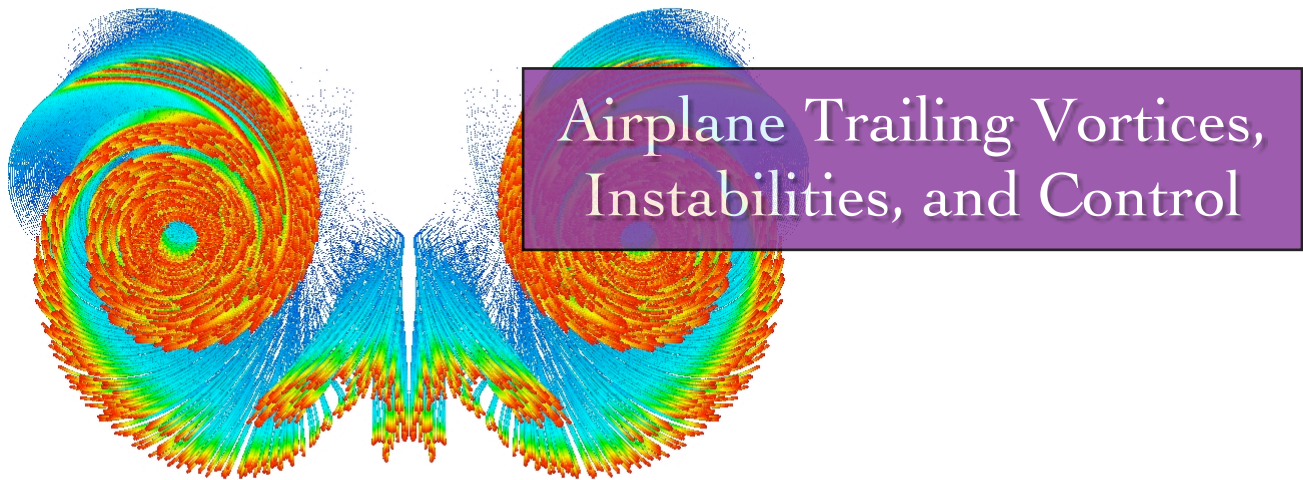


# Third European SCAT Workshop & Summer School in partnership with IRPHE and CNRS

“Vortices and Vortex Sheets: theories, numerics and applications”



**One of a series of mini-courses taking place 4-10 June 2007, Centre IGESA**

## Description

Trailing vortices are a natural byproduct of finite-span lifting wings. An airplane encounter with trailing vortices poses a potential hazard, which has resulted in airplane separation requirements that adversely impact airport capacity. Airplanes with landing flaps deployed generate a complex system of vortices that may admit rapidly-growing instabilities. Active-control schemes that excite these instabilities offer the potential for breaking up the trailing vortices, and thus enabling reduced airplane separations.

## Lecturer

Dr Jeffrey Crouch, Boeing (Seattle)

## Syllabus

- ▶ Vortex systems behind flaps-down aircraft
- ▶ Multiple vortex-pair instabilities
- ▶ Active control for enhanced vortex breakup
- ▶ Flight-simulator studies of vortex encounters

For more information, email [info@scat-alfa.eu](mailto:info@scat-alfa.eu) or visit [www.scat-alfa.eu](http://www.scat-alfa.eu)



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