

The banner features a collage of aerospace-related images: a satellite in orbit, a rocket launch, a commercial airplane, and a space station. The text 'MEMS and Sensors for Aerospace Applications 2010' is overlaid in a white, sans-serif font on a dark, starry background.

# MEMS and Sensors for Aerospace Applications 2010

## **MEMS Investor Journal & MEPTEC Present a Two-Day Workshop**

Wednesday, April 21 and Thursday 22, 2010 8am to 5pm  
Biltmore Hotel & Suites, Santa Clara, CA

## **Reliable MEMS Vacuum Packaging for Aerospace Applications**

Doug Sparks  
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A number of MEMS devices have been applied to aerospace applications. Improved vacuum packaging methods have been employed to improve the reliability and performance of MEMS-based gyroscopes, accelerometers, pressure sensors, RF-resonators and fuel quality sensors. Thin-film getters, like NanoGetters are a relatively new development that has been applied to this field both at the chip and ceramic or metal package level. This type of wafer-level packaging technology has also been utilized in new microfluidic devices which are being used to insure high aviation fuel quality. These packaging methods and applications will be discussed with respect to the aerospace industry.

*NanoGetters is a, USA-based, ITAR compliant, AS9102 qualified supplier for the aerospace industry.*