

Now is the time to visit California

When summer has passed in these northern states, the sun is only mild under the bright blue skies of Southern California. This is one of nature's happy provisions—eternal summer for those who cannot endure a more severe climate. California has been called the "Mecca of the winter tourist." Its hotels and stopping places are as varied as those of all well-regulated cities. Visitors can always find suitable accommodations, congenial companions, and varied, pleasing recreations.

SOUTHERN PACIFIC CO.

Will be glad to supply some very attractive literature, describing in detail the many delights of winter in California. Very low round trip excursion tickets are on sale to California. The rate from Forest Grove to Los Angeles and return is \$56.50. Limit six months, allowing stop-overs in either direction. Similar excursion rates are in effect to all California points.

For full information, sleeping car reservations and tickets, call on, telegraph or write

W. BROWN, Agent, FOREST GROVE, OREGON

or
WM. McMURRAY, Gen. Pass. Agt.
Portland, Oregon

W. H. HOLLIS

Attorney-at-Law

Forest Grove, Oregon

Dr. Geiger

Homeopathist and Surgery

Forest Grove, Oregon

Moulton & Bogan

BARBERS

HAIR CUTTING A SPECIALTY

Postoffice Row Forest Grove

Misner & Gordon

Fashion Stables

Siylish Turnouts

PACIFIC AVE FOREST GROVE

DR. J. H. KNOX

Veterinarian

County Stock Inspector

Office, First Street and Pacific Avenue
Telephone at Office and Residence

Monuments

WEEKS GRANITE CO.

301 4th st. Portland, Ore

For Designs and Prices See

V. H. LIMBER

Local Agent Forest Grove

A. BALDWIN

Real Estate

Exchange

Properties Rented and Rents Collected

Forest Grove Ore.

PERFECT PRINTING PLATES

IN ONE OR MANY COLORS

LARGEST FACILITIES
IN THE WEST FOR
THE PRODUCTION OF
HIGH GRADE WORK

RATES AS LOW AS EASTERN HOUSES

HICKS-CHATTEN ENGRAVING CO.

101 Alder, PORTLAND, ORE.

Durability of Concrete.

Not long ago an article appeared in one of the county papers from the pen of an esteemed contemporary who feared for the durability of concrete work, or, as this learned gentleman termed it "cement concrete."

After no little research and inquiry the following is submitted to those contemplating the employment of cement in any of its manifold uses, that certain errors in the former article may be cancelled by way of restoring confidence in a reliable material. A concrete sidewalk, subjected to the humid summers and frigid winters of Philadelphia, Pa., was laid in 1858 and is still serviceable. United States government tests, conducted with funds that were not squandered to private corporations, demonstrated that concrete properly mixed and laid, becomes stronger with age, forming a true artificial stone (silica of calcium with alumina.) Where failure occurs, it rises from using dirty, loamy sand, instead of sharp clean sand, round water worn pebbles, instead of crushed rock and worst of all not using sufficient cement in the mixture. It is well to remember that the chemical union of the several ingredients into a stony crystalline mass takes place quite slowly and requires that the work remain damp whilst it is going on.

When it is desired to make posts of concrete that will endure lateral strains, wires should be imbedded in the mortar near the exterior of the posts, on all sides of them, lengthways with the post. Old bale wire or discarded telephone wire will fill the bill where no extraordinary abuse is imposed upon these posts.

A number of attractive and practical lawn settings including large jars, vases, settes and sun dial pedestals, are readily made of concrete and can be tinted any desired color if the natural color of the cement does not harmonize with its surroundings.

Silos, up to 35 feet in height can be made of concrete that will stand the enormous pressure without spreading when they are full, if barbed wire is coiled into the mortar at least each six inches of altitude to within a few feet of the top. In Wisconsin such silos are rendered roof proof by being built of two separate walls each 12 inches thick, with an air gap between them of nine inches to effect non-conductivity of cold. This air gap should be filled with loose stones that the inner wall may gain added support from the outer one.

A concrete that will stand this eastern climate in either sidewalk or silo, is made by mixing four wheelbarrows of course, clean sand with seven wheelbarrows full of one inch crushed rock to each barrel of cement. Mix thoroughly while dry, then wet and use promptly, tamping thoroughly. The Pennsylvania Central's four tracks cross the Susquehanna river above Harrisburg, P., on a \$200,000 bridge quite a mile long, ninety feet above low water and fifty feet wide, composed of forty-eight arches, each of seventy feet span. This bridge is made of concrete in above proportions. Ninety-six passenger trains pass it daily besides as high as seven thousand freight cars with the necessary engines. This bridge has been in commission for the past eight years and there is not a crack in it.

