



Imperial College Alumni Association of Singapore

Presents

Title	Blue Skies to Green Skies - Aero-engine technology to reduce the impact of aviation on the environment
Speaker	Prof. Richard J Parker, FREng, FRAeS, FIMechE Director of Research & Technology – Rolls-Royce Group
Date	2 April 2008 (Wednesday)
Time	1930 hours sharp
Place	Programme Zone (next to café on the ground floor), Jurong Regional Library, 21 Jurong East Central 1, S (609732)

Abstract

One of the biggest challenges to the Civil Aviation industry, both in terms of public perception and technological achievement, is to mitigate the impact of its further success on the global environment. Aviation growth has brought numerous economic and social benefits to a shrinking world. If our successors and grand children are to continue to enjoy these benefits, we must redouble our efforts to reduce environmental impact of air travel.

Since the invention of the jet engine, and its early application to civil transport, huge leaps have been made in efficiency, reduction of emissions and reduction of noise. The lecturer will briefly review this history with specific reference to Rolls-Royce's critical role and current product development. Looking to the future, aero-engine technology will need further significant advancement in order to achieve the exacting targets which the industry has committed to. The lecturer will review technology programmes for the next 10 and 20 years, and sketch a vision for the future of aircraft propulsion, even beyond that.

Biodata



Richard (Ric) Parker was appointed Director of Research & Technology, Rolls-Royce Group in January 2001, and is based in Derby, United Kingdom. He is responsible for direction and co-ordination of Research & Technology programmes across all the Rolls-Royce businesses.

Ric is a Fellow of the Royal Academy of Engineering, a Fellow of the Royal Aeronautical Society and a Fellow of the Institution of Mechanical Engineers.

Ric joined Rolls-Royce in 1978, and has held various posts including Chief of Composites and Ceramics, Chief of Compressor Engineering, Managing Director – Compressor Systems and Director of Engineering & Technology, Civil Aerospace.

Ric gained a BSc in Physics at Imperial College London in 1975 and an MBA with distinction at Loughborough University in 1992. He is a visiting Professor in Aerospace and Transport Technology at Loughborough University.

Registration

Admission is free. All are welcome. Please register by sending an email to icaas2006@gmail.com with 'ICAAS Talk by Ric Parker' in the subject line.

Getting there

Nearest MRT Station : Jurong East

Nearest Bus Interchange : Jurong East

Buses : SBS 51, 52, 66, 78, 79, 97, 98, 105, 143, 160, 183, 197, 333, 334, 335, 506 (via Jurong East Bus Interchange)

SMRT 176, 178 (via Jurong Town Hall Road)

