RAeS Rotorcraft Group Conference 2016

The Automated Rotorcraft: Short, Mid and Long Term Solutions
6-7 July 2016

Experts from across the helicopter industry gathered together to discuss the most important near, medium and long-term actions that would ensure effective use of automation in rotorcraft.

The group discussed the use of automation not as an end in itself, but as a means to help achieve a greater purpose, including helping to fulfil human potential.

Throughout the two days, experts looked at this issue from a variety of perspectives; designers, regulators, operators, trainers and procedural developers for onshore, offshore and military helicopter operations. We also learned from other industries, such as gaming and also academia.

Overall, there was consensus around a number of areas where we could improve the efficient use of automation to help create an effective human and machine partnership.

Below you will find a list of recommendations that came out of the conference on how this might be achieved:

- Enhancing Operational Mission Requirements;
- Creating an effective human-machine partnership;
- Intuitive design, including lessons learned from games and industrial design;
- Early involvement of end user's in the design process;
- Effective design and use of procedures, including Flight Crew Operations Manuals;
- Modern training methods, including Evidence Based Training;
- Key technologies for safety – for example, upgrades to the Helicopter Terrain Avoidance Warning Systems;
- Use of optionally piloted vehicles and Crew Resource Management between humans and machines;
- Certification which considers operational, functional, and human/machine performance;
- Importance and need for collaboration and feedback.

The Royal Aeronautical Society has produced an informative summary of the topics discussed at the conference, where you can also access some of the presentations.

You can also access all the conference material via the Royal Aeronautical Society conference portal. If you are asked to log-in, the username and password are both **TAR2016**.

We hope you find this useful, and if you have any questions for us at HeliOffshore, please email us at info@helioffshore.org.