

ARCTOS Welcomes Dr. Don Dorsey as Director of Functional Materials and Devices

DAYTON, OH (26 May 2022) – ARCTOS Technology Solutions, LLC (ARCTOS) is excited to announce the hiring of Dr. Don Dorsey in the role of Director of Functional Materials and Devices. Functional materials are engineered, typically crystalline materials and material systems with desirable electronic, optical, and/or magnetic properties, which can be integrated into sensor, communications, and computing systems. Don will focus on advancing both material and device technologies in this important area in support of ARCTOS customers through federal contracting opportunities and strategic partnerships.

Don joins ARCTOS following a distinguished 33-year career at the Air Force Research Laboratory (AFRL), where he was recognized with multiple prestigious awards including the Outstanding Civilian Career Service Award (2022); the Exemplary Civilian Service Award (2020); the Brian M. Hendrickson Science and Technology Memorial Award (2019, as part of the AFRL gallium oxide team); and the Charles J. Cleary Award for Scientific Achievement (2017, as part of the AFRL flexible gallium nitride team).

During his career at AFRL, Don led multiple large research teams including the Wide Bandgap Semiconductor Materials Research Team, the Quantum Semiconductor Materials and Processes Research Team, and the Agile Radio Frequency Electronics Materials and Processes Research Team. Each of these teams drove significant science and technology advancements in functional materials modeling, synthesis, processing, characterization, and device application.

Don also had impactful national leadership roles including the Lead Scientist of the High Reliability Electronics Virtual Center (HiREV). HiREV was an AFRL-led national center with participation from the United States Space Force, Defense Microelectronics Activity, National Reconnaissance Office, and National Aeronautics and Space Administration, focused on revitalizing the nation's capability in reliability assessment for electronic devices. HiREV led to the development and broader application of advanced modeling, device thermometry, and destructive physical analysis tools and techniques that improved reliability understanding and estimates for emerging electronics technologies.

In a career broadening assignment with the Air Force Manufacturing Technology program, Don also led a \$110M tri-Service integrated product team in microelectromechanical systems (MEMS)-based inertial measurement units (IMUs). This program resulted in the first-ever commercially available, tactical grade, MEMS-based IMU, which is currently in use across multiple DoD aircraft and precision guided munitions.

At ARCTOS, Don will leverage this extensive experience and technical community presence to build relationships across government, industrial, small business, and academic partners to advance functional materials and device technology solutions to enable future product capabilities.