



ECE Department Distinguished Seminar

Randy L. Haupt

Colorado School of Mines
Golden, CO

Thursday, January 10, 2019

4:00 pm

ECE 530

Antenna Arrays: History and State-of-the-Art

The first antenna array was developed in the late 1800s. Ferdinand Braun's Nobel Lecture in 1909 described his work with phased array antennas. WWII elevated their importance through use in air defense. Since then, the development of computers and solid-state devices has made arrays a very valuable tool in RF systems. Radio astronomy and defense applications as well as high data rate communications will continue to push the state-of-the-art for many years. This talk concludes with some of the trends and challenges that face antenna array engineers today.

About:

Randy Haupt is a Professor of Electrical Engineering at the Colorado School of Mines. He has worked with antenna arrays in government, industry, and academia since 1978 and has 3 books and 8 patents on antenna array technology as well as many other publications. He is an IEEE Fellow and was chair of the IEEE Antennas and Propagation Society (APS) Fellows Committee. In addition, he has served as an associate editor for IEEE AWPL, IEEE APS Magazine, and Radio Science Bulletin. He consults for industry and government on antenna arrays and is a member of the National Center for Atmospheric Research (NCAR) Airborne Phased Array Radar (APAR) Advisory Panel.