
PHD COURSE:

Advanced Antenna Arrays for Communications and Radar Systems

Speaker: Prof. Randy L. Haupt
(Colorado School of Mines, USA)

Date: 09-10-11-12-13 May 2016

Location: Room GARDA – Polo Scientifico F. Ferrari – Povo

Duration: 20 Hours

Note: The seminar will be held in English

Contact: Prof. Paolo Rocca (paolo.rocce@unitn.it)



Antenna arrays provide the needed gain, bandwidth, interference rejection, and data rates needed by future communications and radar systems. This course provides latest advances in the framework of antenna arrays design and control. The covered topics will be: timed arrays, adaptive arrays, reconfigurable arrays, conformal arrays, wideband arrays, and actively electronically scanned arrays (AESAs).

- **About the Speaker**

Randy L. Haupt was born in Johnstown, PA on 11 August 1956 and grew up there. He graduated from Johnstown High School in 1974. He received the BSEE from the USAF Academy (1978), the MS in Engineering Management from Western New England College (1982), the MSEE from Northeastern University (1983), and the PhD in EE from The University of Michigan (1987). On 17 February 1979, Sue Ellen and he got married. They have 2 children, Bonny and Amy and 1 grandchild, Adelne. Randy is currently a Professor of Electrical Engineering and Computer Science at the Colorado School of Mines and was an RF Staff Consultant at Ball Aerospace & Technologies, Corp., a Senior Scientist and Department Head at the Applied Research Laboratory of Penn State, Professor and Department Head of ECE at Utah State, Professor and Chair of EE at the University of Nevada Reno, and Professor of EE at the USAF Academy. He was a project engineer for the OTH-B radar and a research antenna engineer for Rome Air Development Center early in his career. He is co-author of the books Practical Genetic Algorithms, 2 ed., John Wiley & Sons, 2004, Genetic Algorithms in Electromagnetics, John Wiley & Sons, 2007, and Introduction to Adaptive Antennas, SciTech, 2010, as well as author of Antenna Arrays a Computation Approach, John Wiley & Sons, 2010 and Timed Arrays Wideband and Time Varying Antenna Arrays, John Wiley & Sons, 2015. Dr. Haupt is a Fellow of the IEEE and Applied Computational Electromagnetics Society (ACES). He is chair of the IEEE AP-S Fellows Committee.