### THE OREGON STATESMAN, SALEM, OREGON



#### Radiator and Lubrication Need ttention Before Cold **Weather Comes**

Now is the proper time to prepare you car for the approaching cold weather season. Motorists who are wise, will, at this season of the year, guard against the pranks which nature plays by causing the thermometer to take sudden decents with a possible ill effect on the motor. By giving due cooling systems, especially without an inconvenience or difficulty, autoists can drive their cars despite the coldest weather, according to the Hupmobile dealer in this section.

"Of first importance is the care of the radiator." Mr. Kirkwood points out, "Water freezes at 32 degrees Fahrenheit and can expand with such force that it is apt to crack a radiator with expense and inconvenience to the owner. To prevent this condition the water should be drained when the cool weather first sets in and the system filled with anti-freeze soution. Undoubtedly the most popular solutions are distilled glycerine and alcohol, Alcohol costs less but because it vaporizes rapidly at operating temperatures of the motor, the alcohol must be replenished frequently. Distilled glycerine, on the other hand, is more expensive per gallon, but since it does not vaporize, only water need be added at regular intervals. At the end of the season, it can be drained and set aside for next winter. With any solution, it is necessary to have it tested for freezing point to suit the climate.

"Although the lubrication system is not so liable to freeze, it is important that a winter lubricant be used where the temperature is exceptionally low. Proper lubrication can be maintained on the bearing surfaces in these units only where the lubricant retains a semi-fluid state.

"The oil used in the motor during this period must be of a character that stands a zero-cold test. During extremely cold weather three-fourths of a pint of denatured alcohol should be used with each gallon of oll to prevent freezing of water, caused by condensation. It is suggested that the crankcase be drained and refilled ith fresh oil because of the increased condensation and dilution resulting from lower operating

temperature.

cohol, the most popular, has advantages and disadvantages which are well known to the average motorist. There are several new ones however, including glycerine, whose characteristics are not so well known but which have much to recommend them for engine protection in cold weather.

Glycerine, a by-product of scap manufacture, has been suspected of a tendency to eat into metal and rubber hose connections. This

is not true, according to a lenghthy report by the U.S. bureau of standards, when the glycerine is chemically pure neutral type, free from acids and alkalis, as prepared for radiator use by the larger soap makers. The fallacy is doubtless due to the fact that glycerine will seep out of tiny openings

pass, or, if it did pass would be evaporated immediately by the engine heat and the air.

Glycerine will not evaporate immediately and therein lies one of its greatest values to the motorist. You can fill your radiator with the proper solution of glycerine anti-freeze solution and water and never give it another thought

throughout the winter except to replenish with a pint or so of water every few weeks. The great precaution that must

be taken before glycerine is put in is to have the water circulation system completely tightened up and if necessary, new hose con-

nections installed. Several other advantages of glycerine are that it has an extremely low freezing point, a boil-

overheating, it will not harm body tinish at all and is free from objectionable odor. Its flow, even in the coldest weather, never becom-

es sluggish enough to interfere with the cooling properties of the solution. There are several other com-

mercial antifreeze mixtures on the market which have similar ad-

vantages but which have as bases other chemical compounds. Racing an engine to get it warmed up on a cold morning and running with open choke are two of the high crimes of motoring which are costing car owners mil-

lions of dollars annually. When the engine is cold the oil in it is more or less congealed and, for many of the parts are rubbing out lubrication, a highly dangerous condition for cylinder walls, pistons, bearings and other expensive parts.

Somewhat the same situation is produced by running it with the choke open. In this case the cylinders receive an overabundance

of raw gasoline which works down Christmas consult Photo Gus now past the pistons, taking much of it Patton's Book Store.



1926 will be the biggest year to date for motor bus travel in the Northwest, according to Edgar F. Zelle, president of the Minnesota Motor Bus association, testifying before the interstate commerce commission hearings in St. Paul. Traffic is now being carried at the rate using a Graham Brothers one-ton of 11,000,000 passengers annually.

attention to the lubrication and through which water could not the cars equipped with themostatic water control, oil filters and crankcase ventilation systems. mecdeay?k bythe ?mdutf anorda

The battery will make a lot of trouble for you in winter if you abuse it. Starting more frequently

in winter and using the lights more makes the battery work over-itme. The water should be kept constantly at the proper level and the battery should be kept charged, to avoid freezing or quit-

ting cold some night when you least expect it and when it is most inconvenient.

If you have a high regard for your car wou will find that it pays

handsomely to leave it in the garage when the roads are full of jagged ice and deep frozen ruts and to use a taxi-cab for your necessary errands. Winter is a paring point somewhat higher than ticularly hard time for tires and drifvng them at high speed over water so it will not cause engine sharp ice and ruts cost a lot of money.

