



ARFTG 70th Microwave Measurement Symposium

High Power RF Measurement Techniques

Tempe Mission Palms Hotel, Tempe, AZ

Nov 27th – 30th, 2007

www.arftg.org



ARFTG CONFERENCE

Keynote presentation: "Characterization Challenges for Cellular Base-Stations", Jaime Plá, Freescale Semiconductor
 Technical papers describing original work in the areas of microwave and millimeter wave measurements for high power technologies will be presented on the following topics:

- Load-pull techniques: active and passive, fundamental and harmonic
- RF system measurement addressing linearity, efficiency, pre-distortion
- Linear and nonlinear device and behavioral modeling
- Calibration methods and techniques (1-port, 2-port, multi-port, high-power)
- Other areas of RF, microwave, and millimeter wave measurement theory and practice

Accepted papers for the technical program will be posted on www.arftg.org after September 24, 2007.

RF PA DESIGN SHORT COURSE

Join us in a practical tutorial describing modern RF power amplifier design techniques that will be presented by Dr. Steve Cripps, of *Hywave Associates*.

Day 1: A review of classical reduced conduction angle amplifier modes: Class A, AB, B, C; high efficiency amplifier modes: Class E, F, J; Doherty amplifier design; waveform measurement and verification techniques; RF PA nonlinearities.

Day 2: Linearization techniques: feedback and feedforward basics; pre-distortion basics and digital pre-distortion (DPD) techniques.

Conference Chair Mohamed Sayed mmsayed@sbcglobal.net +1-707-318-5255	Technical Program Chair John Wood John.Wood@freescale.com +1-480-413-5732	Local Organization Gayle Collins gcollins@rfmd.com +1-480-763-4686	Local Organization Mike Majerus Michael.Majerus@freescale.com +1-480-413-3461
Exhibits Chair Joe Tauritz jltauritz@ieee.org +31-53-4894330	Short Course Chair Basim Noori Basim.Noori@freescale.com +1-480-413-3360	Nonlinear Workshop Peter Aaen Peter.Aaen@freescale.com +1-480-413-6505	Signal Integrity W/shop Tom Ruttan Thomas.g.ruttan@intel.com +1-503-456-1245

SCHEDULE OF EVENTS

Tuesday, November 27 8.00am – 5.00pm Wednesday, November 28 8.00am – 12.00pm	RF PA Design Short Course
Tuesday evening	Short Course Dinner
Wednesday, November 28 1.15pm – 5.00pm	Nonlinear Measurement Workshop
Wednesday, November 28 5.00pm – 7.00pm	NVNA Users' Forum
Thursday, November 29 8.00am – 5.00pm Friday, November 30 8.00am – 12.00pm	ARFTG 70 th Measurement Conference
Thursday evening	Reception & Award Banquet
Friday, November 30 1.15pm – 5.00pm	Signal Integrity Workshop



NONLINEAR MEASUREMENT WORKSHOP

In this workshop we shall focus on the challenges of measurement of high power microwave transistors and amplifiers, and describe some of the techniques used to overcome thermal problems, memory effects, and the characterization of the impedance environment presented to the device. Talks include:

Pulse Measurement Techniques

Jean-Pierre Teyssier, University of Limoges

LSNA Measurements for PA Characterization

Marc Vanden Bossche, NMDG

Characterization of High-Power Transistors:

Waveform Measurement and Engineering

Paul Tasker, University of Cardiff

Active, closed-loop, harmonic load-pull systems

Andreo Ferrero, Politecnico di Torino

Digital Pre-Distortion Characterization of RFPAs

Paul Draxler, UC San Diego

SIGNAL INTEGRITY WORKSHOP

High speed signal integrity is a topic of great interest in the industry today. There is large demand for higher speed data transfer rates from computer and communications systems for fast internet downloads, streaming video, CAD applications, etc. This workshop presents microwave modeling and measurement techniques applied to these problems.

Building Bridges between Digital & Microwave

M. Resso, Agilent Technologies

Measurement-based Modeling for High Speed

Semiconductor Test Interface Boards

Heidi Barnes, Verigy

Measuring Multiple Aggressor Differential Crosstalk

Bob Schaefer, Agilent Technologies

A Supercomputer in a PCI-express Form Factor

Greg Edlund, IBM

Why do we need Multiport VNAs for Signal Integrity?

Brett Grossman, Intel Corp.

LOCATION

The Tempe Mission Palms hotel is centrally located in downtown Tempe. A shuttle is available from the Phoenix Sky Harbor airport. All sessions will be held in the hotel.

Tempe Mission Palms Hotel,

60 East 5th St.,

Tempe, AZ 85281

Tel: +1-480-894-1400

www.missionpalms.com

ARFTG Room Rate is \$159.00 per night, plus local taxes and amenities.

Reserve your hotel room before November 2, 2007, to get the special ARFTG Conference rate; this rate is also available for accommodations three days before and after the conference dates. The Group Code for the ARFTG special rate is **2T9478**. Reservations can be made online, or by telephone: 1-800-547-8705.

Special Awards Banquet Presentation:

Guest speaker Mike Golio (Microwave magazine) will talk about "Engineering Your Retirement"



REGISTRATION FORM

Last Name _____

First Name _____

Company _____

Mail Stop _____

Address 1 _____

Address 2 _____

City _____ State _____ Zip _____

Country _____

Phone _____

Fax _____

Email _____

RF PA Short Course, inc. NLM W/S \$450 \$ _____

ARFTG Conference, inc. NLM W/S \$495 \$ _____

ARFTG Conference, inc. SI W/S \$495 \$ _____

ARFTG Conference, + both W/S \$595 \$ _____

Nonlinear Workshop only \$150 \$ _____

Signal Integrity Workshop only \$150 \$ _____

RF PA + ARFTG Conf + NLM W/S \$745 \$ _____

RF PA + ARFTG Conf, both W/S \$850 \$ _____

• Check (payable to "ARFTG", in \$US on US bank)

• Credit card: _____ Visa _____ MC _____ AmEx

Name on Card _____

CC # _____

Expiration Date _____

Signature _____

Mail, Fax or email this form and payment to:

Ray Tucker,

ARFTG Member Services

PO Box 228

Rome, NY 13442-0228

Phone: 315-337-6938

Fax: 315-338-0531

Email: tuckerr@twcny.rr.com

Registration forms are also available online at:

www.arftg.org