rock by denudation is, from the Lias, Oilite and Cretaceous roughly speaking, some three or four formations. These are in a much feet, or even more, as it does not wear more perfect condition than fossils of evenly, hence its horseshoe form. the drift usually are. Cephalopoda, Take this length and divide into the length of the gorge, and we have a quotient giving from 8,000 to 10,000 years as the age of the river, in other words, as the river is an outcome of the ice-age, it must be that length of time since the glaciers disappeared from the Niagara district. Undoubtedly we must assume in this case that the same continuity of the volume of

work, to glean such a heterogeneous mass of debris together. 4th. The manner in which the accumulation was laid down shows a difference in the method employd, from that used to produce the sedimentary deposits. 5th. No marine life remains are found in the clay of the age in which

it was formed. 6th. Similar deposits are now actually in process of formation in some

parts of the world, being laid down by glacial agency. In conclusion, it may be remarked that it is still a debatable question, as to whether man's existence was coeval with the glacial period. It probably depends upon what is meant by coeval.

If it means with the later ice age, which occurred after the warm interglacial period, then, perhaps, the query may be answered in the affirmative, as considerable evidence has been collected which tends to show that man was in existence then, but no trace of his remains were found in the Bedforshire drift. The cave and other deposits contain evidences, such as chipped flints and stones, which seem to indicate that he may have retreated before the advancing ice which pro duced the Upper Boulder Clay.

If man's advent did not occur until after the drift was deposited.' vet the men who chipped palaeolithic stones or polished neolithic flints must have lived at a period very remote from us, if we gage the time of their existence simply by the measure of historic chronology.

A WISE WOMAN.

She was Weak. Nervous and Dispirited and Found No Benefit from Doctors' Treatment-She was Induced to Give Pink Pills A Trial and is Again Enjoying Health.

(From Canadian Evangelist, Hamilton.)

We are often asked: "Do you think Dr. Williams' Pink Pills are any good? Do you think it is right to publish those glowing accounts of cures said to be effected by the Pink Pills?" Of course we thing the Pink Pills are good, and if we did not think it right not do it. Perhaps it is not to be wondered at that people ask such questions when they hear stories of clerks being employed to write up fictitious testimonials to the efficacy of some cheap and nasty patent medicines. The Dr. Williams' Medicine Co. do not follow that dishonest practice as there are few places in the dominion where the marvellous efficacy of Pink Pills has not been proved. Their method. as our readers may have observed, is to publish interviews which representatives of reputable and well known have been benefitted by a course of

EUROPEAN POLITICS.

Role of the Prince of Wales in the Rapprochement Between England and Russia.

The New Russian Loan will be Handled by the Rothschilds-The Reported Trouble Between France and Germany-Press Scandals in Paris.

Paris, Dec. 8.-The important fact in European international politics this week is the return of the Prince of Wales to England. I am certain that the prince's sojourn in Russia has brought about a rapprochement between Russia and England.

The first proof of this is the emission of a Russian loan of 400,000,000f. through the intermediation of the Rothschilds. Up to the present time the Rothschilds had refused to handle the Russian loan, because of Russia's persecution of the Jews. The Russian government on its side also refused to enter into business relations with the Rothschilds. But, in Europe a government loan in which the Roths childs do not participate runs a great chance of not succeeding, and it was necessary for Russia's financial salvation to secure a reconciliation with this great banking house.

The Prince of Wales, who is on very intimate terms with Baron Rothschild of London, has succeeded in bringing this about, and the gratitude of both parties-of the king of the banking world and of the Emperor of Russias very great.

THE PRINCE A FRIEND OF FRANCE.

In the same way as the Prince's influence was called into play in the financial question, it has also been made use of in the political question. The Prince of Wales has always shown himself friendly to France, and the eventual entrance of France into the Anglo-Russian understanding is very

probable. This week has been an exciting one because of the rumored tension in the rlations between France and Germany. These rumors have been exaggerated and even false. There is in Europe a veritable clique of people who have an interest in starting pessimistic rumors. The American reader should beware of giving any credence to these reports, for there is nothing more ridiculous than the idea that a war is at all likely to break out just now between these two great countries.

