



Attn: To whom it may concern

Date: 05/31/2019

Hello,

You have been invited to attend the RADECS workshop at JPL on October 28<sup>th</sup> and 29<sup>th</sup> because you and your organization have demonstrated to design and successfully field SmallSat subsystem and/or small spacecraft. The driving factor for this workshop is the rapid proliferation of CubeSats-SmallSats in earth orbiting mission applications and recently also in deep space science missions. The reliability expectation for the future class of SmallSats, their sub-systems and instruments is steadily increasing, especially in light of recent successes.

However, the vast majority of SmallSats are generally not designed for high risk missions or missions in harsh environments and typically are unable to quantify their mission success rate or confidence level. This precludes their use where their attributes could otherwise enable or enhance mission objectives or provide other meaningful benefits.

This workshop will foster a collaborative engagement where new ideas for an accelerated identification, evaluation and mitigation of radiation risk factors will be discussed. A strong emphasis will be placed on finding solutions that fit the current agile development approach that has made SmallSats so popular and cost effective. Each day of the workshop will commence with few, very targeted presentations from the broader spacecraft community. Yet, the ensuing brainstorming sessions will be the main event for this workshop and seek to build a compendium of mission assurance approaches, novel test approaches and mitigation techniques addressing reliability/risk tolerance from component- through mission- and system-level perspectives. A prioritized list of development tasks will build the foundation of a future investment roadmap for reliability assurance techniques and inform follow-on engagements.

Please register to the link: <http://www.radecs-association.net/>

We look forward to your attendance and to collaboratively advancing SmallSat mission capabilities.

Philippe Adell and Harald Schone