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Items of Interest

Mr. and Mrs. R. H. Mast, Sr., Mr. and Mrs. Mast, Jr., and Miss Lita Mast made up a party going to Eugene last week by auto. Mr. Mast was taking his son and daughter out to enter the U. of O., and the Mesdames Mast went along to keep their better halves in the road. The trip was made in a day each way going out Thursday and returning Friday the old Coos Bay wagon road being the route taken to and from the valley. Mr. Mast reports that thoroughfare in very good condition except the rough part through the canyon. The interior roads are also good, and the work being done on the Pacific Highway in the canyon this side of Cottage Grove is resulting in a fine route through that section. Mr. Mast returned through Eden valley and loaded up with peaches, which he says are plentiful and fine in the valley. He says that his new Dodge car behaved splendidly, and no mishap occurred on the trip—Coquille Herald.

The many friends of J. M. Thomas the well known and efficient game warden, are having a good laugh at his expense, since a government inspector found his boat on the bay Sunday without the necessary number of life preservers and overloaded. The boat is a little pleasure craft which his son Ed. Thomas had taken to give a party of friends a ride on the bay —Coos Bay Harbor

J. C. Savage formerly publisher of the Sentinel, who left here last December to try farming in Florida, which did not come up to all the specifications, reached here Tuesday afternoon. His wife and baby will remain about a month longer at her old home in Minnesota and then rejoin him. Mr. Savage tells us that his sister, Miss Grace M. Savage, who left here a month ago for her old home in Iowa has taken the position she used to fill in the church work there and does not expect to return to Oregon—Coquille Sentinel.

Judge Skipworth sitting last week at Coquille gave an interesting decision regarding the having of elk's horns in one's possession. In the case of Jordan Schapers charged with having elk horns, he directed a verdict of not guilty, holding that the law was not valid.

The Game Warden will hold the elk horns seized from Schapers and District Attorney Liljeqvist says that the case will be taken to the Supreme Court for a decision here.

Reports have been occasionally circulated, ever since work on the bridge across the bay was commenced, that the S. P. intended extending the Eugene Coos Bay line to Eureka. The rumors were always denied by S. P. officials, but nevertheless the last rumor circulated last week, seems to be founded on something more substantial than wind—Coos Bay News.

K. B. Westleader was busy with his movie machine on Central avenue at noon. He snapped the North Bend jitneys in action, showing them loading and unloading and it was noticeable that they all carried full passenger lists at the time. At two o'clock he pictured the fire department, showing the auto truck tearing out at the station answering a call—Coos Bay Times.

W. W. Gage, sheriff of Coos County for a great many years until last election, when he was defeated on a narrow margin by Alf. Johnson, is now serving in the capacity of foreman of the jury in the Circuit Court. W. W. Gage is known by every man, woman and child in Coos county, and has more friends than anyone we can mention at this time—Coos Bay Harbor.

One of the newer and highly satisfactory ways of preserving eggs is by the use of water glass, a liquid form of sodium silicate, which may be obtained at any drug store. For use in preserving eggs, put one pint of water glass in 10 quarts of water that has been boiled. Put in a stone jar and add the fresh, infertile eggs as you gather them. Always have at least two inches of the solution above the eggs.

Water glass eggs are practically as good as fresh eggs for most cooking purposes. It is desired to boil them, prick a small hole through the large end of the shell before placing them in the water. The pores of the shell have been sealed with the water glass solution and without this pin hole the expanding air within the shell would burst it.

Kalamazoo, Mich.—On the same day Eva Jackson found a sister from whom she had been separated for twenty years; helped to celebrate the twenty-first birthday of Charles R. Olmstead, and then, to cap the climax, married him. The sister is the wife of Arthur Brown, a friend of Olmstead, through whom the sisters traced their kinship.

INTERESTING POINTS ON THE SCIENCE OF LUBRICATION

Few motorists know what lubrication really means or can tell just what happens when the oil strikes the hot cylinder walls and how it is affected. An article by Lieutenant G. S. Bryan, U. S. N. published in the February Journal of the American Society of Naval Engineers, throws considerable light on the subject. He says in part:

"The lubricating value of an oil is due to the fact that when the surface of the cylinder and piston are separated by a film of oil the friction of these two metal surfaces is eliminated and the friction that remains is only that occasioned by the sliding action of the molecules of oil past each other. In other words, it is same as if two layers of oil are sliding past each other, and the friction that occurs takes place inside the oil film and not on the surface between the film and the metal. In other words, we have a dual film-oil working against oil.

"Under the conditions of high rubbing speed and small piston ring pressure that are generally found in motor cylinders, light oils, such as are used in turbines, would probably give the most efficient results if it were not for the high temperatures encountered in the cylinders.

