

RADIO

On The Air

SATURDAY AFTERNOON
 8:00-8:30—KXN, News and music.
 8:30-9:00—KXN, Novelty recordings.
 9:00-9:30—KXN, Topical-Turkey Times.
SATURDAY NIGHT
 8:00-8:30—KXN (240), News, sports and announcements.
 8:30-9:00—KXN (240), Organ concert.
 9:00-9:30—KXN (240), Dinner concert.
 9:30-10:00—KXN, Studio program.
 10:00-10:30—KXN, Amusement guide.
 10:30-11:00—KXN, Concert.
 11:00-11:30—KXN, Dance music.
 11:30-12:00—KXN, Orchestra.
 12:00-12:30—KXN, NBC program.
 12:30-1:00—KXN, NBC program.
 1:00-1:30—KXN, Dance frolic.
 1:30-2:00—KXN, Dance orchestra.
 2:00-2:30—KXN, NBC dance orchestra.
 2:30-3:00—KXN, NBC dance orchestra.
 3:00-3:30—KXN, NBC dance orchestra.
 3:30-4:00—KXN, NBC dance orchestra.
 4:00-4:30—KXN, NBC dance orchestra.
 4:30-5:00—KXN, NBC dance orchestra.
 5:00-5:30—KXN, NBC dance orchestra.
 5:30-6:00—KXN, NBC dance orchestra.
 6:00-6:30—KXN, NBC dance orchestra.
 6:30-7:00—KXN, NBC dance orchestra.
 7:00-7:30—KXN, NBC dance orchestra.
 7:30-8:00—KXN, NBC dance orchestra.
 8:00-8:30—KXN, NBC dance orchestra.
 8:30-9:00—KXN, NBC dance orchestra.
 9:00-9:30—KXN, NBC dance orchestra.
 9:30-10:00—KXN, NBC dance orchestra.
 10:00-10:30—KXN, NBC dance orchestra.
 10:30-11:00—KXN, NBC dance orchestra.
 11:00-11:30—KXN, NBC dance orchestra.
 11:30-12:00—KXN, NBC dance orchestra.

Whole Air Force



LIEUT. BENJAMIN MENDEZ

Norfolk, Va. (AP)—Columbia's entire air force is at Hampton Roads naval air station, undergoing intensive training in the operation of seaplanes. He is Lieutenant Benjamin Mendez.

Soon, however, the force is to be tripled. Two other army men, ranked as cadets, are in preliminary training and are coming here to complete their education in aerial navigation.

Four years ago Lieutenant Mendez entered the Curtiss flying school, where he became a skilled mechanic. Last year, after becoming attached to the Colombian army, he went through a course in flying at Brook's Field, Texas, and then was graduated in advanced flying at Kelly Field. From there he went to Mitchell Field, New York, to pursue his studies and then came here to learn more about seaplanes.

LATE DEVICE WILL RECORD WAVE POWER

Washington, Jan. 21.—A device, which records the signal strength of long wave transmitting stations is being perfected at the radio laboratory of the Bureau of Standards.

Controlled by a master clock, the apparatus is of special value because records can be taken at all times without the presence of an observer. At the Bureau of Standards laboratory it takes observations at night which otherwise would require the "listening in" of one or two members of the staff.

E. B. Judson, of the radio transmission research division, is conducting the experiments with the device which also measures the strength and direction of static.

The new recorder, Mr. Judson says, has already afforded valuable information regarding hourly variations in the strength of radio signals. Experiments conducted with stations in Europe have provided additional evidence of the effect of the sun's rays on transmission, the strongest signals being recorded between 7 p. m. and 10 p. m., the period of "all darkness" over the Atlantic.

The receiving set used by Mr. Judson is an ordinary autodyne type with inductively coupled antenna and secondary circuits. The recording is done on a Cambridge-Paul recorder connected in series with a two-electrode rectifier in a circuit coupled by an audio transformer to the plate circuit of the last amplifier tube. The records are made by depressing the galvanometer needle of the recorder by clockwork once every 30 seconds. This forces an inked thread into contact with the paper on the rotating recorder drum, thus making the record.

Commander Taylor Given I. R. E. Medal For Short Wave Work

New York, Jan. 21 (AP)—Commander A. Hoyt Taylor, superintendent of the radio division of the naval research laboratory at Bellevue, today received the Morris Liebmann memorial medal from the Institute of Radio Engineers.

The medal, representing the highest award for accomplishment in the radio field within a year, was presented at the I. R. E. convention in short wave phenomena. He collaborated in the development of useful formula for the determination of skip distances in higher frequencies.

A pioneer in radio, Commander Taylor began his first investigations in 1929 while still a student at Northwestern university. From the start he paid particular attention to wave propagation, fading, influence of weather conditions and directive systems.

Entering the naval reserve as a lieutenant in 1917, he was promoted to lieutenant commander in 1918, going to Hampton Roads, Va., where he acted as head of the experimental division of the naval air station. In 1919 he was placed in charge of the aircraft radio laboratory at Washington, with additional duties of a consulting capacity for other naval radio activities. Early in 1923 he was made a commander and became superintendent at Bellport as his most important contribution to radio.



