

SCIENTIST WRITES OF CRATER LAKE MEDFORD VISIT

It will be recalled by Medford people that during the first week of September, 1912, a party of eminent foreign and American botanists visited the Rogue River valley and Crater Lake. The European botanists were Dr. H. Brockmann-Jerosch, Frau Dr. Marie Brockmann-Jerosch, (Zurich, Switzerland), Professor Adolf Engler (Berlin, Germany), Dr. Ove Paulsen, (Copenhagen, Denmark), Dr. Eduard Rubel, Professor C. Schroeter (Zurich, Switzerland), Dr. T. J. Stomps (Amsterdam, Holland), Professor A. G. Tansley, Mrs. Tansley (Cambridge, England), Professor C. von Tubnef, (Munich, Germany). The American botanists were Professor Henry Cowles, (Chicago), Professor F. E. Clements, Mrs. Clements (Minneapolis), Dr. Alfred Dachsowski, Mrs. Dachsowski, (Columbus, Ohio), Professor George D. Fuller (Chicago), and Dr. George E. Nichols (New Haven).

Recently there appeared a very interesting article covering the International Phytogeographic excursion in America written by Professor A. G. Tansley, university lecturer in Botany, Cambridge university, England. This article appeared in The New Phytologist, Vol. XIII, a botanical journal having a wide circulation over the entire botanical world. The part of the article referring to Medford and Crater Lake will be of particular interest to the people of Rogue river valley. It reads as follows:

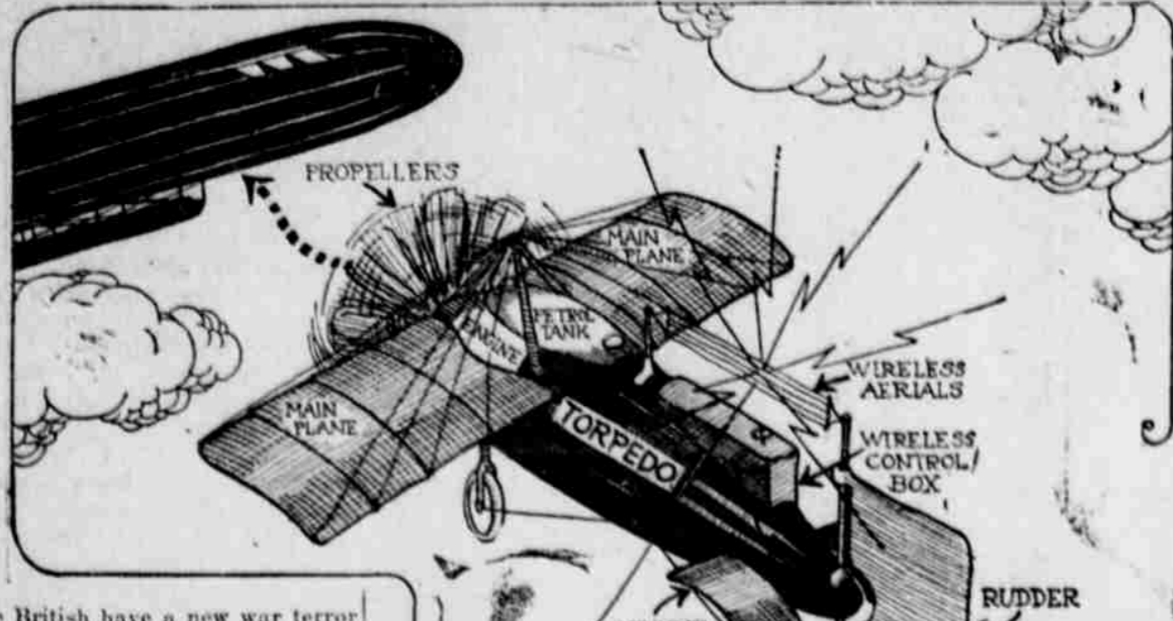
Medford and Crater Lake
 "During the afternoon, evening and night of September 2nd, 1912, we traveled southwards from Tacoma to Medford on the Shasta Limited a fine Southern Pacific, one of the crack trains of this line, the excess fares for which had been paid by our kind hosts of the Commercial club at Medford, Oregon, our next stopping place. Thus the hospitality of our Medford friends began before we ever arrived at their city. It was impressed upon us that during the three days on which we were the guests of the club not a single member of the party was to spend a cent, and indeed it was almost impossible to do so. It is as difficult as it would be invidious to single out the kindness and hospitality shown us at any particular centre for special appreciation, but our treatment at Medford and during the trip to Crater Lake would certainly be hard to forget."

