GOOD ROADS SUGGESTIONS.

Good, well-drained roads are of vast that each year an average of 27,000 tons of water falls in the form of rain on every mile of public road in the United States. This certainly would show the importance of draining.

Both the surface water and the un-

derground water must be taken into consideration in order to secure good drainage. The former must be quick-ly removed, and completely, without subjecting the road to excessive sour

Therefore the centre of the road should be raised and the slope toward the side ditches be made one-half to one inch to each foot distance, or so that the water will run freely to the side ditches and not flow down the road or remain in puddles on the

The side ditches should be big ugh to care for the hardest storms, with a fall of not less than six inches to each 100 feet. Frequent and ample cross drains should be constructed and every opportunity taken to get the water away from the road as soon

In many places the underground water is too near the surface and must be removed before a good road will be possible. In such cases some form of subdrainage must be resorted to, usually tile drains of clay or concrete.

As water in freezing expands one-eighth of its volume, the road heaves out of shape, and when the ice melts the road disappears beneath the rising tide or mud constantly fed by rains, nelting snows and underground

In seepy and boggy places the sub-drainage, in order to be fully effec-tive, should lower the water level to not less than 3 feet below the road surface. If tiles are used they should be carefully laid, true to grade. Most failures in the drainage can be attrib-uted to carelessness in laying, or too flat grade. Tile less than 4 inches in diameter should rarely be used, nor hould a grade of less than 6 inches to the 100 feet be used unless absolutely necessary. In a very dense soil it is always advisable to cover the tile to at least a depth of 6 to 12 inches with coarse sand or fine gravel.-

COMMERCIAL VALUE OF CORNSTALKS.

After numerous experiments the and Plant Industry assert that paper can be made from cornstalks by very nearly the same process employed in making it from wood pulp. More-over, they are confident that when machinery has been perfected the cost of making paper from cornstalks (at present such paper costs about a dol-lar a ton more to make than wood pulp paper) will be a little over half what it is now.

Two grades of cornstalk paper have been made, a white paper made from the outside shell of the cornstalk and a yellow from the pith. It has taken fifty years to develop the present methods of making paper from wood pulp. Dr. H. S. Bristol, the head of the bureau, believes that when proper machinery is built and the farmers realize that a good revenue may be derived from the sale of cornstalks, paper will be manufactured from the new material at half the present wood

pulp paper.
With wood at \$8 a cord, paper is made from wood pulp at a cost of \$13 a ton. Cornstalks can be bought for \$5 a ton and the paper made with the present primitive machinery for \$14

TENANTS WHO CARRY OFF THEIR FARMS.

The modern farmer was applying electrical massage to a cart horse's sprained knee. During the intervals of rest he talked farm talk.

'There are tenants,' he said, "who when they move, carry their farms with them as the tortoise does his house. These people are the Norman French, the world's best farmers.

Where you or I would require 20 or thirty acres of land to keep one ily, the French farmer will keep a family on a quarter of an acre. If he chose to cultivate 20 or 30 acres, he would become a millionaire.

"His secret lies in the perfection to which he brings his top soil. What with fertilizing and watering and clear-ing, his top soil is the blackest, finest, richest soil on earth. His top soil is to the French farmer what her voice is to the prima donna.

"And when he rents he contracts that on the termination of his lease he may carry off eighteen inches of the top soil with him.

"When you see a French farmer moving, one small cart carries his household goods and in seven or eight enormous drays his top soil lumbers

"I LIKES to see a man tend to his own business," said Uncle Eben, "but some o' dese monopolistic peo-ple has de idea dat nobody but dem ain' got no business to have any bus-

A LITTLE boy said the other day to his mother, who scolded him for speaking crossly, "Mother, when it's

you, you say it's nerves; when it's me, you say I'm cross." "You are a pretty sharp boy, Tommy." "Well I ought to be. Pa takes me out in the woodshed and straps

me three or four times a week." THE need of the world is lightmore light and yet more light—not knowledge alone, but wisdom; not reason alone, but inspiration.

