

## NVNA Users' Forum

### Mission Statement:

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.

### Background:

- Initiated by ARFTG in Dec. 2002 (<http://www.arftg.org>)
- Co-sponsored by ARFTG and the European NoE TARGET

### Organizers:

- Dr. Dominique Schreurs ([Dominique.Schreurs@esat.kuleuven.be](mailto:Dominique.Schreurs@esat.kuleuven.be))
- Dr. Kate Remley ([remley@boulder.nist.gov](mailto:remley@boulder.nist.gov))
- Dr. Wendy Van Moer ([wendy.vanmoer@vub.ac.be](mailto:wendy.vanmoer@vub.ac.be))

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### Agenda

- 5:00 p.m.–5:05 p.m.: Welcome
- 5:05 p.m.–5:55 p.m.: Discussion topics 1 & 2
- 5:55 p.m.–6:15 p.m.: PhD research
- 6:15 p.m.–6:45 p.m.: Research updates
- 6:45 p.m.–7:00 p.m.: Demos

## Announcements

### Next meetings:

- **@ EuMW** (Paris, France): Oct. 6<sup>th</sup>, 4:30 p.m.
- **@ Fall ARFTG** (Washington DC, USA): Nov. 30<sup>th</sup>, 5:00 p.m.
- **@ IMS 2006** (San Francisco, USA)

## Discussion Topic 1 (25 min.)

***“Verification of LSNA measurements”***

**(Introduced by John Sevic, Maury Microwave)**

## Discussion Topic 2 (25 min.)

***“Multisine distributions: what is needed from a modeling point of view?”***

**(Introduced by Christopher Silva, Aerospace Corp.)**

## PhD Research (20 min.)

**Mike McKinley (Georgia Tech and NIST)**

**“Approximations and VSA measurements of OFDM signal statistics with multisines”**

**Questions:**

- ...

## Research Updates (10 min. each)

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

## Demos

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

→ shifted to NVNA Users' Forum in Paris