

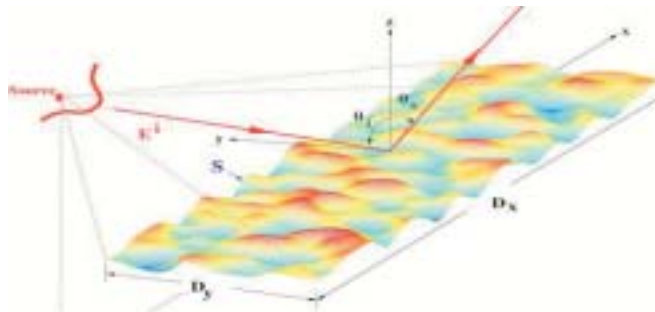
The ElectroScience Laboratory (ESL) is a major center-of-excellence in the Electrical Engineering Department at the Ohio State University. One of the largest such research laboratories in the United States, our faculty and researchers are involved in all aspects of electromagnetics and RF technologies, including:

- satellite and ultra-wide-band width communications
- signal processing
- photonics
- remote sensing
- ground penetrating radar systems
- radar imaging
- propagation and radar scattering
- antenna engineering
- electromagnetic compatibility and interference
- computational methods and measurements

A variety of emerging areas are also being pursued, such as those related to bio-physics, RF materials and systems design, composite materials characterization, micro-device modeling and multi-physics engineering.

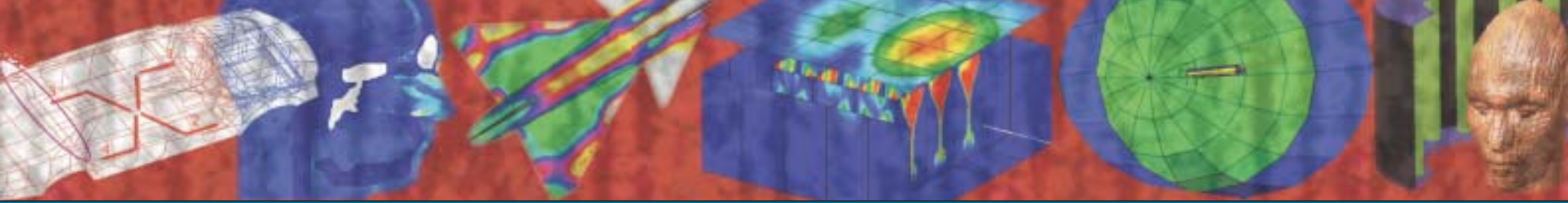
To learn more about our tradition of excellence in research and education and our goals for the future, contact:

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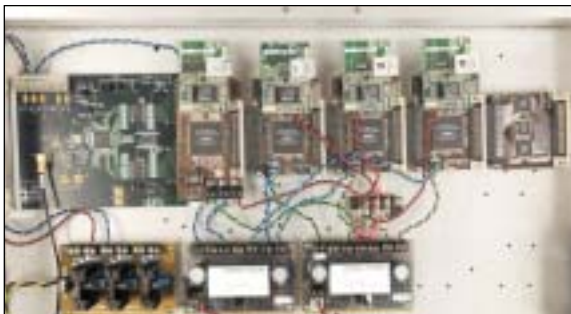
The ElectroScience Laboratory at the Ohio State University





Founded in 1942, Ohio State's ElectroScience Laboratory is a distinctive University center where world class faculty and research scientists lead projects that provide state-of-the-art exploration and superior training for undergraduate and graduate students in significant areas of study. ESL is a multidisciplinary research facility that collaborates with other laboratories across our campus working with microfabrication, solid state and other materials.

In addition to our indoor anechoic chamber RF measurement facility, we have a complete complement of electromagnetic test facilities utilized by our team of researchers. We offer government and industry sponsors an environment for both fundamental and engineering system research to solve the most



L-band FPGA-based receiver with 50MHz bandwidth for passive radiometry



Ground Penetrating Radar

demanding real-world challenges facing society today.

ESL maintains world-class experimental facilities that have been refined over the years through its industrially supported "EM Range Consortium." Among our faculty and senior researchers are 12 IEEE Fellows and two National Academy of Engineering members.

More than 65 graduate and undergraduate students conduct world-class research at ESL, and through the years, 315 doctoral and 500 master's students have graduated from the ElectroScience Laboratory and gone on to very successful careers in government, industry and academia.

Faculty and Research Staff at the ElectroScience Laboratory

Faculty

- ◆ Betty Lise Anderson
- ◆ Stuart A. Collins, Jr.
- ◆ Joel T. Johnson
- ◆ Furrukh S. Khan
- ◆ Jin-Fa Lee
- ◆ Robert Lee
- ◆ Edward H. Newman
- ◆ Prabhakar H. Pathak
- ◆ Roberto G. Rojas
- ◆ Fernando L. Teixeira
- ◆ John L. Volakis (Director)

Emeritus Faculty

- ◆ Walter D. Burnside
- ◆ Robert J. Garbacz
- ◆ Robert G. Kouyoumjian
- ◆ John D. Kraus
- ◆ A. Art Ksienski
- ◆ Curt A. Levis
- ◆ Benedikt A. Munk
- ◆ Leon Peters, Jr.
- ◆ Roger C. Rudduck

Research Scientists

- ◆ Brian A. Baertlein
- ◆ Robert J. Burkholder
- ◆ Michael A. Carr
- ◆ Chi-Chih Chen
- ◆ Steven W. Ellingson
- ◆ Inder J. Gupta
- ◆ Grant A. Hampson
- ◆ Teh-Hong Lee
- ◆ Ronald J. Marhefka
- ◆ G. Frank Paynter
- ◆ Kubilay Sertel
- ◆ Wilhelmus H. Theunissen
- ◆ Eric K. Walton
- ◆ Jonathan D. Young

