

AVIATION WEEK & SPACE TECHNOLOGY

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Winner 2013



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THE WORLD

- 8 **Southwest Airlines** updates its livery for first time since 2001 as part of a multifaceted brand campaign
- 10 **Expedition 40** returns to Earth from ISS, with the next Soyuz mission set to launch later this month
- 10 **Obituary for Noel W. Hinners**, a U.S. space scientist who helped explore the Moon, Mars and beyond

COMMERCIAL PROGRAMS

- 20 **Capacity is important**, say airlines as they increasingly look to squeeze more out of the single-aisle market
- 21 **Long 747-400** reign on intercontinental routes coming to an end, especially on transpacific flights



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Leaders of NATO member countries watch a military aircraft flyover during their summit meeting earlier this month. They also signed a plan to reverse defense cuts and meet alliance spending thresholds.

- 24 **Major 777X** supplier, Mitsubishi determined it won't be responsible for sending the program off course
- 26 **Bombardier resumes** CSeries light tests after a hiatus of more than 100 days following an engine failure

SPACE

- 27 **Prototype U.S.** 500,000-lb.-thrust replacement for Russia's RD-180 could be on test stand in 2.5 years
- 30 **Space industry** sees little impact from Western tensions with Russia as seen in RD-180 deliveries

DEFENSE

- 31 **NATO moving** to establish a high-readiness force that can deploy anywhere on the globe in 2-5 days

- 32 **Narrowing polls** in Scottish independence referendum prompt concerns over U.K. defense
- 52 **U.S. defense forces** conduct classified exercises on how to counter threats from UAVs

ROTORCRAFT

- 34 **Airbus Helicopters** restarting its product-line renewal, beginning with first prototype of the EC135

AIR TRANSPORT

- 35 **Coming late** to the low-fare market, Air France-KLM and Lufthansa are preparing to take risks
- 36 **European and African** airlines could be the first to test a conflict-zone warning database in October



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36 Safety upgrades could be on tap after NTSB's report on preventing crashes after unstable approaches



38 In a major boost for Emirates, Dubai plans to increase its airports' capacity substantially



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39 Turkish Airlines copes with rapid passenger volume growth as it grapples with airport constraints

40 Design of new Mexico City airport stands for crossroads, hubs and investment in aviation infrastructure

AIRPOWER

42 USAF hopes to field the first four new Joint Stars aircraft in fiscal 2022, using 737 or G550 as the platform

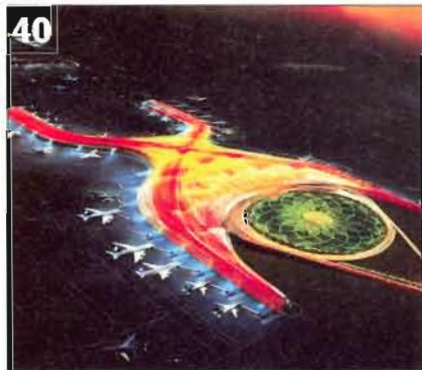
47 Russia developing its first new bomber since 1977, while China's system would be its first indigenous bomber

BUSINESS

52 Russia-Ukraine conflict heightens A&D concerns over titanium, and there seems to be no relief in sight

VIEWPOINT

58 There is no pilot shortage but will be one unless pay and benefits meet training and experience



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