## DESERET EVENING NEWS: SATURDAY FEBRUARY 3, 1900.



#### cillating current of electricity in the wire. The vibration leaves the trans-BELGIUM'S GREAT AND mitter and starts on its journey through STRANGE NAVAL PROJECT.

#### State Ships to Be Sent Around the World to Advertise the Nation, Its Flag and Its Products.

The first indication that the nations ; guns, but they will be so constructed ; cial cities of Europe, and the trade of of the world may possibly decide to make the last year of the century a year of peace comes from Beigium, where one of the most novel of projects is now under way. Instead of spending vast sums of money in reconstructing its war fleets, the nation has determined to use the appropriation in con-structing and fitting out a peace navy, the duty of which shall be to introduce the Belgian nation, its flag and its products to every port of importance in the world in the world.

In other words, instead of battleships, cruisers, gunboats and other destructive craft the projected Belgian fleet is to consist of State ships fitted with sam-ples of Belgian products, and these ves-

pies of Beigian products, and these ves-sels are to be kept plying from port to port in African, Asiatic, American and Australian waters. By this means it will be possible for the nation to come thoroughly in touch with the world. New commercial methods will be sug-

easily used as an armed fleet. In this way there will be no fleet to keep in idleness during the periods of peace, and nothing will have been done that can possibly be regarded as incon-sistent with the country's neutral tra-ditions.

There are few countries of Europe of which less is known than of Belgium. Occasionally the name of the King, or some slight reference to the country, appears in the news reports of the day, but there are comparatively few persons who know much more about the nation except in a general way. The Belgians realize this, and they regret that such conditions have existed so long

WELL-KNOWN LAND. They are determined, however, that this shall be changed in the future, and they believe that within the next two

the country has never ceased to be prosperous, and it is promoted by nu-merous canals and railroads.

To-day the chief articles of export are the coal and iron, the linen goods, woolen cloth, cotton stuffs, flax, lace, paper, glass, firearms, hides, raw sugar, zinc and grain. In amount, however, the exports and imports are nearly equal, each averaging about \$500,000,000 a year. In prosperous times as many as seven thousand vessels, with a ton-nage of 3,000,000, enter and leave the ports during the year, and there is al-ways an extensive trade to and from Germany and the other countries of Europe. The articles that are imported consist chiefly of wool, cotton, cereals, hides, coffee, timber, copper, sugar, silk goods, leather and petroleum.

Such is the country that is attempting to lead the way to the realization of universal peace based upon the highest form of commercial interests. The

# WHEN MAUNA LOA SINKS.

Scientists Describe the Terrible Things That Will Happen When the Hawaiian Volcano Buries Itself in the Sea.

Dr. Wilhelm Meyer, the noted Ger-man professor of geology, is predicting that all kinds of horrible things are liable to happen at any time. What inakes his predictions of more than or-dinary interest to the people of this country is the fact that he believes that the United States is to be the very that the United States is to be the very head centre of all these catastrophes? Of course, it is quite possible that, like many other prophets of evil, Dr. Meyer is mistaken, but he is now engaged in explaining his theory to the scientific world, and it must be admitted that many prominent European scientists here here negativities enough to acres een pessimistic enough to agree hav with him,

According to the theory of Professor Meyer, the earth is liable to be visited by a deluge at any moment, for he beby a deluge at any moment, for he be-lieves that the two great volcances of Hawaii are on the point of collapse. If they should sink into the sea the re-sult would be simply appalling, for the flood, which would have its greatest effect in the territory of the United States, would be world wide in its power for destruction. While much of Dr. Meyer's theory is the technically scientific to be of wen-

too technically scientific to be of gen-eral interest, the idea that he advances is one that will attract attention in every part of the world. It was only a comparatively few years ago when a similar catastrophe occurred, and, although it was upon a much smaller scale than the deluge that is now pre-dicted, the terrible destruction of life

dicted, the terrible destruction of life and property that resulted is a matter that has never been forgotten. A VOLCANO HORROR. The Sunda Islands horror, which is now being used by Professor Meyer to illustrate his theory, occurred in Au-gust, 1883, when, on a particularly hot day, the volcano Krakatoa suddenly blew its head off, opening a channel for the angry waters. There is no limit to the waters of the sea and there is practically no limit to the fire in the practically no limit to the fire in the centre of the earth, but this time the centre of the earth, but this time the ocean was the victor, although the vol-cano threw up a fidal wave of such gi-gantic proportions as to wreck the coasts of the Sunda Straits in their enlength and for thirty or forty miles inland.