For the top or finishing coat on sidewalk work or wherever a fine finish is desired the mixture should be composed of half cement whilst the other half should consist of equal parts coarse sand and fine gravel or crushed rock that will pass a quarter inch mesh. This should be made the consistency of a thick batter, spread with a straight-edge, then smoothed with a trowel and lastly creased into squares not larger than three feet on a side. These creases should be quite deep so that if cracks form they may follow these creases as cement work shrinks a little during its process of turning to stone. Greater certainty of having the cracks follow these creases is secured by imbedding building paper in the concrete at the lines of the proposed creases. As soon as completed the work should be covered with canvas or boards to prevent the sun drying it prematurely. About an hour after finishing a sidewalk the work should be carefully covered with sand and this sand wet to saturation two or three times each day for at least one week, and better for a month, keeping the

A ROCKER FOR XMAS

No more appreciable present can be selected for any member of the household than a nice

Rocker

We have a line that will meet the demands of all pocketbooks

Rockers, Chairs, Couches, Rugs, China closets, Buffets and a host of others

Chas. O. ROE & CO.

Pioneer Furniture Dealers

Forest Grove

Oregon

work shaded or covered with boards or canvas all the time.

For extra strong work use two parts broken rock, one part clean sharp sand and one part cement. But contractors frequently make the mixture as poor as six of gravel and sand to one of cement. This bashfulness in using cement is the chief cause of weakness.

GEO. R. SCHOCH.

EASY TO MIX THIS.

Prepare at Home by Shaking Ingredients Well in a Bottle.

What will appear very interesting to many people here is the article taken from a New York daily paper, giving a simple prescription, which is said to be a positive remedy for backache or kidney or bladder derangement, if taken before the stage of Bright's disease:

Fluid Extract Dandelion, one-half ounce; Compound Kargon, one ounce; Compound Syrup Sarsaparilla, three ounces. Shake well in a bottle and take in teaspoonful doses after each meal and again at bedtime.

A well-known druggist here at home, when asked regarding this prescription, stated that the ingredients are all harmless, and can be obtained at a small cost from any good prescription pharmacy, or the mixture would be put up if asked to do so. He further stated that while this prescription is often prescribed in rheumatic affections with splendid results, he could see no reason why it would not be a splendid remedy for kidney and urinary troubles and backache, as it has a peculiar action upon the kidney structure, cleansing these most important organs and helping them to sift and filter from the blood the foul acids and waste matter which cause sickness and suffering. Those of our readers who suffer can make no mistake in giving it a trial.

"Do you speak the truth?"
"Not always."
"Why not always?"
"I hate to be impolite."—Nashville American.

Generous.
"My husband is the most unselfish of men!" exclaimed Mrs. Youngwife. "I gave him a whole box of cigars, and he only smoked one and gave all the rest away."

Paradise is for those who control their anger.—Ezra.

MAGIC GLASS.

A Curious Mirror That May Be Made Transparent.

One of the most curious inventions of this age is what is called platinated glass. A piece of glass is coated with an exceedingly thin layer of a liquid charged with platinum and then raised to a red heat. The platinum becomes united to the glass in such a way as to form an odd kind of mirror.

The glass has not really lost its transparency, and yet if one places it against a wall and looks at it he sees his image as in an ordinary looking glass. But when light is allowed to come through the glass from the other side, as when it is placed in a window, it appears perfectly transparent, like ordinary glass.

By constructing a window of platinated glass one could stand close behind the panes in an unilluminated room and behold clearly everything going on outside, while passersby looking at the window would behold only a fine mirror or set of mirrors in which their own figures would be reflected, while the person inside remained invisible.

In France various tricks have been contrived with the aid of this glass. In one a person, seeing what appears to be an ordinary mirror, approaches it to gaze upon himself. A sudden change in the mechanism sends light through the glass from the back, whereupon it instantly becomes transparent, and the startled spectator finds himself confronted by some grotesque figure that had been hidden behind the magic glass.—New York Tribune.

SPEED LAWS OF 1816.

Coaches Going Nine Miles an Hour Frightened the English.

