he Nineteenth Will Always Take Posi-tion as One of the Most Memorable of Centuries...The Steam Englue Underlies All Our Modern Progress.

All Our Modern Progress.

The following article was written or the 20th century issue of the New York World by Sir Norman Lockyer, C. C. B., F. R. S., author of "The bun's Place in Nature," etc.

There can be no doubt that in the uture history of the world, for thou ands of years, the century that has ust passed away will be recorded as use of the most memorable, if not the nost memorable, to which attention an be drawn. This high position will be awarded to it on the ground that is the one which has most profoundly affected the life conditions of the tuman race.

The salient point about the nine-nih century is that it is the scien-c century. Theology, art, learning the ordinary sense are at the end it pretty much as they were at the

of it pretty much as they were at the beginning.

The gift of science to the opening years of the century was the steamengine then coming into common use. Watt's patent expired in 1800. When one reads how it was that Watt achieved one of the most tremendous revolutions recorded in history one cannot help feeling that his position as "mathematical instrument maker to the university" (at Glasgow) had everything to do with it; he lived with his friend Black in an atmosphere of research. The steamengine, so closely are all scientific applications bound together, underlies all our modern progress, for the reason that hand labor, thanks to it, has been replaced by greater powers.

One of the first applications during this century of the new source of power was to locomotion. This was done by Watt himself and Symmington on the Forth and Clyde Canal in 1802.

Dur present enormous battle-ships di mail steamers and our destroyers ing at 35 miles an hour, are doubly result of Watt's work. It is the anamengine which builds them and wes them when built. It may even that Mr. Parsons at the end of the turry will porve to us that Watt's thod of applying steam to marine comotion can be improved upon for ne uses.

comotion can be improved upon for me uses.

Land locomotion by means of steam llowed in 1829, the Rocket and the ockton and Darlington railway insurating the long series of engines de railways which now make rapid de safe transit possible almost over ewhole surface of the civilized ordel, both speed and economy being cured by James's invention of the bular boiler.

Electricity comes next, with its wonerful record of electric telegraph, extre light, electric traction, telescence and wireless telegraphy, and is since 1836. Of the applications of extricity, after what has happened, would be a bold man who would inture to predict where they will op, or that no equality striking desirements are yet in store for us, they come it will be because the ture will produce its Faradays or its electric was in the saving of the lives of our sail-

The saving of the lives of our sailors by storm warnings and the study
of the laws of storms is one of the
applications of the science of meteorology which the century has brought
us—a result undreamed of by him who
first "weighed the air." Nor do the
benefits of science-to our seafaring
and seagoing populations end here.
Ocean currents as well as air currents
are sent understand and charted by
hydrographers, who have added to
these benefits by maps showing
depths, so that now the contours of
the bottom of seas and oceans are
nearly as well known as those of the
land surfaces.

More than this man himself has
been proved to have been present on
the scene contemporaneously with
many now extinct animals at a time
long antecedent to that favored by
Archbishop Usher. This work has
been extended by the modern science
of archaeology, which has demonstrated the existence of settled communities and by no means rude civilizations thousands of years ago, and it is
now evident that "in the noblest study
of mankind" the geologist and archaeologist must work together to dive
still further into man's early history.

But there has also been another
very practical application of geological study. Geography long ago gave
us maps of land surfaces; geology
has now based upon them geological
maps of priceless value to all interested in the products of the mine.

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In this region of thought we find another revolution as striking, if not
more striking, than those already referred to. The genius of Darwin has
evolved from this study "the origin of
species"—that is the real cause of the
introduction of new forms—and has
brought us in presence of the work o

the whole orrage industry of Florida must be abandoned unless a hybrid can be secured which will stand frost. Medicine and astronomy are certainly the most ancient of the sciences, and yet, strange to teil, the advances here have equalled any other to which I have referred. I am an old man now, but still I distinctly remember how large in my youth was the number of faces marked with the small-pox encountered in an hour's walk. Such sights and the deaths and ravages caused by this fell discase have practically been abolished by vaccination introduced by Jenner in the first half of the century. Pasteur and Lister have made for themselves immortal names since then, and at the end of the century we find ourselves on the track of the causes of most diseases. The germs from which they spring are known, and preventive medicine is now a well-understood science. Hydrophobia, diphtheria, consumption and other dire human maladies show signs of capitulation, while Listerism enables the surgeon to succeed in operations which were formerly never at-

Much of this tremendous alleviat Much of this tremendous alleviation of human pain and the attendant in crease in the span of life have depended upon the improvement in the mic roscope brought about by the study of optics. Strangely enough, the last important progress to which I shall reference to a large extent from the same source.

