This course will provide an introduction to RF basics, targeting newcomers to the microwave industry. The intended audience includes technicians, new engineers, engineers who may be changing their career path, marketing and sales professionals seeking a better understanding of microwave technology, as well as current college students looking to learn more about the practical aspects of RF and Microwave technology. The format of the RF Boot Camp is similar to that of a workshop or short course, with multiple presenters from industry and academia presenting on a variety of topics including: RF/Microwave systems basics, network and spectrum analysis, simulation and matching network design modulation and signal analysis, and antenna basics. The goal of the RF Boot camp is to provide a friendly “on-ramp” to those new to the RF/Microwave field as well as those seeking a refresher and update in a forum that is grounded in the fundamentals of Microwave Theory and Techniques.

Register for RF Boot Camp! EARN 2 CEU CREDITS! This one-day course now offers 2 CEU credits with attendance!

RF Boot Camp 2020 Agenda will include:

- The RF/Microwave Signal Chain
- Network Characteristics, Analysis and Measurement
- Fundamentals of RF Simulation
- Impedance Matching Basics
- Spectral Analysis and Receiver Technology
- Signal Generation
- Modulation and Vector Signal Analysis
- Microwave Antenna Basics
- RFMW Application Focus

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Instructor Biographies

Joanne Mistler
**RFMW/EW Applications Engineer, at Keysight Technologies**
With Keysight Technologies, Joanne manages specifications, demonstration and configuration of RFMW and Electronic Warfare test systems. Her expertise includes low-noise microwave synthesizer design, test and integration with Raytheon and Frequency Sources Inc. With HP/Agilent, Joanne has provided technical support as well as developed and delivered training in Phase-Noise, Radar and Digital Communications, and DOCSIS Test Solutions. In Business Development and Strategic Marketing with Analog Devices and Lockheed Martin, Joanne has driven strategies and capture efforts for Highspeed Converters and Aerospace Defense RF/MW Systems including low-noise seekers, communications data links and Electronic Warfare Systems. She received her BSEE from Northeastern University, MSEE from Tufts University in Microwave Engineering, and High Technology MBA from Northeastern University.

Dr. Rich Hoft
**Senior RFMW Applications Engineer, Keysight Technologies**
Rich Hoft is a Senior RF/uW Applications Engineer for Keysight Technologies working in the Northeast United States. He supports all RF and Microwave test equipment; specializing in vector network analysis, linear and nonlinear device/network modeling, phase noise, signal integrity, and photonics. Prior to joining Keysight (HP) in August of 1992, Rich was a Principal Engineer for M/A-Com Inc., where he acquired 10 years of experience in system development and test. He received his BSEE from Worcester Polytechnic Institute in 1982, MSEE from Northeastern University in 1990, and his PhD from the University of Leeds in 2019.

Al Lorona
**Simulation Applications Engineer, Keysight Technologies**
Al Lorona is an Application Engineer who helps customers use SystemVue, ADS and other Keysight Technologies EDA products more effectively and creatively. With 30 years of experience at Hewlett-Packard, Agilent and Keysight he is a seasoned presenter, teacher and sales team member. Al is based in southern California.

Dr. Larry Dunleavy
**Professor University of South Florida, President & CEO Modelithics, Inc.**
Dr. Dunleavy is a Full Professor at University of South Florid, where has been a Department of Electrical Engineering faculty member since 1990. In this role, he has been teaching and performing applied research in the area of RF & Microwave circuits and measurements for over 30 years. Prior to this he worked as a microwave circuit design engineer at Hughes Aircraft and E-Systems companies. In 2001 he co-founded Modelithics, Inc. to provide improved modeling solutions and high-quality microwave measurement services for radio and microwave frequency circuit designers. He is currently serving as President & CEO at Modelithics.

Dr. Tom Weller
**EECS School Head, Oregon State University**
Thomas M. Weller (S’92–M’95–SM’98-F’18) received the Ph.D. degree in electrical engineering from the University of Michigan, Ann Arbor, MI, USA. From 1995-2018, he was a faculty member in the Electrical Engineering Department and a member of the Center for Wireless and Microwave Information Systems at the University of South Florida. He joined Oregon State University in 2018, where he is a professor and head of the School of Electrical Engineering and Computer Science. He co-founded Modelithics, Inc. in 2001.

Bryan Goldstein
**RFMW Systems Manager, Analog Devices**
Bryan Goldstein is general manager of the Aerospace and Defense business unit of Analog Devices, where he is responsible for Profit and Loss, Customer Relations, and Strategic Investments for the business as well as product and advanced technology development for ADI’s microwave MMIC, modules, subsystems, and high reliability product domains. He has more than 29 years of experience in the Aerospace and Defense industry, with specific expertise in the design and manufacture of microwave modules and subsystems. Most recently, Mr. Goldstein served as Vice President of the Modules, Subsystems, and Space business unit of Hittite Microwave Corporation—prior to its acquisition by Analog Devices. Before joining Hittite, Goldstein worked at Arcom Wireless; Sanders, a Lockheed Martin Company; and the Raytheon Missile Systems Division where he held positions in Product Line Management, Program Management, Operations Management and Modules/Subsystems Design. Mr. Goldstein holds a B.S. in electrical engineering from Northeastern University and an M.S. in electrical engineering from the University of Massachusetts.

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