interview - between two worlds

Envisioning the future of air transport means thinking with creativity and imagination while maintaining a high degree of scientific accuracy, says Bauhaus Luftfahrt Executive Director Mirko Hornung.

high-speed helicopter

Codenamed Racer Airbus’ demonstrator rotorcraft will incorporate a host of innovative features, optimised for a cruise speed of more than 400 km/h. It will aim at achieving the best trade-off between speed, cost-efficiency, sustainability and mission performance. Final assembly of the demonstrator is expected to start in 2019.

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cutting NOx emissions 22
The emission regulations for diesel engines are becoming increasingly stricter worldwide, which makes modifications to the engines and exhaust systems necessary.

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A new twist on airplane wing design

giant balloons 38
Researchers in Greenland are using massive balloons to construct tunnels for the East Greenland Ice-Core Project.

the queensferry crossing 42
Much has changed over the last two plus decades that foreigners have been coming to Russia to do business. Clients are rarely expected to conduct numerous vodka toasts to prove that they are a trustworthy partner, and business deals are no longer signed in the banya (Russian sauna). That said, there are still a number of things that one should keep in mind before entering a boardroom or making business contacts in Russia.

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**technology**

**basics**
Creating lift: The wings of birds were the original inspiration for the design of aerofoils. In order to create lift, the shape of the aerofoil causes air to flow faster on top than on bottom to decrease the surrounding air pressure. Because the air pressure is greater below the airfoil than above, a resulting lift force is created.

**technical dictionary**
Project Management

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**worldwide**

**topic**
Effective workplace communication skills: Practicing effective communication skills in the workplace can help create a more positive environment.

**travel**
Northern Ireland: It has often had to play second fiddle to its southern neighbour, but Northern Ireland offers a diversity of attractions that frequently confounds first-time visitors.

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**language**

**business**
The modern workplace

**common mistakes**
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**idiomatic english**
Flowery language

**phrases**
Looking into the future: Tenses to express future events

**advanced learners**
Instant solutions for emails

**small talk with friends**

**crossword**