

COXEY AT CORVALLIS:

Continued from First Page.

FREE SILVER.

Free silver will not settle the question. It is only a drop in the bucket. Every bit of silver we produce is only eighty million dollars. We must have a non-interest bond bill.

He stated that Young, the state central committee secretary, wrote him not to come to Oregon. That it was at the instance of Weaver and Tulewicz who wanted to run the party in the interests of free silver. Says he answered Young that he was coming anyhow. Other men had written him to come. Young then wrote to the populist committee not to help him get a hearing.

The populists have the wrong man at the head of the state committee. The voters neglect their primaries. He criticized the old parties for electing 275 lawyers and only 2 farmers to congress, yet you have a lawyer for secretary of the state committee, and another for treasurer.

Mrs. R. DeYoung, Middleburg, Ia., writes, I have used One Minute Cough Cure for six years, both for myself and children, and I consider it the quickest acting and most satisfactory Cough Cure I have ever used. W. E. Brock.

Are you made miserable by indigestion, constipation, dizziness, loss of appetite, yellow skin? Shiloh's Vitalizer is a positive cure. For sale by the Delta Drug Store.

WASTE WATER POWER.

The force of gravity, as shown in the fall of water from a high level to a lower one, was utilized at once by the first settlers in this country, not only as in all primitive nations, for converting the grain into meal which was to supply them with food, but for providing the timbers and boards from which their dwellings were constructed from the dense forests which originally covered the land, and which by the protection of their fallage rendered the water power permanent and valuable.

In the latter respect the condition of the country is sadly changed, for the destruction of the forests, though not affecting the annual rainfall to any material extent, has rendered the flow of the streams more variable and more subject to heavy freshets in the spring and autumn, and equally severe droughts in the summer and winter. Notwithstanding this, there is a vast amount of energy now wasted, contained in the annual flow of the rainfall to the sea, and it is of this conversion to useful purposes that the writer proposes to say a few words.

For the first hundred years of the settlement of the country the aforesaid purposes were probably the only ones to which water power was applied; but from the middle of the last century we begin to hear of its use for other purposes, such as the operation of trip hammers, oil mills and other machinery, and at the close of the century it began to be employed in the manufacture of textile fabrics of cotton and wool, to clothe the citizens of the new and independent republic. The water power of the country was more and more called upon to supply the forces which were needed to supplant human muscle, and the first great development of its employment on a large scale may be seen in the city of Lowell, in Massachusetts.

The preliminary experiment had been made on a moderate scale at Waltham, and the success of that led to the purchase of the water rights on the Merrimack river at Pawtucket falls, in Chelmsford. There a water power plant of about 9000 horse power was established, which has since grown to 17,000 available in times of flood water, and the deficiency in low water is supplied by steam, of which there is now 10,000 horse power water and 20,000 horse power steam to the opposite condition.

The smaller woolen mills producing fabrics of a variable character have always been the most successful, and have been widely scattered over the smaller water powers of the eastern and middle states, and are now following the wool to the states in which it is produced in the largest quantities.

An examination of one of these small woolen mills, a few years since to see if any change in their dam or water wheel could be made which would enable them to increase their capacity about one-third, gives us a very pertinent illustration of my subject. The condition is this: the mill stands in a prosperous New Hampshire town on a stream which, coming from a large lake, has a very steady flow, and furnishes at the mill about 100 horse power. Between the lake and the head of the mill pond, a short four miles, there is a fall of over 300 feet utilized only at one point, where another small woolen mill stands on a hillside, sufficient level ground being available to plan a mill and make a very small mill pond. There is fall enough immediately below this mill, unused, to furnish 100 horse power, and the same amount could be secured immediately above; at the farthest point not two miles from the village.

Then comes half a mile of level meadow, which could be dammed and make an admirable storage pond and then a mile more of rapid current and small falls in the gorge below the lake, making 400 horse power which could be developed at a moderate cost, if a proper site could be found to use it. For such development, under such circumstances, I should probably use a timber dam, such as New England millwrights

are used to building, and set a small pair of turbines on a horizontal shaft. The whole fall was 39 feet, 13 feet of it being in the feeder, above the fore bay, in which the wheels were set, and 26 feet in the draft tube, below the wheels, this being about the extreme limit to which it is advisable to extend a draft tube. A stand pipe rose from the fore bay, and the water in it always stood at the level of the head above the dam. Everything was timber except the wheels, quarter turns and draft tubes, which were of iron and airtight.

A pair of turbines of from 18 to 25 inches in diameter, according to pattern, or maker, would give 100 horse power under 25 feet head from the stream referred to, and make from 300 to 450 revolutions per minute, according to diameter, and the total cost of such a plant may be taken at \$5000, or \$50 per horse power, including the dam. Now, if to this we add 30 dollars per horse power for generators or dynamos at the wheels, \$30 per horse power for transmission wires, and 30 dollars per horse power for motors at the village, we have an investment of \$140 per horse power.

