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MEDFORD MAIL TRIBUNE

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With Medford Stop-Over

Full Leased Wire Associated Press

PHOENIX PARAGRAPHS

Mrs. F. Broomfield of Medford was a caller in town Saturday. Mrs. W. R. Coleman of Medford visited friends in town Saturday and attended the school fair. Mrs. Crane of Oakland, California is visiting her sister, Mrs. Ames Thresher. Dr. J. B. Webster is spending a few weeks in San Francisco, being called there a short time ago on business. Mr. Morse of Oakland, California, is visiting his children, Mrs. Taylor and G. A. Morse. W. V. Barnum and family made a trip to Prospect last Sunday. The North Phoenix school has been painted on the outside and many improvements made on the interior during vacation.

Miss Franklin, who has been spending the summer with the Misses Daily of West Phoenix left for Reno, Nevada, this week. E. White of Medford was in town Tuesday.

J. Hockensmith of Medford spent the first of the week in town. F. E. and A. S. Furry were in Ashland Monday on business. There will be a lecture given Thursday evening in the W. O. W. Hall on "Portland After Dark" by a prominent journalist and lecturer. No admission. Everyone welcome. Clyde Barnum left a short time ago for Berkeley where he entered the Berkeley college and will take special courses in entomology, chemistry and pathology.

The W. C. T. U. will hold a special meeting at the home of Mrs. E. P. Cope Thursday afternoon to make arrangements for the county convention to be held at Eagle Point Wednesday of next week. School opened Monday. The enrollment is not yet completed but a marked increase is already noted in the high school. The staff this year will contain eight teachers. Professor Scooby will have charge of the manual training and Miss Stella Denser the domestic art and science. The new building will soon be ready and teachers and district are looking forward to a successful school year.

The Y. P. C. E. held a delightful social Friday evening in the Eagle building and elected the following officers for the coming six months: President, Elden Corthel. Vice president, Miss Irene Denser. Secretary, Ray Wright. Treasurer, W. Rath. Recording secretary, J. K. Ballie. Organist, Miss Lucy Carl.

The Presbyterian Ladies' Aid will meet with Mrs. C. C. Scott Wednesday afternoon.

FEED ENGLISH JEALOUSY BY NAVAL PLEA TO CANADA LONDON, Sept. 9, 1:10 a. m.—The Daily Telegraph today urges on Canada immediately the appropriation of \$25,000,000 for the navy.

"It is melancholy reflection," says the Daily Telegraph, "that but for the unfortunate course of party politics three more dreadnaught would now be nearing completion. The opportunity passed may never recur. It is too late to start building ships for use in the present war, but the fleet needs cruisers, destroyers and other vessels which can be built with greater rapidity.

"If Canada immediately places 7,000,000 pounds (\$25,000,000) at its disposal the admiralty could quickly prepare plans which would completely neutralize the reichstag's action in giving the admiralty a blank check for the purpose of pushing naval construction to the utmost."

WILLOVER APPOINTED WESTERN UNION MANAGER NEW YORK, Sept. 9.—The Western Union company announces the appointment of John C. Willover as commercial general manager of the company, with headquarters at New York. Mr. Willover has been actively connected with the management of the company since 1908.

Wolfram and Its Uses

Wolfram is really the most commonly known of the various tungsten ores, and is the tungstate of iron and manganese. It is dark brown—almost black—in color, is very dense and heavy, being frequently mistaken for iron ore, and is heavier than metallic iron itself. It is said to have been first discovered by a Swedish sailing master in 1781, hence its name tung, meaning heavy, and sten, stone—heavy stone. Various tungsten ores are mined and exported by several countries, the chief supply coming from Queensland, Portugal, Argentina, Bolivia, and the United States, some of the most prolific deposits being found in California.

What's it good for? To make the filaments in our incandescent electric lights for one thing, thereby saving to the consumers a total of something over \$240,000,000 a year. That of itself is enough to establish its importance. By a method discovered by one of the large electric companies of the United States it is now possible to draw tungsten metal into a wire as fine as one-thousandth of an inch in diameter so that the wire is pliable and can be wound upon spools like sewing thread. It is used in one piece in the lamps and is said not to be so fragile as that produced by certain methods used in the German product. The tungsten wire, as drawn out for this purpose, is very strong, it being claimed that it has more strength than any steel piano wire that was ever made. The specific gravity of tungsten metal is given as 19.32, almost as much as that of gold, which is 19.3.

