

NEW MIRROPHONIC SOUND INSTALLED CRATERIAN TODAY

Theatre Closed for Important Improvement—Operation Is Described

With the installation of the new Western Electric "Mirrophonic" sound system in the Craterian Theatre—which is closed today while the new unit is being installed—patrons of Southern Oregon's ace movie house will have the benefit of a reproduction system that is admittedly the closest thing to perfection that America's engineers have yet invented.

Reproduction of sound from the sound track of a motion picture film to the various voices, musical notes, sounds, etc., that are heard from the screen is an interesting process. It might be mentioned here that the old disc, or Vitaphone type of recording and reproduction is a thing of the past. The Vitaphone type depended on records, very much like the records used on the phonograph. The catch in this method was the synchronization of the reproduced sound with the picture. Unless everything went just right, the sound was thrown out of synchronization, which often led to some highly comical results. Nowadays, the sound is attached to the film and the only way it can be thrown out of synchronization is to have it done when the sound track and motion picture film are put together. Once they are together, the film may be cut and spliced together and the correct amount of sound is eliminated to keep everything in synchronization.

Undoubtedly the most important thing about the new "Mirrophonic" system is the entire elimination of "dead spots" and possibility of sound distortion such as was sometimes noticed in the old unit.

The new system is a rather complicated affair.

In the projection room, or booth, there will be a new power unit, a dual amplifier system of 30 watt output, new sound heads with voltage amplifier coupled to each sound head. The flywheels of the sound heads are oil-damped—that is, they run through a special oil that can stand temperature as low as 40 degrees below or as high as 120 degrees Fahrenheit. Also in the booth is the dividing network which divides the high and low frequencies; and the monitor horn and amplifier which is separate from the regular amplification unit through which the sound is passed to the auditorium. This horn in the booth is to help the projectionist keep the sound at the correct volume for proper enjoyment of the picture.

Leaving the booth the sound is then carried backstage to the new diphonic horn system, which includes the high-frequency cellular type horn composed of fifteen cells, and two 18-inch 35-watt low frequency speakers mounted on a low frequency baffle 11 feet high, 15 feet long and three feet thick. The sound transmitted from the booth to the horns is controlled by the network in the booth splitting the high and low frequencies and sending them to the proper speakers.

Herman Bergren, the sound engineer in charge of the Craterian Theatre installation, explains the transmission of sound from film to auditorium by the rather simplified manner which is much more understandable to the layman than the use of high sounding technical terms.

The sound track on the film goes through the sound head mounted on the projection machine. This sound track is hit by the light from an exciter lamp focussed through a combination of lenses. The variations of light are then picked up by a photo-electric cell which, in turn, causes a change of voltage in the photo-electric cell which corresponds to the vibrations in voice or music as recorded on the film. The sound is then amplified through the voltage amplifier and fed into the power amplifier. From the power amplifier it then is sent to the

dividing network, which sends the low frequency notes and sounds to the low frequency speakers, and the high frequency speakers. Through the speakers then comes the sound that is heard in the theatre.

The cellular type horn with its many high and low frequency cells is the secret of the perfection of the new sound system. With the new system, every seat, every corner, every nook and cranny of the theatre will be covered with the same clarity of sound, the same volume and the same intelligibility. The sound will cover the theatre like a vast blanket, leaving no bare spots.

Although it does not have a direct bearing on the sound in one sense of the word, nonetheless allowing the sound to pass through it to the audience, the motion picture screen has a great deal to do with the proper enjoyment of a picture. Along with the installation of the new sound system, the Craterian Theatre is also installing a new Gardner Gold-Fibre seamless screen, known throughout the industry as the best obtainable. It is interesting to note that the Gardner factory has only two of these screens left and when these are sold it will be impossible to obtain more. It seems the present war has something to do with lack of proper material for this special type of screen.

"Caught in the Draft," the new Bob Hope comedy hit, will be the opening picture with the new "Mirrophonic" sound system, starting a three-day run tomorrow.

