

### TESTING APPARATUS TO BE BUILT

GOVERNMENT PLANS TO ERECT GIANT MACHINE FOR EXPERIMENTAL PURPOSES.

Washington, March 23.—The largest machine in the world for testing the strength of structural materials used in great buildings and engineering works is about to be erected by the United States government at the geological survey testing station, Pittsburgh, Pa. It will weigh more than 200 tons and will tower in the air to an extreme height of about eighty feet above the foundations. It will exert a maximum pressure of one million pounds, which is equivalent to placing a load of 5,000 tons upon the beam or column to be tested.

This great machine will be housed in a structure 100 feet in height and of unusual strength, to which the testing apparatus will be secured by great rods, in order to brace it against any sudden pressure while the columns are undergoing the strain upon them. Elevators will run to the top of the machine so that the experts may examine the columns being tested from any point of view to detect the first signs of weakening.

When the Quebec bridge collapsed with great loss of life, general comment was made by engineers and others of the lack of knowledge concerning the strength of great columns used in such a structure and a plea was made that a testing machine of sufficient strength be erected so that the engineers may have accurate data as to the amount of load such a bridge should carry. With the construction of this machine it will be possible to test steel columns one-half the size of the largest chords now used in any bridge. This will be a decided gain to the engineering world which has been anxiously awaiting the construction of such a machine.

#### To Test Stone.

However, this is not the primary purpose of this powerful testing apparatus. Joseph A. Holmes, expert in charge of the technological branch, United States geological survey, under whose general direction the investigations are to be conducted, said today: "This machine was acquired for the purpose of testing the strength of large blocks of stone, columns of concrete and brick used in the building and construction work of the government. The United States government is the largest builder in the world, and it is essential, if the money is to be expended wisely, that there be a complete knowledge of the strength of the material used. The building and engineering construction will require during the present and the next years more than \$70,000,000 per annum. It embraces the most important and far-reaching engineering work undertaken by any government at any time and a program of public buildings costing from \$12,000,000 to \$15,000,000 yearly.

#### Relative Safety.

"The testing in this machine of the stone, concrete and brick columns will determine the relative safety, adaptability and durability of these materials, and how the quantity of each material used may be safely diminished, thus reducing the cost of the construction work.

"In the past it has been necessary to determine the strength of large columns on the assumption of the values obtained from testing smaller columns. In the case of stone, the small pieces tested were without the usual carried effects and seams which are to be found in large pieces of stone, and such tests as have been made show that the strength of the stone decreases as the size of the stone increases. In the erection of large buildings the strength of these columns becomes a very important matter and it is absolutely necessary that there be accurate data as to the strength which may be expected from these materials when used in larger masses.

#### Tests Necessary.

"In the rapid development of this country the enormous locomotives of constantly increasing size and the heavier tonnage have demanded a constant increase in the size of bridges, with built-up structural members of such size that we have been unable to keep pace with experimental data to serve as a guide for such structures. As a result, today we have practically no knowledge of the strength of these structures from actual tests and must base our information on the tests of very much smaller members. Bridges such as that which collapsed at Quebec, composed of a number of members held together by riveted connections, depend largely upon the design and workmanship, and this failure has demonstrated it is absolutely necessary that tests be made of the strength of these structures from actual tests and must base our information on the tests of very much smaller members. Bridges such as that which collapsed at Quebec, composed of a number of members held together by riveted connections, depend largely upon the design and workmanship, and this failure has demonstrated it is absolutely necessary that tests be made of the strength of these structures from actual tests and must base our information on the tests of very much smaller members.

### WHEN THE KIDNEYS GIVE OUT

Do you ever feel that you simply can't go any further—that you must have rest for that lame and aching back—pallid face, constant dizziness, tired feeling—freedom from those stabbing, darting pains?

This is the condition that so often comes at middle age, bringing with it an extreme nervousness and irritability that makes others think you "cranky" and "hard to get along with." Likely your kidneys are worn and tired and need help. In any machine there is one part that works the hardest and gives out first. The kidneys work night and day, removing from the blood the uric acid and other waste created by overuse of strength and energy. Naturally, a life of unusual activity doubles the duties of the kidneys, and in time the strain tells.

With healthy kidneys, one has a good chance to live long, free from backache, rheumatism is chronic, eyesight fails, and too frequent or involuntary passages of the urine cause embarrassment by day and loss of sleep at night. Doan's Kidney Pills bring new strength to old backs, and quick relief to weakened kidneys. They banish backache and rheumatic pain, and regulate the bladder and urine. When once a proper filtering action is restored through curing the kidneys, the

**DR. PRICE'S**  
CREAM  
BAKING POWDER

Made from GRAPES

To younger housekeepers, to beginners in the art of bread and cake making, no assistant will prove so helpful as Dr. Price's Cream Baking Powder. It will make you the best food easily and quickly.

