

ESL Faculty & Researchers



Benedict Munk, Professor Emeritus

Ph.D., The Ohio State University

Design of radome materials with both excellent electrical properties and good mechanical rigidity. Electromagnetic scattering in such areas as periodic surfaces, phased arrays, special absorbers, hybrid and metallic radomes, and dichroic surfaces.



Leon Peters, Professor Emeritus

Ph.D., The Ohio State University

Radar scattering and the geometrical theory of diffraction. Antennas, electromagnetic compatibility, and ground penetrating radar.



Robert Burkholder, Research Scientist

Ph.D., The Ohio State University

Mathematical modeling of electromagnetics using high-frequency asymptotic techniques and their hybrid combination with numerical techniques to solve large-scale electromagnetic radiation and scattering problems. Remote sensing and rough surface scattering, including scattering from targets in the presence of random rough surfaces.



Michael Carr, Senior Research Associate

Ph.D., University of Michigan

Numerical electromagnetic techniques including fast methods, preconditioners, material modeling, and hybrid techniques. Radar topics including coherent seeker performance, jamming techniques, and digital downconversion.



Chi-Chih Chen, Research Scientist

Ph.D., The Ohio State University

Ground penetrating radar, radar signal processing, and development of UWB, fully polarimetric antenna designs for application in antenna range and ground penetrating radar systems.



Inder (Jiti) Gupta, Senior Research Scientist

Ph.D., The Ohio State University

Adaptive antennas, RFI and multipath mitigation, GPS antennas and antenna electronics, EM scattering, compact range technology, antenna/RCS test range design and evaluation, radar imaging, and applied signal processing.