

Dona Lutz Will Speak in Omaha in Near Future

Brazilian Scientist, Popular at Baltimore Convention, Promises to Talk in Nebraska.

Washington, May 4.—(Special Telegram.)—Dona Bertha Lutz, scientist of note as well as leader and organizer of women in Brazil, has promised to give Nebraska a day in the near future, and it is understood here that arrangements are being made in the state for a meeting at either Omaha or Lincoln, possibly both. It was through the intervention of Frank A. Harrison of Lincoln, the Brazilian exhibition, and Senator Sampaio, Brazilian commercial attaché here, that the consent of Dona Lutz to make the Nebraska trip was obtained.

Dona Lutz, the prettiest being the equivalent of "Mrs." in the Portuguese tongue of Brazil, was one of the two delegates from her country to the international convention of the League of Women Voters, held last week in Baltimore. She came as near as anyone to sharing the honors of the occasion with the Ionized Lady Astor. In particular, she excited the interest of the Nebraska women at the convention.

Representative Evans spoke at one of the commissioners to length on the floor of the house in opposition to a point of order raised against the conference report on the District of Columbia appropriations bill, which has been a storm center in congress for the past two weeks. The Dakota City man, who is on the conference committee, won his fight.

Miss Helen Cornell of Omaha, president of the Nebraska unit of the Women's Overseas Service league, which closes its convention here today, has been elected recording secretary of the national organization. The members of the league are seeking federal charter from congress.

Dr. and Mrs. A. C. Stokes, Walter W. Head and I. F. Zimmer were among the Omaha visitors at the capital yesterday. Mr. and Mrs. A. C. Epperson of Clay Center also are here.

Bertha J. Widener has been nominated for the postmastership at Kennard.

Grade School Highway Contest Prizes Awarded

Lincoln, May 4.—(Special.)—Herbert Bennell of Lincoln won the first prize in grade school contests for the best essay on "How I Can Make Highways More Safe." The essays were limited to 500 words and prizes were offered by the National Automobile Chamber of Commerce. The first prize is a gold watch and a free trip to Washington. Other prize winners follow:

Second, Elizabeth Paulussen, Battle Creek, silver medal and \$10.
Third, Guy Pierce, Jr., Kearney, bronze medal and \$5.
Fourth, Bruce Meservey, Kearney, bronze medal and \$5.
Fifth, Hutton Webster, Jr., Lincoln, bronze medal and \$5.
Sixth, Sylvia M. Janovec, St. Libery, bronze medal and \$5.
Seventh, Ethel Bea Bowker, Kearney, bronze medal and \$5.

Howell at Aurora

Aurora, Neb., May 4.—(Special.)—R. B. Howell of Omaha delivered an address on radio at the high school and another one at the Methodist church. The meeting at the church was largely attended.

RADIO DEPARTMENT

'B' Battery Needed for High Voltage

Variable Current Control Is Recommended for Vacuum Tube.

Radio receiving sets using vacuum tubes, either for detector or amplifiers, must be equipped with some sort of a battery for giving them high voltage. This high voltage is required to have the tube operate properly and is absolutely essential. It is called the B battery to distinguish it from the A or six-volt battery, and the proper voltage should be 22½ volts. Both batteries must be connected correctly, because if the B battery happens to get connected with the filament circuit the tube will burn out almost instantly.

There are several types of B batteries on the market and all of them are good. They last for months.

The amateur may find that his particular vacuum tube will work the best at 12 to 16 volts, but as the battery gets lower the voltage will have to be raised. For this kind of work it is best to get what is known as a variable B battery, and they usually come in larger sizes and cost more.

Make Own Battery.

Here's a little wrinkle in fixing up your own B battery. In any electrical store you may purchase a box of Eveready flashlight batteries. These come five in a box and the proper size is 703. Leave the batteries in the box and connect them all up with short pieces of wire and a little solder. It will be seen that the two contacts are made of brass and that one is longer than the other. The long one should be connected to the zinc of the battery and consequently is the negative side. The short one is the positive side.

In connecting them up first leave the long one for the external connection, then connect the short piece of brass on the first cell to the long piece on the second cell. Keep this up on all the batteries and it will be found that the short lead will be left on the other end. If more B battery voltage is required for an amplifier, simply buy several additional boxes of the batteries and connect them to the first set.

Alps, has invented a radio instrument.

SPARKS

Jean Lecarne, a French engineer, connected with Vallot observatory, at the summit of Mont Blanc, in the Alps, has invented a radio instrument.

A Silly Song

By A CUCKOO BIRD

I'm the little brown jug and a song I sing of the good old days when I was king. For well do I remember how I went to the fields with men to plow. They kept me clean and corked up tight and filled me fresh most every night. I sat in the shade of a shock of wheat to which men dragged their weary feet. They drank from me and their eyes grew bright, and some would sing and some would fight. I had more friends than a millionaire and was hailed as the foe of care. But now unless I'm filled with oil I never go where men folks toil. No more they greet me as a king and they fill me up with any darn thing. Varnish, coaloil, vinegar, paint—some of 'em clean and some of 'em aint. Or else I sit on the smokehouse shelf with nothing but flies inside myself. My form men now on the junk heap chuck: I'm the little brown jug all out of luck.

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Common Sense

By J. J. MUNDY.
Are You a Foolish Optimist?
It is easy to be too much of an optimist.

There are persons who are so filled with the thought that "everything will come out all right," that they make no special effort to bring about this happy condition.

They laugh at the things which make other persons cry, they ignore the things which make others angry and they are preaching forever the theory that "everything will come out all right in the end."

It is well to be optimistic to the point where you feel confident that if you have the ability and expend enough effort and thought necessary to accomplish certain results, you will be successful.

But many of the so-called optimists are day-dreamers, castle-builders, whose imagination pictures a lot of things happening in the future just as they want them, while they sit and hum and wait.

Still in their childhood days, though they may have grown gray in the world of time, they may not believe in the magic wand but they might as well.

Mix time, concentration and effort with your optimism; then you may get something worth possessing.

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QUESTIONS

R. M. K. Chadron, Neb.

Q.—How far apart should antenna wires be?

A.—For receiving purposes, only a single wire is needed. Make this as high as possible. If two wires are used, a four-footing spacing would be practical.

F. S. Lincoln, Neb.

Q. (1) How big is No. 24 wire? (2) Does wire for coil have to be covered? (3) Do batteries have to be used with a radiophone? (4) How high does aerial have to be?

A.—(1) .020 inches in dia. (2) Yes. (3) With crystal detector, no; with audion bulb, yes. (4) The higher the better.

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