WASHINGTON—49 Use of ra-dic and sound transmission thru England from a Continental sta-cea water is regulationizing the ice. Previously it had feen an-methods of hydrographic survey, nounced that the British Broad-

methods of hydrographic surveying and increasing the sufery of
marinery, E. Lester Junes, chief of
the United States Comet and Geodette Survey, decisies.

In his annual report Mr. Jones
says that the method known as radio accurate sound ranging has
reached a crarge of dependanting
and accuracy which, while not
guaranteeing perfect performance
tunder all conditions, warrants of
fixed indersement. It has chore
than doubled the accomplishments than doubled the accomplishments of occar surveying parties in regions of prevalent adverse weather conditions as it permits the making of surveys during foggy or rainy weather and during the hours of darkness, he says.

The sound of a bomb as the survey ship travels through the water is recorded by two or more shore stations which automatically send wireless signals to the chip as soon as the sound arrives. This is a

as the sound arrives. This is a measurement of the distance of the ship from each station. Knowing the location of the shore stations by previous surveying, the three-sides of a triangle are known, from which the ship's position can be computed.

On the ship is a timing device, a chronograph, comprised of a strip of paper like a stock ticker tape on which two lines are drawn by pens that may be deflected by mag-nets. The first of these pens is opnets. The first of these pens is op-erated by a chronometer so that it makes a kink in its line each sec-ond, and the tape is drawn at such a rate that the distance between accounds is about one lich. The second pen may be connected either to a sound receiver or a wireless receiver.

either to a sound receiver or a wireless receiver.

The shore stations are equipped with a complete wireless transmit-ter and receiver, and a sound re-ceiver is placed out in the water from a few hundred feet to a mile from shore, depending upon the depth of water and severity of the surf. A cable connects the re-esiver to the shore apparatus where the weak sound signal is amplified sufficiently to operate a

party will be broadcast through NBC System stations tonight from 6120 to 7:20 o'clock, Pacific stan-dard time, over stations KHQ Spo-kame, KOMO Scattle, KGW Port-jund, KGO Oakland and KFI Los

Angeles.

The program will consist of popular musical comedy hits by a concert orchestra under the direction of Frank Black, a quartet and two soloists, Nancy Holbrook, solutino, and Robert Adams, tenor.

Among the selections will be

Among the selections will be songs from "The Scandals," "Hold Everything." "Three Cheers." "Show Boat," "The Desert Song." The Connecticut Yankee." Wednesday, December 12 "Roads to Romanes." 5 to 9:30 to m.—The weekly journeys of Jack and Ethyl" have been on the air for almost a year. During these bounts this program has been endorsed by chambers of commerce and other leading civic organizations throughout the west. The Uons throughout the west. The Associated "Motormates" are con-simily revealing to auditors inter-esting bits of information of his-toric, romantic or other value con-cerning sections of the three Pa-cific constants. cific coast states, over stations KHQ, KOMO, KGW, KGO, KPO, and KFI.

With a log that months and months of usage had made the lo-cation of a station on the dial as familiar as one's front door, call letter announcements were not so important. Now with nearly every station in a new berth, things are different. When one starts out to learn where his standbys are, in addition to other stations he would like to mark up, he must spend an entire evening building a log that in the past, with frequent call letter announcements, didn't take more than an hour.

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ms of the British Broaden On Superation transmitted here from



The Fullograph receiver is in two parts, the smaller of which is the rectifying panel and the linear the elockwork-driven machine with synchronizing equipment on which is supported a roller, to which the sensitive receiving paper is at

is supported a roller, to which the sanslitive receiving paper is alterached.

Captain Otto Fulton, inventor of thurities has greatly pleased Capthe system, superintended the retain Fulton.

"It is gratifying to earn some picture. He used an ordinary port-measure of success after 14 years able rolls reserved.

able radio receiver with no autside constant experimenting. Soon we asrial, his picture receiver replacing the speaker.

The success of the picture broadwill then be even clearer than casting and the official backing now.

Microphone Device W. U. ARRANGED FOR LONDON-OF Sir Harry Lander has "invented a device to im-prove the broadcasting of the voice.

munications department of Radio.

Broadcast

Programs of Week

The radio manufacturer is turning more and more to the newspapers as the proper medium thrushis more as the proper medium thrushis more as the proper medium thrushis to advertise his products particularly is this true with the description of the stabilization of the broadcast included that the most pretentions was an accountable to a divertise his products that the which to advertise his products particularly is this true with the stabilization of the stabilization of the early broadcasting days which yelped and hollered them indicated four villages had before turned radio frequency stepped in as a curvail have been having a merry time sine. November, the first manufacturer is turning an energy time sine. November, the first manufacturer is turning an energy time sine. November, the first manufacturer is turning an energy time sine. November, the first manufacturer is turning an energy time sine. November, the first manufacturer is turning an extremely broadcast included in the desired of a station was a curvail have been having a merry time sine. November, the first manufacturer is turning moved and the communication of the broadcast in the desired of the said interest for the early broadcast included in the desired of the said interest for the early broadcast included in the desired of the said interest for the interest for the interest form the desired of the interest for the desired of the interest form the desired of the inter

tain on which will rise The night, December 39, at

CAMBRIDGE, Mask-OP Ques

search of the Laura Spellman Reckefeller fund, and consisted of Frederick R. Wulsin, Patrick T. L. Purnam and Milton Katz. Its purvoice.

It involves nothing more costly than a towel soaked in water. The towel is placed over the microphone and has the effect of emphasizing the singer's voice, and at the same time subdujing the sound.

Bettiah Broadcasting Co. officials were a little skeptical when diary would be formed in order.

British Broadcasting Co. officials were a little skeptical when Sir Harry insisted of having a west towel before he would face the microphone. Such a request had never been made in the studio lescore. Dut when the expert in the listening cabinet signalled that it was yielding excellent results, and Sir Harry beamed a campy 'I told you so' out of the corner of his eye.

Heallocation of the broadcast.

Christmas Play By Helen Norris

Helen Nerris, halled as the first radio playwright to gain fame, ha-fryitten a Christmas vehicle for the KGO Players entitled "Frankin cense and Myrrh," the serial cur-

tion whether tobacco smoking originated exclusively in America is raised by archeological finds now en route from Africa to Peanow en route from Africa to Pea-body Museum of Harvard.
The smoking riddle and other secrets of equatorial Africa in the centuries preceding the modern white man's arrival there are con-tained in materials excavated dur-ing 1927 and 1928 by a Harvard expedition headed by Frederick R. Wulsin of the Harvard museum. Mr. Wulsin has returned ahead of the archeological finds.
The expedition was sponsored by the Bureau of International Re-search of the Laura Spellman

boses were search for archeologi-cal material in the Sudan which



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