It would be unwise to experiment with the cheap alum baking powders. They contain a poisonous element which slight accident or error in handling sometimes results in serious consequences.

### ONLY AMATEUR BOUTS WILL BE PERMITTED

Spokane, March 23.—Prize-fighting, in the guise of trials of skill, strength and endurance, received a trouncing that will put the game in Spokane on the shelf at least for three months when Mayor C. Herbert Moore officially recognized the Amateur Athletic Union, thus shutting out battles for purses or gate receipts within the city limits.

Everything had been arranged for a series of four-round fights, ranging from a battle for \$1,000 between "Boomer" Weeks, a member of the local fire department, and Dr. B. F. Roller of Seattle, who recently deserted the mat to don the gloves, to scraps of the meek ticket variety, when Mayor Moore gun-shod to town from southern California and handed Ren H. Rice, chief of police, an order which had all the characteristics of a juicy lemon from the fighters' viewpoint.

"Everything's off," quoth Chief Rice, who announced some time ago he would permit four-round contests, provided they are pulled off under the direction of the recognized clubs, adding: "The mayor has placed the boxing game where it belongs—a sport for pleasure and exercise. Any club competing with the Pacific Northwest association's rules can have boxing contests, but the participants must be amateur, boxing under amateur rules. This applies to every club in the city, including the Young Men's Christian association. They all look alike to me."

Mayor Moore's announcement came as a surprise to the fighters and promoters, at least a dozen of whom traveled several thousand miles to get in on the ground floor. They say this is the first time in the history of the organization that the A. A. U. has been recognized by a city government.

Jimmy Collins and "Buck" Freeman should be able to make the "reeded hit" now and then for Minneapolis. All of the St. Louis Cardinals of 1906 have passed into the minors with the exception of "Buster" Brown, now with the Phillies. Wilkes Barre, of the New York State league, will have a new \$45,000 baseball park ready for the opening battle with Scranton.

Major Moore's announcement came as a surprise to the fighters and promoters, at least a dozen of whom traveled several thousand miles to get in on the ground floor. They say this is the first time in the history of the organization that the A. A. U. has been recognized by a city government.

### VICTOR BREVITIES

Special Correspondence.  
Victor, March 23.—The high school play given last Saturday night was a pronounced success. It attracted the largest crowd that has yet attended an event in the new opera house. The immense audience was more than pleased with the performance. Every part was well taken and elicited favorable comments. The library fund was increased by the addition of \$163.35. The plays were "Idi on Parle Francaise" and "Timothy Delano's Courtship."

Mrs. Alice Vance died at the home of her mother in Victor last Friday night. The funeral was held on Sunday morning and the remains were laid to rest in the Corvallis cemetery.

Miss Lydia Roll and Ralph McVey went to Missoula last Saturday and were married there on the following day. They are both popular young people of Victor and have many friends here who wish them happiness. On the evening before their departure for Missoula a novelty shower was given for them at the opera house. They received many valuable compliments.

Mrs. Bowls has returned from Deer Lodge where she has been visiting for the past two weeks. Mrs. Kuhau, who has property interests in Victor, was down from Hamilton last Saturday.

Mrs. Wells of Stevensville spent Saturday and Sunday with her daughter Miss Caroline, who is teaching here. J. W. Lancaster was in town from Stevensville last Saturday. Mr. Lancaster recently sold a farm near Victor for \$25,000.

Mrs. Joseph Apollonio has returned from an extended visit with friends in Washington. The Victor band has reorganized and is practicing new music. This has been one of the best bands in the valley and everyone is glad to see it reorganized.

Mrs. Cooley who has been spending the winter at Lake Como returned to Victor last Saturday.

### SOUTHERN HERCULES WILL BE DEVELOPED

Special to The Daily Missoulian.  
Spokane, Wash., March 23.—E. J. Hunter, who has just returned from the level, from the bottom of which Clark of Missouri said he had gone to develop the Southern Hercules, a silver-lead proposition of 12 claims in the Coeur d'Alenes. The main shaft on the property is down to the 200-foot level from the bottom of which a drift has been run for 60 feet opening up a vein 22 feet wide, carrying eight feet of carbonate ore assaying 22 per cent lead, 10 ounces in silver and 45 in gold to the ton. A 400-foot tunnel is to be driven to a point directly under the shaft which will give a depth of 300 feet.

### MISSOULIAN WANT ADS BRING QUICK RESULTS.

### MANY NEW FEATURES PLANNED

NOVEL EXHIBITS WILL BE SEEN AT THE ALASKA-YUKON EXPOSITION.