Before that immense wall of water, more than one hundred feet in height.



### creeping things and the fowl of the ienvens." It was a deluge after the pattern of

Noah's, although smaller, and the en-tire world felt its powerful impetus. As it gained space and broadened, how-It gained space and broadened, how-ever, it grew smaller and smaller and its destructive power was lessened. In spite of this in a single day, starting from both sides, this tidal wave trav-eled half the circumference of the earth, with a velocity that was twice as great as that of sound traveling through the atmosphere.

Of course, there is no comparison be-tween the defunct Krakatoa and Mauna Loa. The volcano that laid waste the Straits of Sunda was a mere infant when compared to the gigantic Hawalian volcano. Krakatoa was sit-Krakatoa was sltuated about 200 feet under the waters of the Sea of Java and was a compara-tively, small affair, whereas Mauna Loa is one of the largest of the active

volcances to day. It rises 13,000 feet above the sea, It rises 13,000 feet above the sea, it has a crater that is 8,000 feet indiameter and is at least 600 feet deep. The esti-mate of 600 feet, however, is one that is seriously questioned and it must be ad-mitted that no one knows how deep it is. It may be 6,000 or it may be 10,000 feet under the water of the Pacific, and the wall that separates it from the ocean may be only a few hundred feet thick.

thick A NATIONAL DISASTER.

If the bottom should drop out of Mauna Loa, therefore, there would be few people left to tell the story of the

few people left to tell the story of the disaster. If the gigantic volcano should fall into the Pacific Ocean the wave that would rise would be powerful enough to sweep across all the con-tinents of the earth. Cities and hills would alike be razed and every living creature, no matter how far inland, would be drowned. It is possible that there are some mountain dwelling peoples who would escape such a deluge, for there is a limit to the height and strength of even so great a wave. In such a case these mountaineers would have to be the lords of the new creation, the modern Noahs whose duty it would be to re-populate the earth.

Noahs whose duty it would be to the populate the earth. For many years Professor Meyer has been making a special study of volca-noes, and he but recently visited Ha-wail to make a careful investigation of the condition of Mauna Loa, and t its brother volcano, Mauna Kea. Upon his return to Europe he reported that its brother volcano, Mauna Kea. Upon his return to Europe he reported that he had found them both suspiciously active, and he feared that they might become dangerous at any time. For years the volcanoes have been quiet. Occasionally they have shown some in-dications of life, but the eruption of Mauna Loa on July 4 was the first serious disturbance that had occurred in twelve years.

scrous discurbance that had occurred in twelve years. Some idea of the force of such an eruption may be gained from the fact that the disturbance of the earth was felt as far as San Francisco. There it apppeared as a series of earthquakes that shook the California coast almost from and to and the series of the series of the series of the series of the the enthusiasm of a youngster, as y Alfred Beit, then twenty-two years d are, was outfitted with credit, win

it appeared as a series of earthquakes that shook the California coast almost from end to end. It so happened that several geologists were present at the time, and they found considerable evi-dence in support of the theory that the earthquake felt in California was the direct result of the volcanic eruptions on the island of Hawali. If such a small disturbance can be felt so far, how much more serious it would be if the great Mauna Loa, or its almost as gigantic brother should entirely blow off its head. It now seems to be the opinion of scientists in general that natural phenomena like the history of mankind aiways repeat themselves. The first deluge of which man has any record is that which is chronicled in the Bible, and it is now believed that that flood, from which only Noah and his family were saved, was due to just such a cause as that which is illustrated by were saved, was due to just such a cause as that which is illustrated by



Alfred Beit of South Africa Has Least One Thousand Millions,

The only man in the world en-puted to be worth \$1,000,008,900 thousand million dollars-is the a cized German, Alfred Bei dress, if you care to know, Cape Town, or Kimberley, or J nesburg, South Africa, or Park

and has made his tune in the last twenty. Alfred Beit was a wel chant's son in Hamburg into the office, where he

check and supervise to shipments and rec and from the ports of th herit a comfortable inc old shipping business; family, a taste in music, gard for beer, and go to respected but very little kn rehant.

