

# AVIATION WEEK

## & SPACE TECHNOLOGY

### AEROSPACE 2010 TOP 10 TECHNOLOGIES

# Techs To Watch

GRAHAM WARWICK/WASHINGTON

#### Laminar-Flow Aerodynamics

**1** Drag-reducing laminar flow is receiving increasing attention as designers strive to meet aggressive emissions-reduction targets for next-generation aircraft. Carmaker Honda will get a jump on the rest when it begins certification testing of the HondaJet light business jet this year. The HondaJet wing features a natural laminar-flow aerofoil and

smooth machined surfaces to minimize drag. The aircraft also has a uniquely shaped nose designed to promote laminar airflow and offset extra drag from the fuselage, which is wider than in other light jets. NASA, meanwhile, is stepping up laminar-flow technology development under its new Environmentally Responsible Aviation program.



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