TRUCK TO COMPETE IN RAIL LONG HAULS

That's Prediction of Goodyear Factory Chief.

STREET CARS TO GO, TOO

And Solid Truck Tires Will Be Obsolete in Three Years More, Declares Seiberling.

That solid tires for motor trucks will be obsolete within three years, street cars will soon be replaced by motor buses and freight cars will get close competition from motor trucks on long hauls, were predictions made by F. A. Seiberling, president of the Goodyear Tire & Rubber company, and P. W. Litchfield, factory manager, at a banquet to the Detroit and Cleveland sections of the society of automotive engineers in Akron re-

cently.

More than 200 of the foremost de-dkners heard Mr. Seiberling's proph-esy that within the lifetime of those present the United States would be aresent the United States would be eriss-crossed by great highways of solid foundation to withstand any wear, and that highways of less than 16 feet width would be unknown. He aiserted that the ultimate tire would be the cord—that there would be no fabric or solid tires.

China as the future big market for tires was predicted by the speaker, who declared that the numerous post roads of stone would be excellent foundations for modern highways. He quoted statistics to show that 50 per

quoted statistics to show that 50 pe cent of China's 400,000,000 are em ployed in transportation, against 10
per cent in the United States and
predicted a celestial kingdom of motor transportation. Railroads cannot
be built because of violating Chinese

Mettle of New Light Auto Proved traditions in crossing burial places with the right of way.

Mr. Litchfield declared that the

trolley must go, asserting it has reached a point where it cannot com-pete with the motor bus. For finan-cial reasons extensions are impossi-

MOTORIST SHOULD KEEP IT FULLY CHARGED.

When Battery Is Exhausted It Will Freeze at Zero, but Not When It's Charged.

EIGHTY SACKS OF WHEAT IN THIS TRUCK LOAD.



THAT MAKES THE LOAD TOTAL 130 POUNDS MORE THAN FIVE TONS, THOUGH THE TRUCK, A GARFORD, IS ONLY A TWO-TON MODEL. Truck manufacturers discourage overloading by truck owners, but Paul Welch of the Welch Auto company, La Grande, slipped one over when he hauled this five tons of wheat several miles to shipping point in his two-

on Test Tour Over Some of Country's Worst Roads.

Black, vice-president of the Cleveland Automobile company, kept the factory

COLD HARD ON BATTERY Informed of events en route.

The log of Cobb's trip would make interesting data for those who are now doing their utmost to bring about the company of the company o

After his speedometer recorded \$45 miles at Clinton, Ia. Cobb wired the factory: "Gasoline average 16½ miles per gallon; road conditions unusually bad. Car has remarkable power on high. Riding cannot be surpassed."

Again Cobb wired from Sait Lake City, his chief complaint being that the roads were nearly impassable. He also stated that he was maintaining his average of 16½ miles to a gallon places more than two feet deep. No

The cold snap that hit the northwest and caused Portland thermometers to drop with a resounding that being that the roads were nearly impassable. He also stated that he was maintaining his average of 16½ miles to a gallon of gascoline over the extremely bad foods encountered, and added: "Cleveland their battery charge run low." A full charged battery," says Charles S. Harper, of the Willard battery service, "will not freeze even at 50 degrees below zero. But an exhausted battery will freeze at zero weather. Freezing will ruin a battery. It is always wise to have a battery tested periodically by an expert. Short circults sometimes do not reveal themselves until they have exhausted a battery.

"A generator overcharging will also exhaust a battery. The hydrometer reading of a fully charged battery will indicate 1.275 to 1.225 a battery is less than half charged and should be recharged at once. Hydrometer reading water to cells."

Again Cobb wired from Salt Lake complaint being that the roads were nearly impassable. He also stated that he was maintaining his average of 16½ miles to a gallon of over the extremely bad foods encountered, and added: "Cleveland skin has withstood all this abuse of weathers."

Evaluation of freeze externed with disheart the strong of the will and to get traction, is continually concerned over the prospect of a boiling should always be corrected immediately, especially in cold weather, before costily repairs are necessary. The hydrometer reading of a fully charged battery will indicate 1.275 to 1.300. When hydrometer readings are 1.175 to 1.225 a battery is less than half charged and should be recharged at once. Hydrometer reading frequency until Carson Citx, never the desert searched.

The beginned of the desert continually charged battery will indicate 1.275 to 1.200. When hydrometer reading of a fully charged battery will indicate 1.275 to 1.225 a battery is less than half charged and should be recharged at once. Hydrometer reading frequency until Carson Citx, never the proposed of the

CLEVELAND ON LONG RUN this rather prosaic report to Sid Black at the Cleveland factory:

"Arrived Fresno O. K. nine days from Chicago. As far as we know, is best stock car record. Roads all but impassable. Covered 3259 miles, Car in excellent condition."

ACROSS CONTINENT.