The outcry daily growing louder in England against the excessive speed of motor cars lends interest to the following passage from the Annual Register for 1816:

A new coach was started in the spring to run to Brighton, a distance of fifty-two miles, in six hours. * * * This, however, became alarming, particularly in the populous neighborhood of Newington, through which it passed, and the parish officers there caused information to be laid against the drivers for driving furiously on the public road so as to endanger the lives of his majesty's subjects.

The result of this is to be read in Mansard's "Parliamentary Reports," June 10, 1816.

The attorney general moved for leave to bring in a bill the object of which was the protection of the lives and limbs of his majesty's subjects by correcting the enormous abuses of stage-coach drivers. Within these few days it would be hardly credible what a number of applications he had received on this subject.

Some accounts were enough to freeze one with horror. A gentleman of veracity had informed him that on Tuesday, May 21, at 5.30, the Trafalgar and Regulator coaches set off from

We are Agents for the

OSTERMOOR

BETTER THAN HAIR

BUILT NOT STUFFED

MATTRESS

Everybody knows what the "OSTERMOOR" Mattress is, and having secured the agency, we have a line in our store now.

Come and See Them

Manchester and got to Liverpool at 8.20, doing this journey in two hours fifty minutes, at the rate of twelve miles an hour.—New York Sun.

Fiji Islanders' Sugar Cane Dance.

A very curious and exceedingly clever dance may be witnessed in Fiji called by the natives "the sugar cane meke," or sugar cane dance. It represents the growth of the sugar cane. In the first figure the dancers squat low on the ground, shake their heads, shut their eyes and murmur slowly and softly an unintelligible sentence. Gradually they all stand up together, growing taller and taller, and as they "grow" they wave their arms and tremble all over from ankle to head. Like the tall, tasseled cane waving in the wind, and still they keep on chanting louder and louder. The last figure represents a series of combats meant to symbolize the exactions of the chiefs, who compel the "kalsi," willing and unwilling, to come and cut their crops.—London Standard.

His Only Conundrum.

The old pilot of the little steamer Maid of the Mist, which used to carry passengers quite up to the foot of the falls of Niagara until the mist from the falling waters drenched the clothing of every one on board, used to perpetuate one solitary conundrum each trip. It always commenced and ended the same.

Moving his hand along the sides of the pilothouse and examining the wood-work minutely, he would look up mysteriously and remark:

"I say, stranger, do you know what this boat is made of?"

"Made of? Why, pine and oak, isn't she?"

"No, sir."

"Hemlock?"

"No."

"Tisn't cedar, is it?"

"Oh, no!"

And then the old pilot's eyes twinkled and his mouth whistled a crazy tune.

"Well, how, perhaps?"

"No."

"What in thunder is she made of, then?"

"She's Maid of the Mist, stranger; Maid of the Mist."

Then the pilot accepted his morning cigar.

Just Like Her.

Hewitt—I didn't know that you lived on the first floor. I understood your wife to say that you lived on the second floor. Jewett—If you knew my wife you would know that she always stretches a story.—Exchange.

They Married.

Trotter (who has been abroad)—So Mand and Charlie finally married? Miss Homer—Yes, Trotter—I suppose they are happy. Miss Homer—Undoubtedly; they each married some one else.—Chicago News

What do we live for if not to make life less difficult to each other?—George Eliot.

MAKES RAPID HEADWAY

Add this Fact to Your Store of Knowledge.

Kidney disease advances so rapidly that many a person is firmly in its grasp before aware of its progress. Prompt attention should be given the slightest symptom of kidney disorder. If there is a dull pain in the back, headaches, dizzy spells or a tired, worn-out feeling, or if the urine is dark, foul-smelling, irregular and attended with pain, procure a good kidney remedy at once.

Your townspeople recommend Doan's Kidney Pills. Read the statement of this Forest Grove citizen.

Mrs. E. H. Coleman, living Cor. Sixth and Third Sts., Forest Grove, Ore., says: "Doan's Kidney Pills proved a great benefit to me. Some time ago I was attacked with sharp pains through my loins, limbs and back so severe at times that I was hardly able to get around. Doan's Kidney Pills were so highly recommended to me that I procured a box. They helped me from the first and I have had no return of the complaint since. I can recommend Doan's Kidney Pills with great confidence in their ability to cure kidney troubles."

For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, New York, sole agents for the United States.

Remember the name—Doan's—and take no other.

FIRE INSURANCE

IN THE
BANKERS AND MERCHANTS
MUTUAL FIRE RELIEF ASSN.

Of Forest Grove, Oregon

IS THE
Best and Cheapest