FARM BUYING AID OFFERED BY FSA

Farm tenants, farm laborers and sharecroppers who wish to be considered for loans to purchase family-type farms under provisions of the department of agriculture's tenant purchase plan, should file applications now with the Farm Security Administration, announces Eugene Hampton, county FSA supervisor, 211 Fluhrer building, Medford.

Under the tenant purchase plan seven farmers are purchasing farms in Jackson county. Two or more additional loans will be made during the 1941-42 fiscal year. Applications are being taken now to give all eligible farm families in the county an opportunity to have their qualifications reviewed and allow sufficient time to select farms and set up farm plans for the next crop year.

Only bona fide farm families with sufficient experience to qualify them for successful farm ownership are eligible. Applications and full details of the program may be secured at the county supervisor's office.

MEDFORD BOY IN ARMY GETS SPECIAL TRAINING

McChord Field, Wash., July 16 (Sp.)—In keeping with the policy of the U. S. army of giving all possible training to army personnel, Pvt. Francis A. Marshall, a member of Company "M," 30th Quartermaster Regiment, stationed here, recently began a course in basic auto mechanics at Clover Park high school near Lake Center, Wash. Pvt. Marshall enlisted in the army at Medford, Oregon, on April 8, 1941. He is the son of Mr. and Mrs. Robert E. L. Marshall of Medford.

KNUTZEN HOME BURNS ON CRATER HIGHWAY

Reese Creek, July 16.—(Sp.)—Fire of unknown origin completely destroyed the home of Mr. and Mrs. Knutzen, at the intersection of the Butte Falls and Crater Lake highways Tuesday morning.

A shower of household furnishings and clothing will be given in the near future. The family has the sympathy of all the community.

INDUSTRY SURVEY TO INCLUDE LOOK AT STATE'S TAXES

Oregon's Industrial Development Commission Outlines Extensive Program

Salem, July 16.—(P)—Oregon's industrial development commission, authorized by the 1941 legislature to find a way to obtain new industries, outlined for itself today a program including consideration of the state's entire taxation and industrial set-up.

The commission's committee on industries will recommend a rounded program to "bring about maximum industrial and commercial growth," determine what laws have an adverse effect on industries, study industrial inducements offered by other states, and determine which of Oregon's resources are most likely of exploitation.

Three Tax Studies. The commission's committee on taxation will be split into three sub-committees. One will study assessment laws with a view toward making them uniform and equitable, while another will study the general tax structures of Oregon and other states as well as whether the property tax acts adversely on home and business ownership.

The third sub-committee will study means of bringing about more efficiency and economy in government.

The program was prepared by David Eccles, state budget director and chairman of the commission. The commission held its second meeting here today.

Secretary of State Earl Snell's proposal to reduce the price of annual automobile license plates from \$5 to \$2 was referred to the commission's committee on taxation for study.

Eccles asked the commission to study problems in towns and cities in which defense industries are located. In such towns, he said, the sewer, school and water systems are inadequate when the populations are increased by defense industries.

Tax Limit Handicap. Such towns, he added, can't expand their facilities because of the constitutional limitation which prevents them from increasing their budgets by more than six per cent in any one year.

Eccles said that such defense towns will get considerable help from the government, but that the six per cent limitation might even prevent the towns from putting up their share of the money.

357 PLANES USE AIRPORT IN JUNE

Medford municipal airport was used in June by 357 planes, an average of almost 12 planes a day, it was shown in a report submitted to the city council last night by Thomas A. Culbertson, Jr., and read by James C. Collins, airport committee chairman.

The planes were classified as follows: 203 United Air Lines, 89 U. S. army, 63 private and 2 U. S. navy. Receipts for June were \$726.22, the report stated.

ORCHARDS RECEIVING HEAVIEST IRRIGATION

Heaviest irrigating of the season is now underway in the

orchards, to prepare the ground before picking starts, according to Ed N. Judd, general manager of the Medford Irrigation district. He said the ditches were all running full. Picking is expected to start in some of the earlier orchards around July 23, and be in full swing by Aug. 1.

