

Dennis B. Trizna, received the Ph. D. degree in Physics from Iowa State University, Ames, and the B.S. degree in Physics from Illinois Benedictine College. He joined the Naval Research Laboratory (NRL) Radar Division in 1970, beginning his career in the area of over the horizon (OTH) HF radar, with work in remote sensing of winds at sea using the NRL MADRE radar. He published the first map of a weather system at sea using OTH radar propagation, and subsequently studied directional wave spectral effects on second-order Doppler characteristics in HF sea clutter spectra. In addition to other HF radar studies of interest to the Navy, he has published in the areas of microwave propagation and radar sea scatter, and has worked on the development of marine radars to measure sea surface parameters. His later career areas of interest have been both field and laboratory studies of radar sea scatter, using polarimetric and ultrawideband radars and laser scanning slope gauges to quantify their sources. He served as a team leader at ONR for the Remote Sensing Program for two years, and has continued for an additional six and a half years as an ONR program officer in tandem with his duties as head of the Small Scale Ocean Surface Processes Section at NRL. In this joint role, he has managed the development of two new radar systems: an ultrawideband multichannel SAR for use on light aircraft, and a multifrequency HF radar for the measurement of ocean current shear. In 2001, he retired from government service, and established Imaging Science Research, Incorporated, a small business in Virginia dedicated to development of radar technologies for coastal and ocean waters applications.

Dr. Trizna is a member of the IEEE (Geoscience & Remote Sensing, Ocean Engineering, and Antennas and Propagation Societies), the American Geophysical Union, and the American Physical Society.