

# TESTS METHODS TREATING PAPER

UNIVERSITY OF OREGON, EUGENE, April 28.—(Special)—Dr. Alfred Tingle, former research chemist for one of the leading pulp and paper mills of Canada, has recently completed in the University of Oregon laboratories a study of the chemistry of paper sizing upon which he has been engaged for several years.

Sized paper is paper so treated that ink does not spread when it is written on. The art of sizing paper as at present practiced is old, but the chemical reasons for carrying on the operation in the way indicated by experience to be best, have been a subject of controversy among technical men. Without a well-established theory as guide, improvements in the art can only be made by hit or miss methods.

Dr. Tingle believes that when his results are published the differences of opinion among experts will be removed or greatly diminished. In the upshot it should become possible to size paper by cheaper methods than those now used, the possibility of such methods now being indicated directly by theoretical consideration. In fact, Dr. Tingle has already succeeded, showing how costs can be cut along certain lines and producing perfectly sized paper.

A short time ago Dr. Tingle brought to perfection in the University laboratories a new process for producing paper pulp from wood in which shavings and similar "cull" material of the ordinary paper pulp mill may be included to give a satisfactory pulp for making a heavy grade of dark paper. The application of Dr. Tingle's digestion method, which he believes may prove applicable to Northwestern fir wood and at the same time cheap enough in operation to use in connection with waste products, is expected to be of great importance to the lumber industry.

### EXPERTS FILM SOUTH SEA BIRDS

PAGOPAGO, American Samoa, April 26.—R. H. Beck and J. G. Corrales, of the Whitney expedition studying bird life in the south seas, have returned here after a trip through these islands in which they obtained specimens and photographs of all the types of birds found here. The expedition is operating under the auspices of the American Museum of Natural History.

Thus far trips have been made to the Marquesas, Society and Cook groups as well as a few isolated islands.

### JAPANESE LEAVING SHANTUNG

TSINGTAO, China, April 28.—Japanese influence in this section is on the wane, if the population of the Japanese colony in Tsingtao and environs may be accepted as a gauge. During the Japanese regime, from 1914 to 1922, the Japanese population exceeded 30,000. It has dwindled to 12,000 and every month witnesses a further decrease.

Elementary school teachers of Italy continue to send fervent thanks to Minister Gentile for the recent noteworthy improvement in their salaries. One teacher in the Abruzzi sent as a sign of gratitude 2,000 lire for use in organizing an infants' school.

## RECKLESS DRIVERS MAY BE SUBJECTED TO BOOZE DETECTOR

SAN FRANCISCO, April 28.—Motorists charged with intoxication have caused numerous deaths in this vicinity recently, and in the campaign against reckless driving, Dr. O. W. Ginsburg, an X-ray specialist, has offered the police a "booze detector."

The machine, according to Dr. Ginsburg, has been known to physicians for some time and is called the metabular. It is a simple apparatus that determines the quantity of oxygen consumed by a patient. When a man is drunk, and how to prove it, has long been a problem in courts. This is Dr. Ginsburg's explanation of how to apply the metabular to the question of intoxication:

"It is known to medical science that a person under the influence of liquor consumes far greater quantities of oxygen than he does normally. This is natural, for alcohol is a great heat producer and calls for great quantities of oxygen to equalize the consumption of heat. All that is necessary to determine the degree of intoxication is to find out the heat production going on in the body by the intake of oxygen. The metabular does this. The suspect is fed pure oxygen through a nozzle. The machine registers how much is taken into the system. Comparison with the normal intake, which can be made when the suspect is sober, will establish beyond doubt whether he was under the influence of liquor at the time of his arrest."

The city authorities have under consideration Dr. Ginsburg's plan to install metabular machines at all police stations.

It formerly was the custom here for drivers suspected of intoxication to be taken to the emergency hospital, where they were examined by a physician, who signed a certificate expressing his opinion of their condition. At present, however, the police take such a prisoner direct to headquarters, where, if he is held to show evidence of drunkenness, he is booked on a charge of driving while intoxicated, a felony. Neither method has proved satisfactory in checking the evil, according to police officials. They point out that often men too far gone in liquor to drive safely are able to appear sober when subjected to medical examination, and also that the opinion of policemen usually is discounted when the cases are brought up in court.

## OUCH! RHEUMATISM! RUB THE PAIN AWAY

Stop drugging! Rub soothing, penetrating St. Jacob's Oil right into your sore, stiff, aching joints and relief comes instantly. St. Jacob's Oil is a harmless rheumatism liniment which never disappoints and cannot burn the skin. Get a 25-cent bottle of St. Jacob's Oil at any drug store, and in a moment you'll be free from pain, soreness and stiffness. In use for 55 years for rheumatism, sprains, neuralgia, lumbago, backache, sprains.—Adv.