RECREATION ROOM FOR SOLDIER BOYS NOW OPEN FOR USE

Medford's first temporary recreation center for enlisted men opened this morning in the court house auditorium. The center offers reading, writing and other recreational facilities through the cooperation of Medford residents and merchants, between the hours of 11 a. m. and 12 p. m. daily.

The auditorium has been equipped with numerous couches, chairs, writing tables, a radio, pillows, a bookshelf and books, magazines and ping pong equipment. Hostesses are on hand daily to supervise the room and give information to enlisted men regarding Medford and vicinity. The telephone company is planning to install a pay telephone in the recreation room.

Hostesses for the week include Mrs. Charles Barnes, Mondays; Mrs. Grace Collins, Tuesdays; Mrs. John Boyle, Wednesdays; Mrs. M. N. Hogan, Thursdays; Mrs. Charles Barnes Fridays; Mrs. C. H. Paske, Saturdays and Mrs. Glenn Smith, Sundays. These ladies have selected helpers in order that two women will be on hand at the center throughout the day and evening hours.

Local business houses and firms listed by Mrs. Leonard Carpenter as donating items for the recreation center were Hanson Hardware, Kay Printing Co., Cupp Furniture, Office Boy Stationary company and Medford Stationary store, Southern Oregon Sales, Inc., and Feldman Electric store.

Temporary housing of the recreation center was donated by Jackson county court which offered the auditorium in the court house for use as a gathering place for enlisted men.

TOWNSENDERS TO HEAR REPORT ON CONVENTION

(Contributed) Townsends of southern Oregon will hold a Buffalo convention rally on Thursday, July 24 at Townsend headquarters, 123 W. Main street, at which time the returned delegates will give their reports.

A chicken pie supper is planned for 5:30 to be followed by a program.

All Townsends and friends should attend as this should be a very interesting meeting.

Medical Leader Dies. Seattle, July 16.—(P)—Dr. Casper W. Sharples, 75, a leader in the medical profession in the Pacific northwest and one of the founders of the American College of Surgeons, died in the Seattle general hospital last night. Dr. Sharples was born in Eugene, Ore., in 1866 and was graduated from University of Oregon in 1884.

Use Mail Tribune want ads.

COUNCIL APPROVES SALE OF SIX LOTS; LIMITS PARKING

Stops in Front of Liquor Store Cut to Ten Minutes; Alley Change Hearing Set

Sale of six city-owned lots was authorized by the city council at its regular semi-monthly meeting last night. The sales were:

Lots 1 and 2, block 4, Tuttle's third addition, situated on King street at Catherine street, to Katherine L. Earl for the price of \$300; lot 3, block 4, Tuttle's third addition, adjoining lots 1 and 2 on the south, to Clinton A. and Hazel E. Balfour, \$175; lot 16, block 3, Orchard addition, on South Holly street at O'Gara street, to M. A. Schwartz, \$150; lot 2, Highway addition, on North Riverside avenue, to Irsel O. Chapman, \$550, and lot 5, block 4, Siskiyou Heights addition, south end of Barneburg road, to E. R. Hoppe, \$250. All prices were at the appraised valuation.

Parking Limit Cut. On recommendation of the public safety committee the council adopted a resolution limiting parking in front of the state liquor store and adjoining Beverage Shop to ten minutes between 10 a. m. and 10 p. m. The time limits do not apply on Sundays or legal holidays or between 10 p. m. and 8 a. m.

A public hearing was scheduled for 7:30 p. m. August 19 in council chambers on vacating part of the alley in block 20. The remained of the alley was vacated in 1910. The part of the alley now proposed for vacating runs north from the east-west alley in the block bounded by Main, Eighth and Front streets and Central avenue.

The council approved the transfer without fee of the two beer licenses held by Jensen & Dalley to Jens Jensen who, the council was told, had bought Dalley's interest.

Council C. H. Herman was absent.

