



# Maintenance Engineering Training

## Meeting future airworthiness challenges

Wednesday 5th – Thursday 6th September 2007

Royal Aeronautical Society, No.4 Hamilton Place, London W1J 7BQ, UK

Premier Sponsor



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Lufthansa Resource  
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### SYNOPSIS

**This two-day international Conference will examine the challenges in ensuring that maintenance personnel are equipped for future airworthiness demands in fixed and rotary wing, civil and military aviation. It will include a wide range of presentations by leading experts drawing upon recent research, together with participatory workshops, with a view to determining how the issues might best be resolved and how the RAeS might help facilitate progress.**

The Conference will examine the forecast shortfall of licensed maintenance engineers and technicians worldwide, training school output standards, and selection tools and processes. It will address the skills sets and techniques needed for tomorrow's maintenance tasks, the use of new materials, notably composites, and whether training tools are optimised for future needs. The impact of on-board diagnostics, health management systems and built-in test will also be discussed.

National regulatory requirements also place demands on training systems and strategies, especially with opportunities in the emerging world, and 'point of need' training and performance-based training systems may require changes to current philosophies. Remuneration varies considerably, especially in general and light aviation, and this distorts supply and demand.

Delegates are expected from all sectors of the industry and this Conference presents a unique opportunity that should not be missed.

- Special rates for maintenance personnel under 30
- Workshop weblog to start the debate
- Limited numbers – book early!

### THE RAeS

The Royal Aeronautical Society is the focal point for today's global aerospace community. Founded in 1866 to further the art, science and engineering of aeronautics, the Society has been at the forefront of developments in aerospace ever since.

Supported by



**Register early to avoid disappointment**

Register on-line at [www.aerosociety.com/conference](http://www.aerosociety.com/conference)

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### DAY ONE: Wednesday 5th September 2007

08.30	Registration and Coffee	12.50	Lunch
09.00	<b>Opening Remarks</b> David Marshall, <i>President, Royal Aeronautical Society</i>		<b>Session 3: Future Training Strategies and Standards</b> Chairman: Jim Rainbow, <i>Chairman, Airworthiness &amp; Maintenance Group, Royal Aeronautical Society</i>
09.10	<b>Keynote Addresses: Maintenance Engineering Training: Meeting Future Airworthiness Challenges</b> General A Fraser, <i>Commander, Royal Australian Army Helicopter Command, Australia</i>	13.50	<b>6</b> Aeronautical Engineering Training in the Armed Forces - A Partnered Solution Air Cdre Neil Gammon, <i>Commandant Defence College of Aeronautical Engineering, RAF Cosford, UK</i>
09.25	Mark Wilson, <i>Chief Executive, British Business and General Aviation Association &amp; President of the European Council of General Aviation Support</i>	14.15	<b>7</b> Gateway to the Aircraft Maintenance Professions Stephen Barnes, <i>Principal Lecturer - Field Leader Aircraft Engineering, Kingston University, UK</i> Ray Flower, <i>Training Manager, KLM UK Engineering Ltd, UK</i>
09.40	Ian Taverner, <i>UK Business Unit Leader, CHC Helicopters</i> <b>Session 1: The Operators' Requirements</b> Chairman: Lee Balthazor, <i>Chairman, General Aviation Group, Royal Aeronautical Society</i>	14.40	<b>8</b> Engineer Type Training John Nicholas, <i>Head of PLD Approvals &amp; Engineer Licensing, Civil Aviation Authority, UK</i>
09.55	<b>1</b> A General Aviation Perspective of Maintenance Training John Eagles, <i>Technical Chairman, Association of Licensed Aircraft Engineers, UK</i>	15.05	Tea – sponsored by AgustaWestland <b>Session 4: Human Factors</b> Chairman: Gp Capt Andy Ebdon, <i>Human Factors Group, Royal Aeronautical Society</i>
10.20	<b>2</b> Royal Navy Air Engineering Training to Support Operations Lt Cdr Adrian Balhetchet, <i>Senior Aircraft Engineer, Commando Helicopter Force, UK</i> Lt Cdr Chris Ling, <i>Initial Training Group Officer, Royal Navy Air Engineering and Survival Equipment School</i>	15.30	<b>9</b> Human Factors Training for Maintenance Supervisors - Leading Safety Dr John Huddleston, <i>Research Fellow, Department of Human Factors &amp; Safety, Cranfield University, UK</i>
10.45	Coffee – sponsored by AgustaWestland <b>Session 2: Challenges Resulting from Aircraft Design</b> Chairman: Andrew McClymont, <i>Airworthiness &amp; Maintenance Group, Royal Aeronautical Society</i>	15.55	<b>10</b> An HFACS Analysis of Maintenance-Related Accidents in U.S. Commercial & General Aviation Dr Albert Boquet, <i>Department Chair, Human Factors &amp; Systems, Embry-Riddle Aeronautical University, USA</i>
11.10	<b>3</b> Innovations and Current Tendencies in Aircraft Maintenance Training Philippe Beaulieu, <i>Head of Maintenance Training, Airbus, France</i>	16.20	<b>11</b> Issues of Corporate Governance in Aircraft Maintenance Brian Ayling, <i>Head of Continuing Airworthiness, Tornado/ATTAC, BAE Systems TBC</i>
11.35	<b>4</b> 787 Maintenance Training - A Synergy Between Training and Performance Support Jeff Haber, <i>Manager 787 Dreamliner Maintenance Training, Commercial Aviation Services, Boeing Commercial Airplanes, USA</i>	16.45	<b>12</b> Engineers' Continuation Training - Adding value or ticking boxes? Keven Baines, <i>Managing Director, Baines Simmons Limited, UK</i>
12.00	<b>5</b> A Helicopter Manufacturer's Maintenance Support Perspective Malcolm Strange, <i>Training Development Manager, AgustaWestland UK</i>	17.10	<b>Discussion on Sessions 3 &amp; 4</b> Chairman: Gp Capt Andy Ebdon, <i>Human Factors Group, Royal Aeronautical Society</i>
12.25	<b>Discussion on Sessions 1 &amp; 2</b> Chairman: Andrew McClymont, <i>Airworthiness &amp; Maintenance Group, Royal Aeronautical Society</i>	17.30	Evening Reception – sponsored by CAE Inc