But about the time he was gold business and giving up other delights of studen was a sudden commerce v South African town which promised such der his firm considered it w representative into this r land to examine and see if t of the country justified the the traders in all sorts of

Hamburg firm of which the elder was a member felt the tremendour petus of the new trade strongly en to induce them to send out and i



the air in the form of electric waves that radiate in all directions, like light, heat and sound. When the oscillation or waves of electric energy reach the receiving apparatus an oscillation is set

gested, new markets will be opened, and, it is quite possible, a new era of prosperity may dawn for the nation. For some time past the naval ques-tion has been an important one in Belgium. According to the authorities, a very large sum of money must be spent if the fleet was to be put upon a par with those of other nations. To do this meant an increase in taxation that would prove a great hardship to the people of the country, many of whom already felt the pangs of the tightening

The matter when brought before the Ministry was discussed at length, and was finally settled by the adoption of the scheme proposed by the King. In-stead of vessels of war they would build vessels of peace. Instead of visiting ports for purposes of intimidation, if not for actual destruction, they would inaugurate an industrial navy, a fleet that would be nothing more or less than a floating commercial museum un-der patronage of the Government.

A POPULAR PROJECT.

The novelty of such a scheme im-mediately appealed to the people, and the effect has been far better than the encot has been far better than even the King himself could have as-sumed that it would be. The feeling of disquietude that has distinguished the past two years of his reign has been almost entirely settled, and every one is working with every one else to make the new project a success.

the new project a success. Already two ships are practically ready to be put in commission, and others are to be constructed at once, so that by the time of the big Belgian exposition at Liege, in 1903, the nation and its products will have become thoroughly introduced to the world. As the result those who have been lament-ing the fact that the country had no ing the fact that the country had no naval force to officially display the flag in distant ports are satisfied that the best thing has been done, and it is un-likely that anything more will be said

about the creation of an armed fleet. According to the present intentions, the new industrial navy will consist of about seven or eight ships that shall be state property. They will be manned by sailors wearing the Belgian uniform and will carry some markets

land the best known country in Europe. The contract is a big one, but they are setting out energetically to fill it.

The first step that was taken was the establishment of a line of steamers between Antwerp and the Congo Free State, and the formation of several companies to develop the commerce and industries of several sections of Africa. Then came the proposed com-mercial mission to China and the an-nouncement of a great international ex-

nouncement of a great international ex-position to be held at Liege. According to every indication, there is no reason why Belgium should not profit greatly by such a scheme. To-day she is practically unknown com-mercially, except in certain ports and cities of Europe. By the time her ships have voyaged once or twice around the globe, her name will be a familiar one in commercial circles, for she has many in commercial circles, for she has many things to show-things that will make her ships interesting and attractive. One of the greatest sources of wealth

in Belgium is the mineral products, of which there are so many in the king-dom. Coal, iron, zinc, manganese and marble are found in abundance, and there are many quarries of limestone, granite, slate and sandstone. There are in the kingdom no less than 359 coal mines, producing more than 159 coal million tons annually, which gives em-ployment to more than a hundred thousand workmen. The richest of these mines are located at Hainaut, while ron abounds chiefly in the province of

Namut. It is not to the mineral products of the kingdom that Belgium looks for her prosperity, however. Aircady she has a market for all the iron, coal, lead and similar material that she can supply: but what she hopes to be able to do is to find new markets for the goods that she manufactures so extensively. These articles consist chiefly of cot-ton, linen, cullery, carpets, machinery. Namur.

ton. Hnen, cutlery, carpets, machinery, paper, woolen cloth, etc. The fine linens of Flanders, as well as the laces of Brabant, have a world-wide reputation. FAVORABLY SITUATED.

