



# Automatic RF Techniques Group

## 70<sup>th</sup> ARFTG Microwave Measurement Symposium

Mission Palms Hotel, Tempe, AZ U.S.A. Nov. 27 – 30, 2007

### NVNA Users' Forum

Wednesday, 28 November, 2007, 5:00 PM – 7:00 PM

#### Agenda:

5 mins: **Welcome**

15 mins: **Introductions** by attendees with a short verbal description of your work

45 mins: **Discussion topic: "Envelope-domain measurements"**

The discussion will follow two brief presentations: One from Professor Tasker of Cardiff University, talking about their envelope load-pull system, which provides rapid load-pull but currently has a limited IF bandwidth. The second presentation will be given by Dr Don Kimball from UC San Diego on their Drain Modulation/ET/EER System, which uses similar down-conversion technology and has about 10 MHz IF bandwidth. We hope this will stimulate discussion on envelope bandwidth issues for measurement, DPD, among other things.

15 mins: **Discussion of Ph.D. Research**

Chin Hsia from UC San Diego will make a presentation on his Drain Modulation/Envelope Tracking research on high power & high efficiency transistors for wireless infrastructure base station applications. After the presentation, Chin will direct questions to the participants.

#### **Research updates:**

10 mins: **Patrick Roblin, The Ohio State University** will present a review of LSNA research in his laboratory, describing the developments that have taken place in the past year.

10 mins: TBD

15 mins: **Demonstration: "Technology Demonstration: NVNA Application on the PNA-X"**

This presentation will introduce a new technology demonstration of a customization of the PNA-X that enables NVNA capability. The demonstration will be given by Loren Betts and Chad Gillease of Agilent Technologies.

5 mins: **Announcements and closing**

Total: 2 hours