Seattle March 23.—Seattle, the city on the Pacific coast where great things have been accomplished in a short time and where mountains have been removed almost in the twinkling of an eye to make room for the city streets, is about to undertake a gigantic task in the introduction of the accident to the orient through the medium of the Alaska-Yukon-Pacific exposition soon to open its gates to the world.

Already representatives of Japan and China are in Seattle and have met in friendly intercourse on the exposition grounds. The natives from frozen Siberia are mingling with the half-breed Filipinos and the Alaskan Indian looks on with amazement at this gathering of races in Seattle.

Should the signal to open Seattle's great exposition be sounded today everything would be found in readiness, for every exhibit building stands complete. Uncle Sam is putting the finishing touches on the structures to house displays from Alaska, Hawaii and the Philippines and the exposition as a whole has taken on the air of completeness.

Within the past year 250 acres of the campus of the University of Washington have been transformed from a forest to a fairland, and on every side paved streets and walks, shady paths, artistic exhibit palaces, state and county buildings, amusement structures and a host of features are ready.

When the word ready is applied to the Alaska-Yukon-Pacific exposition it means just that much, for the big exhibition is now more than 90 per cent complete. Even the city streets approaching the main entrance gates have been paved and parked and the street railway system of the city will soon have five double tracked car lines leading to the exposition.

Getting Ready.  
And Seattle, as a city, is getting ready to receive her guests. On every hand great preparations are being made. Seattle is going to be one of the best lighted cities in the country and great cluster lights will soon be burning on the main streets. The magnificent leading to the exposition grounds have just been paved and the whole scheme of improvements brings up with the beautiful grounds of the exposition as a fitting climax.

For the exposition is going to be the most beautiful ever held and with mountains, lakes and forests as a background for the works of art done in flowers by the landscape artists exhibition of the Pacific will be a rare combination of architectural skill and natural beauty which will no doubt surpass any exposition ever held.

Exhibits are commencing to arrive by the carload. New York and Canada will soon have their buildings complete. The big permanent fire-proof structures such as the auditorium, fine arts and machinery buildings have been ready to receive exhibits for weeks and the agriculture, mines, fisheries, foreign palace, oriental and other buildings are ready. The forestry building, with its pergola of giant firs from the Washington forests, is ready. This will be the largest log house ever built, and nearby is California's exposition home, a handsome building of Spanish mission architecture, both just a stone's throw from the state of Oregon's big building and across the street from the Washington state building.

The Alaska-Yukon-Pacific exposition, most advertised because it will exploit Alaska, that wonderful district of almost inexhaustible riches, is now ready and will be complete to the smallest detail June 1, 1909, the date for the official opening.

Miniature Farm.  
A miniature farm has been established at the Alaska-Yukon-Pacific exposition where the products of the state will be cultivated as an object lesson to the visitors. The fair at Seattle this summer, it is hoped that such a farm will do much towards increasing interest in the clearing of logged off lands of the state.

On the exposition grounds is a producing farm in every stage of its evolution from the country as the timber cutter has left it, showing practical demonstrations of the several methods of clearing. This it is believed will lead to a brisk demand among the eastern visitors to the fair for the logged off lands of the state.

To create further interest excursions will be run to the various sections of the state where the logged off lands are fast being converted into great producing farms. The miniature farm at the exposition will suggest the possibility of development and the excursions to places where such work is being done on a large scale will no doubt meet with the approval of thousands of visitors to the 1909 exposition as well as their patronage after they see the land as it really is.

There will also be demonstrations of the wonderful productiveness of the virgin soil of the state which will stand greatly in contrast with the worked-out farms of the east. This condition will commend itself to the eastern farmer who visits the fair. The very fact alone that two crops of potatoes can be produced every year on the same ground in the Puget Sound country is a fact that will probably surprise many easterners.

The miniature farm has been planted into small rectangular blocks which have afforded an excellent opportunity for the good roads instructors and landscape artists to sow the germs of modern road construction and the art of beautifying the farms which will have the effect of making life on the farm and in the country more attractive. Practical demonstrations of berry raising will also be made on the model farm.

Finest Specimens.  
Exhibits of the finest specimens of the silversmith's art and Tiffany's fragile glass will be on display at the Alaska-Yukon-Pacific exposition at Seattle this summer. None of the

# Some More Exquisite Spring Suits

## Have Just Arrived



During the latter part of last week we received a new shipment of fashionable spring suits that have every new innovation of the season. A better line in every particular has never reached our city in any previous season. Every one is faultlessly tailored and effectively trimmed in the newest styles. They are two, three and four-button cut-aways, square cut and fish tail styles, made up in plain and fancy Prunella cloth, serges and fancy new suitings. You would hardly expect to find such nice suits in such new and pretty material priced from \$25 to \$50.