lectric Hot Baths—The Regions of Next Conquest—Smoke Injury to Vegetation —The Electric Safety Valve—Earth-quake Forecasting—A Breakwater of Concrete (Boxes—A Disease of Tin—

The first effective electric water-heater for the bath-room is claimed to be a new German device. This is about six inches in diameter and two feet high, and is attractive in appearance when fastened to the wall of bath-room or bed-chamber. Water is admitted at the bottom. Turning the electric switch permits enough water to enter to fill the system of pipes, thus ensuring them against burning out, and this is heated to 140° F. in about 40 seconds. The stopcock below the switch is then opened, when a steady stream rises over a series of water-tight surfaces enclosing the heating coils and emerges at the overflow quite hot enough for the bath. The current can be either that of 12 sixteen-candle-power incandescent lamps of the ordinary kind or half as much, the latter giving correspondingly slower heating. The cost of the current necessary varies, but even at the high rate of ten cents an hour, the expense for a hot bath would be small.

would be small.

Our deserts are to give us some of the surprises of the near future, as Dr. C. R. Keys points out. The arid regions, with an inch to a foot of rain a year, are by no means repulsive, but even scientific men are only just becoming acquainted with their beauties and possibilities. The landscape\_is striking. The deserts are mountainous, yet the broad plains are the dominant feature, and the mountains—though bold and lofty—rise sharply from the level expanse. The deserts, as has but lately been discerned, have been sculptured and leveled by the wind; and the rocks, free from chemical action, are unweathered, bright and fresh.

Factory smoke—chiefly from bituminous coal—is becoming so harmful to vegetation in Germany that the Saxon Ministry of Finance has offered a prize of \$2,400 for the best preventive of the harm by sulphurous acid and other vapors; also \$500 for a compendium of the literature of

the subject.

Blectric transmission lines of high voltage are liable to serious accidents from sudden increase of pressure through unskillful manipulation of apparatus on the line or from lightning. The ourious property of some metals of becoming coated with a film of non-conducting oxide that is broken down by high-tension currents gives a means of providing an automatic overflow, analogous to the safety-valve of the steam-engine, and electrolytic valves seem to be serving successfully in the United States and France. A valve of this kind, described by A. Troller as being tried on a French railway line, consists of two aluminum-plate electrodes dipping into a suitable conducting liquid. On the passage of a low-tension current, oxide forms on the plates, almost instantly stopping the electric flow, but when the tension rises above 400 volts, the insulating layer disappears, and the current passes freely. Most electric systems allow a higher voltage than this. A sufficient number of aluminum electrodes arranged in series, however, will give any desired resistance, and a valve of eleven elements will not open until the tension exceeds 4,000 volts.

Considering earthquake forecasts, Dr. G. K. Gilbert finds that the places liable to be shaken can be pretty well determined by geological evidence as well as from past experience, but there is little reason to expect satisfactory prediction of the time of earthquakes. The one well-known earthquake district of the United States includes central and southern California, with areas in Mexico and the Pacific Ocean. Alaska also has a district, and there may be a third in Utah. Since the beginning of last century, Alaska has had at least 9 destructive shocks; and 11 are listed for the California district, or 13 if the Oregon earthquake of 1867 and the Sonora and Arizona of 1887 be included. Other United States earthquakes have been the New Madrid of 1811-12, the Charleston of 1886, and the New Madrid of 1865.

The novel breakwater at Algoma, Wis., is being built of huge hollow blocks of reinforced concrete 24 feet long, 15 wide and 12% high, each weighing 120 tons. These are launched like a vessel, towed 12 miles, sunk upon piles 11% feet below the surface, filled with stone, and given a 4-foot cap of solid concrete.

A curious alteration in tin plate, resembling the infection of organic matter with bacteria, has been reported by Dr. von Hasslinger. The tin had been kept about two years at temperatures ranging between 80° and 115° F., and the surface had completely changed, having become granular and dull. When particles of this grey tin were brought into contact with bright tin, the latter quickly became covered with dull patches, which grew an eight of an inch or more a day. This so-called "tin pest" was not affected by a rise in temperature, and it differed further from bacteria in growing less vigorously at a distance from the point of infection. The altered tin melted at a lower point (400° F.) than the original tin (448° 450° F.). After melting, however, the grey tin resumed its original character, and became solid if not heated to the original melting point. The new substance seems to be an allotropic form of tin.