If we allow 5 per cent interest on this plant and 6 per cent for sinking fund, insurance and taxes, making \$15.40 per annum per horse power, and \$150 per annum for attendance, we have a total cost of \$1990, or say \$20 per annum for the cost of one horse power, or \$2 per annum for the cost of one inconstant light, at the rate of ten lights per horse power, and this is not over one-third of the cost of the steam power, in similar small quantities, except when close to the coal mines. Similar conditions may be found all over the mountainous districts of this country.

I have already spoken of the great undeveloped water powers on the Merrimack river. The purchase of the water rights and 700 acres of land adjoining the falls, known as Sewalls falls, has been quietly made during several years past, under the management of Mr. Geo. F. Page, with the intention of establishing a manufacturing town on the spot, where there are some admirable mill sites for building, but the recent improvements in electrical transmission of power have turned the thoughts of the projector to the supply of power to the city of Concord, where there are now some important industries. Mr. Page tells me that the height of the dam, when fully completed and the flash board on, will be 22 feet high. The total horse power given at the wheels will be an average of 6500, or about that. The total amount expected to be used by the city of Concord for lighting and power at an early date is approximately 1000 horse power. The distance of transmission from the falls to the state house is four miles, with service lines running in some cases two miles farther. The cost of generators at the dam, transmission wires and motors in the city, is estimated at \$30,000 for each, or \$90,000 for 1000 horse power. He adds: "We are going to introduce here what is known as the three-phase or tri-phase" system for power transmission, a voltage of 2500 transmitted over small wires, at small drop, and so arranged that the small currents, where we desire it, can be used for power, incandescent lighting and for arc lights also."

A canal 60 feet wide, and of ample depth, is provided to supply power to such manufacturing establishments as may prefer to locate near the dam and use water direct. The power house is so built as to be capable of extension, if needed, so as to add more turbines and generators.

The generally accepted plan of setting turbines for such purposes is by placing three pairs of turbines on one shaft, giving 2000 horse power under a 40 foot head. This system was planned by the advice of the late Jas. B. Francis, of Lowell, so as to use a variable quantity of water to the greatest economy at all times. Although the wheels used in the original construction were from another builder, the general form of setting them on horizontal shafts, adopted by all builders, is so simple that an idea can easily be formed as to the plan here in question. - Wind and Water.

A. L. Wooster, a prominent citizen of Orono, Me., after suffering excruciatingly from piles for twenty years, was cured in a short time by using De Witt's Witch Hazel Salve, an absolute cure for all skin diseases. More of this preparation is used than all others combined. W. E. Brock.

Catarrh cured, health and sweet breath secured, by Shiloh's Catarrh Remedy. Price 50 cents. Nasal injector free. For sale by the Delta Drug Store.

The Best Plan.

Miss De Plan—"Doctor, what is the secret of beauty?" Family Physician (confidentially)—"Be born pretty."

Young mothers dread the Summer months on account of the great mortality among children, caused by bowel troubles. Perfect safety may be assured those who keep on hand De Witt's Colic & Cholera cure, and administer it promptly. For cramps bilious colic, dysentery and diarrhea, it affords instant relief. W. E. Brock.

"The giraffe has a tongue 18 inches long," said Mrs. Garrill. "And knows how to hold it, too," snapped Mr. Garrill, who had had a long curtain lecture the night before.

Constipation causes more than half the ills of women. Karl's Clover Root Tea is a pleasant cure for constipation. For sale by the Delta Drug Store.

REPUBLICAN SILVERITES WON'T BOLT.

The promptness with which the Montana republicans killed the resolution for a bolt in the St. Louis convention is significant. A proposition was brought before the Montana convention that the delegates of that state should walk out of the St. Louis assemblage if nothing be done for silver, and it was laid upon the table. The Montana convention of course, declared for the free coinage by the United States independently. It even went so far as to endorse the stand taken by the five republican Senators—Teller, Pettigrew, Carter, Mantle and Dubois—a few months ago, when they antagonized their party on the tariff because the party opposed the granting further favors to silver. But Montana republicans are going to stick to the party regardless of the sort of a platform which is adopted at St. Louis or the kind of candidate who is nominated.

