

CHEMISTRY ADVENT 2018

13

1900

1902

1904

1906

1908



EDITH HUMPHREY

+ 1875-1977



LEO BAEKELAND

🇧🇪 1863-1944



FRITZ HABER

🇩🇪 1868-1934



The first British woman to obtain a doctorate in chemistry, in 1901



Carried out pioneering work in coordination chemistry, proving Alfred Werner's theories regarding them. Werner went on to win a Nobel Prize



The first chemist to synthesise a chiral inorganic complex. Subsequently left university research due to sexist attitudes towards women



Produced the first commercially successful photographic paper



Produced a synthetic replacement for shellac (used as a wood finish, protective coating and to make gramophone records)



In 1907, produced Bakelite, the world's first synthetic plastic. Bakelite was widely used until the late 1940s, and is still used in some applications today



First to successfully synthesise ammonia from nitrogen in the air



Scaled up by Carl Bosch, the Haber-Bosch process allowed the production of fertilisers. Nitrogen fertilisers support half the global population



Played a major role in the development of chemical warfare in WWI. He helped develop chlorine gas and other gases used in trench warfare