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### DAY TWO: Thursday 6th September 2007

08.30	Registration and Coffee	12.50	Lunch – sponsored by Lufthansa Resource Technical Training
09.00	<b>Opening Remarks</b> Gp Capt Peter Barrett, <i>Learned Society Board Member, RAeS &amp; Conference Chairman</i>		<b>Session 7: Can Technology Provide Solutions?</b> Chairman: Eur Ing Alex Lever, <i>Head of Human Performance Improvement, VEGA Group plc, UK</i>
09.15	<b>Keynote Address - FAA versus CAA:</b> Taking the randomness out of regulations Lembit Öpik, <i>Member of Parliament, Liberal Democrats, UK</i>  <b>Session 5: Change Drivers and Future Prospects</b> Chairman: John Burt, <i>Rotorcraft Group, Royal Aeronautical Society</i>	13.50	<b>16</b> Just In Time Training: The Boeing 'Toolbox' Electronic Performance Support System William Ahl, <i>Technical Fellow, Boeing Commercial Airplanes, USA</i>
09.30	<b>13</b> A Historical Perspective of Engineering Maintenance Training Dr Peter Mason, <i>Dean, Faculty of Engineering, Kingston University, UK</i>	14.15	<b>17</b> Web-based Emulations for Mobile and Distributed Maintenance Training Dr Martin Frühauf, <i>Operations Manager Defence, VEGA IT GmbH, Germany</i>
09.55	<b>14</b> A Civil Aviation Operator's Perspective Christophe Meyerrose, <i>Managing Director, Lufthansa Technical Training GmbH, Germany</i>	14.40	<b>18</b> A New Approach to Training Effectiveness: The Integrated Maintenance Training System Bill Griffis, <i>Senior Training Development Officer, Atlantis Systems International, Inc</i> Gord Coulman, <i>Training Support Officer, Department of National Defence, Canada</i>
10.20	Coffee  <b>Session 6: Opportunities for Young Engineers and Technicians</b> Chairman: Ludovic Forrer, <i>Chairman, Young Members' Board, Royal Aeronautical Society</i>	15.05	<b>19</b> Maintenance Crew Training: Meeting Tomorrow's Challenges Michele Asmar, <i>Director Integrated Training Solutions, CAE Inc</i>
10.50	<b>15</b> Young Engineers' Experiences Andrew Atkinson & Jon Rich, <i>Flight Engineering Services, QinetiQ</i>	15.30	<b>Discussion on Session 7</b> Chairman: Eur Ing Alex Lever, <i>Head of Human Performance Improvement, VEGA Group plc, UK</i>
11.15	<b>Workshop One</b> <b>Group A</b> Training Programmes and Delivery <b>Group B</b> Ongoing Education and Career Development	15.55	Tea  <b>Session 8: The Way Ahead</b> Chairman: Capt David Rowland, <i>Chairman Learned Society Board, Royal Aeronautical Society</i>
11.45	<b>Workshop Two</b> <b>Group A</b> Ongoing Education and Career Development <b>Group B</b> Training Programmes and Delivery	16.20	Open Forum and Proposals for Resolutions for Further Work Royal Aeronautical Society Panel
12.15	<b>Plenary Session &amp; Discussion on Sessions 5 &amp; 6</b> A two-minute report from each workshop followed by open discussion Chairman: Ludovic Forrer, <i>Chairman, Young Members' Board, Royal Aeronautical Society</i>	16.45	Close of Conference

