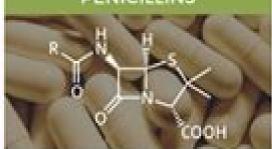
# PENICILLINS



Alexander Fleming discovered periodlin in 1928, but it wasn't until 1939 that Howard Florey worked out how to make it in useful quantities. They were amongst the first drugs effective against multiple bacterial infections.

# CHEMISTRY INVENTIONS That ENABLED THE MODERN WORLD

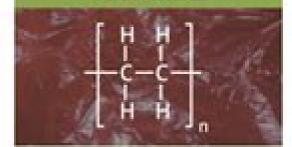
To coincide with the Royal Society of Chemistry's look at what people really think of chemistry, **Dr Mark Lorch** gives his top 5 chemistry inventions that make the world you live in possible. View the RSC's study here: http://vsc.li/pac

# HABER-BOSCH PROCESS

 $N_2 + 3H_2 \longrightarrow 2NH_3$ 

Plants need nitrogen, but a major limiting factor in agriculture is its availability. German chemists Fritz Haber & Carl Bosch worked out a way of combining hydrogen and nitrogen to make ammonia, which can be used as crop fertiliser.

# POLYTHENE



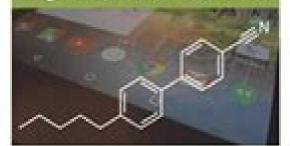
A large number of plastic objects you come across are made of some form of polythene. It was initially discovered in 1898, but a practical method for producing it wasn't developed until 1933. 80 million tonnes are made each year.

# CONTRACEPTIVE PILLS



Russel Marker, an organic chemist, discovered a chemical in Mexican yams could be turned into the hormone progesterone in a single step. This made its production affordable, and led to the development of the first contraceptive pills.

# LIQUID CRYSTAL DISPLAYS



Chemists have known about liquid crystals for some time, but room temperature LCD displays only became possible after George Gray's discovery of SCB in 1972. SCB derivatives are still present in TV, phone and laptop screens.

# **Modern Chemical Discoveries**

**Richard Bailey** 

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