ARMY CAMP ROAD PROBLEM TALKED

John R. Sargent of the Portland office of the public roads administration arrived this morning for two days of consultations on all road requirements if this becomes a defense area through establishment of the proposed Beagle-Antelope army cantonment.

Mr. Sargent conferred this morning with Capt. Theron W. Bean, constructing quartermaster, and executives of the architect-engineer staff. Conferences were scheduled this afternoon with the civilian cantonment coordinating board and other local officials.

Closing time for Too Late to Classify Ads is 1:30 p. m.

TEACHER ADVISES RESTORATION OF MEDFORD CURFEW

Bad Situation for Some Years Is Word to Council—Prompt Action Urged

Mrs. Margaret Cantrall, a teacher in the Lincoln school, pleaded with the city council at its regular semi-monthly meeting last night to restore a curfew ordinance to keep young girls off the streets late at night.

Mrs. Cantrall told the council that she had been watching with growing concern the presence of tender-age girls out on the streets with men around midnight or later. She emphasized that she was speaking not of girls of high school age but of girls of junior high and grade school age. She asserted that when she goes home at midnight or 12:30 she sees little 12, 13 and 14-year-old grade and junior high school girls out with men.

Knows Situation. Mrs. Cantrall said she has been teaching school in this county for 17 years and therefore knows what the situation is. She stated that parents alone could not shoulder the responsibility and asserted that the mere presence of a curfew ordinance in the books would be effective in keeping many young girls off the streets at night.

She acknowledged that perhaps the city was not now equipped to handle the problem without additional police help but she contended that even if only a few girls were "saved" the extra cost would be well spent. She expressed the belief that after strict enforcement at the beginning, a curfew law would in itself prove effective in obtaining the desired results.

Not Recent Condition. There has been a bad situation among grade and junior high school girls for some years, Mrs. Cantrall said in explaining that the problem is not of recent origin. She added, however, that she had become more concerned over the problem of late. "I hope," Mrs. Cantrall said to the council in parting, "that you will take some action before this matter is called to your attention in a more tragic or drastic way."

HILLCREST ROAD GIVEN OIL COAT

Work on oiling the Hillcrest road was started this morning by the county oiling crew. It was the first heavy oiling of the year. Weather conditions are now ideal for the work. The county this week spread a palliative on the Elks picnic ground road, near the Given residence, to settle the dust which was flying high due to traffic occasioned by the encampment nearby of the 20th Pursuit corps.

CROP INSURANCE PLAN IMPROVED FOR '42 PROGRAM

'Blanket Insurance,' Commodity Note for Premium Payment Among Changes

"Blanket Insurance" and the introduction of a commodity note plan for payment of premiums are most important of four changes in the federal crop insurance corporation's 1942 program, it was disclosed today by Fred Homes, chairman of the Jackson County AAA committee.

"The changes are designed to give the farmer the maximum amount of protection on his crop, and to make it as convenient as possible for the farmer to insure his next year's wheat crop," Homes said. "The new program will make the insuring of farms and the paying of premiums less involved by reducing the number of forms the grower generally signs in making his application and paying the premium."

Payment By Note. The changes provide: Payment of premiums by a note plan; owners and operators who insure one farm in a county must insure all their farms in that county; an individual need make only one application regardless of how many farms he insures; the insurance will be in force until noon of October 31, instead of October 1.

In the past the farmer had to make a separate premium payment for each farm insured or

sign a separate assignment for each insured farm by which the corporation would deduct the amount of his premium from his AAA payment.

Sign-up for insurance on the 1942 crop will soon be started in this county, and a campaign is being planned to make the provisions of the new simplified insurance known to every wheat grower in the county, Homes said.

From Lake—W. M. Walls of Lake O'Woods was a Medford visitor today. He said that the road from Ashland to the lake was now in good condition.



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she picked one cola as her taste-test winner

1 "I had just finished a romantic scene with Ronald Reagan, leading man in my new Warner Bros. picture, 'Million Dollar Baby,' when I was asked to taste several leading colas in unlabeled paper cups and choose the best-tasting."

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