2023 GOMACTech Panel Discussions

Monday Night Panel Discussion

CHIPS and Science Act Impact to DoD
Monday, 20 March, 2023, 5:00 – 6:00 PM
Palms Ballroom 4-6

Wednesday Afternoon Panel Discussion

Perspectives on Computational Methods for Radiation Hardness Qualification
Wednesday, 22 March, 2023, 1:30 – 5:00 PM
Palms Ballroom 4-6

The emergence of Space as a warfighting domain as well as the explosive growth of the commercial space industry have led to an increase in demand for electronic systems capable of operating in high-radiation environments. The process of qualifying rad-hard components is time-consuming, expensive, and taxing on the nation's infrastructure of radiation sources and radiation testing facilities. Industry trends toward heterogeneous integration, 3D chip architectures, novel materials and interconnects, and the desire to employ commercial off-the-shelf (COTS) electronics in space applications exacerbate the problem. The constraints of the current US radiation test infrastructure motivate the need to augment existing test methodologies with novel computationally efficient methods to facilitate the qualification of state-of-the-art microelectronic systems for space applications.

The focus of this panel is to discuss the modeling and simulation approaches that are needed to augment traditional experimental qualification and the challenges facing their validation and eventual adoption. Representatives from government end users, academia, and commercial foundry and computational software vendors will offer their perspectives.

Thursday Morning Panel Discussion:

Sifting Through the Chaos: Are Best Practices Achievable?
Thursday, 23 March, 2023, 10:30 am – 12:00 pm
Town and Country Ballroom D

There are many official and de facto standards that inform and prescribe approaches and methodologies for designing microelectronics in the marketplace today. With the Joint Federated Assurance Center (JFAC) putting forward a framework to ensure DoD microelectronic systems are appropriately

scrutinized and assessed for assurance, there is a need to develop best practices that guide the community in implementing these requirements. Join us as we discuss the good, the bad, and the ugly of best practices and how they might be useful.