"After a rest and breakfast at the Medford hotel, one of those luxurious and at the same time simple establishments for which the Far West is justly famed, we started in seven automobiles—most generously placed at our disposal and nearly all driven by their owners—on the 85-mile trip to Crater Lake. Medford is situated in the centre of the Rogue river valley, a district which has recently experienced rapid development and astounding prosperity, mainly from its extensive pear orchards."

From Glacial Streams
 "Much of the uncultivated parts of the valley are covered with a very stony soil supporting a growth of grasses such as Hordeum and rietida, and locally known as desert. These stony areas are probably the outwash from old glacial streams. Here and there are isolated trees of Quercus Garryana, a deciduous but rather a leathery leaved oak. Near the beginning of the foothills, an open scrub of 'chaparral' begins, with Ceanothus cordulatus dominant, Arctostaphylos glauca abundant and occasional trees of Quercus Garryana. As the foothills are entered single trees of the yellow pine, Pinus ponderosa, appear among the chaparral, and these increase in number but do not form anything like a closed woodland. The scrub thickens and other shrubs appear, such as the beautiful Arbutus Menziesii and various herbs, such as the aromatic Eremocarpus setigera and species of Salvia. A marked feature of this open woodland is the great development of masses of lichen (Usnea and others) and mosses which appear on the tree trunks and branches. These are doubtless due to the wet and comparatively mild winters of the district, and soon increases in abundance. "At a somewhat higher altitude (about 2500 feet) the Douglas Fir (Pseudotsuga mucronata) appears

Describes Regions Botany
 chaparral at the same time disappearing. The Douglas Fir does not, however, dominate the forests as it does in the Rockies or in the northern Cascades. The forests around Prospect, for instance, half way up from Medford to Crater Lake consists of yellow pine and Douglas mixed with Sugar Pine (P. Lambertiana)—whose enormous cones, often 18

BRITISH BUILDING NEW AIR TERROR



The British have a new war terror—the aerial torpedo.

Winged torpedoes are now being experimented with in England and it is expected that when the summer brings Zeppelin attacks on London the wireless-controlled aeroplanes will be ready to carry their message of death.

The British got their idea from the wireless-controlled torpedo invented by John Hays Hammond, Jr., and being tested by United States army officers.

If the wireless will control a torpedo in its course over the water, it can be made to do the same for an aeroplane, the British engineers believe, and they have set out to prove it.

A small monoplane, the body of which is a torpedo carrying a heavy and easily ignited charge, equipped with a light motor, propeller and rudders, all governed by an apparatus sensitive to wireless waves, is the plan.

After being launched into the air

inches in length, lying on the ground, are a conspicuous feature beneath the trees—Tsuga heterophylla, Libocedrus decurrens, Abies concolor, Taxus brevifolia and the Lodge pole pine (P. Murrayana or contorta), the last forming, higher up towards Crater Lake, pure stands of uniform age, springing up where the original forest has been burned. The undergrowth in the denser portions of the forest is formed of Cornus pubescens, Corylus rostrata, Castanopsis sempervirens, Arctostaphylos spp., Acer circinatum, etc. In the more open forest which has been partially cleared there are often pure stands of Ceanothus velutinus.

Forests of Mountains
 On the higher slopes of the Cascades (5,000-8,000 feet) up to the rim of Crater Lake itself, subalpine forests of Tsuga Pattoniana with Abies nobilis, A. magnifica, Pinus monticola, and P. albicaulis occur. Ainus sinuata, closely allied to the European A. viridis, shows good alternation with Abies on the steep slopes of the crater leading down from the rim to the lake.

