MINING AT THE FAIR.

The act of Congress providing for the World's Columbian Exposition, raised many expositions had denied it. At Paris, at London and at Vienna, the mineral exhibit was permitted to occupy a single court or ranger section, and was comprehended within one group of the general classifications. At the Centennial Exposition while the exhibit was larger in area than those of Paris and London, yet it was not deemed of sufficient importance to be placed in a separate building, but was located in an annex added to the industrial building.

Under the scope and plan of the Columbian Exposition, and under the classification provided for guidance in installation, many of the branches of the mining industry, heretofore included in other departments, will be placed in their legitimate and special positions in the mining building.

Inspection of the classification of Department "I," Mines and Mining, gives more adequate idea of the variety of the exhibits comprehended. The raw material, the natural product, to be exhibited in the Mining Department, will constitute the basis of every other exhibit in Mines, Mining, Agriculture and Horticulture. The ground work of all the arts and sciences and the mechanical industries will be embodied within the walls of the mineral palace dedicated to Mines, Mining and Metallurgy. All of the precious metals, all of the economic minerals, all of the building stones and marbles, all of the clays and sands, all of the salts and pigments, as well as the machinery, implements and appliances employed in their conversion to the use of man, will be fully represented.

COAL.

The subject of coal will be treated in very broad lines. It would be impossible to accept for exhibition purposes all the really meritorious specimens of coal that can be secured, for the purpose of demonstrating the resources of the country in this great fuel. The treatment must be comprehensive, and the exhibit of coal display based upon the distribution of the great coal fields that stand out prominently in the geology of the country. The coal industry is of gigantic proportions, involving the investment of many millions of dollars and the employment of hundreds of thousands of people. The exhibit of coal at the Exposition will be qualitative rather than quantitative. The different varieties of coal produced by the different localities will be noted, together with the chemical analysis of each and the results of two determining economic value and adaptability to various uses. The coal resources of the countries, states and nations will be shown by geological maps and drawings, exhibiting the stratification, cross sections, etc., which will render apparent the extent and accessibility of the vast number of coal beds and veins which underlie the earth's surface.

IRON.

As regards iron, efforts will be made to have an adequate exhibit of this great branch of industry. Without considering the contributions that will be made to the division by foreign governments this country, which is now the first nation in the world in iron production, will provide a display of deepest interest and benefit to the manufacturing world. The development of the iron resources of the southern United States within the past few years, no less than the attention which has been devoted to this particular industry in the West in the same period, surmounts this product with national interest. It is intended to arrange this exhibit with the fullest appreciation of the magnitude and the importance of the iron industry, with ample data as to the location and extent of the greater deposits, the analyses of the ores, with all the machinery and devices employed in mining, hoisting, conveying, storing, etc. Statistics not only based upon the operations of the past, but in a degree indicating the extent to which they may be carried on in the future, will constitute a valuable feature of this division.

ORES.

Every provision has been made for the installation of the ores of both the precious and base metals and valuable of mineral specimens contributed by private individuals, associations and technical and mining schools. These will be arranged with conspicuous care as to detail. States, nations, individuals, societies and colleges will vie with one another in endeavor to exhibit their superiority of their respective collections, or to demonstrate the value of certain mineral countries, districts or lands. Every ingenious device and design will be utilized by the several States, Territories and countries in illustrate the magnitude of their capacity.

MINING MACHINERY.

The division of mining machinery will demonstrate the usefulness and economy of every character of mechanical equipment. Every device, invention, tool and appliance employed in the great industry will be fully represented, either by an exhibit of the full-size plant or by working models. The entire plant of smelting and refining works and the heavy machinery used in crushing and separating ores will be in operation. A complete series of metallurgic processes from galena to pigmy will be installed.

The extensive appliances and tools employed in the great petroleum and natural gas industries will be amply exhibited, with oils and bi-products. No group will be of greater interest or of more practical value than that which illustrates the extent and method of the geologic operations to take division of the mineral kingdom.

Plans for not the best methods of exploring mine offices will be provided and illustrated. Heating and ventilation furnaces, wire ropes, cages, etc., with hoisting pots and frames handy for the production of the reports "Bullion," valuable and other test methods, rules and measures for preparing for latest and the most delicate instruments of precision—these and the associated apparatus of metallurgy will be exposed for the edification and instruction of the visitor.