PARIS JOURNALISTS IN TROUBLE The Paris press scandals continue, and it is evident that a clearing out of the bad elements that have found their way into the profession has become necessary. It is said that the government has decided that this time journals have had with persons who it will not interfere with the action of the courts of justice, as it did in the Panama affair. Everybody is men-Pink Pills, thus giving absolute assur-



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against the 1549 book then in use, and that Calvin and his chief friends were consulted for its composition. That this book had been aptly called by some the "Foreigner's Book." This book proved to be very objectionable to the bishops, so the young king, who had set his mind on it, threatened to force its use upon the church by means of parliament if convocation refused to sanction it. By the good providence of God such a calamity was averted by the death of Edward VI., July, 1553, when Mary, his sister, swept away all changes and restored papal jurisdiction.

I then dwelt upon the remarkable fact that in spite of the evil influence of foreign preachers and the discontent implanted in the breasts of

the rising generation the revisions of the Prayer Book under Elizabeth, James I., and Charles II., though based upon the 1552 book, were all vastly improved in the direction of the 1549 revision and were at one with it in sustaining the Principles of the English Reformation therein contained, viz.:

1. Strict adherence to Catholic consent in doctrine and practice as maintained in the earliest, best and purest times of the church.

2. Apostolic succession, with its dependent doctrine of the sacraments. I then quoted the Act of Uniformity by which the 1552 book was itself authorized to prove that even the parliament of that day felt bound to apologise for the needless substitution of it for the 1549 revision, which it upheld by the strongest possible testimony as to the soundness of its principles. That act states: (1) 'That the

book of 1549 was a "very godly order,

agreeable to the word of God and

the primitive church, very comfort-

it" were of two classes, viz., those who

lived without knowledge or fear of

God," and those who were influenced

"rather by curiosity" (the old Eng-

lish for crotchety captiousness) "than

any worthy cause," i. e., as Cranmer

styled them "glorious" people (as we

should say, bumptious or self-conceit-

ed people); or as they are described

in the preface to our present Prayer

Book, "factious, peevish and perverse

spirits given to change, who have al-

ways discovered a greater regard to

their own private fancies and interests

than to that duty they owed to the

'followed their own sensuality and

Pleistocene period. The clay sometimes has one or more layers of sand, peat, or fine clay, sandwiched in. showing either the action of water, or the accumulation of a vegetable deposit. The interlayers must have not laid down in the ordinary stratibeen caused by an intermittingly warmer climate. The peat deposit shows that a considerable period of warm weather must have intervened. for such an accumulation to accrue. as that found in this particular stratum.

Where sand or gravel is found, still upward to the immediate preit is probably consequent upon the deglacial age, represented by such beds pression of the land to below the as that of the Norfolk Forest deposit polet of submergence: this portion beof East Anglia. coming subsequently re-elevated and subject to re-glaciation. The great sidered such accumulations to be the weight and power of the moving ice result of ice action, in the form of has in some places crumpled the bergs. shales and other rocks over which it weighty objections. These are the passed, in the line of their lamination two most important :--The Glacial Clays partake largely after the nearest rocks over which they in the deposit.

passed, with regard to color. 2nd. There are no remains of the in-The geographical extent of the ice habitants of the sea in which the ice in the northern hemisphere was. would float when it deposited its roughly speaking, bounded by the 50th gleanings, as all fossil remains belong degree north latitude in Europe, to clearly defined strata of a much whilst in America it was bounded by more ancient date; so much so, that rarallel 39. It England it does not we may speak of the ice age as beseem to have reached further south longing to yesterday, by comparison to any extent, than the north of the with the deposits from which the Thames basin. During this time the fossils were derived, which in that British Isles were united with the case, might be spoken of as pre-his-European continent by a vast ice toric. The one exception, is the fossil sheet, the whole of the land surface. wood which was found, but this is both in Europe and America, being terrestrial, not marine. then, probably, of considerably greater It seems from all the evidence that elevation than at present. South of can be adduced, that the vast accuparallel 50 in Europe, immense glaciers mulations of clay, known as the Upper would be produced on the Alps, Car-

