

# PROGRESS MADE WITH NEW TELEVISION SYSTEM

## ENGINEERS CUT SCANNING DISK REQUIREMENTS

Chicago (AP)—Two Chicago radio engineers have developed an experimental television system requiring only about half the usual wave band formerly believed necessary for good radio picture transmission and reception.

The "trick" has been to alter the arrangement of scanning disk holes. Prof. L. P. Garner and U. A. Sanabria of the Western Television Corporation are the engineers.

A 100-kilocycle frequency channel generally has been used in transmitting clear images. Such a band is large enough to accommodate ten broadcast stations.

The scanning system used by Garner and Sanabria is of the common disk, multiple-aperture type. A metal plate with a number of tiny holes revolves rapidly before a movie-projector lamp.

The subject to be broadcast is in the path of the interrupted beam, and the light is then reflected to photo-electric cells, which make an electrical copy of the rays.

"One fundamental difference of our system," explains Garner, "is that we need only 45 line elements instead of 50 per picture. This reduces the number of impulses and the width of the wave channel to 81 kilocycles.

"Through use of the new principle only 15 frames or pictures per second need be transmitted, resulting in a maximum waveband of less than 61 kilocycles.

"This new principle is incorporated in the analyzing mechanism and consists in interposing at the receiver several partial frames in more rapid succession than a complete frame in other systems. The eye is able to retain and combine these rapidly recurring partial frames into a smooth picture with no noticeable flicker.

"The device actually produces a picture by a sort of weaving process which also serves still further to reduce the frequency necessary. The action is to interpose or mix the electrical impulses, thereby allowing no one frequency to endure for a period longer than the time required for the scanning spot to move across the scanned field once.

"This mixing of frequencies reduces greatly the amount of interference between stations. Our television signals tune sharper on a regular broadcast receiver than most voice stations.

"We have had excellent results using a stock commercial AC receiver, feeding into a television reproducer containing a neon glow-lamp of unusual design."

Woodburn—Mrs. E. J. Hodge entertained the Smart Set bridge club and several additional guests at a bridge luncheon Friday afternoon at her home on Corby street.

Woodburn—Mrs. Harold M. Austin entertained the Thursday afternoon bridge club at her home on Montgomery street this week. The prize for high score at cards was won by Mrs. A. J. Beck and Mrs. Kate Beck received the consolation.

Dallas—Paul Forrette, son of Mr. and Mrs. C. D. Forrette, received a badly torn ankle and the small bone of his right leg broken, when the motorcycle he was riding behind Albert Fillet's was hit from behind and pushed into the ditch on the right hand side of the road by a coupe driven by young Lettken, a freshman at Dallas high. The car turned over on its left side after running part way up the bank.

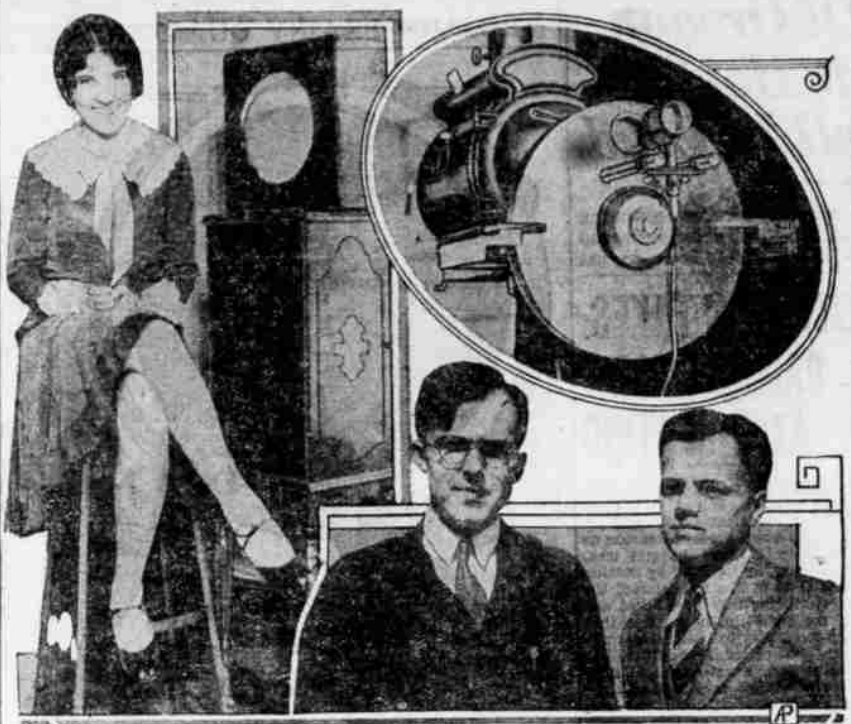
The students were on their way to McMinnville Friday to see the football game when the accident occurred a mile this side of Amity. Except for numerous bruises to Albert Fillet's leg, there was no other injury.

