Dr. Diana Loree

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Short Biography

Dr. Diana L. Loree received her PhD in Electrical Engineering from Texas Tech University with a specialty in pulsed power in 1991. She has been employed by the Air Force Research Laboratory's Directed Energy Directorate (AFRL/RD) (or its predecessor, Phillips Laboratory) for 29 years. Her initial work in the high power microwave division concentrated on developing hardware and investigating the application of high power microwaves for suppression of enemy air defenses and high power millimeter waves for nonlethal counter-personnel applications. She was the key hardware lead and Technical Manager for the Active Denial Technology (ADT) program (shown on 60 Minutes, Modern Marvels, Future Weapons). The ADT program successfully demonstrated long range, less-than-lethal capability in realistic scenarios and is still being pursued by joint forums. Over a decade ago she was promoted into doing strategic planning for AFRL/RD's Precision Engagement Product Line whose portfolio included the tactical level laser system technologies research along with counter-electronic high power microwave thrusts. Dr. Loree was promoted to the directorate's Assistant Chief Scientist in 2011 working as part of the front office to provide scientific oversight, assessment, and guidance to the directorate's >$200M/yr portfolio. Dr. Loree competitively won the position as Air Force Representative to the Joint Directed Energy Transition Office (DE JTO) in October of 2017 and except for returning to AFRL/RD from Jan-June of 2018 to be the Acting Chief Scientist, she continued in that position until May of 2022. There she is awarding $10'sM in efforts across academia/industry/services, overseeing and monitoring those contracts, and aiding in the joint strategic vision and planning for that office. In May of 2022, she left DE JTO to become the Branch Chief for Laser Effects, Modeling & Simulation in AFRL's Laser Division (AFRL/RDLE). That branch contains high power laser work spanning from mathematical/basic physics modeling to engagement modeling and also material/target laser vulnerability research.

Dr. Loree is a Senior Member of IEEE, a Life Member of the Air Force Association, and a Member of the Directed Energy Professional Society where she currently sits on the Board of Directors.