

WONDERS OF THE SKIES MARVEL OF HEAVENS

Bright Sun Appears as if Extinguished and the Stars Twinkle in Middy.

SIGHT IS AWE-INSPIRING

Multitudes Gather Along Line of Shadow That Traverses United States and Enjoy Weird Phenomenon.

(Continued from First Page.)

Then a bright film of light appeared on the shadows and the eclipse was passing, bringing with it a sense of relief and feeling of having gazed upon a dream, upon a wonderful yet terrible vision, a danger from which one had miraculously escaped.

Then as the light grew brighter and the sun began to emerge from the shadow, thoughts returned to normal and the experience which comes to but few in a lifetime was a thing of the past.

Observers Go to Hills. While the phenomenon was visible from all parts of the valley, many elected to view it from the foothills east of the city, which offered a better vantage point from which to see the coming of the moon's shadow, which, traveling at a rate of two miles a second over the Blue Mountains, rushed at terrifying speed across the valley.

The weird effect created as the black monsters swept on their fast-darkening daylight was appalling and fearful. Those skeptical of time-honored eclipse features were converted, for night birds came out, stars shone brightly and the natural stygian darkness of the afternoon was experienced with all its attendant thrills and creepy effects.

Coronal Students Rewarded. Those devoting their time to a study of the corona were amply rewarded by the wonderfully colored glow of the inner circle, which was surrounded by colored shafts of light, which offered a spectacle rarely seen by human kind.

Effects on nature and on animal life were also rewarded, for crescent-shaped shadows on the ground were seen and in some cases the clouds were spread, mysterious and unexplained shadow bands were observed, although some failed altogether of results in this particular detail of study.

Scientists Greatly Pleased. The scientists, as they emerged from their buildings and tents after the eclipse were pleased, indeed, as they realized that their weeks of preparation had not been in vain, and that they had not made a long journey and been subjected to an arduous task, they declared.

While the sky was not entirely clear, light haze clouds prevailing are not believed to have seriously hampered observations. "We secured fine results undoubtedly," said J. C. Hammond, head of the Naval Observatory party, "the thin clouds hindering little, if any."

That the photographic and spectroscopic work will produce most successful results was the opinion of Dr. E. A. Mitchell, director of Leander McCormick Observatory, University of Virginia. He has been to many foreign lands for similar observations with those today, said:

"The conditions were better than during the Sumatra eclipse, but not quite so good as in Spain, where an absolutely clear sky prevailed. However, we certainly will get excellent results from our work today and the expedition is a success and very much worth while. We have been amply repaid for the trip."

The first contact reported from the five-inch equatorial by Mr. Hammond and flashed to the Naval Observatory at Washington, was at 46 minutes and 55 seconds past 2 o'clock and five seconds earlier than figured, due to slight error in computation of the moon's position, the slight variance in which would cause first contact to be a little earlier or later than calculated, so the five seconds' variation meant an almost negligible error in computation.

The Naval Observatory work was under the direction of J. C. Hammond, assisted by C. C. Wylie and W. M. Conrad, solar atmospheric composition and extent from sun surface being their objective.

Spectroscopic work was directed by Professor E. A. Mitchell and Professor L. G. Hoxton, of the Naval Observatory, University of Virginia, of which the former is director. Dr. Mary Murray Hopkins and Harriet Bigelow, of Smith College, the only two women astronomers here, assisting.

Visual observation was made by Dr. George H. Peters, of the Naval Observatory, who, while he has traveled all over the world studying eclipses, today for the first time actually witnessed one, on previous occasions having operated instruments in dark rooms. The event was fully up to advance notices, according to the doctor.

Special study of coronal lights was made by Edward D. Adams and Leander McCormick, of New York, and Howard Russell Sutter, an oil painter of Reno, who came from Princeton, N. J., made a study of the coronal light, made a listing several hundred varying shades by a shorthand system of numbering.

Dr. F. W. Merrill, of the Bureau of Standards, also conducted his work to study of the coronal light effect.

No Motion Pictures Taken. Professor Sydney D. Townley, of Leland Stanford University, who located his telescope on the hills east of the city, assisted by Mrs. Townley, directed his efforts largely to observation of the moon's shadow and the shadow bands. A party of motion picture operators expected here failed to arrive, and astronomers were somewhat disappointed as it was believed motion



MEMBERS OF ECLIPSE PARTY WHICH GATHERED AT BAKER, OR., FOR GREAT EVENT.

