Facts and Figures about NACRE

- Start date of contract: 1st April 2005
- Duration: 48 months
- Budget: 30.3 million Euros
- European Community funding: 16.9 million Euros
- Number of partners: 36

The Consortium at a glance

The Coordinator

AIRBUS S.A.S
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BELLONTÉ
31707 BLAGNAC CEDEX – FRANCE
# NACRE Advisory Group (NAG) Members

<table>
<thead>
<tr>
<th>Organisation</th>
<th>First Name</th>
<th>Surname</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman of the NAG</td>
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The NAG is made up of 17 members:
- 7 from Universities
- 10 from Research Establishments

They represent a large panel of specialists covering all the different issues addressed in NACRE.

The Technical Committee of the Conference is formed by the members of this NACRE Advisory Group, chaired by Laurent Dala. To that respect, the NAG supports the scientific organization of the NACRE Conference.
Logistic Programme

Tuesday 8th July

18:00 – 21:00 Registration & Cocktail Reception  
Queen Anne Court, 1st floor Circulation Area

Wednesday 9th July

08:00 – 08:30 Registration  
King William Court, 3rd floor Assembly Space

08:30 – 10:00 Welcome & Opening

10:00 – 10:30 Coffee break

10:30 – 12:30 Session 1

12:30 – 14:00 Lunch  
Queen Anne Court, 1st floor Circulation Area

14:00 – 16:00 Session 2

16:00 – 16:30 Coffee Break

16:30 – 18:00 Session 3

19:30 – 22:00 Conference Dinner  
Painted Hall

Thursday 10th July

08:00 – 08:30 Registration  
King William Court, 3rd floor Assembly Space

08:30 – 10:00 Session 4

10:00 – 10:30 Coffee break

10:30 – 12:00 Session 5

12:00 – 12:30 Conference Wrap-up
**Technical Programme**

**Wednesday 9th July**

08:00 – 08:30  **Registration** – *King William Court, 3rd floor Assembly Space*

08:30 – 10:00  **Welcome & Opening** – *King William Court, 3rd floor, Room 315*

08:30 – 08.45

**Welcome address:** Edwin Galea, Director Fire Safety Engineering Group, University of Greenwich – UK

08:45 – 09:15

**Keynote address:** Joachim Szodruch, Chairman of ACARE, DLR – Germany

09:15 – 09:45

**NACRE Highlights:** João Frota, NACRE Project Coordinator, Airbus – France
Eric Maury, Strategy and Future Programmes, Airbus – France

09:45 – 10:00

**Conference Objectives:** Laurent Dala, Chairman of the NACRE Advisory Group – UK

10:00 – 10:30  **Coffee Break**

10:30 – 12:30  **Session 1** – *King William Court, 3rd floor, Room 315*

**Chairman: TBD**

10:30 – 11:00  Market Opportunities for Green Aviation Operations (*TBC*)
Philippe Jarry, Head of Strategic Marketing, Airbus – France

11:00 – 11:30  Airline Drivers for Future Aircraft Designs (*TBC*)
Hal Calamvokis, Strategic Planning Manager, easyJet Airline Co. Ltd – UK

11:30 – 12:00  Novel Aircraft Concepts
João Frota, NACRE Project Coordinator, Airbus – France

12:00 – 12:30  An Innovative Evaluation Platform for New Aircraft Concepts
Peter Schmollgruber, Long Term Design & Systems Integration, ONERA – France

12:30 – 14:00  **Lunch** – *Queen Anne Court, 1st floor Circulation Area*
# Technical Programme

**Wednesday 9th July**

**14.00 – 16.00 Session 2 – King William Court, 3rd floor, Room 315**

**Chairman: TBD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Unconventional Aircraft Configurations (TBC)</td>
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<tr>
<td>14:30</td>
<td>Novel Lifting Surfaces</td>
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<tr>
<td>15:00</td>
<td>Hybrid Layout Proposal for the High-Passenger Capacity Aircraft</td>
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<tr>
<td>15:30</td>
<td>Flight Test of the BWB X-48B</td>
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Ilan Kroo, Department of Aeronautics & Astronautics, Stanford University – USA

Kevin Nicholls, Wing & Landing Gear Architect, Airbus – UK

Anatoly Bolsunovsky, TsAGI – Russia

Bob Liebeck, BWB Program Manager, Boeing Phantom Works – USA

**16:00 – 16:30 Coffee break**

**16.30 – 18.00 Session 3 – King William Court, 3rd floor, Room 315**

**Chairman: TBD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Greener by Design (TBC)</td>
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<tr>
<td>17:00</td>
<td>Novel Powerplant Installations</td>
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<tr>
<td>17:30</td>
<td>NACRE Wind Tunnel Test Campaign Dedicated to New Aircraft Concepts Study</td>
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</table>