> .You know probably that wet rubber cuts more easily than dry rubber and that a weekly inspection of the tires should be made and all small cuts and scratches

filled with rubber cement. Tires are a lot better than they used to be but even the best of them can have thousands of miles service taken out by careless treatment in winter. Proper tire inflation becomes especially important in the

cold season.

A garage heater to take the chill off the car, an easily installed tonneau heater to keep your passengers comfortable, lap robes.

foot warmers, automatic windseveral minutes after the start, shield wipers with double blades, radiator anti-leak solutions, against each other practically with spring covers, winter tops for open cars and most important. loosely applied skid chains for slippery days are all things to consider in reference to the comfort, safety, economy and efficiency of

winter driving.

is yours.

If you want to give a Kodak for Learn all

MUSIC "ON THE AIR"

SUNDAY MORNING, NOVEMBER 7, 1926

by the fact that in one portion we | square miles, not acres, drank, in October, 1925, rainwater that had been saved by natives | rabbits are as much of a curse to | 1000 pounds, and are as large as since the spring of 1921.

Interior of Australia Visited blood of Australia, because they at the almost incredile rate of furnish drinking water to cattle thousands of acres a year and and sheep, the raising of which grows so thick that horses and forms Australia's chief industry, cattle cannot make their way

Water from these well, called through it. Clearing it is unprofbores' is carried in 'bore drains' itable inasmuch as the cost of which are similar to our irrigating ditches, for as much as 70 miles. Australian steers forage food where American cattle would starve, fodder being so scare and so lacking in nourishment that the Australian steer is usually five years old before he is large enough to market. The sheep and cattle ranches or 'stations,' as they miles of it at one time in three are called, are of vast extent, one hours.

of the largest containing 42,000

consists largely of rabbits, kan-"The prickly pear cactus and garoos, some of which weight Australia as the lack of rain, and a horse, wallabys (small kanga-"Artesian wells, heavy with al- great quantities of arsenic are im- roos), camels and emus. The later call and disastrously unpalatable ported each year to combat these an ostrich-like creature, is very to man are, however, the life two evils. The cactus is increasing numerous. Two were run over by our Graham Brothers truck in its

> travels. "To the blacks, as the aborigines are called by native Australians, our Graham Brothers truck clearing is \$10 an acre and the was a constant source of wonder, most of them never having seen a land itself is only worth \$2 an motor car before, and we had the acre on lease from the governgreatest difficulty in keeping ment. The thorns on this variety of prickly pear do not seem to be them from running off with parts long enough to puncture a tire for of the truck as souvenirs.

> "Take it all in all," the exin some places we had to buck plorer sums up, "Australia is still this cactus in our Graham Brothers truck, plowing through seven frontier land, but development is sure to come as long as such dependable transportation as Grah-

am Brothers truck is available." "The animal life of Australia



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The Oakland Six incorporates every desired refinement, including the Rubber-Silenced Chassis, an epochal and exclusive feature, imparting an unmatched smoothness and quietness of operation; the remarkable Harmonic Balancer, pioneered by Oakland, and eliminating torsional vibration at ness and greater operating eff

all engine speeds; smart new Bodies by Fisher, finished in new and strikingly beauti-ful two-tone Duco colors; new tilting-beam headlights, with foot control to make aight driving safer and easier; and vital engine dedriving safer and easers, still greater su velopments, resulting in still greater su

Seven

Bearing

Crankshaft .

MOTOR

Oakland Six, \$1025 to \$1295. Pontiac Six, companion to Oakland Six, \$825 to \$895. All prices at factory. Easy to pay on the General Motors Time Payment Plan.

#### VICK BROS., Salem, Oregon Associate Dealers

table charge for both the owner ried on without the slightest meand the dealer. hcanical complaint, with the remarkable average of 15 miles to Great stuff! Everybody says so. the English gallon of petrol, and Those pies, cakes, doughnuts and with petrol at 65 cents per gallon. pastries made by the Better Yet this economy was an enormous Baking Co. can't be beat. 264 saving factor. N. Com'l. "Australia," he continued, "is 1925 Bulek Standard Sedanabout as large as the United looks and runs like new. Don't States, and has for the center, the dreaded 'Dead Heart' or never,

fail to see this before you buy a car. Otto J. Wilson, 388 North Commercial.

