

# MANAGEMENT OF RAILWAYS

## SUPERIORITY OF THE AMERICAN SYSTEMS

What Respects They Are Invaluable Aids to the Life and Extension of Commercial Activity—Used as Models by Other Countries.

In making an address before the International Commercial Congress recently, George H. Daniels, General Passenger Agent of the New York Central and Hudson River Railway and President of the American Association of General Passenger Agents, said: "One of our great writers has said of the closing period of the nineteenth century, that it is an age of transportation. Transportation underlies material prosperity in every department of commerce. Without transportation commerce would be impossible. Those states and nations are rich, powerful and enlightened whose transportation facilities are best and most extended. The dying nations are those with little or no transportation facilities."

Mr. Mulhall, the British statistician, in his work on "The Wealth of Nations," said of the United States in 1890: "If we take a survey of mankind in ancient or modern times, as regards the physical, mechanical and intellectual force of nations, we find nothing to compare with the United States."

Mr. Mulhall proved by his statistics that the working power of a single person in the United States was twice that of a German or Frenchman, more than three times that of an Austrian and five times that of an Italian. He said the United States was then the richest country in the world, its wealth exceeding that of Great Britain by 25 per cent, and added that in the history of the human race no nation ever before possessed forty-one millions of instructed citizens.

In an address before the New York Press Association, four years ago, I referred to the future of our export trade, as follows: "One of the inevitable results of the war between Japan and China will be the opening to the commerce of the world of fields heretofore unknown, perhaps the richest on the globe," and urged the members of the New York Press Association to do everything in their power to assist in securing to the United States a portion of the great commerce to be developed between the western nations and those two old countries of the world.

At that time we had no idea that a war between one of the old nations of the earth and our young republic would be fought; at that time we had no idea that American manufacturers would be furnishing locomotives to the English railroads as well as to those of nearly every other country on the globe. No one thought four years ago that American bridge builders would go into the open market and successfully compete for the building of a great steel bridge in Egypt; nor that in so brief a time American engineers would be building railroads into the interior of China from her most important sea-ports.

At that time no one supposed that the Trans-Siberian Railway would be laid with steel rails made in Pennsylvania, upon cross-ties from the forests of Oregon, and that its trains would be hauled by American locomotives; nor that this great railway which is to stretch from St. Petersburg to Vladivostok and Port Arthur, a distance of more than 6,000 miles, would be completed two years in advance of the original expectation, as a result of the use of American construction tools and machinery.

In a letter from a friend in Tokio, Japan, written only a short time ago, there was this significant sentence: "You will be interested in knowing that I have hanging on the wall of my office a framed picture of your 'Empire State Express,' and we expect in the near future to be hauling a Japanese 'Empire Express' with an American locomotive." They have now in Japan more than one hundred locomotives that were built in the United States. In Russia they have nearly one thousand American locomotives, and practically every railway in Great Britain has ordered locomotives from this country since the beginning of the war with Spain.

But it is not alone our locomotives that have attracted the attention of foreigners who have visited our shores, our railway equipment generally has commanded admiration and is now receiving the highest compliment, namely, imitation by many of our sister nations. Prince Michael Hilkoff, Imperial Minister of Railways of Russia, has, since his visit to the United States a few years ago, constructed a train on much the same lines as the "Limited Trains" of the New York Central and Pennsylvania.

### SMOKELESS POWDER COSTLY.

Half a Million Dollars' Worth Proved to Be Worthless. The vastly increased expense of a military establishment under the more scientific methods now employed is sharply illustrated in the discovery that about half a million dollars' worth of smokeless powder for seacoast guns turns out to be worthless, through an unexpected deterioration in its quality. Military experts have supposed that the smokeless powder manufactured for the United States army was the best ever made, says the New York Post and a contract was not long ago signed which involved the expenditure of about \$1,000,000 for a supply of it. But it is stated that recent experiments at Sandy Hook showed that the smokeless powder now on hand is worse than valueless. A ten-inch gun was being fired with charges from a supply that had been stored for about two years and a delayed detonation occurred, which burst the gun, a new one, valued at \$30,000. An examination of the powder revealed the fact that it had undergone chemical changes of some sort and all of the supply on hand is supposed to be equally affected. Experts will now try to discover the cause of the deterioration, so as to make the needed change in the formula. Meanwhile the contracts for manufacture must be suspended, and if a war should break out it might be necessary to use the old variety of black powder. Apparently large charges to the profit and loss account must be allowed for in estimating the cost of keeping up with the times in warfare.

ed that the smokeless powder manufactured for the United States army was the best ever made, says the New York Post and a contract was not long ago signed which involved the expenditure of about \$1,000,000 for a supply of it. But it is stated that recent experiments at Sandy Hook showed that the smokeless powder now on hand is worse than valueless. A ten-inch gun was being fired with charges from a supply that had been stored for about two years and a delayed detonation occurred, which burst the gun, a new one, valued at \$30,000. An examination of the powder revealed the fact that it had undergone chemical changes of some sort and all of the supply on hand is supposed to be equally affected. Experts will now try to discover the cause of the deterioration, so as to make the needed change in the formula. Meanwhile the contracts for manufacture must be suspended, and if a war should break out it might be necessary to use the old variety of black powder. Apparently large charges to the profit and loss account must be allowed for in estimating the cost of keeping up with the times in warfare.