The discovery of this metal for making filaments has caused an enormous saving to the consumers of electric light the world over. It enables

the consumer to obtain two or three times the quantity of light at about one-half the consumption of electricity formerly used by the old carbon lamp.

The principal use of tungsten, however, is to harden steel, especially the steel of which tools are made. The tool steel of the present day is said to be nearly all tungsten steel, having from 5 to 20 per cent metallic tungsten mixed with the steel in its manufacture. It is sometimes called "self-hardening steel" because it does not have to be tempered, for with the addition of the metallic tungsten it tempers itself. When heated to a cherry red and allowed to cool, the steel attains its maximum hardness and can be used by machinists for lathe cutting tools and for drills. Machinists tools can be run at much greater speed and it has been estimated that at least four times as much work can be done with the tungsten steel as with the ordinary kind, because the machines can be run four times as fast and that without taking the temper out of the tool when it gets very hot, as is the case of one of the large automobile manufacturing companies is said to have stated that if there were no such thing as tungsten steel the cost of each automobile would be \$200 more than it is now.

Tungsten and its salts are used for making silk and cotton fabrics fire-proof; for winding electric furnaces, and for use in the apparatus employed for the utilization of Roentgen rays. Also occasionally in the manufacture of silk in order to add weight and to give it the desired stiff effect. It will thus be seen that from the standpoint of practical utility tungsten is of more benefit to humanity than gold.

Size of the Army Unit in Europe

The following is the size of the various army units in European nations:

The German Army—Infantry. Company—250 men. Battalion—Four companies, 1000 men. Regiment—Three battalions, 3000 men. Brigade—Two regiments, 6000 men. Division—Two brigades, 12,000 men.

An army corps comprises two infantry divisions, two regiments of field artillery (18 batteries of field guns and six batteries of field howitzers, a total of 72 pieces), two squadrons of cavalry, one or two batteries of heavy field artillery, a machine gun group, with the various companies of pioneers and field hospital corps making a total of 40,000 men.

The French Army—Infantry. Company—250 men. Battalion—Four companies, 1000 men.

Regiment—Three battalions, 3000 men. Brigade—Two regiments, 6000 men. Division—Two brigades, one squadron of cavalry and 12 batteries, 12,000 men.

Army corps—Two infantry divisions, one brigade of cavalry, one brigade of horse and foot artillery, one engineers' battalion and train, making a total of 40,000 men.

The British Army. Battalion—1000 men. Brigade of infantry—Four battalions, 4000 men.

The Russian Army. Infantry battalion—1000 men. Cavalry squadron—125 men. Infantry division—Sixteen battalions of infantry, one squadron of cavalry, six or eight batteries of artillery, 18,200 men.

Army corps—Two divisions of infantry, two divisions (each of 24 squadrons, with batteries, 4000 men) of cavalry and sappers, 40,000 men.

Geography of the War

(National Geographic Society Bulletin.)

Bromberg—A city in northeastern Germany, in the province of Posen, seven miles west of the Vistula river and the west Prussian boundary. It is located on the Bromberg canal, which connects the Brabe and the Netze rivers and thus establishes communication between the Vistula, the Oder and the Elbe. The population of Bromberg is about 60,000. Its industries are principally iron works, machine shops, paper factories and flour mills.

Bromberg holds an important strategic position, being one of the defenses along the Vistula river from the frontier town of Thorn to the gulf of Danzig. It was Polish prior to 1227, when it was taken by the Germans. It was retaken by the Poles in 1243, and during the centuries that followed it suffered so much from war and pestilence that in 1772, when the Germans again took possession of it, its population had fallen to less than 600 inhabitants. Later it was transferred to the duchy of Warsaw, where it remained until occupied by the Russians in 1813. Two years later it was restored to Prussia.

Oder River—One of the most important rivers of Germany, rising in

Austria-Hungary and flowing north-west through Breslau, Frankfurt and Stettin to the Baltic sea. At its nearest point, it is 35 miles from the heart of Berlin, to the northeast. About 480 miles of its length are navigable for barges. The Oder is heavily fortified in its northern reaches and is regarded as the point of final stand of the German army in case of an attack upon Berlin from the east.