Paul was taken to his home in north Dallas by a passing motorist.

CLASS AIDS MOTHER  
Stanton—Several members of the young married people's class met at the church parlors Thursday and saved for Mrs. Ralph Kelly, who has not been well since the birth of her child and the four small children needed clothing.

TROPHY WINNER CALLS  
Jefferson—Milton Techer, who is attending the agricultural department of the University of California at Davis, visited at the home of his uncle and aunt, Mr. and Mrs. C. V. Cloutier, of near Jefferson, Tuesday and Wednesday. He was on his way back to California from attending the International Live Stock show at Portland, where he was one of the student judges of dairy products. He had the honor of winning the silver cup on sweepstakes at the best all around judge, and the team accompanying him won every trophy.

## NEW TELEVISION SCANNING SYSTEM NEEDS BUT HALF OF ORDINARY BAND



The men are Chicago engineers, Prof. L. Garner (left) and U. A. Sanabria, developers of a television system requiring only half the usual 100-kilocycle band. Above them is the new transmission scanner. The girl is Yvonne Metz, being televised by a portable "electric eye" with a 12-inch photoelectric cell.

## GRADERS ARE GIVEN AFTERNOON AFFAIR

Kingwood—Three scores of the very young set attended a Halloween party sponsored by Mrs. Charles Adams and Mrs. Elmer Cook at the Community hall in the church basement Thursday afternoon after school. The guests comprised the first and third grade of the public school of West Salem and their teachers were special guests.

Mrs. Robert Clarke of Fairmount Hill was the Gypsy and told fortunes from an attractive booth that was very popular all afternoon. The hall and fortune teller's booth were decked in autumn foliage, constellas and black and yellow crepe paper decorations. Jack O'Lanterns adorned the electric poles.

Miss Catherine Chandler and Miss Edith Grant, the teachers, assisted the matrons in charge in conducting numerous jolly games, and cider and doughnuts followed by Halloween candies were served just before the little tots left for their homes.

Those enjoying the party were the sixty happy little first and third graders, their young host, Georgia May and Helen Rose Cook, Danny and Bobby Adams and their mothers, Madames Charles Adams and E. D. Cook, and teachers, the Misses Chandler and Grant.

MISS WARD HOSTESS  
Hopville—Miss Eunice Ward entertained a group of her friends at her home Wednesday evening with a party. Those present were Essie Brown, Marie Rafferty, Nora Powers, Melvin Brown, Bob Brown, Delbert Halner, Bertha Halner, Geneva Branding, Dorothy Edge and the hostess Eunice Ward.

BIRTHDAY OBSERVED  
Gervais—Mrs. G. T. Wadsworth gave a dinner Thursday evening in honor of her daughter, Fern's birthday anniversary. The table was decorated in keeping with Halloween, each place being marked with carnival favors. Aside from the immediate family, Benjamin Motion was a guest.

ATTEND RECEPTION  
Stanton—Mrs. Lizzie Crabtree and Miss Susie Kearns attended the reception at the Turner boys home Thursday and took some clothing that had been donated. They found people from Lebanon, Monmouth, Corvallis, Salem and different communities in the country, there.

GROUP WILL SING  
Silverton—At the Christian church Sunday morning a mixed quartet from the Montavilla Christian church will sing. Rev. and Mrs. O. W. Livingstone, both of whom are pastors, have both the Silverton and the Montavilla Christian churches.

LEAVE FOR SOUTH  
Dayton—Mr. and Mrs. George Christenson will leave Salem Friday evening for Los Angeles, Cal. where they will be the guests of their son-in-law and daughter, Mr. and Mrs. Frank Mason for three weeks. O. C. Mortensen of Newberg, uncle of Mrs. Christenson will have charge of their home during their absence.

