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Design and Performance of Microwave and Millimeter-wave High Efficiency Power Amplifiers.

Dr. James J. Komiak
BAE Systems
Nashua NH

Date: Tuesday, September 12, 2006

Time: Lecture 7:00 pm, Reception 5:30 pm, Dinner 6:00-7:00 pm

Place: American Center for Physics, College Park MD [directions](#)

Cost: Lecture free. Dinner cost \$15.00

RSVP for dinner only by Friday September 8 to Roger Kaul, 301-394-4775, r.kaul@ieee.org.

Abstract: Device technologies covered include Si BJT, MESFET, HBT, PHEMT, InP, MHEMT, and Wide Bandgap (SiC, GaN). Content includes principles of operation, structures, characteristics, and state of the art benchmarks. Power amplifiers utilizing these device technologies covering L-band through W-band are described including state of the art benchmarks.

Vita: James J. Komiak received the Ph.D. degree in Electrical Engineering from Cornell University in 1978. His Ph.D. research was directed towards a novel broadband matching technique for arbitrary loads using measured data directly, the "Real Frequency Technique".

Dr. Komiak is an Engineering/Scientific Fellow in the Microwave Electronics Group at BAE Systems. His current activities are in MMIC, module, and sub-system design for EW, communication, and radar system applications. Principally known for work in power, Dr. Komiak has designed over 100 MMICs achieving state of the art results. Prior to consolidation at Sanders and the subsequent sale to BAE Systems, Dr. Komiak was with the Lockheed Martin/Martin Marietta/General Electric Electronics Laboratory.

Dr. Komiak became an IEEE Fellow in 2005 for contributions to "Monolithic Microwave Integrated Circuits, High Power Amplifiers, and Transmit/Receive Modules".

Dr. Komiak has been active with MTT-S and the IMS TPC with MTT-5/SC-21 High Power Amplifier Components. He was with the IEEE GaAs IC Symposium TPC and ExCom and was Symposium Chairman in 2000. He is also active as an Accreditation Board for Engineering & Technology IEEE-sponsored University Electrical Engineering Program Evaluator. He has 65 publications and 6 patents relating to circuit theory, GaAs MMIC devices and technology, high power amplifiers, solid-state apertures, and RF/microwave design. Dr. Komiak received the 2001 BAE Systems Silver Chairman's Award for Innovation for "Blue Force Locator and Monitor", the 1993 Martin Marietta Jefferson Cup Award for "Outstanding Technical Leadership in Development and Demonstration of High Power and High Efficiency MMIC Amplifiers and T/R Modules for Phased Array Radar", and his work is represented in the MTT Symposium MMIC Historical Exhibit as "World's First Octave Band MMIC with Power Output in Excess of 10 Watts (1989)"

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Please contact 2006 Chapter Chair Bruce Levine at bruce.levine@ieee.org

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