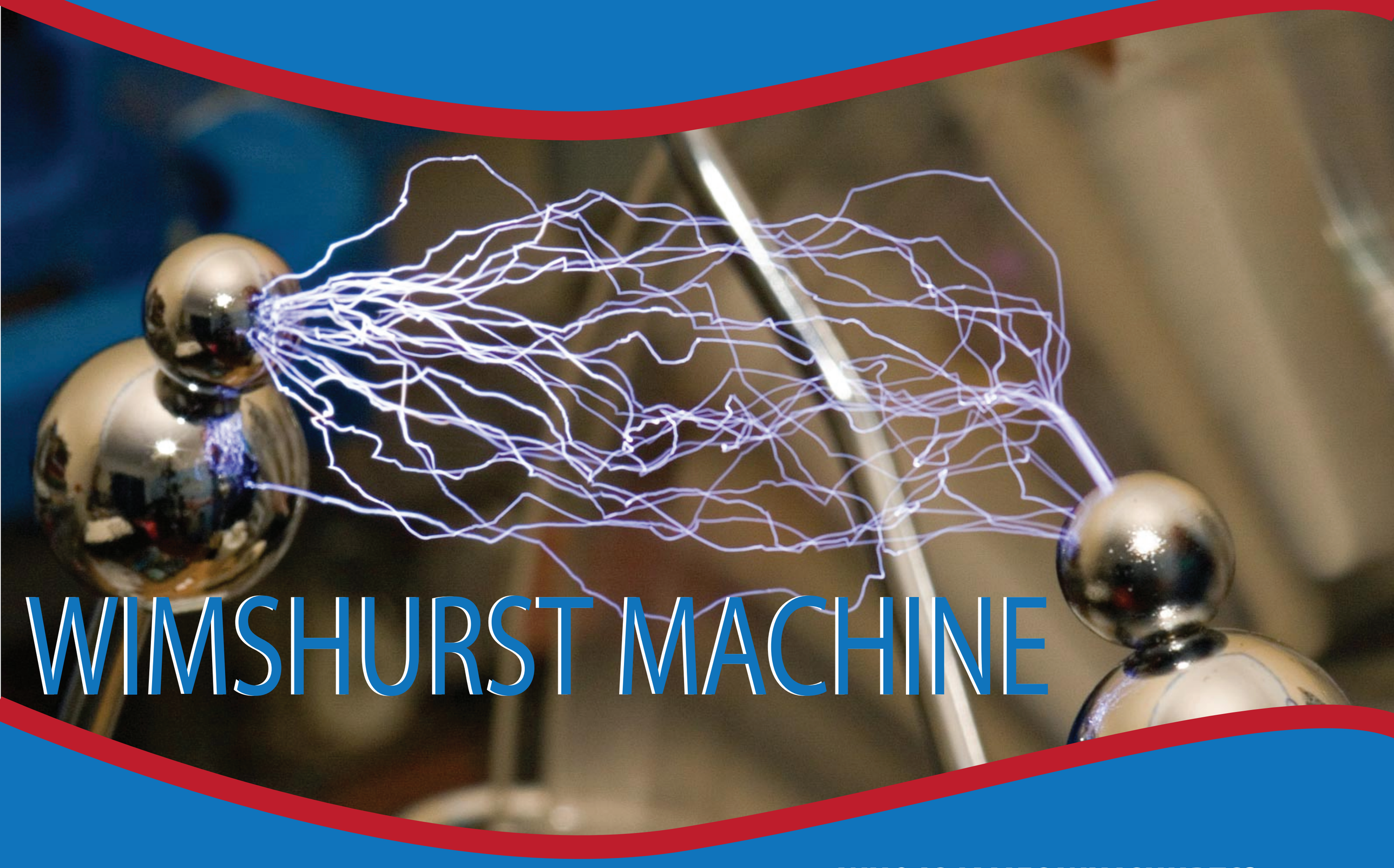

WIMSHURST MACHINE

INTRODUCTION

Known as the Wimshurst Influence Machine, it is a mechanically power device that belongs to a class of electrostatic generators called influence machines, which separate electric charges through electrostatic induction, or influence, not depending on friction for their operation

WHO IS JAMES WIMSHURTS?

The Wimshurst Machine was developed between 1880 and 1883 by British inventor James Wimshurst. But, earlier machines in this class were developed by Wilhelm Holtz (1865 and 1867), August Toepler (1865), J. Robert Voss (1880), and others.The older machines were less efficient and exhibited an unpredictable tendency to switch their polarity. The Wimshurst did not have this defect.

TO SEE MORE SCAN THE QR-CODE

HOW IT WORKS

In a Wimshurst machine, the two insulated discs and their metal sectors rotate in opposite directions passing the crossed metal neutralizer bars and their brushes. An imbalance of charges is induced, amplified, and collected by two pairs of metal combs with points placed near the surfaces of each disk. These collectors are mounted on insulating supports and connected to the output terminals.

FUTURE APPLICATION

In the modern world, almost everyone is familiar with electricity as an accessible, essential form of energy. In electricity's earlier days, scientists used the buildup and release of static electricity. It is the same reason why our clothes stick in the dryer. Have you ever wondered what the Wimshurst machine is? The Wimshurst machine is an electrostatic generator giving high voltage of energy, which was developed during the early 1800s. The Wimshurst machine was last great electrostatic generator ever invented. The Wimshurst machine generator beats the Van de Graaff generator by a long run.

TO SEE MORE SCAN THE QR-CODE

WEBSITE

VIDEO

HARMONY PUBLIC SCHOOLS

STEM SOS™ MODEL
STEM Students on the Stage (SOS)™
A practice based Model of STEM Teaching