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The earliest victories of astronomy were achieved without any instrument. The horizon formed the only point of available reference; then came instruments without the telescope and clock; next these were added. The steam-engine, improvements in the manufacture of glass followed, and permitted the construction of enormous telescopes. Finally we have the optical studies, to which I have referred, carried on in strict alliance with chemistry. Celestial objects which the human eye will never see are now studied in a hundred ways by means of photography, and the heavens have been expanded for us a thousand-fold, and chemistry has not stopped there. The substances of which the most distant worlds are composed are now well within our ken.

With hundreds of thousands of

ken.

With hundreds of thousands firm facts at our disposal we can newatch the gradual formations worlds and study both cause and feet. Hence a new idea of cosmic evolution, and hence also an idea

astronomy are yet to seek, but they will come.

The Disturbing Snore.

It was just at the most impressive point of the great Shakespearian production. The big audience gazed spelibound at the massive splendor of the stage, and drank in eagerly the impassioned eloquence of the famous actor. His subtle art had touched a responsive chord in the hearts of his hearers. The quiet intensity of the scene caused men and women to hold their breaths. The stillness was almost death-like. It was a triumph of illusion. And just then a man snored—a gentle, peaceful snore that told of refreshing slumber. The tension was broken. People laughed hysterically, as they do when sharply contrasted emotions are brought suddenly and unexpectedly into play. Again and again came that gentle snore, and finally it was drowned in a rustling of gowns and a buzz of comment as people turned to look. The great actor, who boasts the eccentricity of genius, knew that something had happened, but it is doubiful if the snore had penetrated across the footlights. He halted, paused a moment, and then went on, but with a noticeable coldness of manner. Had he known the truth he might have rung down the curtain, for de does such things.—Philadelphia Record.

Washington's Original Boundaries.

The original boundaries of the "Ter-

down the curtain, for de does such things.—Philadelphia Record.

Washington's Original Boundaries.

The original boundaries of the "Territory of Columbia," as defined in the proclamation, included a ten-mile square, starting at Jones' Point, the upper cape of Hunting Creek in Virginia, the two lines beginning at an angle of 45 degrees, and after running far asunder uniting in a terminal point at the junction of the Potomac and the Eastern Branch.

The choice made by the president and his advisers having been abundantly justified by the experience of a hundred years, the story of how this choice was finally accepted by congress may be of some interest today. Various reasons have been given to explain why Philadelphia was not made the capital, among these the frequent and violent epidemics of yellow fever in the Quaker city. In point of fact, the most severe and prolonged outbreaks of fever occurred when congress was in session in Philadelphia, after the whole question of the residence had been finally settled, and the bill in favor of the banks of the Potomac passed.—Anne Hollingsworth Wharton, in "New" Lippincott.

The Distinction of Mobile.

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Mobile has her superiority as shown by the last census. Mobile is boss in the matter of marriages. More people per 1000 of population get married in Mobile than in any other city in the Unica.



A Love of a Toque.

A charming hat seen the other day in New York City was flat and round in shape, with large full-blown roses of black velvet, each petal rimmed with a narrow line of frosted gold, and with golden hearts, massed closely round the crown and covering the round the crown and covering the brim, lightly veiled and black lisse. The hat was lifted off the head by a few white tea roses underneath the brim at the left side.

The Belt Fashlonable.

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The new broad elastic-webbed belts, thickly studded with steel facets, and fastened with a deep narrow oblong buckle in front should prove welcome, for they clip the walst so trimly and close, and give just that neatness to a blouse that it wants.

Belts of gold ribbon tissue are apt to be spoiled by not being properly mounted. It is quite useless to drag this soft, loose fabric round the waist like one would ordinary ribbon. It should be pinned to the figure, properly pinned and adjusted, and well boned and mounted on a foundation; then one secures a well-shaped corselet belt.

Sure Signs of Old Age in Woman.

