

Dr Ian Shankland

**Citation for conferral of Doctor of Science (honoris causa)
Ceremony 2, Tuesday 29 April 2014, 11:00am**

Chancellor, it gives me great pleasure to present to you Dr Ian Shankland.

Dr Ian Shankland is a graduate of the University of Adelaide, completing his BSc (Hons) in 1975 and his PhD (in Chemistry) in 1979. After a 3 years post-doctoral work at Brown University, Dr Shankland was employed by Allied Chemical (USA) in 1981, which would later become part of the Honeywell Corporation. At this time, the extensive use of chloro-fluoro-carbons (CFCs) and hydro-chloro-fluoro-carbons (HCFCs) as refrigerant gases had been recently identified as being the major cause of the significant depletion of the earth's protective atmospheric ozone layer over the earth's polar regions. In his roles at Allied Chemical and Honeywell, Dr Shankland led the commercial development of a new generation of air conditioning and refrigeration fluids that do not contribute to the further expansion of the ozone hole. Dr Shankland built up and led the research team that identified, screened and tested many compounds in search of economically and commercially viable, environmentally-preferable chemical substitutes that directly led to the phase-out of CFCs and HCFCs. This technical and commercial development was crucial to the successful implementation of the Montreal Protocol (on Substances that Deplete the Ozone Layer) that has resulted in halting, and now reversing, the further depletion of ozone levels in the atmosphere.

The removal of CFCs and HCFCs from the atmosphere via the development of non-ozone depleting agents is the most significant example of the reversal of anthropogenic environmental effects, which has far-reaching consequences for life on earth. Unquestionably, this is a major achievement that has far-reaching consequences for life on earth. In recognition of his contribution to halting the expansion of the ozone hole, Dr Shankland was awarded the 2008 Perkin Medal, awarded by the American section of the London-based Society of Chemical Industry, for "innovation in applied chemistry resulting in outstanding commercial development".

Dr Shankland is currently the Vice President & Chief Technology Officer at Honeywell where he continues to be responsible for new product and applications development, manufacturing process development and scale-up for the commercialization of other environmentally-improved fluorocarbon products.

I am very pleased and proud to present to you Chancellor, for admission to the honorary degree of Doctor of Science (honoris causa) — Dr Ian Shankland.