Probably this is the attitude which will be taken by all the Republican Conventions in the Silver states. Colorado, the largest of all mining states, has a convention tomorrow and if a bolting resolution is introduced it will undoubtedly meet the fate which befell its predecessor in Montana. Senator Teller's voice is still for war, but the Wolfcut and not the Teller spirit is likely to prevail in the Colorado gathering. Some things have happened in the silver locality recently which are calculated to give the extremists pause. Senator Pettigrew, of South Dakota, was unreconstructed and irreconcilable a few weeks ago, and he attempted to commit his state to free coinage and rebellion, but he was quickly routed and coerced. Senator Hansbrough, of North Dakota, was surprised that his state declared for the gold standard, but he gracefully surrendered to the inevitable. Nebraska is in company with the two Dakotas on the gold side.

These defeats are discouraging to the persons who threaten to hoist the flag of revolt. And in the cases where the rebels were successful in their immediate neighborhood and purpose their situation is even more disheartening to their would be imitators. A few years ago Senators Stewart and Jones, of Nevada, had great influence in the republican party, but they abandoned it on the silver question, and then they have been isolated, effaced, cut off from all living connection with anything and everything which counts in politics. Their state endorsed them, but their state is so insignificant, materially and morally, and when it held its Republican Convention last week the rest of the country did not hear the result until four days later, and did not inquire or care about the result, and immediately forgot it. Senator Jones was at one time of such importance in the republican party that President Grant, in 1874, shortly after vetoing the inflation bill, wrote a letter to him which started the movement that led to the passage of the resumption law in January 1875, and to resumption itself in 1879. Today Jones is a man without a party, a Philip Nolan of politics. He claims to be in sympathy with the republicans on every issue except the supreme issue of honest money, and thus he is excluded from the populists and the democrats. Jones' fate awaits every republican who bolts on the silver issue. -Globe-Democrat.

De Witt's Sarsaparilla cleanses the blood, increases the appetite, and tones up the system. It has benefited many people who have suffered from blood disorders. It will help you. W. E. Brock.

Consumption, lagrippe, pneumonia and all throat and lung diseases are cured by Shiloh's Cure. For sale by the Delta Drug Store.

SHAKESPEARE ON THE BIKE.

Shakespeare, it would seem, must have known something about the bicycle, for throughout his plays he makes frequent references to the wheel. It must be that "Hamlet's" father had visited a bicycle academy where beginners on the wheel were plenty, for his ghost said, "What a falling off was there?"

The most excellent description is paralleled by another in the same play in which reference is made to an accident, the new woman of the sixteenth century evidently being the greatest sufferer. The "First Player" says: "Break all the spokes and felines in her wheel."

Then the "Fool" in the Lear gives advice to coasters, of the merits of which the modern rider may judge for himself. He says:

"Let go thy hold when the great wheel runs down hill, lest it break thy neck with following it."

Even "Cleopatra" had her wheel. "Antony" advises her to mount it and seek "Caesar" when he says:

"Oh, 'Caesar,' seek your honor with your safety."

There were evidently bicycle thieves in those days, and the owners had to carefully guard their precious wheels. In the tempest "Ainoz" says to the "King":

"We, too, my lord Will guard your person while you take your rest, And watch your safety."

In that same play "Aries" undoubtedly heard the "King" and his attendants coming on their wheels when he sang:

"Hark! Now I hear them: ding, dong, bell."

There is no doubt that "Achilles" in Troilus and Cressida, traveled on a bicycle, for he says to his myrmidons: "Attend me while I wheel."

It is safe to assume that, as today the wheel is a source of conversation so was it at the time of Titus Andronicus, though the listener was more patient then. "Aaron" says to "Demetrius":

Now talk at pleasure of your safety. It appears from a quotation made by the "King" in All's well that Ends Well that the law required lamps to be carried at night, and that a violation of it was followed by death. He says:

Let me live after my flame lacks oil. Chains were not needless, and were used in the days of the Comedy of Errors, as is shown by the conversation between the "Dromio" of Syracuse and "Adriana," which runs thus:

A chain, a chain do you not hear it? What, the chain? No, no, the bell.

The availability of wheels in dangerous service is illustrated in Coriolanus, when the wounded messenger says to Cominius:

Spies of the Voices Held me in chase, that I was forced to wheel

Three or four miles about, else had I, sir,

Half an hour since brought my report The tire about which Shakespeare wrote was evidently filled with air, instead of air, and even its color was of importance. In Much Ado About Nothing "Margaret" says:

Like the new tire within excellently, if the hair were a thought browner.

"Puck's" prophetic remark about placing a girde round the world in forty minutes is fully equalled by that of "Launce" in The Two Gentlemen of Verona when he says:

Then may I set the world on wheels. Surely this prophecy has been fulfilled.

Don't fool away your money buying worthless remedies, which are warranted to cure every disease. Remember that De Witt's SARSAPARILLA is a Blood Purifier and Blood Maker. W. E. Brock.

Catarrh cured, health and sweet breath secured, by Shiloh's Catarrh Remedy. Price, 50c. Nasal injector free. For sale by the Delta Drug Store.