1. When letters to girl friends are mostly addressed "Mrs."

2. When she begins to care a great leal about the supper at an entertainment.

3. When the supper are a supper a sup

est in church and charity work.

4. When she is attractive to very

4. When she is attractive to very young men.
5. When she realizes the folly of dressing in soher colors.
6. When she compares the new way of wearing the hair with that when she first put hers up.
7. When—most fatal of all—the gravity of youth gradually gives way to incipient kittenishness.—New York Sun.

Neck-wear for Mourning.

Some very smart arrangements for neckwear are shown in the best shops mow for mourning. The stocks are very high, built up with soft folds of crepe and chiffon, and trimmed with ruches of crepe across the ends. Some dull-finish silk is used, too, in their make-up.

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There are many new styles of neck-wear intended solely for mourning which are unusually attractive. Mousseline de sole and chiffon are the favorite materials, and far more becoming than the dull slik ties or the peau de sole. A smart stock is finished with a narrow ruching of chiffon, and the tie is of folds of chiffon with only the narrowest ruching as a finish. Sheer white linen collars and cuffs are worn in the deepest mourning by widows, while the narrow collar and cuffs of hem-stitched linen are appropriate for any one to wear who wears mourning, whether for a near or distant relative.—Harper's Bazar.

Helen Keller Makes a Speech.

Helen Keller made her first public speech at the freshmen luncheon at Radcliffe college on the Saturday preceding Christmas. Her words were heard quite clearly through the hall, a remarkable trimuph over natural infirmity in one who was once dumb. What she said was:

"Classmates—It is a great pleasure, and I esteem it a great honor, to be present here and speak to you. I am glad to have an opportunity to thank the class for their kindness in electing me their vice-president, and I hope that I may become acquainted with many of you. Although I cannot see you, I will soon know you by touching your hanés."

There was long and enthusiastic ap-

hanea,"
There was long and enthusiastic applause for the girl who has overcome so many obstacles in the course of her college preparation. One sophomore who can use the sign language quickly communicated to Helen the warm reception her speech had received, and the girl's expressive face quivered with the joy of her achievement.—Cambridge Letter in Baltimore American.

the joy of her achievement.—Cambridge Letter in Baltimore American.

Hints on Lace-making.

Too much stress cannot be laid on this. Make all your leaves alike, flowers the same, buds and filling. Many lacemakers use such a variety of stitches, which cheapens the work. The beauty of the intricate labor is lost in this endless variety, which is a hodge-podge, standing for really nothing. Take a rose leaf, bud and background; the centre of the rose naturally is a colweb, the leaves one fine stitch, after the valenciennes school, the background a cobweb. Now fancy, as I saw today, the daintiest collar imaginable, each thread so carefully done, a piece of elaborate work; every leaf had a different stitch, each petal might have stood for a rose or a cabbage, and the background was a little of every stitch in the calendar of needlework. The poor soul who had exhausted months of patient labor "to have a real lace collar to hand down to her grandchildren," had succeeded in handing down a sampler of stitches, but nothing to show whether she had a gripure, valenciennes, or a point-lace collar. She was triumphant over the fact that "she could make stitches

with the best of them." So do, do, if you wish to put any value into your work, keep within the confines of a certain type.—Harper's Bazar.

work, keep within the confines of a certain type.—Harper's Bazar.

Table tennis is the name of a new game which was introduced in England a short time ago, and has already become one of the most popular of indoor amusements. It is the game of lawn tennis in miniature, played on an ordinary dining table. The net is a tiny one, made of gauze stretched between two uprights, which rest on a bar laid across the table. The balls are made of the thinnest kind of pyroxyine material, and are consequently very light. The racquet has a slender handle and a blade with a frame about one-half inch thick, which is covered on both sides with thin drumhead material.

The play and counting are practically the same as in lawn tennis, but according to the rules "the player serving must not put his racquet over the table nor have it about his wrist." That is, he must serve underhand and never overhand, but after service he may hit the ball as he likes, but he must not volley.

The contact of the light ball with the drumhead racquet produces a pleasant sound, and because of this sound the game received the name "pompom."

Among the rules for playing the game are the following:

No faults are allowed; if a fault is served, that is, the ball does not go over the net or goes off the table without touching the opposite side to the server, a point is counted to the non-server.

