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WONDERS OF WIRELESS DIRECTION.

Atlantic Aeroplane Flight of Two Thousand Miles to be Directed Entirely by Wireless.

One morning recently an aeroplane might have been seen hovering high over the dome of St. Paul's Cathedral, says a London writer. At the same time, fifteen miles away

on the Thames below Woolwich, a long, sinister form was ploughing its yay along the surface of the water. Like a fish it sped on, in and out among the crowded shipping until, at hast, some twenty miles farther down the river, it came to rest at a marked buoy off Tilbury Docks.

That cigar-like form was a dummy torpedo, and it was being directed by wireless over the whole of its twenty-It's better to lose smilingly than to mile course by the observer in that tiny aeroplane 8,000ft. over St. Paul's.

A Wireless "Lighthouse."

So accurate was the directing force that not once in the course of its mysterious passage did the torpedo as much as scrape the hull of one of the innumtrable vessels passing up and down the Thames. And when at last it nosed its way alongside the buoy at Tilbury, it was a bare half-inch out in its predetermined course!

That is but one of the marvels of wireless direction. It is not altogether a new discovery. During the war the later Zeppelin raids on this country were all directed and controlled in this manner. Operating from Borkum, manner. Operating from Borkum, where the Germans had a big signalling base, the airship commanders, every few minutes during their flight across the North Sea, would get in touch with this wireless station, to be supplied immediately with their exact latitude and longitude, and even the latest weather forecast.

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latest weather forecast. But it is only during the last eigh-teen months that wireless direction has been adapted successfully to com-

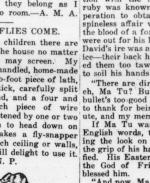
mercial purposes. The initial step in harnessing this potent and little known force was the establishment some weeks ago of a wireless lighthouse on Inchkeith Is-land, in the Firth of Forth. By means of this "lighthouse" ships

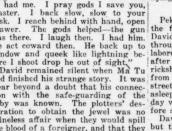
an be directed through the dangerous channels of the firth by wireless, so that there is no possibility of their running ashore or being wrecked even on the darkest night or in the densest

This is but the first step in the development of wireless direction. By means of experiments now being con-ducted in the various technical laboratories, it is hoped in the near future to employ this force for running train and tramcar services, for traffic con-trol both at sea and on the road, sea navigation, and directing and operating fleets of battleships and aircraft, until it will be possible to direct the path of everything moving on the surface of the earth, not even excepting human beings, by means of wireless.

Make Wireless International. Steps are being taken, in conjunc ion with the Board of Trade and the Meteoroligical Office, to international ize wireless direction of ships at sea. At the present moment there is lying in the Port of London a ship that has been specially fitted with powerful wireless receiving sets to give de-monstrations of this new method of navigation in all the principal ports of the world.

Setting out from London this missionary ship will sail for China, via the Mediterranean, Indian Ocean, and the Straits, and thence on to North and South America, and back across the Atlantic to Europe and South Africa, giving demonstrations at every big







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The most ambitious effort, however, will be a cross-Atlantic aeroplane flight which is to be made late in the ummer. This machine will carry both pilot and observer, but their attentions will be confined to the actual flying side.

Setting out from Newfoundland for the first 600 miles of its flight the aero-plane will be directed by the Glace Bay Wireless Station. Then it will be picked up and navigated by a wireless "lightship" cruising in mid-ocean to a point where control will be transmit ted to Ongar, the big operating station The whole 2,000 miles in this country. The whole 2,000 mile of flight will be directed by wireless

The Little House. So tiny seemed the little house, Scarce room for bed and board; Yet here were love and happiness In heaping measure poured

But now too large the little house, For one has gone away, And through the high and empty rooms The joyless echoes stray.

Still ever round the little house The sweetest memories cling Of laughing face and dancing feet, That made our hearts to sing

Oh, Father, keep the little house; Bring baim and tender care; May sumbes again of happiness In Thy good time be there. -E. Lillian Morley.