There are few countries in Europe that are more favorably situated for commerce than Belgium. Antwerp, which has a most excellent harbor, was uniform and will carry some marines. which has a most excellent harbor, was the earth and the wire, and creates in The ships will be protected by a few formerly one of the greatest commer- the fraction of a second a rapidly os

THE COUNTESS HAS TWO LITTLE FRENCH BOYS WHO MAY SOME DAY VISIT THEIR COUSINS. THE FIVE CHILDREN OF GEORGE GOULD, AND THE TWO LITTLE ONES OF EDWIN GOULD'S FAM-ILY.



AFTER AN ABSENCE OF OVER FOUR YEARS THE COUNTESS RET URNS TO THE LAND OF HER BIRTH FOR A VISIT; SHE IS ACCOMPANIED BY HER HUSBAND, AND IN HONOR OF THE YOUNG COUPLE MANY BRILLIANT SOCIETY AFFAIRS HAVE BEEN PLANNED.

scheme is a novel one, so unique in its conception that the nations of the world are doubtful as to its effect. But there is no doubt that its progress will be watched with interest and its success will result in the establishment of such peaceful naval fleets by other nations that are more anxious to extend their trade than they are to go to war.

# TELEGRAPHING WITHOUT WIRES.

By Marconi. Messages by wireless telegraphy can

now be sent with certainty up to 110 miles, of which sixty is over water and the remainder over land. Messages are not lost through the curvature of the not lost through the curvature of the earth, which is about 1,000 feet in eighty miles, and work all right from a wire at a height of 130 feet. Weather conditions cannot interfere, and the messages cannot be "jammed" or stolen in transit, for the reason that the transmitters and receivers, to be really difficient, must be in "tune"-that is, they must work in harmony. This makes it almost impossible for a re-ceiver to take a message that is not in-

celver to take a message that is not in tended for it. This "tuning" has, up to the present only been tried in three or four cases over long distances. The distances by which the messages have been sent were at first wholly dependent on the height that would be here but by one dis-

of the vertical wire, but by one dis-covery after another I have been able to reduce the required height; that is, I have created conditions equivalent to actual height. My apparatus for sending telegraphic

messages without wires consists of two poles, one at the sending and one at the receiving station. Each pole sup-ports a vertical wire. The transmitthe receiving station. Each pole sup-ports a vertical wire. The transmit-ting wire is charged with a current of electricity at high tension, which dis-charges to the earth through a short "spark gap." This discharge consists of a rush of electrical energy between the earth and the wire, and creates in



up in the wire with less energy than when it originated. This agitation is communicated to the receiving tele-graph instrument with which the wire is connected, and causes a local circuit to open and close in obediance to the ground, both man and cattle, and the ground, both man and cattle, and the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the ground, both man and cattle, and the stroyed which was upon the face of the direct stroyed which was upon the face of the stroyed which was upon the face of the direct stroyed which was upon the face of the stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face of the direct stroyed which was upon the face st

THEBELGIANS

THE AGED RULER WHO HAS INVENTED A STRANGE YET ATTRAC-TIVE METHOD OF ADVERTISING HIS COUNTRY TO THE NA-

TIONS OF THE WORLD.

opening and closing of the circuit in the transmitting instrument. A simple illustration of the effect of these electric waves on the wire of the receiving apparatus is the following: receiving apparatus is the following: If one were to hang a string from the ceiling in one corner of a room and in the opposite corner beat the air sud-denly with a fan, waves of atmos-pheric energy would be sent through the space between the fan and the string and agitate the string in obe-dience to the motion of the fan, but with less force-part of the energy be-ing lost in its journey across the room. So it is with the electric force thrown from the sending wire of my apparatus. It journeys through space until it It journeys through space until it reaches the hanging wire of the receiv-ing apparatus, and the electric waves vibrate in it as the air waves agitated the string when the fan set them in

EOPOLDIC

KING OF

motion. The agitation of the receiving wire by these waves causes an alternate breaking and connecting of the electric current according to the length of the wave or the time elapsing between each wave, and this is recorded by the tele-graph instrument with which the wire is connected. All waves are of course is connected. Air waves are, of course, stopped or deflected by solid substances that may be in their course. The elec-tric waves thrown off my transmitting or sending apparatus go through or around all solid substances. They are not stopped or deflected by the curva-ture of the earth or by any high build-ings that may be between the sending

and receiving wires. My first discoveries of the possibili-ties of wireless telegraphy were made in 1895, and the first signals were transmitted over two miles. Since that time the apparatus has been perfected and various important attachments have been worked out. the falling of Krakatoa.

