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## **IEEE Microwave Theory and Techniques Society** Washington DC/Northern VA Chapter

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	Lecture 1: Novel Device Architecture for Silicon-based Power Amplifiers at Millimeter-Wave
The eSCANNER	Dr. Thomas Farmer, U.S. Army Research Laboratory, Adelphi, MD
MTT-S	
2010 IMS Anaheim 2011 IMS Baltimore	Lecture 2: Piezo-MEMS Enabled, Low Power Mechanical Logic
ARFTG	Dr. Robert Proie, U.S. Army research Laboratory, Adelphi, MD
Local Area IEEE Chapters AP/MTT (Baltimore)	Date: Thursday May 31st, 2012
EDS	Time: Dinner (Optional) 5:30 pm, Lecture 7:00
IT	Dinner: Sakura Restaurant, 9031 Baltimore Ave., College Park, MD 20740
Photonics WIE	Place: American Center for Physics
Sponsors Mid-Atlantic Microwave	Directions: <u>http://www.acp.org/map.html</u>
Artech House Tektronix	Free parking.
Agilent	All IEEE members and guests are welcome to attend.
Microwaves 101	Cost: Lecture free, Dinner \$10
Microwave Sites Around the World	Please RSVP to Roger Kaul, 301-394-4775 or rogerieeemtt@gmail.com by COB Wednesday May 30th
Biography of J. C. Maxwell	Abstract 1:
Historical Electronics Museum (near BWI)	Our architecture reliably operates and has been implemented using 120 lm SiGe technology at 2.4 GHz and 30 GHz. It allows for very large output voltage swings, leading to high output power with high efficiency when used in a power
Mike Nueslein, Chair	amplifier design. It is our hope that the reproducibility of our design can be integrated into new devices in a cost- effective manner to ensure their continued proliferation and the unlocking of the next generation millimeter-wave
Bruce Levine, Past-Chair	
Joe Qiu, Treasurer	Abstract 2:
Tony Ivanov, Secretary	MEMS devices offer an alternative to solid-state components for ultra low power, digital computation. These devices can have extremely sharp, less than 1-mV/dec, turn-on I-V slopes, and the use of a body bias has been used to
You are visitor #	intended to develop a complete MEMS digital library and design flow, has been undertaken to enable ultra low power
since 09-07-04	microcontrollers. Current generation components have a power consumption advantage over bulk CMOS processes at lower frequencies. Furthermore, future scaling of the actuator and contact gap is predicted to reduce dynamic
	energy consumption to under 10-aJ, with static power scaling similarly.

New Local Chapter Administrative Committee members are needed. Really. If you are reading this sentence, then we need you to help us in the Chapter.

Join us in planning the next lecture series. Please volunteer... everyone has something to offer. The next administrative meeting will be held soon.

Please contact 2011-12 Chapter Chair Michael Nueslein mnueslein@mitre.org

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