



 **ACARE**
Advisory Council for Aeronautics Research in Europe
Human Resource Group (AHRG)

Status: 25/01/2010

**Workshop on Education and Training of Engineers and
Researchers in Aeronautics for Europe**

"Developing the Aeronautics Engineering Skills of Tomorrow"

On Thursday, 25th February 2010

At the European Commission DG Research, Building CDMA,
Rue du Champ de Mars 21, 1050 Brussels

Workshop Objectives:

In the view of the changing boundary conditions for the European aviation sector, education and training of aeronautical engineers and researchers has to be adapted to the requirement of the aeronautics sector including industry, research, operators and public authorities.

The workshop aims to review the situation in Europe concerning the education of future academics and engineers and to identify needs for actions and inputs for the envisaged new Vision for Aeronautics and a related update of the Strategic Research Agenda of ACARE.

This Workshop is organised by the ACARE Human Resource Group (AHRG) in collaboration with

- the European Commission, DG Research
- the ACARE Member States Group,
- the EASN Association,
- PEGASUS and
- the European Aeronautics ERA-Net AirTN – FP7

Draft Programme

8h30 **Registration**

9h00 ***Opening Session***

Welcome by Prof. Joachim Szodruch, Co-chairman ACARE

Keynote Address by Dr. András Siegler, Director DG Research-H Transport

Workshop Introduction by Prof. Spiros Pantelakis, Chairman ACARE HRG

9h30 **Session 1: Industry view on the qualifications of future engineers**

Industrial requirements to future aerospace engineers

Yves Favennec, Vice-President Research & Innovation, Eurocopter S.A.S.

Aerospace engineers between innovative ideas and industrial constraints

Dr. Norbert Arndt, Director Engineering, Rolls-Royce Deutschland



- 10h15** **Session 2: Ensuring the education quality of future aerospace engineers**
Working Title: Standards and Guidelines for Quality Assurance in the European Higher Education Area
N. N., Representative of the European Association for Quality Assurance in Higher Education (ENQA)
Working Title: How to attract the young generation for aerospace engineering
Prof. Carsten Holze, Hochschule Bremen and DGLR/ CEAS
- 11h00** **Coffee break**
- 11h30** **Session 3: University Education for Aerospace Engineers in Europe**
How to assure the education quality of future European aerospace engineers - Reflections in hindsight on two earlier EC/ ACARE studies on education and accreditation
Prof. Jan van Ingen, emeritus TU Delft
10 Years PEGASUS - European Group of Aerospace Universities – Goals and Achievements for Aerospace Engineering Education
Prof. Pascal Bauer, ENSMA Poitiers and Chairman of PEGASUS
Working Title: Universities' role in the life-long learning process
N.N., Directorate of DG Education & Culture, European Commission (t.b.c.)
ECATA – European Initiative for Advanced Training in Aerospace
Prof. Alain Lacombe, ISAE Toulouse and ECATA Administrator
- 13h00** **Sandwich Lunch**
- 14h00** **Session 4: Meeting the Future Requirements in Aeronautics**
Qualification criteria for future engineers in aerospace industry
Joachim Sauer, Vice President Human Resources, Airbus Operations GmbH
Researchers of tomorrow – qualifications and knowledge profile
Fred Abbink, former Director General, NLR
Adapting the changing requirements to the education of aerospace engineers
Prof. Rolf Henke, RWTH Aachen
- 15h15** **Coffee break**
- 15h45** **Panel Discussion:**
"University Contributions to the Update of the European Aeronautics Vision"
Introduction to the panel discussion and Panel Moderator:
Prof. Joachim Szodruch, Co-Chairman ACARE
Panel discussion on future needs and actions with representatives of universities, industry, research centres and European Commission

General Discussion with audience

Summary by the Panel Moderator
- 17h00** **Closing Statement**
Prof. Spiros Pantelakis, Univ. Patras and Chairman ACARE HRG