DR. A. HOYT TAYLOR

extensively and contributed a number of inventions to radio, giving most of his attention in recent years to various circuits for piezo electric control of transmitters and receivers. He regards the series of experiments which led to the publication of papers dealing with the theory of short wave transmission as his most important contribution to radio.

ENGINEERS SAY NO TO SENATE BROADCASTING

Washington, Jan. 21.—The American people probably will not have an opportunity to hear their senators in action via radio.

Engineers of the army and navy report that the proposed broadcast of the proceedings of the senate is economically and mechanically infeasible. Capt. S. C. Hoover, of the navy, and Col. J. O. Mauborgne, of the army, appointed to investigate the project at the request of the senate, declare it would cost \$3,300,000 to establish the system and \$1,188,400 annually for maintenance.

The report of the joint commission will be submitted to the senate and it is expected, in view of the adverse findings, the project will be abandoned, temporarily at least.

The channels needed for broadcasting senate activities to all parts of the country could not be obtained without paralyzing existing broadcast programs, the commission reports. Equipment of the senate chamber with suitable transmission apparatus is impractical at the present stage of the art of radio or telephone transmission. Engineers of the Bell telephone laboratories told the investigators such an installation would require an infinite amount of research conducted at great cost with no market for such apparatus—if the problem could be solved—except to the senate chamber.

FIND PULSATING DC BEST ON AC TUBES

Cincinnati, O., Jan. 21 (AP)—Elimination of the hum when alternating current radio tubes are used has been made possible through a scheme devised by Prof. C. B. Hoffman and assistants at the University of Cincinnati.

By applying low voltage pulsating direct current to AC tubes instead of raw AC, it was found that their performance was much better. The direct current is obtained through a dry rectifier and small choke coil connected to a step-down transformer.

Dallas, Jan. 21.—A boy was born to Mr. and Mrs. Arthur Davis of Valsets, at the Dallas hospital, Wednesday.



Modern Testing Equipment

No "guessing" tedious tryouts, or other makeshift methods here—trouble is located and remedied promptly, perfectly in this shop.

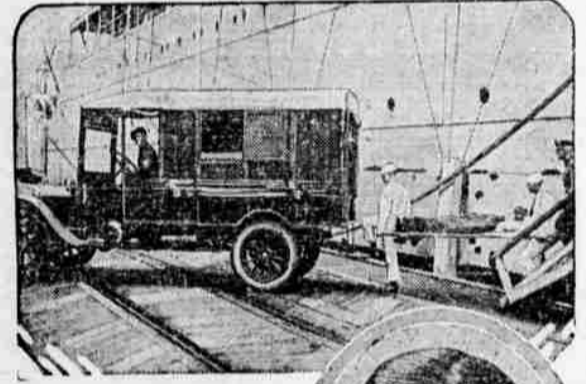
PHONE 203

SHBurrell

ELECTRICAL & BATTERY SERVICE

AGENTS: R. HUBERTS, PHILCO, SOKNET, POWER

Radio Takes Medical Aid To Injured Far Put At Sea On Ships



Radio as a means of transmitting prescriptions for sailors who become ill at sea has been adopted by the U. S. Public Health Service of which Dr. Hugh S. Cumming (right) is surgeon general. Such medical advice often aids in a quick cure, but where the patient is severely stricken he is given all possible treatment aboard ship and then taken to the nearest shore hospital, as pictured above.



WIRELESS GUIDES BICYCLE RACERS

Lille, Jan. 21 (AP)—Eighty-nine cyclist enthusiasts took part in a race here over a route made known to them by wireless transmission.

Each bicycle had on the handle bars or frame an aerial, running either to a tube set or crystal. When all competitors were assembled, the Lille station sent out directions of the road to be followed.

After the first point indicated had been reached, another message sent the radio cyclists off along other roads. For a third time directions were broadcast, the final task being to find a hidden automobile in a wood.

Thirty-nine of the 89 competitors finished the race.

Radio Fans Tell Long Stretched Speaker Tales

Paris, Jan. 21 (AP)—Radio fans sometimes are moved to attempt to outwail their fishermen friends in the stories they tell. For example, a letter came from a far-away French colony reading like this:

"I was sitting beneath my tent with my wife when a huge tiger crept up to the opening. We were fascinated and could not move. The animal crept nearer and nearer and prepared to spring. Just then a voice came from our loudspeaker. This is the Eiffel Tower, Paris, calling. . . . The tiger turned and fled, and so did we!"

RADIO AMATEURS TRY FOR RECORDS

Hartford, Conn., Jan. 21 (AP)—Radio amateurs of the United States and Canada will participate in the second annual international transmission test next month.

Conducted under auspices of the American Radio Relay League, the test is held to enable communication with radio enthusiasts abroad. It is designed to promote international fellowship and good will and to permit amateurs to try for distance records.

Various prizes are to be awarded for stations making the best transmission scores. The opening date is February 8, while entries must be in April headquarters by February 19.