Prof Goldwin Smith thinks that if he lives a few years longer he will see "the last poet, the last horse, and the last woman." The prospect is that the horse will be replaced by something better, but the result may not be so fortunate in the other items.

Ezema is a frightful affliction, but like all other skin diseases it can be permanently cured by applications of De Witt's Witch Hazel Salve. It never fails to cure piles. W. E. Brock.

The best Cough Cure is Shiloh's Cure. A neglected cough is dangerous. Stop it at once with Shiloh's Cure. For sale by the Delta Drug Store.

THE OLYMPIC GAMES.

After a lapse of fifteen centuries Greece has seen a revival of her olympic games, and in this revival it is gratifying to national pride to be able to chronicle that American athletes were more successful than those of any other country. The Olympian games were the most prominent of many similar periodic celebrations or festivals in other places. The olympian games were first held in 776 B. C. in Olympia in Elis. The festivals were celebrated at intervals of four years in honor of Zeus. The importance of the games was so great that the Greeks computed time by them, the time from one celebration to the next being called an "Olympiad." For the country at large the festival ministered to the selfish and malignant passions of rival cities, each of which felt its honor concerned in the success of the individual. To the winner, however, the games brought lifelong honor, for when he returned to his city the walls were thrown down to give him entrance, he was caught up and borne in triumph procession and he was freed from all taxes. The games were finally abolished in A. D. 394 by the Emperor Theodosius.

In walking through the Stadium of Athens on April 6th, while the thousands of spectators rose to their feet, it must have been a proud moment for King George of Greece and Queen Olga. The Stadium is one of the finest amphitheatres in the world. It was scientifically excavated in 1869-70 at the expense of the king. Its recent restoration was made possible through the munificence of a rich citizen of Alexandria. It is 656 feet long and 150 feet wide and its seating capacity is 47,000. The empty amphitheater was imposing, but when filled with the gayly costumed crowd the scene was one which will never be forgotten by those who witnessed it. What must have been the sensations of the victor when the countless thousands of spectators rose from their seats and the applause of the individuals was blended into one great body of spontaneous and generous enthusiasm? It is little wonder the simple crowns of olive obtained under such circumstances like those are held as priceless.

The interest throughout the games was unabated and the applause was hearty in the extreme. It was hard indeed for the Greek to see the American flag go up so many times in succession.

After several disappointments the Greek flag was raised amid cheers only to be immediately replaced by the stars and stripes, as the winner had been erroneously announced, for an instant you could almost hear the crowd choke down its bitter disappointment.

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See that you get C-A-S-T-O-R-I-A.

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Children Cry for Pitcher's Castoria.

pointment, but after a moment's hesitation it broke out in magnificent applause.

The two great dramatic events were the throwing of the discus and the run of 40 kilometers from Marathon. When Robert Garrett, of Princeton, threw the discus 95.6 feet, defeating the Greek champion Panagiotopoulos by 7 1/2 inches, the Greeks felt keen disappointment at being beaten at their own sport. Their chagrin was allayed by the magnificent victory and wonderful record of Loues in the race from Marathon to Athens, 26 1/2 miles in 2 hours, 48 minutes.

When the signal gun announced the approach of the winner, all rose in their seats and strained their gaze toward the entrance to the Stadium. The cavalry dashed down the street clearing the way for the runner. He was sighted approaching the goal with weary, panting strides. In an instant there arose a mighty cry of "We win! It is a Greek!" The athlete was seized by the two princes, and he passed the king making a proud salute. Hats and flowers were thrown into the arena, and it seemed as though the applause would never cease. Then followed, according to the custom of ancient Greece, the stowal of the much coveted olive crowns, which were presented by the king with a diploma.

The American -athletes were charmed with the attentions which they received at the hands of the

king and Crown Prince George. They were banqueted several times in the palace of the king and were entertained in various ways. When leaving Greece they were serenaded by the people over the whole way from Athens to Patras. It is almost needless to say the American athletes were enthusiastically received by their various colleges on their return. -Scientific American.

A NEW HORSELESS CARRIAGE RACE.

The Rhode Island State Fair Association announces that \$5000 will be given in prizes in a series of horseless carriage races to be held during its annual exposition week at Narragansett Park, Providence, R. I., in September. Racing of this kind, has been attempted before, but never on so large a scale. The series of races will be held on a regulation trotting track, and the results promise to be interesting. One of the exposition buildings will be set apart for a horseless carriage exposition. Certainly no "infant industry" was ever so coddled and fostered by the offer of large rewards; up to the present time the results in this country have not been worth the cost.

In the spring the young man's fancy lightly turns to thoughts of—De Witt's Little Early Rider, for they always cleanse the liver, purify the blood and invigorate the system. W. E. Brock.

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