



**AVIATIONWEEK**  
& SPACE TECHNOLOGY

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**THE TRUMP ERA**

 **20 What to watch** in aviation, aerospace and defense under a new U.S. administration

**22 European leaders** wonder which Trump posturing will become policy and which will fade away

**DEFENSE**

**24 U.S. Air Force F-35s** prepare for first overseas deployment as part of theater security package in 2017

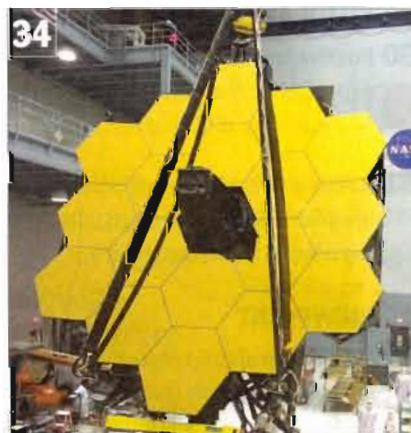
 **26 Raytheon demos** high-power microwave technology that could reduce military threat from drones

**41 RAF Eurofighter Typhoons** prevailed in exercise against Malaysian Flankers, UK says



**55**  
The U.S. Army has adopted the Future Airborne Capability Environment—aiming for avionics software portability between aircraft—for its Future Vertical Medium Lift mission system, whichever rotorcraft it selects.

**42 Turkey accelerates** arming of indigenous tactical UAVs, targeting Kurdish militants



**COMMERCIAL AVIATION**

**28 CFM assembly sites** are readying for an unprecedented production increase as Leap engine rates rise

**30 Safran's top priority** in moving the Leap engine program forward is to reduce supply chain costs

**31 Airbus A350 and Boeing 777X** may be stretched further, into ultra-high-capacity territory

**52 Faltering demand** and political uncertainty take a toll on profits of Emirates and Turkish Airlines

**SPACE**

**32 China's Casac** is moving into the launcher and propellant domains of sibling state group CASC

**34 Webb Telescope** will have grapple targets for in-space repair, but NASA does not plan to use them



**ON THE COVER**

Lockheed Martin Sikorsky's S-76B SARA autonomy testbed flies with a modified Cessna Caravan over the ground-station van at Poughkeepsie, New York, in a demonstration of advanced cockpit automation under DARPA's ALIAS program (page 57). Sikorsky photograph by Ted Carlson. Elsewhere in this issue are columns and analysis of the implications of Donald Trump's election as U.S. president (pages 13, 16, 18-22 and 66), a special report on the growing practice of hiring contractors to test the mettle of military pilots (page 36) and a look at a truly portable and reusable software developed for airborne applications (page 55).

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## MILITARY TRAINING

**36 New breed of aircraft collector** is training Air Force, Marine Corps and Navy combat pilots

**36 Fighter training** sites across the U.S. are pooling requirements for adversary-air support aircraft

**40 Germany and France** are leading the way in investing in commercial adversary air training



## ROTORCRAFT

**43 With Brazilian** upgrades under its belt, Helibras looks to collaborate with Airbus on more regional work

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**45 New bilateral** agreement opens more competition in Mexico, may free slots for low-fare carriers

**46 Many U.S.** carriers have opted to postpone initial flights to Havana, citing airport and training issues

## PROPULSION

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## TECHNOLOGY

**54 NASA looks** at anomalies to help researchers develop an unmanned aircraft traffic management system

**55 Avionics software** that is portable and reusable between aircraft platforms is now within reach

**57 DARPA program** aims to build pilots' trust in autonomy through cockpit assistance

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**60 Positive training** upgrades are expected by both U.S. Army and Navy despite differing flight needs

**61 Airbus and Boeing** develop palette of options to help avoid pitfalls that have led to airline tragedies

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