

The ARFTG NVNA Users' Forum at IMS 2005

An informal discussion group devoted to sharing information and issues related to instrumentation utilized in vector large-signal network analysis of microwave circuits and systems that contain nonlinear elements.

Topics: Large-signal measurements utilizing nonlinear vector network analyzers (NVNAs), e.g., Microwave Transition Analyzers (MTAs) and Large-Signal Network Analyzers (LSNAs). NVNA measurements in conjunction with loadpull, sampling oscilloscopes, vector signal analyzers, and other test equipment used to perform large-signal measurements.

Date: Thursday, June 16

Time: 5-7 PM

Location: Long Beach Hyatt, Regency C

More Information: Check the ARFTG website for updates: www.arftg.org

Agenda

5:00 p.m. – 5:05 p.m.: Introductions

5:05 p.m. – 5:30 p.m.: Discussion topic 1: *Verification of LSNA measurements* (Introduced by John Sevic of Maury Microwave)

5:30 p.m. – 5:55 p.m.: Discussion topic 2: *Multisine distributions: what is needed from a modeling point of view?* (Introduced by Christopher Silva, Aerospace Corp.)

5:55 p.m. – 6:15 p.m.: Discussion of Ph.D. research: *Approximations and VSA measurements of OFDM signal statistics with multisines* (Mike McKinley, Georgia Tech and NIST)

6:15 p.m. – 6:45 p.m.: Research updates

- *Pulsed and IF measurements with the LSNA* (Patrick Roblin, Ohio State University)
- *Phase Noise and Drift of a 100MHz-50GHz passive NLTL Harmonic Phase Reference* (Steve Pepper, Picosecond Pulse Labs)
- *Two-Tone IMD Sweet-Spots for Highly Linear Power Amplifiers Subject to Telecommunications Signals* (José Carlos Pedro and Nuno Borges Carvalho, Universidade de Aveiro)

6:45 p.m. – 7:00 p.m.: Demos, announcements, and open discussion

- *S-parameter measurements using the LSNA* (Frans Verbeyst, NMDG Engineering)

Feel free to drop in or let us know if you'd like to participate:

Dr. Dominique Schreurs, K.U.Leuven <dominique.schreurs@esat.kuleuven.be>

Dr. Kate Remley, NIST <remley@boulder.nist.gov>

Dr. Wendy Van Moer, VUB <wendy.vanmoer@vub.ac.be>

We hope to see you there!