If the net is touched by the ball, and the ball goes over, and otherwise the server a point is counted against the person volleying.—New York Tribune.

Suggestions for a Paper Wedding, The paper wedding, the first anni-

Suggestions for a Paper Wedding.

The paper wedding, the first anniversary of a wedding day, is occasionally observed among a group of young folks, who turn it into a merry-making. They come adorned with grotesque paper caps extracted from motto crackers and sometimes in entire costumes evolved from gorgeous crepe paper. The paper wedding offers an excellent chance for a masquerade party, when paper of all sorts may be utilized, from pert, pretty Yum-Yum with a Japanese parasol to a frolic-some youth representing the yellow kid in an impromptu suit made from yellow journals.

There is the greatest latitude when it comes to gifts. The offering may be a dainty box of stationary or a book in the most artistic of bindings. For table decorations paper can be used lavisbly, with paper table napkins, and even one of those beautiful table-cioths in paper which can be found in Japanese stores. Globes for gas and electricity, or lamps, can revel for that one night in wonderful paper shades, and where an artistic taste would demand flowers and wreathings of smilax or the delicate asparagus vines, it yields to the harmony of things and substitutes paper blossoms as true to nature as they can be found, with Japanese lanterns and lengths of paper ribbon for draping. If the decorator has fine taste, a house can be made really charming with paper decorations, if they are kept in delicate colors which harmonize.

At the paper wedding as in all other celebrations, the bride ought to wear her wedding gown, and after the passing of only 12 months, it is possible for her to be surrounded by her bridesmaids in their year-old frocks,—Good Housekeeping.



Chenille is coming to the fore as a possibility for coiffure ornaments.

Silk petticoats are being supplanted to a great extent by the wash skirts of dainty white lawn trimmed elaborately with lace and embroidery.

Gaily colored feather eyes are dotted all over different kinds of furs in boas, capes and muffs, and make elaborate and showy furs.

Black velvet is the material for a stylish little bolero, with revers em-broidered in gold thread. A wide belt of folded gold tissue should be worn with this.

of folded gold tissues should be worn with this.

Angora felts are becoming popular, especially in the gray and brown shades. A pretty example of khaki brown, trimmed with bronze brown velvet and blecuit color liberty, with a shaded ostrich plume that combines all the browns in the toque.

Among the novelties in veiling are gold dotted and gold bordered veils, red and royal blue. Those are, of course, only for ultra tastes and occasions, and black, browns and white continue the ordinary wear. The green veil has disappeared absolutely.

One of the handsomest winter toilettes imaginable has a gray broadcloth skirt, with inset bands of chinchilla in fan fashion at the two side seams. The jacket of the chinchilla is in bolero shape, with a wide belt of dull blue velvet, on which are sewn rows of narrow gold braid. The revers are of the same velvet, edged with the braid, and the novel collar is of the same cut, very high, lined with the fur and decorated with braid on the inside.

Anticipating the repeal of the State wolf bounty law, a number of stockmen in the Bad river section of South Dakota have contributed a handsome sum from their pockets and will keep up the wariare. The State has expended \$30.000 for wolf scalps and the present Legislature is not expected to keep up the appropriation.

appropriation.

Try Grain-O! Try Grain-O!

Ask your grocer to-day to show you a package of Grain-O, the new food drink that takes the place of coffee. The children may drink it is, the place of the conference of the conference of the conference of the conference of Mocha or Java, but it is made from pure grains, and the most delicate stomach receives it without distress. & the price of coffee, 15 and 25c. per package. Sold by all grocers.

The revenue of the Dominion of Car-ada for last year was \$51,029,994, of which \$28,376,147 came from customs and \$9,808,075 from excise, the remain-der being collected from public works and railways, postoffices, etc. The ex-penditure was \$42,975,270, and the sur-plus of \$8,054,710 is the largest on rec-ord since confederation.

ord since confederation.

[Coughing Leads to Consumption.

Kemp's Balsam will stop the cough at once.

Go to your druggist to-day and get a sample
bottle free. Sold in 25 and 50 cent bottles.

Go at once, delays are dangerous.

Thirty-five prominent American sculp
tors will contribute to the embellishmen
of the grounds and buildings of the Pan
American exposition at Buffalo. They
are at work on 125 original groups o
statuary.

