

Center for Wireless and Microwave Information Systems



WAMI Center



The WAMI Center, part of the Department of Electrical Engineering at the University of South Florida, was formed in 1996. The center carries forward a strong heritage of RF & microwave education and research that dates back to the university's founding in 1956. Today the WAMI Center provides a diverse offering of undergraduate and graduate courses, and its faculty are pursuing research in areas of national and global significance. The center places a strong emphasis on its partnerships and support from the local and national industry, and together with its graduate student researchers pursues its mission to advance the state of knowledge in the wireless and microwave field.

ACADEMICS

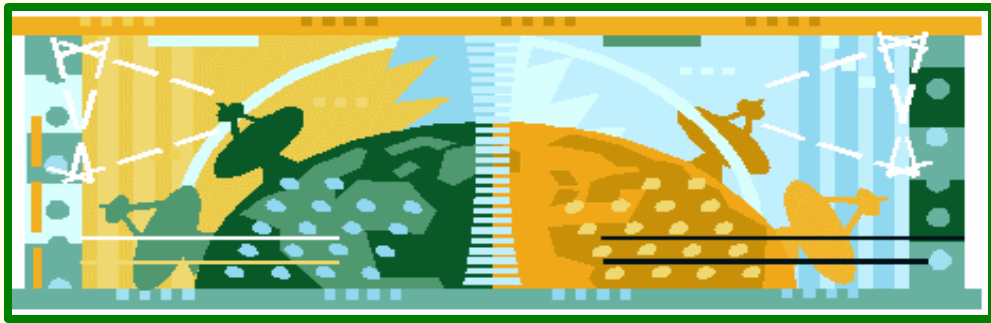
Courses offerings associated with the WAMI Center curriculum cover a broad array of topics relevant to modern wireless circuits and communication systems. Featured courses include the innovative Wireless and Circuits System Laboratory (sponsored by the National Science Foundation and the Hewlett Packard Foundation) and advanced courses on RFIC design, RF/microwave theory and techniques, microwave characterization and wireless communications networks.

RESEARCH

- Linear/Non-Linear Characterization and Modeling
- MMIC Design and Fabrication
- Silicon Carbide Material and Devices
- RF Micro Electro Mechanical Systems
- Planar Circuits and Antennas
- Wireless Communications
- Signal processing for communications
- Ultra Wideband Communications
- Sensors and Sensor Networks
- Numerical and Applied Electromagnetics
- Atmospheric Radiometry

Total grant funding awarded to WAMI Center faculty as PIs or Co-PIs in 2002/03 exceeded \$3.5M.

W
A
M
I



W
A
M
I

PEOPLE

Huseyin Arslan, Ph.D. 1998, Southern Methodist University

Lawrence Dunleavy, Ph.D. 1988, University of Michigan

Horace Gordon, M.S.E 1970, University of South Florida, P.E.

Rudolf Henning, D. Eng. Sc. 1954, Columbia University, P.E.

Stephen Sadow, Ph.D. 1993, University of Maryland

Thomas Weller, Ph.D. 1995, University of Michigan

RESOURCES

- Wireless Circuits and Systems Laboratory; teaching facility, includes 7 complete microwave test benches
- Microwave Characterization Laboratory; includes DC-110 GHz network and spectrum analysis, load-pull
- MMIC Fabrication Laboratory; includes complete thin-film capabilities and post-fabrication assembly
- Wireless Communications Testbed; includes 2 test benches, VSA, signal generators etc.
- Nanotechnology and Nanomanufacturing Research Center; clean room facility available to WAMI Center
- MEMS Fabrication and Packaging Center (St. Pete); clean room facility available to WAMI Center

Contact Information

University of South Florida
4202 East Fowler Avenue
MC: ENB 118
Tampa, Florida USA 33620



Electrical Engineering
813/974-2369
FAX: 813-974-5250
<http://ee.eng.usf.edu/WAMI/>