Thus there is a fine well marked zonation from the plain of the Rogue river valley up to the tree limit on the Southern Cascades: (1) semi-arid grass land, (2) scrub or chaparral, (3) mixed coniferous forest in which Pinus ponderosa and Pseudotsuga are the leading trees, with Pinus Lambertiana, P. Murrayana, etc., at higher altitudes, (4) subalpine coniferous forest with Tsuga Pattoniana, Abies, etc. This is no



The torpedo-plane is entirely in the hands of an observer located aloft in an ordinary aeroplane. This look-

doubt largely determined by gradual increase of moisture as the mountains are ascended.

Wonderful Scenic Feature
 Crater Lake itself is a wonderful scenic feature. It occupies an immense crater caused by the subsidence of an old volcanic cone estimated to have been 14,000 feet high. The edge of the present rim reaches in places 8100 feet, while the level of the lake below is 6180 feet. The lake itself which has an area of more than 12 square miles, is very deep (2000 feet in places) and its waters are fresh and very clear and blue. The atmospheric effects are wonderfully beautiful. The weather we experienced there was not all that could be desired—a gale of wind was blowing and driving rain and thick mist alternated. But the warmth of our welcome at Crater Lake Lodge was in strong contrast to the inhospitable weather.

Compliments for Medford
 On September 5th the party returned to Medford and were entertained to dinner by the Medford Commercial club and the University club of Medford—the ladies of the party by the Women's University club. On the following morning some of the famous pear orchards, beautifully kept and cultivated, were visited under the guidance of their owners. Mr. P. J. O'Gara, who ably and enthusiastically led the party during their stay, has very largely contributed to the success of the fruit industry by his untiring efforts in counteracting plant disease and climatic

GRANDMOTHER KNEW

There Was Nothing So Good For Congestion and Colds as Mustard

But the old fashioned mustard-plaster burned and blistered while it acted. You can now get the relief and help that mustard plasters give, without the plaster and without the blister.

MUSTEROLE does it. It is a clean white ointment, made with oil of mustard. It is scientifically prepared, so that it works wonders, and yet does not blister the tenderest skin. Just massage MUSTEROLE in with the finger tips gently. See how quickly it brings relief—how speedily the pain disappears.

And there is nothing like MUSTEROLE for Sore Throat, Bronchitis, Tonsillitis, Croup, Stiff Neck, Asthma, Neuralgia, Headache, Congestion, Pleurisy, Rheumatism, Lumbago, Pains and Aches of Back or Joints, Sprains, Sore Muscles, Bruises, Chills, Frosted Feet, Colds of the Chest (it often prevents Pneumonia).

At your druggists, in 25c and 50c jars, and a special large hospital size for \$2.50.

Be sure you get the genuine MUSTEROLE. Refuse imitations—get what you ask for. The Musterole Company, Cleveland, Ohio.



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SEE KLEIN 128 East MAIN Upstairs

With Medford Trade Is Medford Made

Buying Jewelry by Mail

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But there are disadvantages. Uncertainty about what you are getting, tedious waits, inability to examine goods.

And disappointments all around. Buy at home, here where jewelry values are equal to any anywhere.

MARTIN J. REDDY
 THE JEWELER
 212 E. Main St. MEDFORD, ORE.

NO DAMAGE DONE YET BY JACK FROST

Snudging was resorted to in various parts of the valley Wednesday night, solely as a precautionary measure. The lowest temperature reported to the Rogue River Fruit & Produce association was 30 degrees. The danger point was reached at no time, and the damage from the frost nil. The next week is the critical period in the frost season. Just at present the valley needs rain worse than England needs more munitions. The ground is dry. Agitation launched for irrigation last February has to date netted no definite results. The usual April showers that were figured upon to supply moisture, to date have been conspicuous by their absence.

