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MAINTENANCE OF PUBLIC ROADS

One of the Most Important Problems of Today.

THEY ARE TRULY ESSENTIAL.

Of Advantage to the Farmer, Bring Towns Closer Together and Boom Home Trade-Some Reasons Why Your Road May Be a Poor One.

One of the most important problems confronting the public today is the construction and maintenance of its roads. It is truly essential that we have good roads.

Good roads not only prove an advantage to the farmer commercially, but they are a pleasure to the motorist and bring towns and cities closer together, thereby inviting trade and transportation.

There are many reasons why road building in instances proves a failure, and it might be well to enumerate some of them: First, a road may be made too narrow to accommodate the traffic or so narrow that teams will track, cutting the surface into ruts,



in a very short time. Second, the use of poor unreliable materials, then haying the material dumped in piles along the sides of the road for traffic sides of the road for traffic to spread. Third, poor draininge; either surface is too flat or too high in the center, the side gutters or ditches too deep or not deep enough. Fourth, inid on an unstable foundation, laying the foundation on surfaces filled with holes and ruts, thereby leaving no end of trouble and expense after the road has been used a very short

If a thing is worth doing at all it is worth doing well, and, since constructing roads is a thing worth doing. why not do it well?

The first thing to take into consideration in the proper construction of a road is location and directness. in speaking on this very subject one autherity on good roads said recently. "Whenever possible roads should be located on straight lines." Continuing, he said. "The best location is one which is straight to general direction, is free from steep grades, is over solld ground and serves the lar-

The most desirable foundation for road construction is a natural pebbly surface. Telford uses the pitched foundation for a road which is subject to heavy traffic. For an ordinary road a thickness of five or six inches of gravel or flipt well rolled and watered should



OURYED ROAD IS USUALLY A POOR ORE be used as a foundation with a three of four inch covering of granite also rolled and watered.

Another important factor in road construction is drainage. If the road be constructed in such a way that the surface has just enough convexity, any a stope of from one and a half tuches to two feet, and the gutter grades so arranged as to bave a fail of at least six inches in each hundred feet, a good surface drainage will be obtained.

To maintain our good public roads, after we get them, new and suitable materia' should be added when needed and at defects repaired at once. One of the best systems for the mainte-han , of good roads was inaugurated a les years since by the French and is kn wn as the patrol system, which ne nesitates daily inspection and care. To raring for our roads and established ome system whereby they would reostant attention.

REFUSED TO LAUGH.

A Joke on Himself That Mark Twaln Failed to Enjoy.

When Mark Twain was a resident of Hartford, Conn., be once called at the office of Dr Swan, a local specialist of considerable repute, to consult him regarding a trivial allment.

The physician was inclined to be rather arbitrary in his charges, was very independent and disliked exceedingly to be consulted in regard to minor allments. In this instance be economically minded Clemens thought excessive.

After a little argument Mr. Clemens declared that he would not pay any such price as the physician asked, and rose to leave. Just as he turned his back on Dr. Swan a voice said dis-

"Go along home, you old fool, you!" Instantly Mark Twain wheeled around, angry through and through. "What's that, str?" be roared at the doctor. "What's that you say?"

With a smile that was cloying to its sweetness Dr. Swap pointed to a cage in the corner where his parrot was swinging and chuckling with birdish gice, and explained:

"That is the gentleman who spoke to you, sir." Somehow the explanation did not seem to reduce Mr. Clemens' anger very much, and be never entire ly believed in Dr. Swan's innocence. New York American.

THE FLY'S BALANCERS.

Without These Organs the Insect Would Tumble to the Ground.

The Insects of the Diptera order, to which the common bonsefly belongs. have, as a rule, one pair of wings and rudimentary remnants of another pair in the form of a club shaped organ on either side of the thorax behind the wings. These organs are called "bat-sucers" and, as experiments bave shown, are indispensable in the maintenance of equilibrium,

A fly from which they have been removed cannot direct its flight, and if It tries to fly from the edge of a table will immediately take a downward course, dropping to the floor on its bead about three feet away and falling over on its back. Similarly, if it tries to fly from the floor after succeeding in getting on its feet again it will rise in the air two or three inches and then again tumble, striking its head and turning over on its back as before, but only about four inches from its starting point. Horizontal and ascending flight becomes absolutely impossible.

The similarity between these artificially produced insect mishaps and many an aeropiane accident is striking. and a study of why the removal of the fly's balancers causes it to upset may go a long way toward solving the problem in aeroplane construction,-Westminster Gazette.

Beware of Cousins!