MARBLES, ETC.

Marbles, agates, jaspers, onyx, silicified wood, etc., will be offered for the inspection of the architect and decorator. Numerous machines and tools for channelling, sawing, lifting, turning and polishing granite, sandstone, marble, etc., will be collected for the purpose of demonstrating the facility with which great masses of stone are transformed into useful and ornamental objects and made suitable for the most skilled handicraft.

Sands for the manufacture of glass, many colored clays and kaolin of all grades for the potter, brick-maker, porcelain worker, etc., polishing substances, whetstones, hones and emeries, will constitute a group of mineral interest to both the student and manufacturer. Asphaltic and cement materials and artificial stones, which have made the pavements of Paris and of the capital of this country, equally in their resistance as the substances of the world, will be illustrated in all their multifarious uses.

The ancient methods of the Old World and the forms and other salt workings of northern country and contribute their quota of this survey, exposition product. Adding to the same effect and interest of the exhibit will be variegated heaps of minerals, sulphates, borates, phosphates of all kinds, sulphur and metalliferous phosphates, nitrates and every variety of mineral fertilizers. In another group the world graphite, with the methods by which it is transformed for use in the shape of lead, crucibles, lubricants, etc., will be exposed.

ALUMINUM.

Ingots, bars and castings of white aluminum, with aluminum alloys, will be found in juxtaposition with pig and bars of refined copper. The one and silver, tin, steel, and for alloy to form aluminum, aluminum of titanium, aluminum, aluminum and other metals, with their uses and alloys will be arranged in a manner conducing to definitiveness, yet artistically and scientifically disposed.

In the mining machinery will be shown every operation in operation, simple and complex, employed in working mines from the lowest drift to the surface. Methods of timbering, ventilating and lighting the various shafts, levels, and galleries will be shown by models. Drills, hoists and accessories, pumps, engines for pumping, rock crushers, screens, grizzlies and other mining machinery will attract the attention of the visitor and interest to the greatest of all industries. Improved diamond drills and contrivances for boring and unloading ores and for tamping charges, automatic chutes for transference on the surface, patent self-emptying cars, wire ropes, ways with their middle of inclination, coal tipples, coke ovens, bell conveyors, etc., etc., will complete the methods by which the suspension mining operations of the present age are conducted.

MINING LITERATURE.

For the purpose of practical study, the division of history and literature of mining machinery will be to be surpassed. To this end, college faculties and professional men are already pledged. Every facility will be afforded for students to detail the geology and distribution of minerals and ore-bearing rock. The rain, literary, slides, tools, models, etc., of the leading educational institutions of the land, will present to the student who visits this great repository at the Columbian Exposition, an unsampled opportunity for considering the entire subject of historical and statistical mining. Mine engineering will be adequately represented by surveys and soundings, by projections of mount-ground work and models, and by literature descriptive of the methods of ranging shafts, levels, construction of mine workings and the handling of ores.

An elaborate and accurate reproduction of ancient and unique mining and metallurgic methods, appliances, and processes so illustrating the evolution in the industry, will attract the attention of all classes, and teach indelibly lessons in the science of science, invention and general civilization.

When the exhibits in the department of mines, mining and metallurgy shall have been judiciously collected, classified and arranged, the department will be a comprehensive and complete exposition of all the great mineral resources of the earth and the methods employed in their search, their treatment, and their service.

A GENTLEMAN OF HIS WORD.

Twelve Years Not Too Long for One Man to Keep a Promise.

"What makes some men the soul of honor?" asked the story teller. "Every one of us has had some experience to lite to prove to us that there are men of unimpeachable honor. I think the most honorable gentleman whom I ever met was a man of absolutely infernal luck. I first saw him in a frontier town. He had been a cowboy, but he had got enough in a terrible winter back on the plains, and at the time I first saw him he was only a wreck of the earth of a man, with legs unshapen and weak, and eyes that were nearly blind. He seemed to be just staying to die in that Dodge Colorado town, doing what little he could in the porter or pimp line around the saloons, and living on the charity of enough to take him away from his misery.

