



Deutsche Gesellschaft  
für Luft- und Raumfahrt  
Lilienthal-Oberth e.V.



ROYAL AERONAUTICAL SOCIETY  
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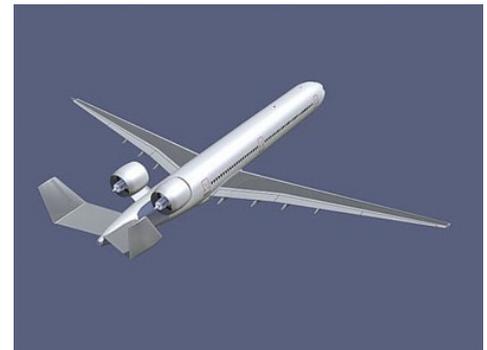
**VDI**

Verein Deutscher Ingenieure  
Hamburger Bezirksverein e.V.  
Arbeitskreis Luft- und Raumfahrt

Invitation to an RAeS lecture in cooperation with the DGLR and VDI

# The Optimum Aeroplane and Beyond: rising to the opportunities and challenges of the 21st century

**Prof Ian Poll OBE, FREng, FRAes**  
Professor of Aerospace Engineering,  
Cranfield University



Lecture  
followed by discussion

Entry free !  
No registration !

**Date:** Thursday, 23rd April, 18:00

**Location:** HAW Hamburg

Berliner Tor 5  
(Neubau), Hörsaal 01.12



Despite the current economic difficulties the expectation is that the demand for air transport will continue to grow throughout the next century. Aviation is an enabler, serving many market sectors and contributing to improved quality of life for many millions of people around the world. There are brand new markets emerging in India and China and in the mature markets new business models have increased demand substantially.

This lecture will examine the fundamental performance of flying machines powered by the kerosene burning gas turbine, assess the developments that technology could bring to the existing dominant design and consider potential new designs.

*Ian Poll is Professor of Aerospace Engineering at Cranfield University and Development and Technical Director of Cranfield Aerospace Ltd. He has 30 years experience in aerospace and aviation, gained in both the academic and commercial domains. His career began at Hawker Siddeley Aviation before moving to the College of Aeronautics. He was appointed Professor of Aerospace Engineering at the University of Manchester in 1985, later becoming Head of the Department of Engineering. In 1995, he returned to Cranfield as Head of the College of Aeronautics. He is a Past President of RAeS.*

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**RAeS Hamburg Branch**  
**VDI, Arbeitskreis L&R Hamburg**

<http://hamburg.dglr.de>  
<http://www.raes-hamburg.de>  
<http://www.vdi.de/2082.0.html>

und  Luftfahrtstandort  
Hamburg  
<http://www.luftfahrtstandort-hamburg.de>

Der Besuch der **Veranstaltung ist steuerlich absetzbar**. Bringen Sie dazu bitte eine ausgefüllte Teilnahmebestätigung zur Unterschrift zum Vortrag mit. Mittels **E-Mail-Verteilerliste** wird über aktuelle Veranstaltungen informiert. **Vortragsunterlagen** vergangener Veranstaltungen, aktuelles **Vortragsprogramm**, Eintrag in E-Mail-Verteilerliste, Vordrucke der Teilnahmebestätigung: Alle Services über die Internetseite zur gemeinsamen Vortragsreihe von DGLR/VDI/RAeS/HAW: <http://hamburg.dglr.de> .