

DEPARTMENTS

EDITOR'S NOTEBOOK

Relying on Russia

INTERNATIONAL BEAT

Aerospace outsourcing; Russian-Chinese airliner

IN BRIEF

Naval missile interceptor; NGA seeks new recruits; lasers comm

PROPULSION & ENERGY 2015

Highlights from the forum in Orlando

THE VIEW FROM HERE

Planetary defense

CONVERSATION

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BOOKS

An airline pilot enchanted by flight

OUT OF THE PAST

CAREER OPPORTUNITIES

FEATURES

VIEWPOINT: TWO VIEWS ON RUSSIAN SPACE

A spate of Russian launch failures and fiscal mismanagement has stirred angst from the Kremlin to Congress. Two space experts provide divergent opinions.

by *Anatoly Zak and James Oberg*

SAFER EJECTION SEATS

Ejecting from a warplane has always been hazardous, but many pilots face more danger because their ejection seats weren't designed to accommodate modern helmets. A solution may be at hand.

by *Keith Button*

TUBE-AND-WING: WHAT'S NEXT?

Since the dawn of jet travel in the 1950s, the basic configuration of airliners has barely budged. The tube-and-wing design won't become a relic anytime soon, but that doesn't mean engineers can't make progress toward quieter, more fuel-efficient aircraft.

by *Michael Peck*

REUSABLE ROCKET RENAISSANCE

Attempts to build spacecraft that can be flown more than once are littered with failures. Led by SpaceX, the commercial launch industry is trying again to find ways to reuse engines, stages and perhaps someday the entire vehicle by reassembling it after launch.

by *Debra Werner*

BULLETIN

AIAA Meeting Schedule

AIAA News

ON THE COVER

International Launch Services Proton rocket. Photo illustration by Jane Fitzgerald and John Bretschneider

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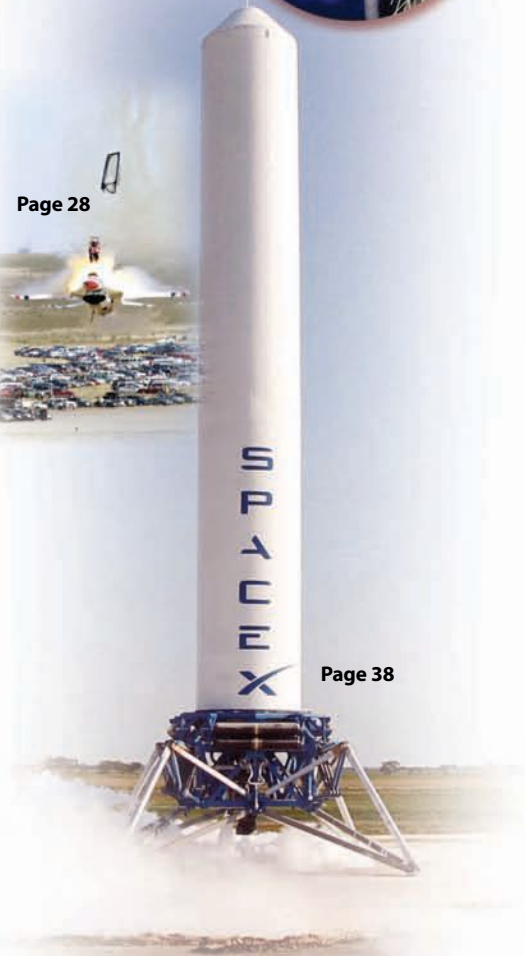
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