Thursday 6th September



### SECRETARIAT

#### Conference & Events Department Royal Aeronautical Society

No.4 Hamilton Place

London W1J 7BQ, UK

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Email: [conference@raes.org.uk](mailto:conference@raes.org.uk)

www: <http://www.aerosociety.com/conference>

### VENUE

#### Royal Aeronautical Society

No.4 Hamilton Place

London W1J 7BQ, UK



### HOW TO GET THERE

**Underground:** Nearest stations are Hyde Park Corner, Green Park and Marble Arch.

**By Bus:** Routes 2, 8, 9, 10, 14, 19, 22, 30, 36, 38, 52, 73 and 74 all stop at Hyde Park Corner.

### PARKING

Car parking spaces can be found at either the Intercontinental Hotel (Congestion Charge applies) or the NCP Underground Car Park on Park Lane.

### ACCOMMODATION

The Chesterfield Mayfair Hotel is our appointed hotel partner located five minutes walk from the Royal Aeronautical Society. A four star deluxe hotel offering Royal Aeronautical Society discounted rates. To book call the Chesterfield on +44 (0)20 7958 7729 or email [bookch@rchmail.com](mailto:bookch@rchmail.com) quoting Royal Aeronautical Society for preferential rates.

### PROCEEDINGS

Proceedings from this event are free to delegates. If you are unable to attend and would like to purchase a copy, then additional copies can be purchased from **Royal Aeronautical Society**, No.4 Hamilton Place, London W1J 7BQ, UK  
Tel: +44 (0)20 7670 4345  
Fax: +44 (0)20 7670 4349  
Email: [conference@raes.org.uk](mailto:conference@raes.org.uk)

### SPONSORSHIP & EXHIBITION

Please contact the Conference & Events Department for details on exhibiting, sponsorship and insertion of information into delegate packs.

### DISABILITY ACT 2004

The Royal Aeronautical Society is now fully compliant with the above. Ramps are available to help delegates gain access to the building and the lecture theatre. A wheelchair access toilet is available on the ground floor.

### CANCELLATIONS

Substitutions may be made up to the day of the conference - please notify the Conference & Events Department in writing of name changes as soon as possible. If no substitute can be found for the delegate unable to attend, cancellations must be notified in writing to the Conference & Events Department. The following fees will then apply:

- **More than 14 days notice**  
25% of registration fee (ie. 75% refund)
- **14 days or less notice**  
50% of registration fee (ie. 50% refund)
- **5 days or less and Non-attendance**  
100% of registration fee (ie. No refund)