SERESSA 2022

Organizers:

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Radiation Hardness Assurance (RHA)

Tuesday 6 December 2022 10:10 (50 minutes)

This presentation will describe the RHA steps required to ensure that the parts selected for a space project will be able to perform their function when exposed to the ionizing radiation present in space. The talk will present two examples illustrating why RHA is necessary, The steps involved in RHA begin with mission objectives that determine orbit and duration. That information is used to establish the radiation environment that leads to various radiation phenomena, such as TID, DDD and SEEs. Parts must be assessed for their performance in a radiation environment and, if necessary, mitigated, or the part must be replaced.

Presenter: BUCHNER, Stephen (Naval Research Laboratory)