## SCIENCE AND INVENTION

Hawaii is said to have more telephones in use in proportion to the population than any other locality in the world.

A newspaper printed on the excursion steamer Ophir published one number in 80 degrees 2 minutes north latitude. It claims to be the paper published farthest north of any on record.

A series of experiments made by Benno Erdmann and Raymond Dodge show that in normal reading the letters are not spelled out separately, and one after the other, but that a short word of not more than four letters can be read off in less time than a single letter.

The Pike's Peak Power Company proposes to develop 3,200-horse-power for distribution for mines in the neighborhood of Cripple Creek, Colo. The source of the water supply is Beaver canyon, and a steel and rock dam will be built having a storage capacity of 159,000,000 cubic feet.

On the principle of the sounding-board, which repeats a sound at so short an interval that the original and the repeated waves impress the ear in unison, a device called the polyphone has recently been applied to the phonograph for the purpose of doubling the volume of sound issuing from that instrument. A phonograph with the polyphone attachment has two horns, each provided with a diaphragm and stylus. Not only is the sound made louder, but its quality is improved.

Lake Superior appears to exercise a greater effect upon the annual amount of precipitation of rain and snow near its shores than any other of the Great Lakes. The average precipitation in a year is about eight inches greater on the southern than on the northern side of Lake Superior. Lakes Erie and Ontario also show more precipitation on their southern than on their northern shores, but the difference is only three inches annually. In the case of Lakes Huron and Michigan, it is the eastern shores as compared with the western which get the largest precipitation, but the difference is not great.

The distances over which birds migrate vary between wide limits, and are often surprisingly great. The bobolinks, which rear their young on the shores of Lake Winnipeg, Canada, and go to Cuba and Porto Rico to spend the winter, twice traverse a distance exceeding 2,800 miles, or more than a fifth of the circumference of our earth, each year. The kingbird lays its eggs as far north as the fifty-seventh degree of latitude, and is found in the winter in South America. The biennial pilgrimages of the little redstart exceed three thousand miles and the tiny humming bird two thousand.

Madame Ceraski, of Moscow, has discovered in the constellation Cygnus a star of between the eighth and ninth magnitude which undergoes wonderful variations in its light. It belongs to the same type of variable stars as the celebrated Algol, but its variation is larger. Its period is four days thirteen hours and forty-five minutes. When at a minimum it is three magnitudes fainter than when at a maximum; in other words, it periodically loses and then regains so much light that at one time it is sixteen times brighter than at another. In stars of this type the changes of light are supposed to be caused by a dark body revolving around the star, and producing eclipses as it comes within our line of sight.

When some people give parties, it is not so much to entertain their friends as for the satisfaction of not inviting their enemies.

There is nothing so trying as a hard day's work once a week. If you work every day, you get used to it.

The real test of a good country is one where worthless men do well.

One of the Michigan food inspectors who has been making a tour of the state, says that Michigan's pure food law is working admirably in diminishing adulteration. He says that, of late years, great quantities of imitation fruit jellies have been sold; these are made of glucose and corn jelly, colored to resemble the desired fruit. In one town the inspector stopped the sale of imitation strawberry jam, which was made of corn jelly and glucose, flavored with strawberry extract, and further improved by the addition of haysseed.

**New Pass in Rocky Mountains.**  
After numerous hairbreadth escapes a party of explorers in the Rocky Mountains stumbled onto a new pass. In a like manner, people who believed dyspepsia incurable are astonished to find that Hostetter's Stomach Bitters used faithfully will make the digestion strong, the bowels regular, the liver active. Try it.

An ordinance has been passed in West Palm Beach, Fla., forbidding females to enter saloons.

American shoe manufacturers can undersell the local producer in South Africa.

My doctor said I would die, but Piso's Cure for Consumption cured me.—Amos Keizer, Cherry Valley, Ill., Nov. 23, '95.

Lawrence county, in the Black Hills, claims the honor of producing a greater amount of gold ore in a day than any other country in the United States—4,650 tons, valued at \$40,000.

A red-hot poker was used by Harry Hale at Bellefontaine, Ohio, to open a whisky barrel. He pressed the poker into the bung, and the barrel exploded into a thousand pieces, causing fatal injuries to Mr. Hale.