Posen—Capital of the province of Posen, Prussia, situated in a wide and sandy plain at the confluence of the Cybina and the Warthe rivers, 150 miles east of Berlin and 35 miles from the Russian Poland frontier. The city lies at the center of a network of railroads connecting it with Berlin, Breslau, Thorn, Kreuzburg and Schneidemuhl. Its population in the sixteenth century reached 80,000, but sank to 12,000 in the eighteenth century. Today, it has approximately 150,000 inhabitants. The inner line of fortifications was removed in 1902 and the city has been completely modernized. Posen is the headquarters of the fifth army corps and, in times of peace, has a garrison of 6000 men. The manufacturing of machinery, spirits, furniture, sugar and beer are its principal industries.

PHOENIX VOLUNTEERS IMPROVE SCHOOL

The people of North Phoenix have a very active Community club, which takes the place of a Parent-Teachers' association, and of which Mrs. M. F. Sheets is president. Just before the opening of school a meeting was held at the schoolhouse and while the men worked with hammer, saw and wood block, the ladies prepared a good, old-fashioned farm spread. The result is a great improvement in the exterior and interior appearance of the schoolhouse and shows the great interest in good schools in district No. 24. The school has again secured the services of Miss Agnes Salter, a former successful teacher of the district.

ABERDEEN, Scotland, via London, Sept. 9, 1:15 p. m.—Prince Albert, second son of King George, has been operated on for appendicitis. His condition is reported satisfactory.

BATTLE GROUND HISTORIC FIELD OF ATTILLA'S DEFEAT

LONDON, Sept. 9, 10:00 a. m.—If inspiration means to the French soldier what it did in the time of the first Napoleon, the situation today on the allies' center, on the historic field of Chalons, should offer compensation for a disheartening month of rear-guard actions.

At any rate, the allies, now superior or at least equal in numbers to the Germans, evidently have begun the offensive. At least 3,000,000 men are engaged on both sides, and as the center of the allies lies on the plains of Chalons, true to many prophecies, another Armageddon may take place where Attila, surnamed the "Scourge of God," was defeated by the allied Visigoths and Romans in the bloodiest battle in the world's history. On these plains, centuries later, Napoleon conducted the most brilliant defensive campaign of his career. The French soldiers will not be allowed to forget also that on this field a French army fought a victorious action after its commander had surrendered his sword. Logically a great and decisive battle ought to be under way from Paris to Verdun, but the veil of secrecy and the meagerness of the official communications preclude positive predictions regarding the nature of the engagement proceeding in the western war theater.

News from Austria indicates that the dual monarchy is in grave danger of internal troubles, while her military situation is daily becoming worse.

ENGLISH SUFFRAGETTES ARE KEEN FOR WAR

LONDON, Eng., Sept. 9.—Miss Christabel Pankhurst, the militant suffragette, who recently was one of the most severe critics of English law and tradition, made a dramatic appearance before a great audience last night in support of the government.

"The defeat of our country and the victory of Germany," she declared, "would be a calamity from the women's point of view."

Scores of fashionably dressed women, recently freed from jail under the government's amnesty measure, cheered their leader and waved the flags of the allies.

Miss Pankhurst said that the English women were ready to fight in the line, if needed or were willing to attend to the economic prosperity of the country if they could better serve that way.

"I agree with the prime minister thoroughly at this time, and I hope he will never disagree again with me," Miss Pankhurst said. The remark provoked prolonged laughter, and applause.

Miss Pankhurst commended the men who have volunteered in the ranks, and their officers, and pledged them the undivided support of the militant women. She assured her hearers that only a geographical accident prevented England standing today just where Belgium stands.

"The future of democratic government is at stake," she said. "Our country is in danger and all sections must be united that we may be strong as we never were strong before."

All suffrage organizations are now engaged in recruiting and war relief work.

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preliminary successes, is about to invade Herzegovina from the south. However, Austria's biggest opponent, Russia, is determined quickly to subdue her so that she can pay more attention to her attack on Germany which is awaiting the complete break up of the Austrian army. The Germans have been busy in Belgium again. They have taken possession of Ghent without a fight and in the north they are trying to drive back into Antwerp the whole Belgian army, the sorties of which have been annoying if not threatening.



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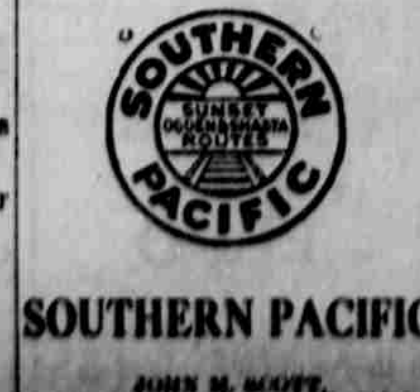
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