IEEE Home | Shop IEEE | Join IEEE | myIEEE | Contact IEEE | IEEEXplore





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

www.ieee.org/mtt-wnva

Home Washington Section

Northern Virginia Section

Baltimore Section

Contact Us

# The eSCANNER MTT-S 2007 IMS - Hawaii ARFTG Local Area IEEE Chapters

AP/MTT (Baltimore) EDS

EMB GRSS IT LEOS

WIE Sponsors

Mid-Atlantic Microwave

Artech House Tektronix Agilent

Microwaves 101

Microwave Sites Around the World

Biography of J. C. Maxwell

Historical Electronics Mus (near BWI)

Bruce Levine, Chair Cole Howard, Secretary Joe Qiu, Treasurer

You are visitor #

since 09-07-04

## Millimeter Wave Imaging David Wikner

U.S. Army Research Laboratory Adelphi, MD

Date: Tuesday, March 13, 2007 (Rescheduled from February)

Time: Lecture 7:00 pm

Place: Mitre Corporation Building 2, 7515 Colshire Drive, McLean VA directions

Cost: The lecture is free.

#### **Optional Dinner:**

Please join the speaker and the membership for dinner at Clydes of Tysons Corner 8332 Leesburg Pike Vienna VA 22182 703 743 1901

Dinner begins at 5:30 PM. The cost will be \$15, excluding alcoholic beverages. Following dinner, it will be a short drive drive to the lecture site at Mitre Corporation.

RSVP for dinner only by Friday March 9 2007 to Roger Kaul, 301-394-4775, r.kaul@ieee.org.

**Abstract:** This presentation will review progress that has been made over the last fifteen years in the design and use of millimeter-wave (MMW) imagers. This technology has been pursued because of its capability for imaging through clothing, fog, smoke, and dust with high enough spatial resolution to be useful. This makes it appropriate for such applications as concealed weapons detection, helicopter situational awareness in low-visibility, and surveillance. This type of imaging is distinct from radar in that the receivers do not usually perform coherent detection and ranging. Rather, imagery is collected in a manner similar to an infrared or visible camera and data is presented in an easy to interpret two-dimensional image. In this talk the device technologies, system architectures, and phenomenology associated with MMW imaging will be discussed. Also presented will be the outlook for future imaging systems that promise affordability in kilo-pixel camera systems..

**Bio:** David Wikner has been actively involved in MMW radar and imaging research for the past 18 years at the Army Research Laboratory. His work has focused on advanced imaging system architectures, device technology and phenomenology. He developed a Stokes-vector passive MMW imaging system that is used for studying the polarimetric signatures of materials and objects for Army applications. His current work pursues the development of affordable device technology for next generation MMW imagers.

#### **Next Talk:**

H. Bruce Wallace April 17 2007 at the American Center for Physics

"Millimeter Waves ---Myths and Reality

#### **Previous Talks:**

Dr. Peter Siegel Nov 14 2006

"Terahertz Technology in Inner and Outer Space"

Dr. James Komiak Sep 12 2006

"Design and Performance of Microwave and Millimeter Wave High Efficiency Power Amplifiers

### New Local Chapter Administrative Committee members are needed.

Join us in planning the next lecture. Please volunteer... everyone has something to offer. Please contact 2007 Chapter Chair Bruce Levine at <a href="mailto:bruce.levine@ieee.org">bruce.levine@ieee.org</a>

<u>Home</u> | <u>IEEE Home</u> | <u>IEEE National Capital Area Chapters</u> | <u>Privacy & Security</u> | <u>Terms & Conditions</u>

© Copyright 2006 IEEE – All Rights Reserved.
Use of this website signifies your agreement to the Terms of Use.
For questions or comments, please contact the <u>website editor</u>.