Rev. G. Hay Morison, of Stamford England, is both a minister and a lawyer.

Sponge fruit stains at once with cold water.

Day county, S. D., has produced two crops of oats this season.

## BEST FOR THE BOWELS

If you haven't a regular, healthy movement of the bowels every day, you're sick, or will be. Keep your bowels open, and be well. Force, in the shape of violent physic or pill poison, is dangerous. The most excellent, safest, most perfect way of keeping the bowels clear and clean is to take



Pleasant, Palatable, Potent, Taste Good, Do Good, Never Sickens, Weakens, or Gripe. See 50c. Write for free sample and booklet on bowels. Address: Swanson Candy Company, Chicago, Montreal, New York, 222a

### KEEP YOUR BLOOD CLEAN

FOR NERVOUS OVERWROUGHT MEN WEAKLY DELICATE WOMEN PALE SICKLY CHILDREN

## VIN MARIANI

MEANS SALVATION

VIN MARIANI HAS STOOD THE TEST OF 35 YEARS EXPERIENCE ENDORSED BY THE MEDICAL FACULTY ALL OVER THE WORLD.

## CARTER'S INK

Bring your children up on it.

### MACHINERY. ALL KINDS

...TATUM & BOWEN...

29 to 35 First Street PORTLAND OR.

### SURE CURE FOR PILES

ITCHING Piles produce moisture and cause itching. This form, as well as Bleeding, or Protruding Piles are cured by Dr. Bosanko's Pile Remedy. Stops itching and bleeding. Absorbs tumors. See a Jarat druggist or sent by mail. Treatise free. Write me about your case. DR. BOSANKO, Philada., Pa.

### CURE YOURSELF!

Use Big G for unnatural discharges, inflammations, irritations or ulcerations of mucous membranes. Painless, and not irritating or poisonous. Sold by Druggists, or sent in plain wrapper, by express, prepaid, for \$1.00, or 3 bottles, \$2.75. Circulars sent on request.

## PHOTO

and Magic Lantern Bargain List No. 15 now ready for mailing. T. P. ANDREWS, 109 Montgomery St. San Francisco

**The Philosophy of Dead Gameness.**  
"Now," said the man who had yearned for riches, "I will go forth today and risk once more. Success has attended all my ventures. I have \$9,990,000. If all goes well today I will be ten times a millionaire. Then I will risk no more. Then I will be content and some one else may step into the place that I leave vacant." So he risked again and won the \$10,000 that he thought he needed in his business; but the man who lost the money was not dead game. If he had been dead game he would have said nothing and hoped for better luck next time. Therefore, lacking the qualities that make for gameness, he jumped upon the man who had won and thumped him so hard that he died on the way to the hospital. There is in the heart of every man who succeeds here below a soft spot for the dead game loser.—Chicago Times-Herald.

**HOW'S THIS.**  
We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

F. J. CHENEY & CO., Props., Toledo, O. We have understood, have known F. J. Cheney for the past 15 years, and believe him perfectly honorable in all his transactions and financially able to carry out any obligations made by their firm.

WEST & TRACY, Wholesale Drug-ists, Toledo, O. WALDING, HINNAN & MARVIN, Wholesale Drug-ists, Toledo, O. Hall's Catarrh Cure is the only medicine that cures the blood and mucous surfaces of the system. Price 75c per bottle. Sold by all druggists. Testimonial free. Hall's Family Pills with text.

Last year 6,591 incendiary fires occurred.

**TO CURE A COLD IN ONE DAY**  
Take Laxative Bromo Quinine Tablets. All druggists refund the money if it fails to cure. E. W. Grove's signature is on each box. 25c.

Lightning caused 3,479 conflagrations in 1898.

**Kill Germs of Disease.**  
The modern way to cure disease is to destroy its germs. Casarets Candy Cathartic are modern germ-killers, and cleansers. Druggists, 10c, 25c, 50c.

Natural gas was the cause of 94 fires last year.

VITALITY low, debilitated or exhausted cured by Dr. Kline's "Great Kidney Tonic." Trial Bottle containing 2 Weeks' treatment. Dr. Kline's Institute, 363 Arch St., Philadelphia. Founded 1874.

Horace Greeley is editor of the Enterprise at Thornton, Ia.

Lord Kitchener has given Queen Victoria a large Arabian donkey.

## OLDEST MAN IN AMERICA

Tells How He Escaped the Terrors of Many Winters by Using Peruna.



Mr. Isaac Brock, the Oldest Man in the United States.

Mr. Isaac Brock, of McLennan county, Tex., has attained the great age of 111 years, having been born in 1788. He is an ardent friend to Peruna and speaks of it in the following terms:

"During my long life I have known a great many remedies for coughs, colds, catarrh and diarrhoea. I had always supposed these affections to be different diseases, but I have learned from Dr. Hartman's books that these affections are the same and are properly called catarrh.