For instance, one suit picked at random from the shipment is a remarkably clever suit in a late shade of ash of roses. The coat is a four-button cut-away, white satin lined and ornamented with self straps and braids of harmonious color. The skirt, though plain, is correspondingly as carefully made and finished, making the suit a most pleasing surprise when priced at \$25.

Other suits whose magnificence can hardly be described in type are here in plenty. All the new spring colorings, including catawba, wistaria, myrtle, canard and Edison blue, new tans and gold, and dozens of staples, are ready for your choosing. Those who particularly desire exclusiveness will find "the style center" true to its reputation. These are by far the most distinctive styles we have ever shown.

You should see our three-piece models, consisting of jacket and skirt with sleeveless jumper attached, also our line of fancy white serges that came in with this new shipment. Prices most pleasing.

## Spring Millinery Showing

While you are on the second floor the Millinery section cannot fail to interest you. All the new creations in fashionable headwear for ladies are now being displayed in almost every color and their shades. Fashion has chosen the rose shades as her favorite color this season, it would seem, though jet is a very close rival. A very impressive array of trimmed hats by the foremost Paris American artists has filled the department to its limit of capacity. The wonderfully clever color combinations, harmonizing together with the new, snappy spring shapes, is indicative of the master designer. Five hundred trimmed hats, choice spring styles, priced from \$5.00 to \$12.00

### Street Hats \$2.00

We are offering some very jaunty street hats of Milan straw in mushroom shapes, velvet girdles and feather trimmed; a very serviceable and pretty headgear for only \$2.00

### Children's Hats

Our line of children's hats eclipses anything that we have ever shown in the years past. Most noticeable are some bonnet effects in horsehair, with lovely ribbon rosettes and trimmings, shades of red, yellow, white and blue. \$2.50 up



# D. J. Donohue Co.

exhibits, representing an expenditure of more than \$225,000, will be on sale and the display will be one of the features of the fair.

The exhibit of silver has been loaned by the Gorham Manufacturing company, and consists of nine pieces, each worth a small fortune, the leading one being the celebrated Century vase manufactured for an exhibit at the Columbian exposition, and never since exhibited.

This vase illustrates in its design the progress of a century on the American continent, starting from early Indian days and carrying the idea through the transitions of war and peace, development and progress of the civilization and prosperity which marked the closing decade of the last century. This vase is four feet two inches high and five feet four inches across the base, is made of solid silver and weighs 2,900 ounces. The value of the vase is not determined, as the vase is not for sale, but it is insured for \$35,000. Four smaller vases accompany the Century vase.

Two other pieces in the exhibit are a lady's desk and chair of solid silver, of ornate workmanship, easily worth \$25,000. The silver exhibit of the Gorham Manufacturing company at the exposition totals \$150,000 in value.

The Tiffany fragile exhibit is famous and has been much exhibited abroad in recent years. The glass is regarded as the highest development of the glassblower's art, excelling in richness of coloring. The Tiffany exhibit is valued at \$75,000.

Yuseff Mahout, the giant Bulgarian who was sent over here to take a fall out of Champion Gotch, falling miserably in his exhibitions, after losing a handicap bout to Fred Beal, the Wisconsin man over whom Gotch scored an easy victory. Yuseff failed to down Charles Olson at Indianapolis on Wednesday night, in the stipulated time. In both the Beal and Olson matches Mahout weighed nearly thirty pounds more than his opponents. On the showing the Bul-

# ELECTRIC POWER IS POPULAR

The growth of the use of the electric motor in Missoula has been remarkable, due to cheap rates, efficient service and the great adaptability of electricity as a motive power. The following is a statement of the increase in the use of electric motors during the past three years. The list does not include any motor of less than one horse-power.

- March 1, 1906—256 H. P.
- March 1, 1907—313 H. P.
- March 1, 1908—408 H. P.
- March 1, 1909—803 H. P.

Let us figure with you on your power proposition.

## MISSOULA LIGHT & WATER CO.

garian is making, it does not appear that he stands much chance to carry the world's championship back to the domain of the Sultan of Turkey on

**SANTAL MIDY**  
CAPSULES  
MIDY

**CATARRH OF THE BLADDER**  
Relieved in 24 Hours  
Each Capsule Bears the MIDY name & is a guarantee of genuineness.

# DOAN'S KIDNEY PILLS

Sold by all dealers. Price 50 cents. Foster-McMullen Co., Buffalo, N.Y., Proprietors.