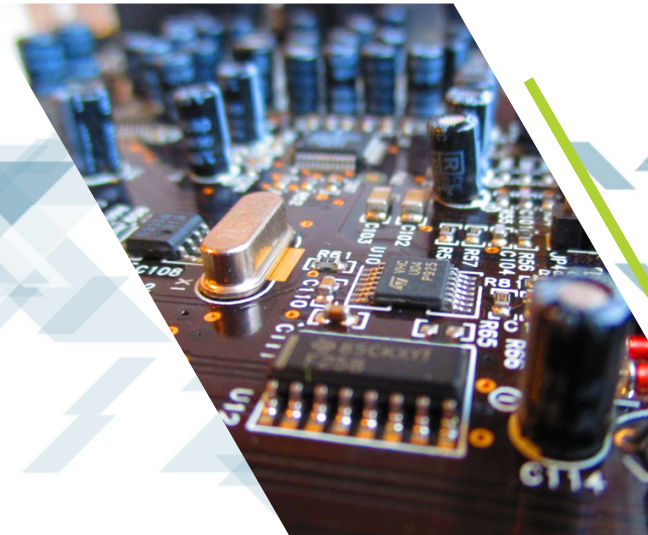


# TEC+2022

## PANEL 5: WBG DEVICES IN ELECTRIC VEHICLES AND AIRCRAFT: READY FOR LIFT-OFF?

16 JUNE 2022 | 2 PM - 3:40 PM



Wide bandgap (WBG) devices are now firmly planted into the design phases of many terrestrial electrified vehicles in order to achieve significant system-wide benefits. Yet questions regarding their reliability remain, especially in the aircraft operation environment. Readiness for aircraft applications remains to be answered. This panel will discuss device performance requirements, reliability issues, and qualification standard gaps associated with unique features of WBG devices, and converse successful stories as well as risk mitigation recommendations to aid in the continued growth of these game-changing devices in a much broader industrial application landscape.

### Speakers:



**PANEL LEAD AND  
MODERATOR:  
SHENGYI LIU**

(Moderator) Technical Fellow, Chief Architect of Platform Subsystems, The Boeing Company



**ALAN MANTOOTH**

Distinguished Professor, University of Arkansas



**KIN P. CHEUNG**

Project leader, Nanodevice Characterization Division, National Institute of Standards & Technology



**TIM MCDONALD**

Sr. Director Applications and Marketing, CoolGaN™ Technology Development for Infineon Technologies.



**ANDREW WOODWORTH**

Hybrid Electric Aircraft Materials Technical Lead Nasa Glenn Research Center



**KARIM BOUTROS**

Senior Technology Qualification Engineer, Boeing Space Systems