Back Row, Left to Right—Dr. L. G. Hoxton, University of Virginia; Edward D. Adams, New York; C. G. Wylie, U. S. Naval Observatory; J. C. Hammond, U. S. Naval Observatory, in charge of work; Dr. E. A. Mitchell, Director of Leander McCormick Observatory, University of Virginia; W. M. Conrad, Naval Observatory; Front Row—Howard Russell Sutter, Princeton, N. J.; Dr. Harriet Bigelow, Smith College, Northampton, Mass.; Dr. Mary Murray Hopkins, Smith College, and Dr. F. W. Merrill, Bureau of Standards, Washington, D. C. Dr. George H. Peters, of the Naval Observatory, and Kempton Adams, of New York, do not appear in the picture.

photography might reveal some new solar phenomena. The schedule practiced 10 days in advance was carried out by astronomers at the Government station without serious hitch, each member of the party at his particular instrument acting promptly and doing the expected of him as the seconds of totality were loudly called by P. Welch, in charge of the Naval Station party from Bretonton.

However, the professionals were not altogether immune from sensations expected by lay observers, and as time for the eclipse drew near there was subdued excitement at the station, which is always manifested on such occasions, affecting seasoned astronomers about the same as anyone else, they declare.

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JUVENILES DO WELL

Children's Industrial Clubs Are Proving Worth.

GARDEN WORK IS PUSHED

Many Youngsters Also Are Raising Poultry and Rabbits and Learning That Thoroughness and Care Always Pay.

Under direction of the extension service of the Oregon Agricultural College, Portland school children who have formed industrial clubs are doing excellent work cultivating gardens and raising poultry and rabbits.

Now that the school term is drawing to a close the work of these clubs is not going to cease, but the children are planning to spend their time well caring for their gardens, poultry and rabbits.

Every member of an industrial club is taught that the best way to learn to do something worth while is to do it. While school was in session the pupils sold thrift stamps, saved their money which might have been spent for candy, assisted in the Belgian and Armenian relief fund drives and have done splendid work in the Junior Red Cross Society.

The officers of each club have assumed responsibility for securing successful results from the club members and they are enthusiastic in their efforts to have every member a "true club member," one who completes the work originally planned.

It has been planned to have the gardens well cultivated so that the moisture may be conserved and the plants kept in vigorous condition. The owner of a garden full of weeds will be declared unpatriotic and a shirker. The plant food in the soil must be saved as well as the moisture, being too valuable to permit weeds to absorb it and at the same time crowd the vegetables and shade them from the sun.

The manual training departments of the various schools have given valuable assistance to the clubs through the regular class work and as club leaders. The boys have made model chicken houses, rabbit hatches, garden cultivators, chicken-feed hoppers and vegetable-drying equipment. The club members expect to spend part of the vacation providing better housing conditions for their poultry and rabbits. Everyone has been urged to protect the chickens and rabbits from the hot sun by providing shade for them.

The president of each club is urged to consider a message from Dr. P. P. Claxton, commissioner of education, in which he asks that on Flag day, June 14, the children get together for a little ceremony of flag raising, with a simple programme, so that they may have a better understanding of the war and the Nation's unity behind the war.

DRAFT INELIGIBLES BAND

Cottage Grove Forms Unique Company for Any War Service.

COTTAGE GROVE, Or., June 8.—(Special)—Cottage Grove probably is the first city in the state where those above and below draft ages, or discharged from the service for physical disability have volunteered for any service which the Government may ask.

The organization of the company is the suggestion of Major H. K. Metcalf, discharged from the Coast Artillery because of physical disability. Others with military training who have signed for the volunteer company are Lee Roy Woods, A. A. Richmond, William H. Ostrander, Boone Shortridge, and O. H. Willard, veteran of the Civil War. Others who have signed are J. F. Godard, C. H. Corson, Dale Wyatt, C. E. Humphrey, Bake Stewart, Anchor Alsted, and Elbert Bede. All are members of the home guard company.

ALLEGED DESERTER JAILED

Young-Man Found Working in Uniform in Lincoln County.

TOLEDO, Or., June 8.—(Special)—Upon instructions from the Federal authorities, Sheriff Gees arrested a youth by the name of Lowell last Friday on the farm of Frank Hall, near Osa, this county. Lowell is charged with desertion from the Army Camp Lewis. When apprehended he was working in his uniform, apparently making no effort to conceal his identity.

It is said that the youth is under 18 years of age and that his mother had previously tried to get him out of the hands of Sheriff Gees, but for Vancouver, Wash., this morning with the prisoner.

ROAD PLANS ARE HELD UP

Highway Commission Awaits Action of Washington Committee.

SALEM, Or., June 8.—(Special)—No official notice having yet been received as to the action of the capital issues committee relative to the sale of State bonds, road building is being held up so far prepared no statement as to its road programme for this year.

WIFE WANTS HUBBY HOME

Cheshire Woman, Who Fires Warehouse, Found Same by Court.