Guesses at the water-power of different countries, was greatly and all may be wide of the

Guesses at the water-power of different countries vary greatly, and all may be wide of the mark. These are recent estimates of Otto Mayr, a German engineer: Norway, 7,525,000 available, of which only 301,000 horse-power is utilized; Sweden, 6,750,000 available, 200,000 used; Italy. 5,560,000 available, 464,000 used; France, 5,524,000 available, 1,190,000 used; Austria, 5,125,000 available, 65,000 used; Germany, 1,677,000 available, 680,000 used; Switzerland, 1,500,000 available, 680,000 used; and Hungary, 550,000 available, 65,000 used. This is a total of 34,151,000 horse-power for the Continent of Europe, of which only 3,533,300, or less than 10.5 per cent. is utilized. The figures seem not wholly up to date, as Italy has been reported to have used 830,000 hore-power, or 15.3 per cent.—all but 90,000 for electric energy.

Many eclipses are noticed in the records of all ages. Astronomers can determine accurately when eclipses must have occurred, and the eclipse records are proving valuable to historical students as a means of determining the dates of important events. From these studies P. H. Cowell has found evidence that our year has decreased within historical times.

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Miscellaneous. MARYLAND & PENNSYLVANIA R. R. On and after Sunday, Oct. 11, 1908, trains on the Maryland & Pennsylvania Railroad will leave and arrive at North Ave. Station, Baltimore as follows:

7.35 A. M. for York. 9.30 A. M. "Belair. 9.30 A. M. "Belair. 9.20 A. M. "Delta. 1.55 A. M. "York. 11.55 A. M. "York. 11.56 A. M. "York. 12.66 P. M. "Belair. 1.30 P. M. "Belair. 7.40 P. M. "Belair. Leave at 1.30 P. M. for Belair. Arrive at 4. P. M. from Belair. SUNDAY ONLY.

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Saturday only, 9.39 A. M., 4.25, 11.30 P. M.
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State's Attorney—Robert H. Bussey.
Auditor—William Grason.
Commissioner to take Testimony and Examiners
in Equity—A. A. Piper, W. George Marley, Caleb
V. Cherbonnier.

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Law and Criminal—1st Monday in March, 3d Monday in May, 3d Monday in September, 1st Monday in December.

Equity—1st Monday in January, 1st Monday in March, 1st Monday in March, 1st Monday in May ist Monday in Neytember, 1st Monday in Neytember, 1st Monday in Neytember, 1st Monday in Neytember.

or. Olerk's Office.

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Olief Deputy Clerk and Cashler—M. J. O'Hara.

Court Clerk—Mchael F. Connor.

Equity Clerk—Charles E. Fendall.

Index Clerk—William R. Hoff.

Examiner—Thomas R. Jenifer.

Assistant Examiner—James L. Burgoyne.

Assistant Examiner—James L. Burgoyne.

Assistant Clerk—William S. Cowley.

Messenger—Rexin H. Denny.

Messenger—Rexin H. Denny.

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Denuty Begister-Hupt P. Price.

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Assistant Clerk—Frank P. Bossom.
Uounsel.—Elmer R. Halle.

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tenry Pfisterer, Joseph Hess, August Schirmer,
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County Jail.

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Deputy Warden—Clinton O. Bosley.

Watchman—Wm. Thomas Fulton.

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School Commissioners' Office

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Counsel to the Board—Arthur F. Shankill.

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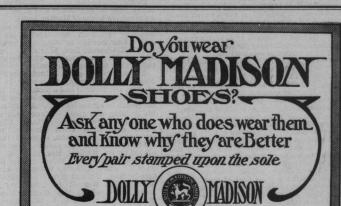
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