TO BE FOUGHT, HE SAYS.

coops trip proved to the satisfac-tion of the factory and its dealer or-ganization that the makers of the Cleveland six have built into the car the elements that make for efficiency and durability of the highest order. It is the first trip of its kind ever made in a Cleveland and the car survived the test without mechanical difficulty L. S. Cobb of Fresno, Cal., recently of any sort and, as well, showed economy in operation.

reached a point where it cannot compete with the motor bus. For financial reasons extensions are impossible, so the street car must give way to the gas-driven vehicle that can ald development of suburbs without heavy investment in franchises and discussions in traffic has sounded the death of the troiley, according to the control of the troiley, according the street service. Therefore, the whole street service must be utilized by a carrier that can go to the curb to take on or discharge passengers, and the troiley must go underground as in London if it remains in existence, he said.

*The Goodyear factory manager pointed out the immobility of freight cars and delays necessitated in waiting to make up trains for siven destinations. In contradistinction he indicated the mobility of the motor truck and predicted that with permanent highways and cord thre sequinment the motor truck will replace the freight car on long hauls.

Mr. Litchfield asserted that the warhad put Europe 50 years ahead in transportation and with this future for the industry in minal, asked the visiting engineers to design large-capacity carriers to replace the street car and prophesited that a multiple wheeled truck would give competition to the railroads on long hauls.

This being the longest test of its kind ever made in a Cleveland light in the metator of the land. The company of the factory of the industry in minal, asked the visiting engineers to design large-capacity carriers to replace the street car and prophesited that a multiple wheeled truck would give competition to the railroads on long hauls.

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This being the longest test of its kind ever made in a Cleveland light in the material of events on route.

a nationalized, improved highway system. For days the Cleveland struggled through mud. deep sand and over mountain trails.

After his speedometer recorded \$45 miles at Clinton, Ia., Cobb wired the factors; "Gaspalipe average of the steephone company had made three factors; "Gaspalipe average of the steephone company had made three factors; "Gaspalipe average of the steephone company had made three factors; "Gaspalipe average of the steephone company had made three attempts to get his repair men out

to Stop Hauling of Freight

to Stop Hauling of Freight

by Truck Lines.

F. W. Vogler, president of the Northwest Auto company, forsees a possibility that the railroads will attempt to put a crimp in the hauling of freight by motor truck after the rail lines return to private ownership. He bases his belief on the fact that in California legislation is pending that, if adopted, would seriously handicap, or entirely eliminate the carrying of freight by motor truck.

In Nevada, moreover, declares Mr. Vogler, the Virginia & Truckee railway travel would be expressed it as his opinion that the probable effect of railway travel would be expressed.

Gateway Rebuilt at \$125,000 Cost

Is Now Ready.

ABERDEEN, Dec. 20 .- (Special.)-

Completion of the east end entrance to Aberdeen on the Pacific highway will mean much to the cities of the through deep snow drifts, in some places more than two feet deep. No speed laws were broken, despite the fact that motorcycle officers were and from the country towards the fact that motorcycle officers were broken, despite the fact that motorcycle officers were and from the country towards the highways interlace the whole country and the same and town to make the 18 miles and three sets of chains were completely worn out on the drive.

The Dort plowed through the snow without a mishap, the linemen repaired the wire and long-distance service was maintained between Portland and Salem.

TWITMYER TAKES NEW POST

Peerless Official Goes to Plant of New Stevens-Duryea.

Will mean much to the cities of the country towards the harbor ais the main high-range of transportation of the motor truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways and the highways interlace the whole country truck follows the highways, and the highways interlace the whole country truck follows the highways interlace the whole country truck follows the highways and the highways interlace the whole country truck follows the highways interlace the whole which will be followed has been done a large year's business, and this done in the highways interlace the whole country truck follows the highways int

TRUCKS NOT CAUSE OF DAMAGED ROADS

Opposition on That Score Not Based on Facts.

WIDE TIRES CUSHION LOAD

Truck Here to Stay as Factor in Modern Transportation, Despite the Efforts of Opponents.

Another old story repeating itself. This is the way ship-by-truck advocates characterize the opposition deeloping in some quarters to the use veloping in some quarters to the use of highways by the motor truck. This opposition cloaks itself most often, they say, in the assertion that heavy traffic will break up roads which have been laid at great expense. Replying to this contention, the ship-by-truck advocates point out that the manufacturing engineers have seen to it, for the sake of road protection, that the size of a truck tire and its road surface contact shall increase with the capacity of the truck. No injury is done to the road, they assert, so long as the truck is not overloaded.

oaded.
They point out that every great ad. vancement or improvement which his-tory discloses has had to buck up

against vigorous opposition, but that inevitably progress wins.

They bring forward the fact that when the first important English railroad was being considered by the parliament of that country strenuous MOTOR TRUCK CONSTRUCTION

TO BE FOUGHT, HE SAYS.

Dealer Cites Suit by Nevada Road
to Stop Hauling of Freight

Ilament of that country strenuous objections were made against the granting of the charter. It was alleged that the introduction of the railroad would destroy the value of landed estates, that it would disturb game, that the smoke of the locomotives would blight vegetation, that hens would cease to lay, that the value of real estate in the vicinity of railway stations would be depressed.