EUGENE, Or., June 8.—(Special)—Mrs. Jacob Reap, of Cheshire, is determined to keep her husband at home. She decided the other day that he was a neighbor too much for her and that she would bring him home to her house in the village and to put an end to his conduct she set the place on fire.

COMMENCEMENT DAY SET

Mt. Angel College to End School Year Tuesday.

MOUNT ANGEL COLLEGE, St. Benedict, Or., June 8.—(Special)—Mount Angel College will close a most successful and busy year Tuesday. The success of the year has been due largely to the leadership of Rev. Father Thomas O. S. B. president, and Rev. Father Victor S. B. director.

Ex-Sheriff Heads Committee.

ALBANY, Or., June 8.—(Special)—D. E. Smith, of Albany ex-Sheriff of Linn County, was elected chairman of

ALBANY OSTEOPATH HEADS STATE ASSOCIATION.

ALBANY, Or., June 8.—(Special)—Dr. A. P. Howells, who was chosen president of the Oregon Osteopathic Association in the recent state convention at La Grande is an osteopathic physician of the city. Besides being prominent in his professional work here, he is active in some of the fraternal and local civic organizations.

193 MEN ARE CALLED OUT

Linn County Still Has 144 Available Class One Registrants.

ALBANY, Or., June 8.—(Special)—One hundred and ninety-three Linn County men in Class I, under the selective draft, have been inducted and called to service this far. This total includes the number summoned on the call of June 15 and June 24.

135 Eighth Grade Pupils Pass.

SALEM, Or., June 8.—(Special)—Out of 450 pupils taking the eighth grade examinations in Marion County outside of Salem 135 passed, according to an announcement by Superintendent Smith. Of the number failing the greater share of the failures were in arithmetic and grammar and examinations will be held for these pupils again in a week or two. All told, about 1500 applicants took sixth, seventh and eighth grade examinations.

MARCOLA PLANT BURNS

FISCHER LUMBER COMPANY'S MILL DESTROYED BY FIRE.

EUGENE, Or., June 8.—(Special)—Loss of the lumber mill at Marcola, three miles above Marcola, at about two o'clock this morning by a fire which appeared to have been of incendiary origin. The loss is estimated at \$40,000 and \$40,000 and between 90 and 100 men will be thrown out of employment.

HOPE FOR CITY IS SEEN

SEATTLE JUDGE UPHOLDS LEGALITY OF FISH MARKET.

SEATTLE, Wash., June 8.—(Special)—The ultimate victory for the city in its fight against an injunction suit brought to restrain the city from operating the municipal fish market is seen by Portland officials in the copy of a decision of Judge Everett Smith, of the Superior Court of King County, Washington, wherein the right of the city of Seattle to conduct a municipal fish market was sustained.

DECISION WHICH PERMITS PUGET SOUND CITY TO CONDUCT MARKET IS REGARDED AS AID IN LOCAL CASE.

Copy of the decision was received yesterday by Deputy City Attorney Tomlinson, who is handling the city's

STANFORD EXPERT NOT DISAPPOINTED

Wonderful Array of Red Prominences on Sun Seen Without Aid of Telescope.

PROFESSOR IS ENTRANCED

"Most Wonderful Sight It Has Ever Been My Good Fortune to See," Telegraphs Professor S. B. Townley After Eclipse.

BY S. D. TOWNLEY, Professor of Astronomy, at Stanford University.

BAKER, Or., June 8.—(Special)—The event for which astronomers have been waiting for many weeks has now passed. At Baker the sky was partially covered with clouds all day. Half an hour before totality the clouds were quite thick and it looked as if very little would be seen. Just before totality, however, the clouds dispersed perceptibly, and the many people who gathered on the hills to the east of Baker, where the telescope of Stanford University was located, were not disappointed.

The sight was wonderful. As totality approached, the Elk Horn range of snow-capped mountains were enveloped in darkness, the clouds along the northwestern horizon stood out in a beautiful sunset glow, the corona became visible and the wonderful array of red prominences could be seen even without the aid of the telescope.

In my six-inch reflector the prominences which I have seen in good fortune to see. I became so entranced in watching the prominences that there was very little time left for studying the corona, the structure of which was somewhat obstructed by clouds.

As totality approached I watched for the shadow bands, but none were seen probably on account of the obscuring clouds. During totality, however, the clouds over the sun perceptibly decreased and the shadow bands were seen at the end of totality, although not very distinctly.

The duration of totality was tantalizingly short, but the view of the wonderful prominences was sufficient to repay us for everything. I shall never forget the experience as something to be remembered for a lifetime.

FIVE SHOTS EXCHANGED

LENTS COUPLE QUARREL AND ARE TAKEN BY POLICE.

Woman, Married Four Times, Threatens to Have Her Divorced Spouse Thresh Present Husband.

