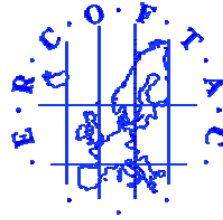




6th International Congress on
Industrial and Applied Mathematics

2007 in Zürich



European Research Community
On
Flow Turbulence
And
Combustion

Industry Day

Numerical Optimization for Industrial Aircraft Design

Organizer: Nicolas Gauger, DLR Braunschweig & HU Berlin

Co-Organizers: Klaus Becker, Airbus Bremen, Norbert Kroll, DLR Braunschweig

The industry day is organized by the Pilot Center Germany North of ERCOFTAC and aims to bring together research scientists from universities, research institutes and industry that work in the field of aerodynamic shape optimization. The requirements for practical shape optimization will be worked out, new solution approaches and optimization tools from research institutes will be presented in conjunction with innovative ideas from the forefront of mathematical research at universities. Particular attention will be paid to the fact that aerodynamic shape optimization is a part of a larger, multi-disciplinary design process.

Wednesday, 18 July 2007

Room: HG F 30 (AudiMax)

11:15 – 13:15 1st Part:

11:15 **Murray Cross**, Airbus, UK

Numerical Optimization for Industrial Aircraft Design at Airbus

11:55 **Phillipe Rostand**, Dassault Aviation, France

Status and Challenges of Aeroshape Design of Future Aircrafts

12:35 **Herbert Rieger**, EADS Military Air Systems, Germany

Experiences in Aerodynamic Shape Optimization at EADS - MAS

15:45 – 17:45 2nd Part:

15:45 **Volker Schulz**, Univ. Trier, Germany

Novel Techniques for Aerodynamic Design Optimization

16:25 **Bijan Mohammadi**, Univ. Montpellier II, France

Theory and Practice of Optimal Shape Design for Fluids

17:05 **Joachim Gwinner**, UniBW München, Germany

Coupling of Sizing Optimization and Topology Optimization for Industrial Aircraft Design