John Green, Chairman of Science & Technology Sub-Group, Greener by Design – UK

John Whurr, Future Programmes Engineering, Rolls Royce – UK

Sebastien Aeberli, Acoustics Department, Snecma – France

**18:00 – 22:00 Conference Dinner – Painted Hall**
## Technical Programme

### Thursday 10th July

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>08:00</td>
<td>Registration</td>
<td>King William Court, 3rd floor Assembly Space</td>
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<tr>
<td>08:30</td>
<td>Session 4</td>
<td>King William Court, 3rd floor, Room 315</td>
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**Chairman: TBD**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Novel Fuselage Concepts</td>
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<tr>
<td>09:00</td>
<td>Improvement of Civil Airframes – Modern Trends and Directions</td>
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<tr>
<td>09:30</td>
<td>Structural Concepts of Passenger Driven Aircraft (TBC)</td>
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**Lars Fiedler, Structure Design, Airbus – Germany**

**Georgy Zamula, Deputy Director Structures, TsAGI – Russia**

**Joerg Nickel, Institute of Composite Structures and Adaptive Systems, DLR – Germany**

### 10:00 – 10:30 Coffee Break

### 10:30 – 12:00 Session 5 – King William Court, 3rd floor, Room 315

**Chairman: TBD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Design of Innovative Cabin Interiors (TBC)</td>
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<tr>
<td>11:00</td>
<td>Boeing and Cranfield University BWB Airplane Egress Study</td>
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<tr>
<td>11:30</td>
<td>Fire and Evacuation analysis in BWB aircraft configurations: Computer Simulations and a Large-Scale Experimental Study.</td>
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**Werner Granzeier, Department of Automotive Engineering and Aircraft Construction, University of Hamburg – Germany**

**Bruce Wallace, Evacuation Systems Engineering, Boeing – USA**

**Edwin Galea, Director Fire Safety Engineering Group, University of Greenwich – UK**

### 12:00 – 12:30 Conference Wrap-up

with Liam Breslin, Head of DG RTD Aeronautics Unit, European Commission – Belgium
General Information

**Host:**

**Address:**

Old Royal Naval College
30 Park Row
Greenwich – London SE10 9LS
England

**Point of Contact at UoG:**

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**NACRE Project Office:**

- Olivia Kensdale
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  - E-mail: Olivia.Kensdale@airbus.com
Travel Information

From Airports

**London City Airport:**
This is the closest airport to the University campus, via the Docklands Light Railway (DLR). From the airport, take the DLR towards Bank, change at Poplar for Cutty Sark. Coming out of the station, take left exit. The entrance to the University can be seen right ahead (approx. 20 min.). Alternatively you can call a minicab (Greenwich Car Hire, Tel. +44 (0)20 8858 6661, charges around £14 for the journey). Black taxis are more expensive.

**Heathrow Airport:**
The airport is on the London Underground, Piccadilly Line. A service runs every 5-10 min. into Central London. Take underground to Charing Cross or London Bridge then a train to Greenwich or Maze Hill from either of these railway stations (approx. 1h50). Alternatively, take underground to Canary Wharf via Piccadilly and Jubilee lines (changing at Green Park) then change to Docklands Light Railway (DLR) to Cutty Sark. Takes roughly the same time (1h50), but Cutty Sark is closest station to UoG.

**Gatwick Airport:**
Gatwick Airport has its own railway station. Take the “Thameslink” train to London Bridge (approx. 30 min.) and change at London Bridge for Greenwich or Maze Hill (another 15-20 min.).

From Central London

**By Tube**
The nearest Tube station to the university campus is North Greenwich. From that station take a 188 Bus to reach the campus. A better option is to use the DLR (see below).

**By Docklands Light Railway (DLR)**
Direct DLR services run from Bank, Canary Wharf & Lewisham to Cutty Sark Station which is the nearest to the Greenwich campus (just 2 min. walk).

**By Train**
Charing Cross, Cannon Street, Waterloo East & London Bridge all offer direct services (every 10 min. or every few minutes during rush hour) to Greenwich Station on the Dartford/Gravesend via Greenwich and Woolwich line. If you are travelling from Kent, alight at Maze Hill.

**By Road**
The A2 and the A20 provide access to Greenwich. The Blackwall Tunnel links Greenwich with the northern side of the Thames. However, due to the high levels of traffic in Greenwich and the very strict parking regulations in the area, visitors are advised to use public transport whenever possible.

Travel Card
You can travel cheaper after 9:30am, using a “Travel Card”. This card allows you to travel in London on trains, buses, underground and DLR for the entire day. Make sure however that you buy the correct card to cover the zones you are travelling in. Ask when you buy it at the station.

Black taxis are expensive. It is best to book a minicab. There is one minicab firm close to the University: Greenwich Car Hire, Tel. +44 (0)20 8858 6661.


Other useful links:
Plan your train journey: [http://www.railtrack.co.uk/](http://www.railtrack.co.uk/)
London map: [http://www.streetmap.co.uk/](http://www.streetmap.co.uk/)
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