All amateurs are eligible, provided they own a transmitting station.

NO NEW LICENSES IN CROWDED ZONES

Washington, Jan. 21 (AP)—Complaints received by the Federal Radio Commission that licenses have been granted in crowded eastern zones, are without basis of fact, the commission declares.

No new station has been permitted to start operating in the east with one exception, the commission says. This is a small 10 watt station at Saranac Lake, N. Y., which has been authorized to broadcast from 9 a. m. to 1 p. m. As no broadcasting is available in that section in the morning the commission granted a permit.

ASK RADIO AID FOR RUBBER WEATHER MAPS NEED CHANGES

Washington, Jan. 21 (AP)—Radio is being heralded as a potent factor in the struggle of American capital to prevent domination of the rubber growing industry by British interests.

Declaring that wireless service will be an invaluable asset in the fight with British rubber producers, the Firestone Tire and Rubber company has asked the Federal Radio Commission for a license to use a short wave channel for communication with its rubber plantations in Liberia. The American concern says speedy communication is needed to assure a steady supply of rubber from its big plantations in the interior of the Negro republic on the west coast of Africa. Present wire and mail service means a delay of from two days to a week, officials of the company declare.

ARMY IN FRANCE PAID CENT A DAY

Paris, (AP)—French soldiers still get one cent a day pay, just as before the war, but their food now costs the government 20 cents a day.

Meat has displaced bread as the most expensive part of army rations. It accounts for eight cents. The soldier gets six cents worth of bread, two cents worth of wine and coffee, and four cents are expended for vegetables and trimmings.

The proprietor of a shop for men's furnishing goods, who had been accused by a competitor of this mal-practice and the admission that if he or anyone else ever repeated the offense he would be fined 3,000 marks.

PIANO POPULAR OVER THE RADIO

Chicago, Jan. 21 (AP)—If you should tune in some early evening on WGN, Chicago, and hear a man's voice reciting, "E. G. B. D. F. Be assured it is all right; for the daily piano lesson is on the air."

"Every Good Boy Does Finely," says the voice, by way of providing a key to the "line" notes of the treble clef. "D. A. C. E." is easy for the spaces, it is explained, while the invisible class gazes intently at the lesson sheets on the piano and poke stiff fingers where the voice directs.

TOUTING RULED AS UNETHICAL

Berlin, (AP)—Employing touters for soliciting customers from the street was designated by the Prussian supreme court of appeals as "an unethical and highly reprehensible business proceeding."

The proprietor of a shop for men's furnishing goods, who had been accused by a competitor of this mal-practice and the admission that if he or anyone else ever repeated the offense he would be fined 3,000 marks.

WORK IS RETARDED

Stuyton, Jan. 21.—The work on the Womens Community club house is going slowly on account of bad weather, the basement windows were recently put in so it is now all enclosed with better weather it is hoped to get it completed soon.

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WOMEN'S PARTY IS TAKEN AS WARNING

Berlin (AP)—A movement to form a women's political party for the country's total 35 electoral districts with Frau Dr. Marie Luenders, the present Democratic deputy in the Reichstag, as the party's candidate for the next Reichstag elections is reported by the provincial papers.

Commenting on this news, the "Demokratischer Zeitungsdienst" writes: "While it is not at all surprising that women seek to gain political recognition to which by reason of their numbers and social significance they are entitled, their leaders are sufficiently clever to realize that the formation of a distinct women's party would hardly be the means of insuring the imposing feminine representation in the Reichstag that is desired.

"We are therefore inclined to interpret the rumor of the projected political women's party rather in the light of a warning to the other political parties in future not to slide-trick women when choosing their parliamentary candidates."

Gates, Jan. 21.—Wade Latham, the 14 months old son of Superintendent and Mrs. F. W. Jones, of Gates, is seriously ill at the home of his parents. The little boy has been suffering from intestinal flu, since New Year's day.

EXTEND RADIO SERVICE

Washington, Jan. 21 (AP)—Radio telegraph service has been established from Hong Kong to North and South America, Hawaiian Islands and Europe, the department of commerce has been informed by Roger C. Treadwell, consul general at Hong Kong.

GUESTS IN SALEM

Willard, Jan. 20.—Mrs. J. C. Currie and daughter, Julia, spent Wednesday night as guests at the home of Mr. and Mrs. Will McGilchrist of Salem.

SHORT WAVE FEAT

Vernon, France, Jan. 21 (AP)—M. Peplin, local amateur, is the first to communicate by wireless with the French possession of Madagascar. He used a short wavelength. The governor general of Madagascar has sent him a telegram of congratulations.

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The answer is that the Zenith standard of quality cannot be built into a receiver of lower price. Zenith will not put its name to a receiver that is not highly selective, powerful, faithful to the entire tone scale and wrought with surpassing skill and durability.

Performance comes first in Zenith—there is no compromise. The 6-tube set has six working tubes instead of five working tubes and one balancing tube. Instead of three condensers the 6-tube set has four—the 8 and 10-tube sets have five and six condensers respectively.

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