SCREENS
 If you want good window and door screens have us make them.
PACIFIC FURN. & FIX. FACTORY,
 "Home of the Pacific Cedar Chest"
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20,000 miles - valves ground but once
 A man in the lumbering district of Washington writes us: "I have run twenty thousand miles and only had valves ground once, and the engine has run good. Have used Zerolene all the time. It has given the best of satisfaction." Zerolene gives efficient lubrication in all makes and sizes of cars—under all sorts of conditions. Dealers everywhere and at all service stations or agencies of the
Standard Oil Company
 (California)
 Medford

GIRL HIKERS HERE; WILL ENTERTAIN ELKS

The Misses Fay and June Shen of Portland and Miss Kitty Herbert of Saginaw, a trio of girls who are hiking from Portland to the San Francisco fair, arrived in Medford Wednesday afternoon and will walk to Ashland today, where they have a theatrical engagement to fill. The girls left Portland March 8, and expect to arrive in San Francisco some time early in June. They will appear in a theatrical sketch in local moving picture houses for the next week or ten days before continuing their southward walk. The hikers will entertain the Elks lodge with a musical program tonight.

Attention A. F. & A. M.
 Grand Master Bristol wishes to meet all Masons at Ashland, Oregon, Friday evening April 23rd, on his official visit to Southern Oregon.
 Special interurban car leaves Main and Central 7:30 p. m., round trip 50c.

BAD STOMACH TROUBLE

Yields to Delicious Vinol
 Shreveport, La.—"I had a bad stomach trouble for years and became so weak I could hardly walk or do any work. My appetite was poor, my food would not digest, I bloated and was very weak and nervous. I tried many remedies without help. I saw Vinol advertised and tried it, and now my stomach trouble is completely cured and I am well."—E. M. Marshall.
 Vinol is guaranteed to tone up the tired, over taxed and weakened nerves of the stomach and create strength. Medford Pharmacy.—Adv.

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 Experimental Work, Model Making, Die Making, Designing and Mfg. special machinery.
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ARMSTRONG MFG. CO.
 4 Second St. Portland, Ore.

LATH
 Full bred Percheron stallion, formerly owned by Bob Crowder, is now making the season's stand at Vincent's barn. Service \$10 to guarantee foal.
FRANK HANDLEY, Medford

"Nearest to Everything"
HOTEL MANX
 Powell St., at O'Farrell
 San Francisco
 In the heart of the business, shopping and theatre district. Running distilled ice water in every room. Our commodious lobby, fine service, and Homelike restaurant will attract you. European Plan rates \$1.50 up.
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 "Meet Me at The Manx"
 HOTEL MANX
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Double Stamps Friday and Saturday

On All Ready to Wear and Shoe Purchases
 Red Letter Day Wednesday, April 28. 10 S. & H. Stamps Free at Premium Parlor

M. M. DEPARTMENT STORE

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Ladies' Shoes

We wish to call your attention to a special shoe, patent, cloth top, English toe, high heel, short vamp, button, at \$3.00

Ladies' Spring Coats

New shipment of Novelty Coats just received by express. Coats bought to sell at \$10 to \$18, on account of late delivery offer for sale \$7.50 to \$12.50
 Checks, stripes, grays, tan and navy.
 Double S. & H. Stamps Friday and Saturday.

Ladies' Strap Pumps

Extra stylish, extra comfortable pump, 3-button strap, cloth top, patent vamp, high heel, plain toe, specially priced, pair \$3.00

Children's Baby Doll Oxfords

Patent, sizes 5 1/2 to 8 \$1.29
 Patent, sizes 8 1/2 to 11 \$1.50
 Patent, sizes 11 1/2 to 2 \$1.75
 Come also in gum metal, same prices.

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 Double S. & H. Stamps Friday and Saturday.

Only place you can buy Ladies' and Children's Munsing Underwear

Only place where you can buy McCall Patterns.

Spring Wash Goods

Dainty fabrics with small figures, covering all the new weaves, such as lace cloth, organdies, crepes, for spring and summer dresses—prices 10c, 15c, 19c, 25c and 35c
 McCall Patterns.

Children's Dresses made from Devonshire cloth wear best, 35 patterns to select from, yard 20c