"As for Dr. Hartman's remedy, Peruna, I have found it to be the best, if not the only reliable remedy for these affections.

"Peruna has been my stand-by for many years, and I attribute my good health and my extreme age to this remedy. It exactly meets all my requirements.

"I have come to rely upon it almost entirely for the many little things for which I need medicine. I believe it to be especially valuable to old people."

ISAAC BROCK.  
Catarrh is the greatest enemy of old age. A person entirely free from catarrh is sure to live to a hale and hearty old age. A free book on catarrh sent by The Peruna Medicine Co., Columbus, O.

Five fires last year were caused by the sun's rays passing through window glass.

## 25c SAMPLE BOTTLE FOR 10c NEXT 30 DAYS

No DISEASE has so baffled the medical skill of all ages as RHEUMATISM, and no remedy has ever been known to cure it until "5 Drops,"

the Rheumatic Cure demonstrated its wonderful curative power. It has never failed to cure RHEUMATISM in any form, Acute or Chronic.

Here is what a Prominent Physician has to say who has had 35 years of active Practice of Medicine:

I have never before in my 35 years of practice of medicine given my testimonial or recommendation to any patent medicine, but there is a remedy, the result of which has come under my own observation; for there is no Disease which has so baffled the medical skill of all ages as Rheumatism and to find a Reliable remedy for the same. At last we have found it in "5 DROPS," manufactured by the Swanson Rheumatic Cure Company, Chicago, Ill.

"5 DROPS" has proven itself wonderful for its curative power in Rheumatism, not as a Temporary Relief only, but give a Permanent Cure even in chronic cases. Sometime ago I had among others several Rheumatic cases, under my treatment and prescribed for these patients the Swanson Remedies which were selected, but without desirable results. I then heard of "5 DROPS" and of its wonderful relief from Rheumatism. I prescribed a few of them. After that I prescribed it to a great number and I will say that the cure of one or Three Weeks after they had used "5 DROPS" was complete.

Among these Rheumatism, which I had out Catches and to send to "5 DROPS" many for their kind and full Remedies among acknowledgment. As I have many friends liable to Rheumatism, I will say that "5 DROPS" is a permanent cure of Rheumatism, Asthma, Hay Fever, Headache, Heart Weakness, Dropsy, Earache, Spasmodic and Catarrh Nervousness, Sleeplessness, Creeping Numbness, Neuralgias. "5 Drops" has cured more people, during the past few named diseases than all other remedies known and in curing more than all the doctors, patent medicines, electrical combined, for they cannot cure Chronic Rheumatism. The valuable time and money longer, but try "5 Drops" and "5 Drops" is not only the best medicine, but it is the cheapest, for it contains 300 doses. Price per bottle \$1.00, prepaid by mail or express, or 6 bottles for \$5.00. For the next 30 days we will send a 25c. sample FREE to any one sending 10 cents to pay for the mailing. Agents wanted. Write to-day.

SWANSON RHEUMATIC CURE CO., 160-164 E. LAKE STREET, CHICAGO.

### PORTLAND DIRECTORY.

Fence and Wire Works.

### PORTLAND WIRE & IRON WORKS

and Iron Lathing; office railing, etc. 234 Alder.

### Machinery and Supplies.

CAWSTON & CO.; ENGINES, BOILERS, MACHINERY, supplies. 48-50 First St., Portland, Or.

## Ferry's SEEDS

grow paying crops because they're fresh and always the best. For sale everywhere. Refuse substitutes. Stick to Ferry's Seeds and prosper. 1900 Seed Annual free. Write for it. D. M. FERRY & CO., Detroit, Mich.

## LATEST WELL and BEST DRILLING MACHINES

HORSE, STEAM AND GASOLINE POWER. LOOMIS & NYMAN, TIFFIN, OHIO.

## YOUNG MEN!

For Gonorrhoea and Gleet get Pabst's Oxy Specific. It is the ONLY medicine which will cure each and every case. NO CASE known it has ever failed to cure, no matter how serious or of how long standing. Results from its use will astonish you. It is absolutely safe, prevents stricture, and can be taken without inconvenience. Sample free, or full box for 25c. DR. BOSANKO CO., Philada., Penna. Sold by Druggists.

## DR. GUNN'S IMPROVED PILLS

ONE FOR A DOSE. Cure Sick Headache and Dyspepsia, Remove Pimples and Purify the Blood, Aid Digestion and Prevent Biliousness. Do not trip on or Sicken. To convince you, we will mail sample free, or full box for 25c. DR. BOSANKO CO., Philada., Penna. Sold by Druggists.

N. P. N. E. NO. 50-'99.  
When writing to advertisers please mention this number.