

SEMINAR ANNOUNCEMENT

Spacecraft – Environment Interactions

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Abstract: Electric charging of spacecraft has been under study for over fifty years. The need to rise solar array operating voltage due to growing size of modern spacecraft causes the investigation of all obstacles exposing themselves over a time. Differential charging of closely situated spacecraft elements poses significant danger of electrostatic discharge with possible detrimental consequences. In my presentation I will describe physical processes of charging and arcing, display pictures and schematics of laboratory equipment for space environment simulations, and illustrate the results of tests and experiments that were performed at NASA Glenn for last few years.

Wednesday, February 16, 2011

12:00 – 1:00 pm

Room SI 117

Pizza and refreshments will be served before the seminar.