

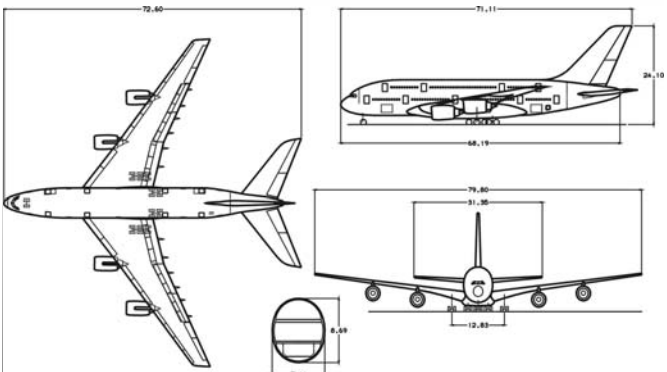


**Deutsche Gesellschaft für Luft- und Raumfahrt  
Lilienthal Oberth e.V.**



## **Short Course Aircraft Design**

**Berlin, Germany, 11. – 14. September 2007**



<http://www.ceas2007.org/shortcourse.php>

## TARGET DELEGATES

The DGLR Short Course is arranged for graduated engineers, equivalent professionals and/or managers. It is likewise suitable for specialists in search of a broader perspective as for newcomers to the field.

## AIM

The Short Course gives an insight into the procedures and the multidisciplinary interactions of aircraft conceptual design. The process of iterative synthesis and analysis in aircraft design is illustrated. A software tool for preliminary sizing is demonstrated. Methods and data to enable case studies of subsonic aircraft design are provided.

## CONTENT

The Short Course Aircraft Design will cover following topics:

- Introduction
- Development Process
- Requirements
- Certification Standards
- Aircraft Configurations
- Engine Integration
- Preliminary Sizing
- Fuselage Design
- Wing Design (including High Lift)
- Empennage Design
- Landing Gear Design and Integration
- Design Evaluation / DOC
- Military Aircraft Development

## LEARNING OBJECTIVES

On completion of the Short Course, delegates will

- know aircraft design parameters and methods
- know the fundamental relationship of aircraft design parameters
- be able to size and design an aircraft to the detail as covered during the Short Course have a capability to structure aircraft design activities systematically and efficiently.

## COURSE LEADER

**Prof. Dr.-Ing. Dieter Scholz**, MSME, Department of Automotive and Aeronautical Engineering, Faculty of Engineering and Computer Science, Hamburg University of Applied Sciences and Leader of the DGLR Specialist Committee Manned Aircraft. <http://www.ProfScholz.de>.

## COURSE INSTRUCTORS

### **Professor Erhard Rumpler**

Professor at FH Munich for aircraft design

### **Prof. Dr.-Ing. Dieter Schmitt**

Nominated Professor (Ordinarius) at the Institute of Aerospace at the Technical University in Munich/Germany, (Chair for Aeronautical Engineering). Airbus Vice President "Research & Future Projects" (retired)

### **Prof. Dr.-Ing. Dieter Scholz, MSME**

Professor at Hamburg University of Applied Sciences. Teaching and research in the area of Aircraft Design, Flight Mechanics, Aircraft Systems.

### **Prof. Dr.-Ing. Jürgen Thorbeck**

Professor TU Berlin, Institute of Aeronautics and Astronautics; Senior Manager Fleet Development Deutsche Lufthansa (retired)

### **Dipl.-Ing. Hannes Ross**

Lecturer at the Technical University in Munich and the Bundeswehrrakademie in Mannheim; Vice President Advanced Design & Technology EADS Military Air Systems (Retired)

## VENUE

Estrel Hotel, Berlin

## COSTS

The costs for the DGLR Short Course will be 650 € The fee includes coffee/tea and biscuits during the breaks, participation at the Parliamentary Evening on Tuesday, 11th, September and the Conference Dinner of the 1st European Air and Space Conference on Wednesday, 12th September. The DGLR will sponsor the participation for students. Therefore a limited number of students may register for the reduced fee of 99 € excluding the Conference dinner.

The registration form you will find on:  
[www.ceas2007.org/shortcourse.php](http://www.ceas2007.org/shortcourse.php)

Tuesday, 11 September, Day 1

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Space Agencies (Plenary Forum of CEAS Conference)

Introduction, Development Process D. Schmitt  
Requirements, Certification  
Standards

A380 (Plenary Forum of CEAS Conference)

Preliminary Sizing D. Scholz

Wednesday, 12 September, Day 2

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ATM (Plenary Forum of CEAS Conference)

Fuselage Design E. Rumpler  
Wing Design D. Scholz

Bologna Process (Plenary Forum of CEAS Conference)

Landing Gear Design E. Rumpler  
Empenage Design D. Scholz

Thursday, 13 September, Day 3

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Space Technology (Plenary Forum of CEAS Conference)

Configuration E. Rumpler

Aeronautics Technology (Plenary Forum of CEAS Conference)

Design Evaluation J. Thorbeck

Friday, 14 September, Day 4

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Military Aircraft Development H. Ross

**CERTIFICATE**

**After successful participation of the DGLR Short Course each delegate will receive a DGLR certificate signed by the president of the DGLR Prof. Dr.-Ing. Joachim Szodruch and Course Leader Prof. Dr.-Ing Dieter Scholz, MSME.**