NOW . . .

## CROSLLEY Screen Grid Radio TONE TESTED!

For many years, engineers have measured the tone-fidelity of radio sets by charts and curves in the laboratory. Now Power Crosley, Jr., has carried his search for finer tone quality a step beyond the laboratory—a step further than RADIO HAS EVER GONE BEFORE!

## BETWEEN WAVELNGTHS

By C. E. Butterfield  
Rudy Vallee, a down east college boy, whose crooning radio voice is to be heard in the talking movies along with poses insuperable, is back with his first love.

That first love is, of course, the radio. It was via the loudspeaker that his fair followers got their opportunity to respond to the particular appeal of his singing and speaking voice.

Rudy really has made good, if anyone hasn't happened to know it. He began his musical career in college, where music helped pay his way. Before America took to him, he played a mello radio in London. His introduction to New York listeners was on WMCA. Later NBC took him over, and he quickly was put on the chain with his orchestra. The country at large was just as receptive as the big city.

The call of Hollywood followed as a matter of course. If his radio listeners were legion, movie magnates figured that those who wanted to see him by the magic of the screen would pack the theater.

Radio alone will not take up all of his time, for he has other engagements, including the theater and the night club. For the present he is to make a single weekly microphone appearance. In the Sunshine hour on Thursday nights over WEAP and chain. His contract provides that he take part in no other sponsored program. However, he may play in some programs later as a NBC sustaining artist.

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## PRISON SENTENCES FOR AUTO HOLD-UPS

Eugene, Ore. (AP)—Ernest Laverne Blair, 23, and Mabel Forshay, 19, were sentenced to 15 and three years respectively, in the state prison, when they pleaded guilty to charges in connection with the hold-up of three Eugene people and a taxicab driver of Portland.

The pair was arrested in Roseburg, after they had ridden from Portland, first in a stolen taxicab and then in a car taken from the hold-up victims here.

Blair pleaded guilty of robbery with a dangerous weapon and the girl pleaded guilty to aiding and abetting him.

NURSES INJURED  
Eugene—Seven student nurses of the Pacific Christian hospital here were injured Friday night when a bus in which they were riding was struck by a bakery delivery truck. Some were seriously injured.

CHURCH HAS DINNER  
Independence—The autumn dinner given by the women of the Methodist church Friday evening was well attended. The dining hall was decorated with autumn flowers and leaves, and presented a very attractive appearance.

ELKINS—Claude Lewis, an old pioneer of this section is reported as being critically ill at his home.

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## NEW METAL IN TUBES REDUCES THEIR EXPENSE

Washington (AP)—Development of an inexpensive alloy known as konel, which can be used instead of platinum in filaments for radio tubes, has been reported to the United States Bureau of Mines.

The new metal was developed by Dr. E. F. Lowry of the Westinghouse Electric company and is already resulting in a material savings in the manufacture of tubes, the report says. Current market prices for platinum are about \$180 an ounce. Konel costs only a few dollars a pound to produce, it is said.

According to the report, tubes with filaments made of konel last about ten times as long as other filaments and may be operated 175 degrees colder than tubes with platinum filaments but with the same emission, thus giving better reception results for listeners.

The bureau says that reports from the radio industry indicate apprehension among tube manufacturers of a threatened shortage of wickel.

The bureau states that while there may be a "temporary emergency" in which refining of the metal lags behind the current demand, the reserves in the ground are adequate to care for the normal demands of the radio industry for years to come.

LIGHTS EXAMINED  
Jefferson—Lester J. J. McMahon of the state traffic department with four deputies, was conducting an auto light testing station on Main street in Jefferson Thursday evening between the hours of 5:30 and 8 o'clock. Only a small percentage of the cars were found to have defective lights. No arrests were made.

The owners of the cars were given a notice to have their lights properly adjusted within a given period of time.

QUILTING IN ORDER  
Unionvale—Nineteen women met in the Ladies' Aid room in the local Evangelical church in an all day meeting Tuesday and did quilting and served a pot luck dinner. Two men were present to work on the wood supply for winter. Rev. L. A. Mead and Rev. W. E. Simpson were guests.

