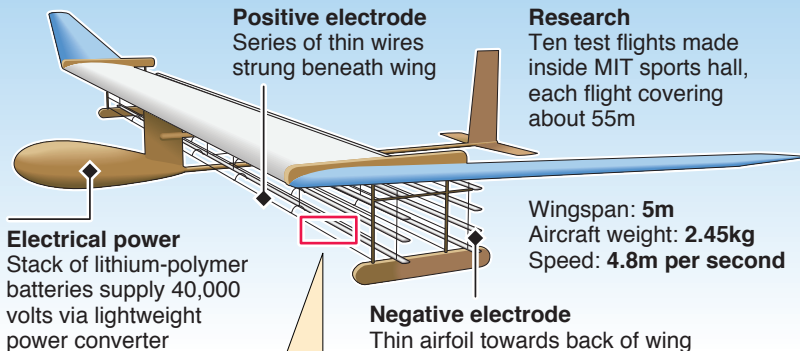


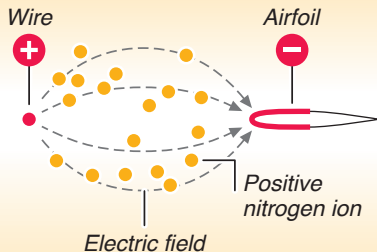
# First flight of aircraft with ion drive

A team of scientists at the Massachusetts Institute of Technology have successfully flown the first aircraft with no moving parts. The model plane uses “ionic wind” propulsion that creates no emissions

**HOW PLANE FLIES:** Scientists used bungee cords to launch aircraft, with ionic wind technology powering rest of flight

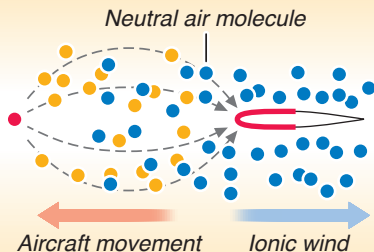


**1** Wires charged to 20,000 volts, spurring atmospheric nitrogen molecules to lose electrons and become positively charged



Airfoil, which is negatively charged to 20,000 volts, attracts **positive nitrogen ions**

**2** Nitrogen ions moving between electrodes collide millions of times with **neutral air molecules**, transferring energy to them



Neutral air molecules stream out behind plane, generating **thrust** that creates forward flight