Nahuatl language, which played so important a part in Mex- half a million cubic yards of deposit, and given through river, and canal transportation, the demand is imperative, entrance of the Gulf of Uraba, in Darien. The same combi- it exceeds 30 feet by 350 feet." nation appeared also in Quetzalchohuatl, the name of the quetzal plumed serpent god of the Aztecs.

We are not aware of any geological reason for doubting the possibility of the lingering of Atlantis as an archipelago down to post-tertiary times, and its final submergence within the period since man appeared. The probability of its continuance hinges entirely on the credibility of human traditions. In the absence of conflicting evidence, the concurrence of testimony from people so widely separated as the ancient Greeks and Egyptians on the one side, and the Central Americans on the other, may in some minds count for a great deal. At any rate it must be admitted that Atlantis has existed as a substantial reality.

AN ENGLISH MECHANIC ON AMERICAN MACHINES,

Dr. John Anderson, C. E., contributes the report on ma-British Commissioners and Judges. As one of the most desired channel through them. eminent of English mechanics and engineers, and besides an observer of much acuteness and intelligence, Dr. Anderson is capable of pronouncing a just opinion of our productions -one indeed which Americans will look for with interest and read with respect. Most of Dr. Anderson's report is taken up with descriptions of machines which especially impressed him, and which need not be noted here. He has a that enables us to convey pretty clearly the drift of his opinions by a sentence now and then abstracted.

As was the case with most of our foreign mechanical visitors. Dr. Anderson was first struck by our multiplicity of place, that the great iron works of Creusot and Fives-Lille give us the control of our trains through some continuous out the enormous strength of America as a producing tations to participate and have already entered upon the orfor a series of years at twenty-five miles per hour termed power." "No mere words," he says, "can convey an idea ganization of their representative displays. Even Russia 'immigrant trains." He also said, that the repairs on these of the high standard of excellence of American watch making machinery. Sellers' tools were without a parallel in the history of exhibitions either for extent, money value, or for the conclusion drawn from the whole, is suggestive.

"In past times England has been the nursery ground of purposes of their mighty show." the manufacturing system, her factories have been visited for the same purpose, in regard to the production of other things, and there is no time to be lost if we mean to hold our own in the hardware trade of the world, at least in regard to the class of things that are required in large number importance, that tools have taken such a hold on the Amereffect not only on that continent, but on Australia, China, and the world generally: this therefore has a profound significance which can scarcely be overrated."

PROGRESS OF THE MISSISSIPPI JETTY WORKS.

Captain Eads' latest report of progress upon the improvement of the South Pass of the Mississippi river is most gratifying and leaves no question as to the ultimate triumphant gress did not do, when the way out of the difficulty is perbar at the mouth of the Pass by the jetties has created a tise themselves in Paris. channel over 200 feet wide and in no place less than 20 feet deep, where only about 8 feet previously existed. The concentration of the water flowing over the shoal in the river at the head of the Pass has likewise created a channel over 400 was one of the principal topics of discussion at the late meetfeet wide, in no portion less than 20 feet deep and 30 feet ing of the master car builders' association. The competition General Superintendent. deep in the center, where before the depth was scarcely 14 of water conveyance, together with the general depression feet. During the time in which a portion of the flow into of business, makes the demand imperative that there be some the Pass was interrupted by the works at its head, and while method by which freights may be moved at cheaper rates the current consequently slackened, Captain Eads states than those now employed. The solution of the problem is the jetties. But the gradual restoration of the normal flow at large. Stockholders are interested in a fair percentage for lafter the disease has commenced. into the Pass through the new channel at its head has al- the stock they hold, while the public are more interested in ready begun to enlarge the Pass again and, continues the re- some cheap, yet rapid method of conveying goods and agriport, "has, since this restored flow commenced, removed cultural products to their various points of destination. To stuffing machine, illustrated in last number, will address Mr.

ico and Central America. It signified water, war, and the more than half the length of the jetties a much larger and that to secure returns to stockholders, some energetic action top of the head, and furnished a series of words, such as deeper channel than ever previously existed, the size of must be taken that will enable them to lower their rates of attan, on the border of or amid the water; also attaca (pre- which is already throughout more than 2,000 feet, 28 feet transportation. terit, atlas), to combat or be in agony, and to hurl or dart by 300 feet, or that required to entitled us to the fifth payfrom the water. Atlan was the name of a native city at the ment from the United States, while many hundred feet of have had long and varied experience in such matters, that it