Cousins are not as simple as they seem. The very fact of being a cousin, or having a cousin, is complicated. The missex faire of cousinship is both eluding and deluding. Cousins will be consins, even if you did not choose them. They can borrow money from you, visit you without being asked, tell people they belong to your family, contest your will, even fall in love with you-and a cousin once removed is twice as apt to. Never completely trust a cousin. Never depend on his not doing any of these th take him for granted. The "cousinly kiss" may or may not mean what it mesns And cousins siways do kiss. It's part of being cousins.

(Not that cousins need peressarily prove perilous. Once in a blue moon they tovite you to Europe or leave you money, but that almost always takes an aunt or an uncle. -- Atlantic.

Cod Liver Oil From Sharks.

Shark spearing is a profitable industry to Mainysia, though attended by an element of danger and no little excitement. The chief value of the fish is its liver, which yields an oil that is refined in Europe and sold as cod liver

oil. In October the ocean sharks come into the lagoon, between the barrier reef and the atolls, to pair. At this time they can be speared in large num-bers by people skilled in cutching them. There are several species of these sharks, and they ordinarily run from seven to ofteen feet in length. The liver of a spark of this size gives about five gallons of oil. The sharks are found in pairs, and the harpooners try to kill the male first, for they are then able to spear the female also, as it does not desert its mate.

Not a Total Wreck. "What have you done with your

play?" "It didn't go as a farce, so I had some music composed and tried it as an opera, but it fell flat. Then I boiled it down into a vandeville sketch, but

nobody would touch it." "Too had A total loss, eb?" "Not total. There's one good joke in in it: I can sell that for 50 cents."-Louisville Courier-Journal.

Man's Big Mistake.

According to a German biologist, man made a mistake when centuries ago be changed himself from a quadruped to a biped; the contention being that many present day lils are due to carrying the spine in an upright posi-tion when it was intended to be carried norizontally.

Accounted For.

"The baby's awful baid." said Mabel. "Yes: they come baid on purpose. If they had hair they'd pull it all out, and then all that hair would be wasted," said Tommy.—Philadelphia Record.

CEALING WITH A THIEF.

It Was an Unusual Mathod, but It Proved Effective.

Governor Thomas Chittenden of Vermont is remembered for his great kindness of heart as well as for his ability and force of character. He was the first governor of the state and lived in the liberal manner that beliffed his office. His cellar, as was the custom of those days, was well stocked every fall with provisions,

One winter night the governor's rest was broken by sounds coming from his cellar. He left his bed quietly and, with a candle ready to light, unde his way in the direction of the noise. As he reached the cellar he struck a light and saw a man taking great pieces of pork out of his meat barrel and stow-ing them away in a bag. The governor approached the intrud-

er and in a commanding voice said: "Go on, sir! Fill up that bag and be off. You ought to be ashamed of yourself to disturb bonest people at this time of night."

"Be quick!" continued the governor. It is no fit time to keep me shivering

much frightened.

So stern was the governor's manner | New York Herald.

that the man was compelled to obey,

"Now, begone!" went on Governor Chitrenden. 'When you are ngain in need of food come to me and say so. and I will give you more. Do not pillage my house at night. If I ever have the smallest reason to suspect you of another such act you shall be punished for this offense as the law provides."

It is pleasant to know that the man ame to the governor the next day to ask for employment, in order that he might pay for what he had taken, and that work was found for him, which he performed steadily and well,-Youth's Companion,

A collector for the London goo has succeeded in capturing several crab bunting and crab sating dogs in Brazil The dogs are half fox, but they do not seem to care very much for poultry. They have been known to turn up their noses at nice, fat pullets and go debing for crabs instead. The dogs hunf ip packs along the banks of the rivers in the Amazon valley, and the crawflab and land crabs of that region are their especial prey. The crabs often put up The thief shrank back, evidently a vigorous fight, but the dogs have a way of turning them over and biting them in a vital spot just as the thoroughbred terrier pollabes off a rat --

Unfair Advantage.

A school inspector, examining a class in Bible history, asked, "Can any boy tell me what bird Noah let out of the ark?" There was a long slience, and then the smallest boy in the class put up his band and answered. "Please, sfr, a dove!" The inspector expressed his surprise that only the smallest boy in the class knew the answer to the question "But, piense, sir," replied one of the boys, evidently touched by this repreach, "his father keeps a bird shop!"-London Telegraph.

A Lesson in Pronunciation. "How do you prenounce that word divorces, professor?' asked ilr Siab-

sides. "Is it 'divorsay or divorsee?" "That all depends my young friend," smiled the professor. "When Mrs. Jones-Smythe-Wiggles got ber first divorce I should have called it 'Divorce A.' but now that she has come through with a third I should say that 'Divorce C' is a justifiable form."-Harper's.

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