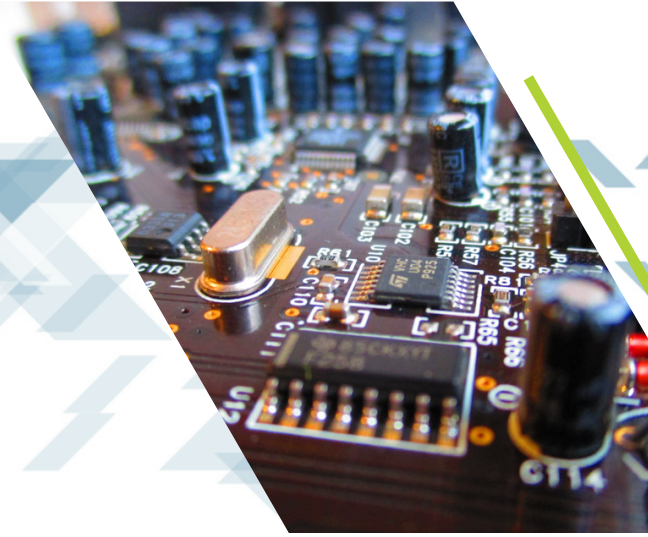


TEC+2022

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



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



TIM MCDONALD

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



KIN P. CHEUNG

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



ANDREW WOODWORTH

Hybrid Electric Aircraft Materials Technical Lead Nasa Glenn Research Center

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.

**16 JUNE 2022
2 PM - 3:40 PM**



KARIM BOUTROS

Senior Technology Qualification Engineer, Boeing Space Systems