> prevented by the gulf current athwart the mouth of the river current fails to carry to unknown distances seaward. Eads concludes his report and at the same time announces his genius and ability in the following terms:

"I may add with absolute certainty, that this entire system of works is now so far completed that no financial speed than if kept running at a low rate of speed, as, at the chines and tools for working wood, metal and stone, at the difficulties can intervene to arrest the processes of nature less rate, the engine is kept under strain twice as long, and Centennial, to the recently issued volume of reports of the which are constantly operating to enlarge and perfect the during this time a large amount of heat is lost by radiation.

AMERICAN REPRESENTATION AT THE FRENCH

There has been some doubt expressed recently as to whether the Paris International Exposition would take place in 1878, track and rolling stock. If the track be high in some places it being surmised that the unsettled condition of affairs in and low in others, causing the train to be tossed from one side Europe would render its postponement necessary. Late ad- to the other, it will result in wear and destruction. Car straightforward way, however, of telling what he thinks, vices, however, show that there is no basis for this suppo- wheels must be round and not eccentrics. With the movesition, and that the work of erecting and making ready the ment of the train these defects will be augmented and result buildings is being vigorously prosecuted. The N.Y. World's in danger and damage. It was said by an official, who was correspondent states that the masonry and brickwork are in connected with a very important line: "If you car men will special and labor-saving devices. The invention of these he are competing in the matter of rapidity of erecting the train brake, we will dispense with from one third to one half thinks is our "natural forte and worthy of the old stock frames of the structures, and that the French Commissioner of the number of cars now in use, we will transfer grain probably quickened by the peculiarly favorable circumstan- General has officially announced the certain completion of from Chicago to New York in one half the time we now do ces under which they live. It was the display made in this all by the spring of next year. All nations with the excep- it in, we will move our trains at less cost to you for repairs, section of the exhibition which most conspicuously brought | tion of Germany and the United States, have accepted invi- as has been demonstrated by trains running over this line and Turkey, despite the war, are to take part.

Germany's refusal to contribute is owing to the unhealed twelve miles per hour. breach between herself and France. Our own failure to originality and mechanical perfection." For torsional, ten-1 make the necessary preparations to ensure the representation sional, and malleable qualities the samples of American iron of our industries is, as is well known, due to the failure of and steel "were equal to the best of any country." "The Congress to attend to the matter before adjournment. It attempt such high rates of speed unless these trains were impression is left upon the minds of European visitors, that is stated that already large numbers of Americans are in American competition in machine tools will soon be upon Paris endeavoring to make arrangements as to space, etc., us, but that the competition will not be in regard to price, and that on the other hand, the "French are burning with but rather for high quality and productiveness and the capa-i desire to strain a point in favor of Americans by recognizing bilities of doing more work with a given expenditure on any body of men, or any invividual having a shadow of oflabor." The concluding paragraph of the report which is ficial authority, but until that person shall appear they are

It seems to us that if this view of affairs is correct a great and her system of cotton and other textile manufactures deal of regret over the so-called negligence of Congress is copied by all nations, but the time seems to have arrived being wasted over here. Let the representatives of Amerwhen we shall have to visit America in the same way and ican manufacturers, who "run from the legation to the tion will be from its starting point to the North Cape, thence finding anyone to give them a helping hand," help themto the President for official recognition. We do not see that or quantity. * * When we consider the enormously any further formalities are required, at least in the face of of 1879. greater area of the American continent, it is a matter of vast the statement quoted in the last paragraph. Then let them or their principals furnish money and invite subscription ican mind which will influence the civilization of the West- from every one who is interested in having an American ern world for ages to come, and will exercise a powerful display in the show, and with the funds so raised go ahead. It is getting to be an altogether too prevalent notion in these days of World's Fairs that we cannot get up a respectable display of our productions without an appropriation and a new army of office holders to spend it. Our unfortunate experience at Vienna goes to prove the fallacy of this even if to every thoughtful person the same were not already apparent. It is radically absurd to sit grieving over what Consuccess of the entire great work. Careful examinations feetly clear, and it is more absurd to wait for the possible have been conducted from time to time with the result of action of Congress in granting money when it meets next the launches on igniting envelope both the assaulting craft showing a steady increase in width and depth of the chan- winter. Even if money appropriated in December would and that assaulted in such a thick cloud that it will be pracnels, thus bringing to Captain Eads' theories the strongest not come too late to secure a proper official organization, in confirmation. For two years work has now been going on the present state of the national finances, when retrenchment any efficacy, or to sight her guns at her concealed antagoupon an unused outlet of the vast river. Up to the present is everywhere being enforced, Congress should not devote a nists. time the concentration of the water flowing across the sand cent to assisting any one or any class of the people to adver-

