

**“Schools Build a Plane” Challenge**  
17 December 2008



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**“Schools Build a Plane” Challenge**  
Keith Mans, Chief Executive, RAeS

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**“Schools Build a Plane” Challenge - Introduction**

- Opportunity for young people to build modern aircraft. Excellent educational (and enjoyable!) opportunity for many, students and teachers
- Run by the RAeS with generous financial support from Boeing
- Builds on successful “Build a Plane” projects
- The Challenge: The Royal Aeronautical Society
- Boeing role: Sir Roger Bone, President Boeing UK
- Questions and Answers





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**“Schools Build a Plane” Challenge**  
Royal Aeronautical Society

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**“Schools Build a Plane” Challenge - What is it?**

- Opportunity for a group of young people to build modern aircraft
- Opportunity to be flown in “their” aircraft
- Project that offers the builders practical experience in science, technology, engineering and mathematics
- Excellent educational opportunity for many other students and teachers
- Scope is much broader than the build

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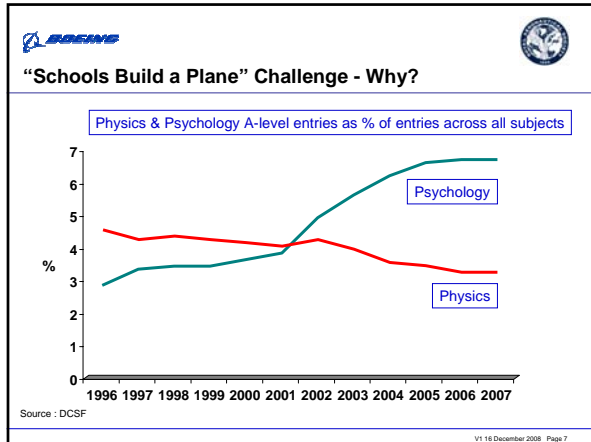
 

**“Schools Build a Plane” Challenge - Opportunities**

- Science, Engineering & Technology
- Mathematics
- Aeronautics
- Project and financial management
- Leadership and people management
- Publicity and communications
- Descriptive arts



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- “Schools Build a Plane” Challenge - Success criteria**
- Successful and timely aircraft build
  - Safe flying
  - 2000 people involved, learning and developing new skills
  - Encouragement and interest stimulated in technical and arts subjects
  - Aimed at students and teachers
  - Self-sustaining follow on projects

- “Schools Build a Plane” Challenge - How are we doing it?**
- Safely and professionally
  - Competition between schools
  - Schools will bid for involvement
  - Selection based on quality of response
  - Professional leadership and help will be provided during build
  - Availability of skilled help and other facilities
  - RAeS and Boeing committed to make this a success

**“Schools Build a Plane” Challenge - Target Timescales**


- Aircraft chosen	First ¼	2009
- Competition launched	January	2009
- Schools shortlisted	First ¼	2009
- Winner selected	Second ¼	2009
- Build commences	Mid-year	2009
- First flight	2009/10 School Year	
- Follow-on project starts	First ¼	2010

**“Schools Build a Plane” Challenge - Solid Foundation**

- Successful “Build a Plane” projects built by others
- “Spirit of Brooklands”
  - RANS S6-ES built by four groups in the North West
  - Flying since the summer of 2005
- “Spirit of Devon Youth”
  - X-Air Hawk has been built by four groups in Devon
  - First flight expected in early 2009



- “Schools Build a Plane” Challenge - Summary**
- Offers young people hands-on engineering opportunity
  - Significant educational opportunity for many students and teachers
  - Seeking involvement of 2000 young people
  - Stimulate interest in technological subjects
  - Vital as interest in engineering is dropping
  - Determined to make it a success
  - Your support and advice are essential to us



**“Schools Build a Plane” Challenge**  
 Sir Roger Bone, President, Boeing UK



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**“Schools Build a Plane” Challenge - Boeing Perspective**

- Industry has become increasingly global in nature
- Long term competitiveness of Boeing’s partners enables delivery of value and cutting edge capability
- 250 suppliers support numerous programmes such as C-17 and 787
- Boeing is a major investor in aerospace sector with around \$25 million per year to scientific and technological endeavour
- Boeing has a key interest in onshore skills and expertise with organisations such as the Institution of Engineering & Technology
- Company actively helps supply chain with Lean+, executive development, market access assistance (Department of Defense, Boeing and US supply chain)



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**“Schools Build a Plane” Challenge - Boeing Perspective**

- Boeing has long standing relationships with Cambridge, Sheffield and Cranfield Universities and technology partners such as QinetiQ
- Boeing is active in its communities with the Prince’s Trust XL clubs, the Green Corridor, Groundwork and the Marling School in Bristol
- Boeing attaches enormous importance to encouraging support for engineering education in the UK
- The company will support the project with mentors of various operational and technical backgrounds



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**“Schools Build a Plane” Challenge - How you can help**

- Spread the word
- Encouragement
- Advice
- Guidance
- Views
- We are keen to hear your thoughts on how we can make this project as successful as possible
- Email [buildaplane@aerosociety.com](mailto:buildaplane@aerosociety.com)

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**“Schools Build a Plane” Challenge**  
 Q&A

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