pathians, and Pyrenees. In fact, the present Swiss and Pyrenean glaciers are the pigmy remains of once imsame force may be seen at work in measurably larger ice fields. In Asia Switzerland, the Canadian Rockies, we find proofs that far larger glaciers and in other localities. In fact, existed in the Himalaya range than wherever glaciers exist, some such dethose of the present day, occupying posits must be made to a greater or the southern slope even down to withless extent. The moraines of the Swiss in some 2,500 feet of the sea level. glaciers being the modern equivalent Similar evidences of large glaciers in of the ancient ice deposits. New Zealand are obtained, whilst traces of proof of former glacial of the glacial period, was united to action are found in both Australia Scandinavia, and probably to Ireland

and South America. Geological exploration has. as yet, been confined to branching out, both east and west, in so comparatively few regions, that anything like a complete knowledge of the range of ice during the glacial age, has not been attained. One fact shculd be very clearly borne in mind, that the occupation of a certain area by ice does not necessarily imply that Argillaceous deposits, which lie comthat particular district has a so much lower mean temperature than other places in the same latitude where no ice exists. Through local causes, the immediate neighborhood to the north precipitation of moisture in the form and north-east. These facts are imof snow is so much greater in some districts than in others, that the supply so far exceeds the melting power of the atmosphere as to cause such Liassic clays, show that the bulk of an accumulation that a glacier is the result. We know that there are districts where moisture seldom or never falls, in cold, as well as in hot districts. Take Siberia as an instance. If any very large quantity of snow fell over that immense territory, it would become one huge glacier, and be totally uninhabitable. Most certainly would this be the case north of parallel 60; yet at Yakutsk it is possible to live, notwithstanding the fact that the ground is permanently

frozen to a depth of 700 feet. gave a practically unlimited time to Some geologists consider that life, as we know it in geology. there has been a succession of Glacial Ages, ranging from Cambrian Times, onward through the Devonian, New Red Sandstone,

water has existed since the glacial collection of rock fragments were gathage.

ered, igneous, metamorphic, and sedi-In the upper part of the Mississippi mentary, with numbers of septaria. River is another post-glacial gorge, Such a mass of debris has sufficient which forms a valuable indicator as internal evidence to show that it was to the time of the glacial age. . The results here about coincide with those fied form; either by the action of arrived at with regard to Niagara. denudation, or by the aid of the re-Other similar cases of denudation give mains of a marine or a terrestrial approximately the same results. flora or fauna, as is the case with the The silting up of lakes, whose beds rocks of the Laurentian age, leading were formed by the agency of ice, onward through all the Paloeozoic, show that the Glacial Era could not Mesozoic, and Tertiary periods, and have been much more remote.

Take your own lakes near St. John, which are all of glacial origin. They are small, and receive a quantity of mineral and organic matter, brought down from the hills by the various streams, and deposited in them, by which means they gradually become filled up. Both Lily and Ashburn lakes have already become nearly filled with silt, in their shallower portions. In a comparatively short time,

geologically speaking, both will become swamps, while only a little while afterwards they will be flat grass-land, just as the old rifle-range land now is. That ground was undoubtedly a lake at one time, but became filled up with mineral and organic matter, brought down by the streams from the hills around. You may ask, "What has this to do

with the glacial age?" Well, simply this: A computation of the amount of silt there is in the lake, before the hard rock-bed is reached, will give the age of the lake, if the average yearly deposit can be obtained. Calculations based upon such data, ap-

proach very nearly in results to those Glacial Boulder Drift, must have been deduced from the erosion of rivers. deposited by the direct action of mov-It is a most point amongst geologists ing ice upon the land. Today the

whether the age we are now speaking of, was really a time when whole continents were under glacial ice, or whether local climatic influences, ccupled with changes of land elevaticn, would be sufficient to produce this phenomenon. Further, Sir William Dawson has shown that a species of drift deposit is being accumulated at the present time in some of the openings of the Canadian coast, this deposit being formed by the agency of floating ice, in the shape of either bergs or drift-ice. Moreover, the rocks are often much striated. It will be well to remember the fact here, that an iceberg has only about an eighth of its entire mass above the water, the rest being submerged. You can imagine at what a depth some would be in the water, when I mention here that I have, myself, seen icebergs some 200 feet high, in and near the Straits of Belleisle. So soon as such a mass of ice gets into comparatively shallow water even, it would run aground, and be swayed about by either the wind or current, in some particular direction, when any stones sticking underneath would be scraped across the sea-floor, by which means they would become striated. Notwithstanding