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## Star Of The West



MARGARET O'DEA  
San Francisco (AP)—Margaret O'Dea has been characterized as the most promising contralto of the younger radio stars on the Pacific coast. She began radio singing with the inauguration of the NBC Pacific network and is a star of the air operas.

## COSTUME PARTY FOR CAMP FIRE GIRLS

Independence—The Cholera camp fire girls were entertained by their guardian, Mrs. Harry Keeney, at her home Thursday evening.

The girls were in costume and presented a most striking appearance in the glow of the candle light and Halloween decorations. The party was given honoring their new president, Joan Osderson.

The evening was spent in playing games and refreshments were served. Halloween favors marked places for Joan Davis, Evelyn Brant, Evelyn Becken, Nelda Butt, Beryl Kelly, Frances Halsey, Mildred Hartman.

PORTERS START NORTH  
Dayton—Mr. and Mrs. Walter Porter and son David have left for their home at Lethbridge, Alberta, Canada, after several weeks spent with their son Lawrence and friends here. David, age 19, was rapidly recovering from the accident of breaking his left arm while accompanying his brother to Hibo. While here Porter rented his farm near Dayton to P. H. Oaks. Mr. and Mrs. Claud Sheldene occupied the farm last year.

For the serviceman, there has been developed by Jeweier a receiver Meters consist of a DC instrument with ranges of 0-120-300-500; a milliammeter with ranges of 0-12-60-200; a DC voltmeter with ranges 0-10-100 and an AC voltmeter with ranges 0-4-8-16-180-800.

## SACRED CONCERT LESLIE CHURCH

The choir of Leslie Memorial church, South Commercial and Myers street, will present a sacred concert Sunday evening at 7:30 o'clock. The choir will be assisted by Dr. A. Holmes Johnson of Portland.

The following program will be given:  
Anthem, "I Will Praise Thee, O Lord," (Haeberling); duet "How Long Will Thou Forget Me" (Pflieger); Mrs. S. Darlow Johnson and J. William Belcher; trio "God Is Love" (Shelley); Mrs. Jessie F. Bush, Mrs. Irene Love and Mrs. T. H. Temple; anthem "Teach Me, O Lord" (Baines); solo "My Days are in His Hands" (Hale); Ruth Hazelton; Quartet "Earth and Heaven" (Mercadante); Mrs. Bush, Mrs. Johnson, Mr. Belcher and Dr. A. Holmes Johnson; duet "Must Jesus Bear the Cross Alone" (Risher); Mrs. Love and Mrs. Mason Bishop; trio "Praise Ye" (Verdi); Mrs. Bush, Mr. Belcher and Dr. Johnson; anthem "Delight Thyself in the Lord" (Wilson); obligato; Mrs. Bush.

The director is J. William Belcher of Portland. Mrs. S. Darlow Johnson is the accompanist.

## BORN IN STAGE COACH, HE SEES DESERT GO

Fresno, Cal. (AP)—Alfred J. Jacoby was born in an abandoned stage coach station on the dry plains of the San Joaquin Valley at a spot that since has become the central part of Fresno's business district.

That was in 1857, nearly 15 years before Fresno had its first house and when nearly all Fresno county's 120-mile stretch of valley land was considered desert.

Jacoby, a retired engineer and steam fitter, still lives here. He is one in a city of about 85,000 inhabitants, the center of some 187,000 acres of vineyard land and almost 500,000 acres of irrigated land.

## DANCE IS SUCCESS

Independence—The Lions club dance at Kenti hall Thursday night was well attended and a very enjoyable evening was spent. There were many varied forms and styles of costumes. The music furnished by the Wunder orchestra, kept the revellers stepping.

## CANAL BOUND SHIPS DIRECTED BY BEACON

Washington (AP)—As eyes for incoming ships, two radio beacons have been mounted on guard at the Pacific and Atlantic entrances of the Panama canal.

First beacons in the western hemisphere, south of the United States coast, they will send out signals each half hour to ships more than 100 miles from shore.

One is located at Cape Mala, in the Pacific approach; the other is at Cristobal, in the Atlantic entrance.

The Byrd Antarctic expedition has run short of tubes. A special shipment was forwarded upon wireless request.

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