"He dropped out in the most unnoticed way. I asked the bartender, 'What's the matter with the old man?' I am in a bad way and I need it.'

"Now ten dollars was a good deal of money to me at that minute, for in my western experience I had my ups and downs, and at that time I was having my downs.

"'Couldn't a dollar do you?' I asked, for the fellow looked as if he had to have it to do something for him, but I knew that I couldn't spare me my money again.

"'No,' he said doggedly, or sullenly. I want to go to Denver. I am a poor crippled man and I want to get there and I can't get there without money. I haven't a cent in the world.' There were a great many men in that little town who were in the same condition.

"'But I can't spare ten dollars,' I answered. I can't do it.

"'Why, I don't need it as much as I do,' he said dully. 'Lend it to me. I'll pay it back to you. Give me your name and address. I'll find you—I'll find you.'

"Well, I gave him the ten dollars. I said that time he found me he would be paying it back. I expected to get out of the troubles some day and then I should see that the most of it.

"'No,' he said. 'I don't touch it on any other condition. I want to pay it back with interest—15 per cent, a year.' (Money was worth something out there.)

"So I wrote out my name for him, giving him as my permanent address the home of my family in the east. The next day he went to Denver. Shortly afterward I obtained into a saddle and rode away to 'punch cows'. I punched them with varying success all over the Colorado grazing fields for nine years. Having had enough of cattle raising to last me time out my time of good fortune having been considerably mixed, I sold my cattle and came back.

"Of course, after the first few months following my loss of ten dollars to the cripple, he never came into my thoughts, though there were times when that ten dollars would have been a good friend. But I made my way back to my home in the east for three years, had married and was the proud father of the prettiest baby in New York, when a letter was forwarded to me from my father's home in Massachusetts. It was my father's home in Massachusetts. It was a postoffice order for my ten dollars and interest on it for nearly eight years, a month. There was no word in the letter except thanks for my kindness and the assurance that he was now doing pretty well for him.

"I call that man a gentleman and I tell him so when I write him, and I also tell him something of a story which I hope would please him—that on the day I had made the first hard money for my hard work, and that the amount was ten dollars, he loan and the interest, and that though the interest for the loan would not be anything like 15 per cent, the deposit ought to bring him a good, fair, all there is in it.—New York Tribune.

A Cathedral Car Dome.

A smart and intelligent Norwich and and is the Franklin street hill home, belonging to the Norwich Horse Railway company. For several years she has done duty on the hill, and knows quite as much about the business of running horse cars as any other employee. She knows drivers. After breakfast she trudges up to her station at the foot of the Franklin street hill alone, and when a loaded car comes to which the sleep grade voluntarily takes her place in front of it and helps to drag it half a mile to Rockwell street. At that point the driver relieves the hill horse, and she goes leisurely back to the bottom of the hill. Sometimes she goes clear down to Franklin square, when the cars are started, and occasionally she does duty helping the cross horses up the road before the hill is reached.—Connecticut Cor. New York Sun.

Paper Covered Bullets.

In consequence of the excessive injuries caused by the bullet in the new Mauser rifle and of the resulting difficulties and wear on the barrel it has become necessary to devise some method of preventing both these evils. The inventors of the government factory at Thun, Switzerland, has consequently covered the surface of the leading bullets in a thin metallic covering, while over this he places a wrapper of specially prepared cheaptissue paper, which reduces the wear of the rifle barrel to minimum without interfering with the accuracy of the bullet.—Philadelphia Record.

The Queen's Jester.

The death of William Willett, Queen's jester, has probably left that office—which, of course, was not conferred—to an end. It seems to have been quite a bit, sin of humor in his own person, for he was also the first clown juggler who ever ventured to "shake sparrows shows." This class is grower and more sometimes than the other, and on the whole affects patronizing, when he brings his children to see the hoodoomaking, with a lot excessive acrobatics.—London Illustrated News.

Why a Steamer Vibrates in Calm Water.

Mr. Yarrow says that the cause of vibration in some vessels when running in smooth water with their propellers well immersed is mainly due to the force produced by the unbalanced moving parts of the machinery, such as pistons, piston rods, valves, gear, etc.

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