FAST FREIGHT RAILWAY TRAINS.

from between the jetties within the past three months over those railways that come in direct competition with lake, B. F. Grayson, Jr., Luray, Page county, Va.

It is claimed by some railroad men, and men, too, who is more economical to run freight trains at a high rate of The reformation of the bar in advance of the jetties, speed, say twenty-five miles per hour, than to run a train a which many engineers believed would occur, is effectually one half that speed. This will be one great benefit in the competition with the water routes. The advantages claimed Pass, which deepens the outer slope of the bar and sweeps for this high speed are, that when a train is once under way away any such portion of the discharged sediment as the less fuel is consumed, and less power is actually expended than when moving at the low rate of speed. In proof of At the head of the Passes the river has a width of over 9,000 this, experiments were made on the Lake Shore Road. An feet, and yet is brought under complete control by Captain engine with dynamometer attached was run from Buffalo Eads' works, which are so designed as to allow of the in- to Chicago and a record kept the entire distance, both at crease or limit of the discharge into the South Pass if here-twenty-five miles per hour and at twelve miles. The fuel after necessary with but little additional outlay. Captain was weighed and everything recorded that was thought of value. The result showed that in economy of fuel, the fast the splendid success which has crowned this application to speed had the precedence. Resulting from this is the economy of power in moving a train at quick speed, as, after once started, less power is required to keep the train at that With the fast speed, the train hands would be on duty but half as long and a consequent saving of wages paid, and finally but half as many cars would be required to transport the same amount of freight.

With fast speed trains, it will be necessary to look well to trains is less per number of cars than in the trains moved at

Surprising as may seem the statements made before the association, the facts of the economy of fast speed freight trains was acquiesced in, but it was thought advisable not to equipped with suitable train brakes, and the engine and tender provided with steam brakes always ready for application.

Nordenskjold's Next Expedition.

For Professor Nordenskjold's expedition, which is to set out from Gothenburg, in Sweden, in June, 1878, a vessel has obliged to hold that the United States is non-existent for the already been chartered for 150,000 Swedish crowns (about \$25,000). King Oscar has contributed 50,000 crowns from his personal revenue, but the burden of the expense will be borne by the friend and patron of Nordenskjold, a merchant of Gothenburg named Dickson. The route of the expedioffice of the French Commission and back again without eastwardly through the Polar Sea to and through Behring's Strait, thence along the eastern and southern coasts of Asia, selves. Let them organize their own commission and apply through the Red Sea, the Suez Canal, and the Mediterranean Sea to the Atlantic Ocean, and return home in the autumn

Smoke Screens for Torpedoes,

History is repeating itself again. In his veracious chronicle of New York Mr. Diedrich Knickerbocker says that, when an English ship sailed into the harbor, and arrogantly demanded of the primeval Dutch, the prompt surrender of their possessions, that portion of the phlegmatic population which had settled in Communipaw raised such a cloud of smoke from their huge pipes that the piratical British never discovered their existence in the midst of the dense fog. A similar plan is now proposed for the protection of torpedo boats from the fire of an attacked ship. Hale's rockets are to be provided with smoke balls and these discharged from tically impossible for the latter to use her electric light with

American Institute Exhibition.

Our manufacturers are now fully awake in the matter of exhibitions (thanks to the "Centennial,") and so far as their limited space is concerned, we are assured the coming exhi-The subject of moving freight at faster and cheaper rates bition of the American Institute of this city will be of more

RECEIPT FOR HOG CHOLERA.—Takeone teacupful of pulverized copperas and mix with one gallon of salt; and salt the hogs twice a week regularly. This is said to be a sure that a temporary deposit took place in the Pass and between one that effects, not only railway companies, but the public preventative, and has been known to cure in many instances

Parties desiring information in regard to the horse-collar