## TURN HAIR DARK WITH SAGE TEA

### If Mixed With Sulphur It Darkens So Naturally No- body Can Tell

The old-time mixture of Sage Tea and Sulphur for darkening gray, streaked and faded hair is grandmother's recipe, and folks are again using it to keep their hair a good, even color, which is quite sensible, as we are living in an age when youthful appearance is of the greatest advantage.

Nowadays, though, we don't have the troublesome task of gathering the sage and the mussy mixing at home. All drug stores sell the ready-to-use product improved by the addition of other ingredients, called "Wyneth's Sage and Sulphur compound." It is very popular because nobody can discover it has been applied simply moisten your comb or a brush with it and draw this through your hair, taking one small strand at a time; by morning the gray hair disappears, but what delights the ladies with Wyneth's Sage and Sulphur Compound, it that besides beautifully darkening the hair after a few applications, it also produces that soft lustre and appearance of abundance which is so attractive. Adv.

## Many Have Appendicitis Don't Know It

Much so called stomach trouble is really chronic appendicitis. This can often be relieved by simple glycerine, buckthorn bark, etc., as mixed in Adlerika. Most medicines act only on lower bowel but Adlerika acts on BOTH upper and lower bowel, and removes all gasses and poisons. Brings out matter you never thought was in your system. Excellent for obstinate constipation. Whitman's Drug. Adv.

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Shoe Repairing of All Kinds.  
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### Political Announcements

I hereby announce myself as a  
candidate for County Commissioner  
of Klamath County, subject to  
the decision of the Republican  
voters at the Primaries May 16,  
1924.  
D. ELLIS YOUNG

CLARENCE H. UNDERWOOD  
Announces himself as a candidate  
for nomination to office of County  
Commissioner, subject to  
decision of Republican voters at  
Primary Election May 16, 1924.

A. M. COLLIER, Klamath Falls  
Candidate for Republican nomi-  
nation for Representative, 21st  
district, counties of Klamath,  
Lake, Jefferson, Deschutes and  
Crook; Primaries May 16, 1924

W. A. WEST  
Candidate for District Attorney  
for Klamath county on Republi-  
can ticket.

J. H. COLLMAN  
I hereby announce my candi-  
dacy for Sheriff on the Republi-  
can ticket subject to the wish of  
the voters of Klamath county at  
the Primaries, May 16, 1924.

I hereby announce myself as a  
candidate for County Clerk of  
Klamath county, subject to the  
decision of the Democrat voters  
at the Primary Election, May 16,  
1924.  
GARRETT E. VAN RIPER

I hereby announce myself as  
candidate for the office of County  
Commissioner of Klamath coun-  
ty, subject to the decision of the  
Democratic voters at the Primar-  
ies, May 16, 1924.  
BURRELL SHORT

LLOYD L. LOW, Incumbent  
Announces himself as candi-  
date for the office of Sheriff of  
Klamath county, subject to the  
decision of the Republican voters  
at the Primary Election to be  
held May 16, 1924.

I hereby announce my candi-  
dacy for Sheriff on the Republi-  
can ticket, subject to the wish of  
the voters of Klamath county at  
the Primaries, May 16, 1924.  
HANS NYLANDER

WM. GANONG  
Announces his candidacy for  
District Attorney on the Demo-  
cratic ticket, subject to the wish  
of the voters at the Primary,  
May 16.

J. F. MORLEY  
Announces himself as candi-  
date for Sheriff, subject to the  
Democratic nomination at the  
Primary, May 16, 1924.

C. C. BROWER  
Announces himself as candidate  
for nomination for District At-  
torney for Klamath County on the  
Republican ticket at the primar-  
ies, May 16, 1924. Motto, "The  
Interests of All the People."

R. S. HAMILTON  
Bend, Oregon  
Candidate for Republican nomi-  
nation State Representative 21st  
District.

## Business Directory

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Before 9 O'clock—Your  
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### FARES

Klamath Falls to Portland	\$12.35
Klamath Falls to Albany	\$11.80
Klamath Falls to Corvallis	\$11.55
Klamath Falls to Eugene	\$10.10
Klamath Falls to Roseburg	\$ 8.65
Klamath Falls to Grants Pass	\$ 6.15
Klamath Falls to Medford	\$ 5.00
Klamath Falls to Ashland	\$ 4.75

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Heavy Sheet Iron Work, Tanks, Breechings and Stacks,  
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Corn a la Tuberosé. Beat two eggs slightly, add 1 pint  
scalded milk, 1 teaspoon salt, 1/2 teaspoon pepper, 1 1/2  
tablespoons melted butter. Stir this into a canful of  
TUBEROSE corn; turn into buttered casseroles. Bake in  
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