



HEAD OVER HEELS FOR BIOFUEL

A Boeing AH-64D Apache operated by the Royal Netherlands Air Force rolls inverted and releases flares over the Gilze-Rijen Air Base, home of the Dutch air force's combat rotorcraft. The maneuver was part of a demonstration flight using a 50/50 blend of sustainable bio-kerosene and standard aviation jet fuel. The 20-minute flight on June 16 was the first time any rotorcraft had flown with this blend.

BOEING

Quotables

“Just like every other 787 flight that I’ve flown in the last several months—smooth, per plan and excellent.”

– Boeing test pilot Mike Bryan, who captained the first flight on June 16 of Dreamliner ZA005, the first of the flight-test planes with General Electric engines, as reported in *Puget Sound Business Journal*. The other four 787 test planes have Rolls-Royce engines. The sixth, and final, 787 to join the flight-test program is expected to fly by the end of this month.

“We could have in the future ... hypersonic weapons that fly 600 nautical miles [1,100 kilometers] in 10 minutes.”

– Charlie Brink, X-51A program manager with the Air Force Research Laboratory at Wright-Patterson Air Force Base in Ohio, during a June 1 teleconference to discuss the successful flight of the X-51A, also known as WaveRider. (See *Frontiers* story on Page 23.)