"Before discussing the effect of these high temperatures, it will be well to determine just what they are. Recent experiments abroad have shown that the maximum temperature attained in an internal-combustion engine is about 2,700 degrees F. This is the maximum and is obtained only at the top of the explosion stroke.

"A recording thermometer used in the above investigation showed that the maximum temperature was about 2,700 degrees F., the minimum about 250 degrees F., and the average during a complete cycle about 950 degrees F. These temperatures are those of gases in the cylinders and are not those of the cylinder walls. There is a greater difference between the temperatures of these two. As long as the water is not boiling we know that the temperature of the wall is little, if any, higher than 267 degrees F.

"It naturally follows that the inner and outer surfaces of the oil film will be exposed to quite different conditions. The inner surface is exposed to the high temperature of combustion and without doubt is very greatly damaged thereby. The outer surface is exposed only to the comparatively low temperature of the cylinder walls, and with a film of any appreciable thickness would be protected from the heat due to low conductivity of this film.

"We can consider the film as consisting of two layers, the function of one of these being to furnish the lubrication and of the other being to withstand the destructive action of heat and to protect his lubricating layer. It is well known that an exceedingly thin layer will furnish lubrication, and it is probable that the greater part of the thickness of the film is used up in giving the requisite protective action from the heat. At any rate, the part that we must look to for lubrication is that part having the lowest temperature, which is the very thin layer next to the cylinder walls.

"Lubricating oil does not burn very easily or very fast, however, and time given for it to burn in a motor cylinder is very short. Under the intense heat however, the inner surface of the oil film will be vigorously affected.

"Some oils from a thick, viscous, gummy deposit, which retains the carbon formed on its surface and prevents it from being blown out through the exhaust. This gummy deposit gradually gets thicker and harder, eventually forming the hard carbon deposit so well known in cylinders.

"Oils made from asphalt base crudes have shown themselves to be much better adapted to motor cylinders, as far as their carbon-forming proclivities are concerned, than are the paraffine-base Pennsylvania oils. The carbon formed from the latter is, as a rule, extremely hard and clings to the metal surface while that from the former is soft and can easily be wiped off any surface that it is deposited on. This would be expected from a consideration of the nature of the nature of the hydrocarbons composing the oil, and it has also been demonstrated in practice.

"The explanation lies in the fact that the paraffine-base oils are generally composed of the paraffine series of hydrocarbons, while the asphalt-base oils are composed mainly of the ethylene and naphthene series. One of the characteristics of the latter two series as compared with the paraffine series is their tendency to distill without decomposition. Consequently no gum will be formed on the cylinder walls, and the carbon liberated will be mostly discharged with the exhaust gases."

In the Better Babies contest at the county fair one boy, Geo. Blane of Myrtle Point, was found who weighed only a half per cent of perfection, in opinion of the judges. A girl, Vera Dean Harvey of Marshfield scored 99 per cent.



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"Why, Gladys, you are spoiling your dolly."
"No, mamma; I am painting its cheeks with the same color that you use."—Exchange.

IN THE CIRCUIT COURT FOR THE STATE OF OREGON FOR THE COUNTY OF COOS

C. R. Wade, Plaintiff, vs
A. J. Barre, as administrator of the Estate of R. P. Hempel, deceased; G. T. Treadgold, and Ellen Hempel, widow of R. P. Hempel, Defendants.

Summons
To Ellen Hempel, widow of R. P. Hempel, one of the above named defendants:

In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled suit within six weeks from the date of first publication of this summons; to-wit: within six weeks of the 24th day of August, 1915 and if you fail so to appear and answer on or before the 5th day of October, 1915 that being the last day of time prescribed in the order for the publication hereof, plaintiff will apply to the court for the relief prayed for in the complaint, a succinct statement of which is: a judgement against the estate of R. P. Hempel deceased for \$21,880, with 9 per cent interest thereon from October 2nd, 1913, \$36, attorney fee, costs and disbursements, and for a decree foreclosing a mortgage given by R. P. Hempel to secure plaintiff's claim covering land described as SE 1/4 of SW 1/4 Sec. 30, and E 1/4 NW 1/4 and SW 1/4 NE 1/4 Sec. 31, all in Tp. 29 S. R. 14 W. W. M. in Coos County, Oregon, and for an order of the Court declaring the interest of you, Ellen Hempel, to be inferior to plaintiff's claim in the premises, and for such other relief as the Court deem proper. This summons is published pursuant to an order of the Hon. James Watson, County Judge of Coos County, Oregon, made at his office in Coquille, Coos County, Oregon on the 21st day of August, 1915, on motion and affidavit made by plaintiff, and filed in the above entitled cause. Dated at Bandon, Ore. Aug. 24th, 1915. C. R. WADE, Plaintiff in person.

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