the material must have been obtained the proofs that in particular instances Those fossils and rocks derived from floating ice may lay down drift beds, material lying at a greater distance, the consensus of opinion shows that are naturally much fewer in number, such a deposit as the one particularly although some must have been brought described tonight, must have been laid a long way, as for example the Trigdown by glacial action, and for the onia Pulchella, whilst some of the rsasons already mentioned, but which rock fragments would seem to be of it might be well now to recapitulate. 1st. The formation is completely de-There has been much speculation as

void of stratification. to the chronology of the glacial period. 2nd. The striated stones are very of-Sir Charles Lyell and his disciples ten elongated in shape, showing that they were worn by being pushed along by some solid force.

More modern geologists, guided in a 3rd. The character of the whole of great measure by astronomers and the contents of the clay-both organic physicists, have arrived at conclusions and inorganic, point to the fact that strikingly different from those of the some land force must have been at

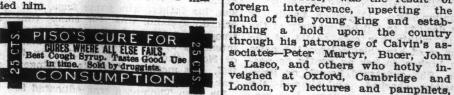
ance that every case published is genuine. Several such cases have come under the notice of the Canadian Evangelist, the latest being that of Mrs. T. Stephens, of 215 Hunter street, west, Hamilton. Mrs. Stephens is quite enthusiastic in her praise of Dr. Williams' Pink Pills, and is very positve that they have done her a great amount of good. Her trouble was indigestion and general debility. For about a year she was under a physician's care, without deriving any benefit therefrom. About three years ago she was induced by a friend to give Pink Pills a trial. When she began their use, she says, she felt dreadfully tired all the time, was weak and nervous, had a pain in her chest and was very downhearted. Her father told her she looked as though she was going in "a decline." She replied that she felt that way, whether she looked it or not. It was not long after she began to take Pink Pills before she experienced an improvement in her health and spirits. The tired feeling wore away and her strength returned, the extreme nervousness vanished and her spirits revived. It is now about two years since Mrs. Stephens ceased taking the Pink Pills. She has had no return of her former troubles during all that time. She is now strong, healthy and cheerful, and is very emphatic in declaring that she owes to the Pink Pills her present satisfactory state of health and has, therefore, no hesitation in recommending them to these afflicted as she was.

GERMAN SUGAR HERE.

Some ten tons of German granulated ated in the horrors of the Great Rebelsugar has arrived on this market and more is on the way. This sugar is put up in bags. It will probably sell lower than Canadian granulated. The samples of the German article that were shown here compared favorably in appearance with the home product. As best Canadian granulated can be got in large lots close down to 4c., the new competition will probably be offered below that figure. As the price abroad has declined further since this lot left Germany, later arrivals will Restoration, 1662. perhaps sell still lower. Whether the new article will prove as satisfactory tory of the English Prayer Book as as Canadian can only be decided by trial. But sugar will be cheap. The Canadian refineries handled some \$2,ject I have in hand. 000,000 worth of German raw sugar in 1892, and now the refined article is

The total production of sugar in the long the people had craved for a Bible world in 1893 was calculated to be as and a Prayer Book in the common follows: Beet sugar (Europe), 3,400,tongue-added in evidence Wicliffe's 000 tons; cane sugar, 2,760,000, or a to-Bible, several contemporary manuals tal of 6,160,000 tons. This year the of devotion, Tyndale's New Testaproduction of beet sugar, which was ment, the Epistles, Gospels and Litexpected to be large, has proved, as any in English, Coverdale's Bible, etc., already stated in the Sun, far larger etc. I showed that the 1549 book was than anticipated, reaching the surprispar excellence the English book coming figures of 5,100,000 tons, an excess piled and prepared most carefully of more than 1,000,000 tons over the solely by English divines who stead fastly refused the proffered co-operactual production of 1893, which was 3.900,000 tons. The latest quotations ation of foreign reformers, who had broken away from episcopacy and for raw beet sugar are about 8s. 10d. church order. I pointed out that it stg. per cwt. in London. With these was founded chiefly on the reformed facts in view, there is no cause for editions of the Salisbury use of 1516 astonishment at the present low and 1541, and was not made up out price of refined sugars. of their own heads.

