stairways following in a zig-zag line up the face of the bloff. These staitways will be about feet apart and the space between them will be converted iuto a wateriali. The distance from the level of the railroad tracks to the top of the bluff is about thirty three feet, and this distance will be divided into three waterfails, each having a fall of about ten leet. This atrange-ment will give the landscaps architect ample opportunity for producing pleasing effects and Architeot Walker beattractive feature to visitors. It will be necessary to dispose of over 1,000,-100 gallons of, water each day in order to keep the water in the lagoons to good condition, and it is thought that the waterfall will accomplish this result, while adding a pleasing leature to the grounds.

department of exhibits has The opened negotiat one with the manage-ment of the New York Central & Hudson River Railroad to secure the old De Witt Clinton engine aud trato. the first passebger train ever operated in this country.

One of the five passengers carried by this historic train is a resident of Bancroff, Neb. His name is Giles P. Raosum and he ta 84 years of age, He is a hall and hearty speci-from the bills of Vermont BR6. trom the sills of men and one of the most promising chizens of the fl.urishing Nebraska town where he resides. Mr. Ransom was a promin nt figure at the World's Fair, where he formed a part of the exhibit of the first passenger train, and be has written the department of exhibits of the transmississippl exposition that be will be giad to perform the same duty in councetion with the exhibit here.

The historic old relio made its first trin from Albany to Bobenectady August 9, 1831, anu Mr. Ransom, who at that time was about eighteen years old, was one of the five passengers. At that time the railroad was known as the Mohawk & Hudson River road, but is now a part of the great New York Central system,

If this englae and train can be secured, it will make a fit companion piece for the car which was used to convey the remains of the martyred Lincolo from Washington to Springfield. This old car is now the property of the Union Pacific and the officials of that road have agreed that it shall form a feature of the transportation exhibit.

The board of managers of the Trans-Mississippi exposition have decided to provide for an extensive rairoad exhibit in the transportation department, Manager E. E. Bruce o the department of exhibits, said today that his plans to this end are now heing formulated and that he is in consuitation with some of the big railroad people who have volunteered to assist him in the work of getting together a oreditable transportation exhibit.

A proposition covering a feature of the transportation exhibit is for a the cycloramic portrayal of a railway journey frim const to coast, depiction, with accuracy the diversified scenery slong the line of great railway systeme.

Nearly \$1,000,000 is in sight, from all sources, for the exposition. This sum is being constantly added to and it is expected will be more than doubled by the end of 1897.

The estimated cost of the Exposition buildings, apart from the government and state buildings, is \$550,000. It is said thaf the sum total of cost of Exposition buildings of every kind, in-oluding those of different states and of concetaionaires, will approximate \$1. 000.000.

Estimates already submitted fix the probable cost of putting the Exposition grounds in shape at \$500,000. The fer ce enclosing the ground is about five miles in extent.

The government and state appropriations, aggregating \$300,000, will be available in July. Montaus, Utab, New Mexico, Louistana and lows have hade prelimicary appropriations to cover cost of representation at the Expesition, the total sum being about \$55,000

Mr. Rosewater is in close communication with agebts of the Exposition at Springfield, Ill., and hopes to an-nounce soon the passage of a bill peodlog before the Illinois legislature, appropriating \$50,000 for the Trans-Mississippi Exposition.

## UTAH MADE CEMENT.

New projects and enterprises A PA generally bedged around by obstacles, and particularly is tute so with commercial undertakings in new countries where money is scarce and the natural resources undeveloped. But patient, persistent and well-directed effort overcomer, one by one, these obstacles and success in the end fails at her feet. Such has been the experience of a mose deserving enterprise, namely, the Utab Portland Cement company. I ta struggie with adversity has dragged through six long years, and years of especially discouraging couditions.

In 1890 a company of local men underious to manufacture cement from the native stone found in the endiese resources of onr mountains, and the genuine' quality of the materlai was at once demonstrated. Two pears later Messre. Cairns and La Due, eastern experts in the manufacture of real Portland coment came this way and investigated the work undertaken by the home company. Their discoveries in the lanoratory gave them all the eucouragement needed so lar as the capabilities of our native material were concerned. They negotiated for s fifty years' lease of the plant, shuate, on the R. G. track at Eighth lease of the plant, stiu-South street, and also the quarries be louging to the company.

deg seeds orew seecons to berussa od tlemen that they at once secured the Investment of eastern capital and in-Corporated the concern. A new and costly kin was erected with the guarantes from the courractor that it would do the desired work, but it tailed in this and put the corporation bot only to the annoyance of a longidelay but great expense. Being disappointed, and tunus low, failure seemed almost Devitable without additional aid. Like Paliesy the potter, fuel pottery and credit consumed, with enccess still in the dim suture. They besitated for a moment. But the material, like, bie lost art, had not disappuloted them, it was their wurking of it that was at finnlt.

bilities of the material moved the company to construct a new kiln, which was the one thing necessary to the production of cement second to none in present use. This was done, and a usiural vesib averied by the friendly investment of additional capital. The construction of this kiln atter the models of eastern factories was completed this spring and the factory is at present in full operation and is producing an article equal to the sanguine desires of the projectors, The cement manufactured has been put to the severest tests and is equal if not superior to any imported coment. such as the English or German.

The success of this enterprise means to Utab the saving of home capital to the amount of \$170,000 annually and the employment, ut many men. The day is long passed wherein it could be said that no good thing can come out Utab. of.

"After a most thorough test of this cement I can conscientiously recomcement is used," says Mr. Eline Morris, one of the original members of the company. City Engineer Kelsey also gives it his highest fecommendation. In fact the Ulab cement is a perfect article, and what is encouraging for its successful manufacture is the fact that it is put on the market cheaper than the present plice of the imported cement.

The material for the cement comes from Parley's canyon, about four miles from the mouth, where there are vast quantities of perfect coment stone. l'as material is taken to the cement works on Fifth West street, and there is ground and mixed in the right proportions. In the quarries some of the stone has too muon lime, some too This has to be regulated, at the works is done by little. 605 careful 180.00 chemical the Theu the material is baked in teste. bricks, being hardened like clinkers, It is then ground up and prepared for market.

Under the process with the old kiln, which was improperly made, a bigb grade article was hot always secured. Now it comes every time, the new kiln working to perfectioo. Now it comes every time, the An experienced man, brought from Germany, and employed because of his superior skill, directs the furnace operations; and every time a high class cement comes from the kils. As at the Lehi sugar fac-tory every run is of the best sugar in the market, so at the cement works, every lot of cement is above the stand. ard tests for tensile strength.

When the Butte committee was here, tests were made with the Utab. and imported coments in competition. In every instance the Utan article proved the equal or superior; not once did it fall back. The result te that when Butte goes to work with its pavements, 20,000 harrels of Utah coment will be wanted for the work now projected.

The Utab cement can be furnished to Moutana, Idabo, Colorado, and Wyoming, in competition with Lbe Portland coment from abroad; and the article produced here is superior to anything of the kind in Western America. If this coment works had thult. Continued confidence in the possi- Lake was using so much Portland.