### FLOODS TO COME.

Scientists also agree in the opinion that before and since that time there have been many similar floods, not del-uges that have swept the face of the earth, but floods that have had serious local effects. The traditions of every race of results on the traditions of every race local effects. The traditions of every race of people on the face of the globe bear record to such a flood, and it is not at all likely that all refer to the same del-uge. In fact, there is every reason to believe that these floods have been of dates that are widely separated and it is this fact that is inspiring science in its study of the values of the tradition. its study of the volcances. They know of the disasters that have occurred and

of the disasters that have occurred and they know that others will come. The only question is, When? During the past score of years the scientists have learned many new things about the volcano, and it is not at all improbable that some day geolo-gists will be able to figure out just how many years of properties it to the for many years of preparation it takes for a deluge to develop, or how many years it requires for a volcano to be-come ready to sink into the sea. Tocome ready to sink into the sea. To-day no man has any idea as to the length of this period. For all we know the time may be 500 of even 2,000 years distant, or, on the other hand, it may come at any day, but when it comes, however, if it is Mauna Loa that sinks, the scientists have figured just what will have the scientist of the scientist.

will happen. Every continent of the world will be swept by the gigantic tidal wave, before which nothing can live, and every achievement of art or science, everything that represents the advancement of civilization will be swamped and destroyed. Such are the predictions of the latest

Such are the predictions of the latest prophets of evil, and we can only hope that their horrible visions may be as far from the truth as those of the many prognosticators that have preceded them, for if they should by any chance be true no art of man would be able to prevent or even postpone the coming of the fatal day.

to prevent or even postpone the coming of the fatal day. In speaking of his predictions Pro-fessor Meyer said: "I certainly be-lieve that the performance of the little Krakatoa will some day be duplicated by the gigantic Mauna Loa. I do not mean to say that this will happen withmean to say that this will happen with in the lifetime of the present genera-tion, but it is not at all impossible that it may occur to-day or to-morrow. When it does come the catastrophe, torting at Hawaii, will be a mil-



which could be cut and polished into the jewels for which the world would

give fortunes. He was cool-headed, a man of order business methods by inheritance, and he saw that there could very easily be too much of a good thing, ercs da-monde monds.

He undertook then a work which b usually attributed wholly to Cal Rhodes, who did not go into the is trict until some years afterward, the work of first combining and then sp tematizing the diamond mining indi

tematizing the diamond mining man-try. This is not to say that Rhodes di not have a large hand in the ultimate close-corporation result. He did, bit young Belt was first in the field first to realize that diamonds might become so cheap as to be profitless to miss first to begin the quiet buying up of scattered and conflicting claims; first to see that there was wealth beyond the dreams of avarice only if the pro-duction of diamonds should be kern down to the point where they would be freely absorbed by the nation at the old standard price.

old standard price. The result was a combination which is a model of its kind. The great pe-Beers mine has for years paid five as a half per cent. on its bonds and twear per cent. dividends on its stock, and a complete the stock of the stock of

per cent. dividends on its stock, and is capitalized at \$40,000,000. Rhodes, dashing, sensational, and along and became the chief figure is the public eye when that eye us turned toward South Africa, but i-ways there was the firm of Wernbr. Belt & Co.° at work for the greater profit and the smallest amount of se-toriety. toriety.

INSIDE THERE WILL BE EVERY VARIETY OF HANDIWORK AND MERCHANDISE MANUFACTURED IN BELGIUM; AS STOPS ARE MADE THE GOODS WILL BE EXHIBITED AT THE DIFFERENT PORTS.



TYPE OF COMMERCIAL SHIP SELECTED BY BELGIUM TO CARRY HER GOODS AROUND THE WORLD; THERE WILL BE A LARGE F LEET OF THESE VESSELS THAT WILL YISIT EVERY PORT.