The neighborhood at the extreme end of the Lents district was aroused at 1 o'clock yesterday morning when seven revolver shots were fired in the home of Benjamin Oberdorf, 1027 1/2 Fifty-third avenue, Southeast. Patrolman Chase heard the shots and upon investigation found that Oberdorf and his wife had done the shooting, the danger of which was the result of a quarrel between the couple.

Inspectors Golts and Howell, who made an investigation, reported that Oberdorf fired two shots at his wife, one grazing her forehead. He told the officers that he wrenched the revolver from his wife and then fired three shots at her, one hitting her arm. Both were brought to the police station and later turned over to Sheriff Hurlbert. A charge of violating the prohibition law has been placed against them.

According to the inspectors Mrs. Oberdorf has been married four times. It is said that she threatened to bring her last divorced husband to the house and have him give her present husband a beating. She said she would give her husband a beating if he did not give her each about \$500 a week. She gave his occupation as a billposter.

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A watchman discovered the fire burning near the center of the mill, a point far from the boilers. Other mills in the county burned during the last year have been destroyed by fires which originated under similar circumstances.

The Marcola mill has been in continuous operation for years. It worked steadily when many of the other mills of the county suspended during the dull period for the lumber trade, just preceding the war. Much of its product has been used for government purposes.

It is announced that plans to rebuild the mill will be made at once. The loss was partially covered by insurance.

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case. The Seattle case is similar in many respects to the Portland case. A private individual brought suit, alleging that Seattle under its charter had no right to engage in the retail fish business and that the municipal fish market was injuring his private fish business.

Judge Smith ruled that the city was within its right, that war emergency made the market a necessity, that the Federal ruling for meatless days made a greater demand for fish and that the city's market was responsible for material reduction in the retail cost of fish.

CRANBERRY PRICES HIGH

First Year of Pacific Coast Association Pleases Members.

ASTORIA, Or., June 8.—(Special)—A meeting of the various cranberry associations composing the Pacific Coast Cranberry Exchange was held at Ilwaco, Wash., yesterday.

Members were well pleased, prices which a year or two ago were unheard of and unthought of, being obtained. The war is the first year in which the berries were marketed through an exchange. Plans were made for a continuation of the exchange for next season.

WAR HORRORS ARE RETOLD

Dr. M. G. Papazian Talks Before Crowds at Klamath Falls.

KLAMATH FALLS, June 8.—(Special)—Dr. M. G. Papazian, sent out from New York in the interest of the Armenian relief fund, commenced a speaking tour of Oregon, with his appearance last night at Klamath Falls. Dr. Papazian, who witnessed the Armenian massacre in 1915, when all of his church members were wiped out in the unspeakable slaughter planned in Berlin, held his audience and grieved the warmest sympathy for the cause he represents.

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Kelso Boy Aboard Lincoln.

KELSO, Wash., June 8.—(Special)—Mrs. D. W. Hill is in receipt of a telegram from Washington, D. C., notifying her that her son, John Fredin, was rescued from the transport President Lincoln, torpedoed by a German submarine a few days ago.

RELINANCE MTHOOD AUTO STAGES

8 A. M. (Saturday) 7 A. M. and 2:30 P. M. from Portland to Astoria and Floral Co., 145 2d St., phone Main 175. A. H. Welch, of Welch's, Rhododendron Auto Stages, Inc., Rhododendron Camp. Owned and operated by IRVINGTON GARAGE & AUTO CO., 130 1/2 E. 4th, Astoria.

Rhododendron Inn

Beautiful mountain resort, between Hunchback and Zigzag Mountains on Zigzag River and Still Creek. Large cemented swimming pool, modern dance hall, saddle horses, tennis and croquet grounds. Headquarters for fishing. For auto stages, call East 125.

Tawney's Mountain Home

On the Salmon River, near Mount Hood. Home cooking, pleasant surroundings. Fried chicken on Sundays. An ideal place for your vacation. Large individual burglarproof rooms for those who prefer them. Daily auto stage, East 135. F. H. Tawney, Prop., Welches, Oregon.

HOTEL GULER

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Ho! for Cascadia

Best mountain resort on Coast; best medicinal water, scenery, lake, fishing; nature's own conservatory of health. Auto or stage from Lebanon or Bretonton.

TO RESIST THE ATTACK

If the germs of many diseases such as Grip, Malaria, means for all of us. These germs are everywhere in the air we breathe. The odds are in our favor if we resist the attack.

What is needed most is an increase in the germ-fighting strength. To do this successfully you need to put on healthy flesh, rouse the liver to vigorous action, and steadily throw off these germs, and purify the blood so that there will be no 'weak spots,' or soil for germ-growth.

We claim for Dr. Pierce's Golden Medical Discovery that it does all this in a way peculiar to itself. It cures troubles caused by torpid liver or impure blood. All druggists.