

CHEMISTRY ADVENT 2018

12

1890

1892

1894

1896

1898



WILLIAM RAMSAY

✕ 1852-1916



JOSEPH JOHN THOMSON

+ 1856-1940



MARIE SKŁODOWSKA CURIE

☪ 1867-1934



In 1894, found an unknown, unreactive gas in the atmosphere: argon



Discovered four more noble gases: helium (1895), neon (1898), krypton (1898) and xenon (1898)



Won the Nobel Prize in Chemistry in 1904 for his discoveries



Died as a consequence of his later work with radioactive materials



Discovered electrons in 1897, originally calling them 'corpuscles'



Developed the 'plum pudding' model of the atom, in which negatively charged electrons are scattered throughout a spherical positive charge



Carried out work to separate neon isotopes by mass, using a technique that would lead to the modern techniques of mass spectrometry



Investigated radioactive substances with her husband, Pierre Curie



Discovered two new radioactive elements in 1898: radium and polonium (named after her native Poland)



Only person to win Nobel Prizes in two sciences (Physics and Chemistry)



Defined the curie, a unit that was used in the measurement of radioactivity