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tion program. This program con-

sists of aiding its dealer organiza-

tion in improving shop methods,

Service promotion deals with

the efficient layout, equipping and

operating of the dealer's service

station. It offers a standardized

plan of shop layout, making avail-

able special Chevrolet tool equip-

ment, and provides assistance to

the dealer organization in proper-

The flat rate method of charg-

ing for repair work is suggested

in this plan as it insures an equi-

ly installing these methods.

equipment and personnel.

water in this parched desert, for Walter H. Zosel, automobile much of it resembles the most tires, tubes and accessories. Vularid portions of our so-called canizing that holds. High quality, great American desert, is inconsuperior service. A trial makes a customer. 198 S. Com'L. ceivable and can be realized only (\*)

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Insist on the genuine. Any dealer can supply you

W. E. BURNS—DAN BURNS (Not Brothers - The Same Man **High Street at Ferry** Salem, Oregon Following a triumphal tour of H. H. BROOTEN'S CELEBRATED

ORF

head of the expedition, who has just returned to the United States. **Chevrolet Company Spends** In a recital of experiences that Thousands on Promotion for oddity and interest compare with a chapter from the Arabian The Chevrolet Motor company Nights. Allen expressed himself is spending over half a million dolas being delighted at the completely satisfactory performance lars annually on a service promo-

TRUCKS PENETRATE

HEART OF DESER

by Sturdy Machines of

Geologists

"Never Never Land," the great

desert of Australia, so named be-

cause it never, never rains there.

has been penetrated and explored

for possible petroleum resources

by a party of American geologists

truck, according to R. E. Allen,

of the one-ton Graham Brothers truck employed as transport for the expedition. "I was prepared for dependability." he said, having used Graham Brothers trucks in oil field work before, but the exceptional performance of this truck in rough country much the same as Roy Chapman Andrews traversed in the Gobi desert with

his Dodge Brothers caravan, was

"In 16 month," Mr. Allen said,

we traversed an area as large as

California, covering 22,000 miles

in all. Despite the heavy load of a

ton of gas, 20 gallons of oil and

water, and all food, bedding and

equipment, the sturdy truck car-

never land which has been little if

at all explored. The scarcity of

truly remarkable.

"Also, the transmission and rear axle should be drained and the lubricating oil with it and about different models. His time forming in the crankcase a weak, refilled in advance with a lubricant that will stand a zero-test, or 40 per cent of the lubricant drained off and replenished with zero-cold test motor oil.

"To guarantee easy starting in the winter Hupmobile conducts battery and starter tests in a cold storage room at variable temperatures reading far below zero. This accurately determines the demands on the starting motor under unusual conditions. The efficent manifold design and thermostatic control of heat enables the motor to reach its normal running temperature without a long 'warming up' period.

Cobbs & Mitchell Co., lumber and building materials for every purpose. Get estimates, look at quality of material, then you will order. 349 S. 12th St. (\*)

HOW TO PREVENT FREEZING IN WINTER

The first precaution is to make sure that the water in the cooling put in and of the crankcase besystem cannot freeze. A neglect | fore the lighter grade of oil is put of this detail until after the first in for winter use, a cleaning of sudden cold snap may result in the spark plugs, the oil purifier, hundreds of dolars of expense for the distributor and the gasoline electric welding of the engine tank and the fuel lines are some where the internal ice has burst of the inexpensive things that it. This means either that the radiator must be emptied out every placid and trouble-free winter night and whenever a long stop is driving.

One Way

One Way \_\_\_\_\_ Round Trip .

nd Trip

made in cold weather or that ber of cold starts in winter the some anti-freeze solution must be oil should be completely changed put in the radiator. There are several of tehse. Al- every 500 miles, even in most of

A Land

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watery mixture which has little lubricating value. The remedy for both of these ills is to run the engine slowly

with the spark retarded and radithe Scandinavian countries this ator shutter closed in the garage summer, Maria Kurkenko returnfor five or six minutes before ed to this country in September to starting out. But be sure that the continue her concert work. On windows and doors of the garage November 10, she may be heard are open. Deaths from the carbon-"on the air" as she will broadmonoxide polsoning of automobile cast several seltctions during the exhausts are increasing annually Atwater Kent radio hour from

and are totally unecessary and easily avoidable. To have your service station prepare your car for winter will

return to you a great many dollars in satisfactory winter motoring and in the avoidance of the damage which carelessness causes. at this time of the year. A cleaning and winter adjustment of the

carburetor, the installation of an automatic or hand operated radiator shutter if your car is not equipped with one, a complete cleaning out of the water system.

station KFOA of Seattle, She will be assisted by Myron Jacobson, planist. Among the songs she will sing are; "Mio caro bene" from cost a very few dollars but will Rodelinda, "Aria 'de Venus" by

Lully, "My Lover Is a Fisherman" by Lily Strickland. In addition she will sing several other selections and Mr. Jacobson will render some piano solos.

The Peerless Bakery, 170 N. Commercial: Sanitary, up to date. Prompt delivery. Bakers for those who appreciate the best. Increasing patrons tells the tale. before the antifreeze solution is

**DUCO COURSE IS GIVEN** 

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On accout of the greater numstruction on the application of this latest innovation in automobile finishes.

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Address H. H. BROOTEN'S "KELP ORE" BATHS, Cloverdale, Oregon. If your druggist cannot sapply you, write direct to H. H Brooten, Cloverdale, Ore.



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