She-Speaking of brave deeds, once prevented a man from committing suicide. He-How? She-I married him.



tioning the names of managing editors who are about to be arrested for blackmail, and although thus far no arrests have been made, the arrest of certain parties is inevitable.

able to all Christian people desiring to live in Christian conversation, and THE CHARGES AGAINST CAPTAIN most profitable to the state of this DREYFUS. realm 2. That the persons who "misliked

In regard to the affair of Captain Drevfus. who has been accused of treason. I incline to the belief that his acquittal is probable. The charge against him is solely based on a letter attributed to the captain, who denies that he wrote it. The experts who have examined the letter believe that the entire letter is not in the handwriting of the accused. If he is brought to trial and acquitted the case will very probably have unexpected political results.

To the Editor of The Sun:

The main drift and

even till the present day.

In my first lecture I traced

I based my investigation on the his-

matters right.

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is

A CORRECTION. The Rev. J. M. Davenport's Lectures on "The Principles of the English Reformation."

Sir-Your report of my lecture of

my course of six lectures

the "Principles of the English Refor-

mation" and the "Principles of Puri-

tanism," imported into England from

the Religious Revolution of Europe,

effected under the leadership of

so often confounded, viz.,

the 7th has so thoroughly missed the

My next lecture (Wednesday) will be based upon the Prayer Book re-

public."

purport

vision under Elizabeth. Yours truly. JOHN M. DAVENPORT

mark in many particulars that I must Mrs. Benedict-"Now, what would beg the favor of a little space to set you do, Mr. De Batch, if you had a oaby that cried for the moon?" De-Batch-"I'd do the next best thing for him madam ; I'd make him see stars !" to distinguish between what -Kate Field's Washington.



Luther and Calvin, and which culmin-The Simpletons, a new novel by Thomas Hardy, will be begun in the December num-ber, 1894, and continued to November, 1895. Whoever may be one's favorite among Englion with its incubus of deadly evil afflicting our dear land and church wheever may be one's favorite among Eng-lish novelists, it will be conceded by all crit-ics that Thomas Hardy stands foremost as a master artist in fiction, and The Simpletons may be expected to arouse enthusiasm not inferier in degree to that which has marked the causes which gradually led up to the final great struggle with the usurped final great struggle with the usurped jurisdiction of the Papacy and then summarized the history of the Refor-mation for one hundred and thirty years, namely, from the date of the break with Rome (1534) till the last revision of the Prayer Book at the uary number will appear a profusely illus-trated paper on Charleston and the Caroinas, the first of a series of Southern Pap-

Northern Africa is attracting more attenthe most convenient method for retion than at any other time since it was the seat of empires. The next volume of Har-per's Magazine will contain four illustrated vealing in a popular manner the sub-In my second lecture I gave a conarticles on this region, and three of them will depict the present life there. Julian Ralph will prepare for the magazine a series cise history of the First Prayer Book of Edward VI., 1549; showed how of eight stories depicting typical phases of Chinese Life and Manners. Besides the long chinese Life and Hamman the January num-stories there will begin in the January num-ber the first chapters of A Three-Part Novel-ette, by Richard Harding Davis—the longest ette, by Richard by this writer. Comwork yet attempted by this writer. Com-plete short stories by popular writers will continue to be a feature of the magazine.

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I then proceeded to show that the **HARPER'S PERIODICALS:** 552 revision, which contained some grievous errors, was the result of Harper's Magazine. - one year. \$4 00 Harper's Weekly, -4 00 Harper's Bazar, - " 4 00 Harper's Young People, " 2 00 Postage free to all subscribers in the Unit-ed States, Canada and Mexico.

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