There is a Glass of People
Who are injured by the use of coffee. Recently
there has been placed in all the greecy stores
a new preparation called Grain-greecy stores
a new preparation called Grain-greecy
pure grains, that takes the place of coffee
The most delicate stomach receives it without
distress, and but few can tell it from coffee. It
does not cost over ½ as much. Children may
drink it with great bforefit. 15 cts. and 25 cts.
per package. Try it. Ask for Grain-Q.

Lake Nicaragua is the largest fresh water lake between Lake Michigan and Lake Titicaca, in Peru.

In the police court in Cincin as been decided that insanity cau quor is no excuse for crime.

The Herb Cure For Hendaches. Unlike the majority of remedies for the cure of headaches, the Garfield Headache Powders contain nothing that can injure or derange the system; they are made from herbs.

Beware of Cintments for That Contain Mercu

That Contain Mercury.

as merculy will surely destroy the sense of smelland completely derange threwhole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physicians, as the damage they will do is ten fold to the good you can possibly drive from them. Hall's Catarrh act of the control of

Experiments are being made with the locust fungus in the exterminating that pest.

Best For the Bowel

Best For the Bowels,
Mo matter what alls you, headache to a
cancer, you will never get well until your
bowels are put right. Cascangrs help
nature cure you without a gripe or pain,
round one says natural movements, cost you
just to ean's to starr getting your health
back. Cascangrs Candy Cathartic, the
back. Put up in metal boxes, every tablet has C.C.C. stamped on it. Beware of
imitations.

During the past year there was an increase of nearly \$30,000 in the value of monkey skins exported from the Gold Coast. It is estimated that at least 1,000,000 monkeys were killed in that district alone.

Lanc's Family Medicine

Moves the bowels each day. In order to
be healthy this is necessary. Acts gontly on
the liver and kidneys. Cures sick headache,
Price 25 and 50 cents.

A proposition is being urged in Ten-tessee to increase the salary of the gov-rinor to \$5,000 a year. It is now \$4,-00. It is thought also that the Sta-thould supply an executive mansion for its use.

Science Diseards Brute Force in medicine. Hoxsic's Croup Care contains oxix the spirit of drugs and delles Croup, Bronchitis, Pheumonio and Dipitheria, 50 ets.

There are irrigating ditches at Las ruces, New Mexico, that have been in ontinuous service for three centuries.





"I am so nervous and wretched." "I feel as if I should fly." How familiar these expressions are! Little things annoy you and make you irritable. You can't sleep, you are unfit for ordinary duties, and are subject to dizziness.

That bearing down sensation helps to make you feel miserable.

You have backache and pains low down in the side, pain in top of head, later on at the base of the brain. Such a condition points unerringly to serious uterine trouble.

such a condition points unerlyingly to serious ditective trouble.

If you had written to Mrs. Pinkham when you first experienced impaired vitality, you would have been spared these hours of awful suffering.

Happiness will be gone out of your life forever, my sister, unless you act promptly. Procure Lydia E. Pinkham's Vegetable Compound at once. It is absolutely sure to help you. Then write to Mrs. Pinkham, at Lynn, Mass., if there is anything about your case you do not understand.

You need not be afraid to tell her the things you could not explain to the doctor—your letter is seen only by women and is absolutely confidential. Mrs. Pinkham's vast experience with such troubles enables her to tell you just what is best for you, and she will charge you nothing for her advice.

Mrs. Valentine Tells of Happy Results Accomplished by Lydia E. Pinkham's Vegetable Compound.

"Dram Miss Pinkham's Vegetable Com
"Dram Miss Pinkham's List with pleasure that
I add my testimony to your list, hoping it may induce
others to avail themselves of the benefit of your valuable remedy. Before taking Lydia E. Pinkham's Vegetable Compound, I felt very bad,
was terribly nervous and tired, had sick headaches,
no appetite, grawing pain in stomach, pain in my
back and right side, and so weak I could scarcely
stand. I was not able to do anything. Had sharp
pains all through my body. Before I had taken half
a bottle of your medicine, I found myself improving. I continued its use until I had taken four
bottles, and felt so well that I did not need to
take any more. I am like a new person, and your
medicine si all always have my praise."—Mrs. W.
P. VALENTINE, 506 Ferry Avenue, Camden, N. J.





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