Vogler, the Virginia & Truckee railway has brought suit against Ginocchio Brothers, who operate a fleet
of freight trucks in competition with
the railroad. If the Nevada railroad wins, he believes railroads in
other states will also bring suits.
"On the outcome of this suit," says
Mr. Vogler, "will depend to large
extent, whether the people will have
the right to use the public roads,
which their millions have constructed,
for their benefit and convenience as
they see fit, or whether, through
onerous legislation fathered by the
railroads the use of the most modern
and efficient methods of transportation, that of motor trucks, shall be
so hampered and stifled as to be put
out of business.

"The illustration is particularly

It as his opinion that the probable effect of railway travel would be extremely deleterious to the health of
those who look on as well as ride in
moving trains.

"The disease which he believed the
railroad would
spread he designated by the term
delirum furiosum. He thought that if
people would Be foolhardy enough
to ride in cars they might be deserving
of little pity if they should contract
this terrible disease, but, in his judgment, it was the duty of the state to
protect the onlookers, and, with a
form the reight to use the public roads,
which their millions have constructed,
for their benefit and convenience as
they see fit, or whether, through
onerous legislation fathered by the
railroads the use of the most modern
and efficient methods of transportation, that of motor trucks, shall be
so hampered and stifled as to be put
out of business.

"The illustration is particularly
damage the highway than is the

"Necessity is the mother of inven-tion, and the inability of the railroads to care for traffic and their unwelldi-ness and the fixity of their range

The Season's Finest Closed Cars

Five-Passenger Sedan Four-Passenger Coupe

THE new Mitchell closed cars are the L season's most impressive offerings. They were designed to establish new standards in all-season cars - qualities which only the Mitchell offers.

Never before have comparable bodies been offered on other than extremely high-priced cars.

There is unusually sturdy construction. The frames are of rock maple and white ash. The joints are re-inforced. Corner and door posts are solid. Metal panels cover the entire surface of body and doors. All panel joints are welded.

Unusual Comfort and Beauty

Head room is ample but clever proportioning gives a low, rakish look. Seats are as wide and deep and leg room as great as in the touring car.

Upholstery is highest grade velour in a soft gray tone with silk curtains and a high-pile Wilton rug to match. Lights, as well as other fitments, are of oxidized silver in a delicately chased design.

But a few of the numberless items of distinction can be mentioned here. You must see these cars to appreciate the lengths to which Mitchell builders have gone in developing elegance and quality.

These splendid bodies are mounted on the new Mitchell Victory Chassis. A truly remarkable car is the result — a car we urge you to investigate.

You'll find these new-type Sixes better in scores of ways. Over two years have been spent by Mitchell engineers in revising Light Six standards. May we be given the opportunity to show you these betterments

5-Passenger Touring Car \$1690 120-Inch Wheelbase—40 h.p. Mosc 3-Passenger Roadster, same price 5-Passenger Sedan \$2600 4-Passenger Coupe \$2500

7-Passenger Touring Car \$1875 127-Inch Wheelbase—48 h. p. Motor All Prices f. o. b. Factory

MITCHELL MOTORS COMPANY, Inc., Racine, Wisconsin

Mitchell, Lewis & Staver Co.

William L. Hughson Company Re members All With Check.

BONUS GIVEN TO EMPLOYES

Motor Truck Not Limited.

"The range of transportation of the railroad is fixed by steel rails. The range of transportation of the motor truck follows the highways, and the highways interlace the whole country.

"The case of W."

Portland employes of the William L. Hughson company were surprised last Tuesday night, when Manager Del Wright handed each and every one of them a check for a substantial bonus on their year's wages. The William L. Hughson company has done a large



on Portage Cord Tires. Portage Daisy Tread Cords on the rear wheels and Portage Ribbed Cords forward

make a combination for endurance and speed you will appreciate. And they will materially reduce your gasoline consump-tion—all of which means more value for Pacific Tire & Supply Co.

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All () Oversize



-the nation's freight

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Keeps Rain Out You don't have to suffer the inconvenience and humiliation of driving with a leaky mohair top. You can make the old top absolutely

waterproof by applying Waterproof **Mohair Top Dressing**

Also improves the appearance many fold by dyeing the top a uniform black that stays black. Leaves material soft and pliable. Won't streak, gum or rub off. Get it from your dealer in cans-Pints, \$.75; Quarts, \$1.25; Half Gals., \$2.35; Gals., \$4.50.

For renewing leather and imitation leather tops, curtains and cushions, use

Leath-r-nu

Dries in fifteen minutes a rich, lustrous black. Does not stiffen material. Unaffected by heat, cold, water or gasoline. Also fine for touching up body, fenders, traveling bags, kodaks, etc. At your dealer's in cans—Half Pints, \$.50; Pints, \$.90; Quarts, \$1.50; Half Gals., \$2.75; Gals., \$5.00

If your dealer ham't these wonderful prod-ucts, let us know, and we will see that you are supplied.

Nu-Back Mfg. Co. Dept. G.

