



# IEEE Phoenix Waves and Devices Chapter 2012 Technical Workshop on



# Millimeter Wave to Terahertz Devices and Technologies

Friday, April 27, 2012

8:00 am to 5:00 pm

University Club, Arizona State University

### REGISTRATION:

- IEEE Member ..... \$30
- Non-IEEE Member ..... \$60
- IEEE Student ..... \$20
- non-IEEE Student ..... \$40
- Sponsor (7 registrations) .... \$350
- Vendor (1 table, 2 reg's) .....\$350

[http://www.ieee.org/go/mmw\\_thz](http://www.ieee.org/go/mmw_thz)

**Abstract:** This one-day workshop will focus on devices and technologies for emerging applications in the upper millimeter wave and lower terahertz (submillimeter) electromagnetic spectrum, bringing together invited experts from industry and academia for a full day of stimulating discussion and insight.

### General Co-Chair:

Steve Rockwell, General Dynamics  
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### General Co-Chair:

Rudy Emrick, Orbital Sciences  
[rudyemrick@ieee.org](mailto:rudyemrick@ieee.org)

### Technical Committee:

Michael Goryll, Arizona State University  
Mel Miller, Freescale

### Publicity/Website Committee:

Peter Aaen, Freescale  
Sergio Pacheco, Freescale

### Registration/Finance Committee:

Adel Elsherbini, Intel  
Sayfe Kiaei, Arizona State University

### Phoenix IEEE Waves & Devices Chapter:

<http://ewh.ieee.org/r6/phoenix/wad/>

Start	Title	Speaker	Affiliation
8:00 AM	<b>Intro/Opening</b>		
8:30 AM	GHz and THz Spectrum Policy Issues – Coexisting With Scientific Uses	Michael Marcus	FCC (retired)
9:15 AM	Trends In Millimeter Wave Point-to-Point Radio Technology and Markets	Doug Lockie	Endgate
9:45 AM	WiGig: The Evolution of Multigigabit Connectivity	Ali Sadri	Intel
10:15 AM	<b>Break</b>		
10:35 AM	Advanced SiGe BiCMOS Process Technologies for Millimeter-Wave Applications	Ed Preisler	TowerJazz
11:05 AM	Sensing, Detection and Imaging using Millimeter-wave and THz CMOS ICs	Bhaskar Banerjee	UTD
11:35 AM	Recent Developments in SiGe and CMOS Phased Arrays For Millimeter-Wave Applications	Gabriel Rebeiz	UCSD
12:05 PM	<b>Lunch</b>		
1:35 PM	THz for Body Screening: What you see and what you don't	Peter Siegel	Caltech/JPL
2:20 PM	THz Instrumentation for Astronomy: Ground, Air, and Space	Chris Walker	UofA
2:50 PM	Terahertz Focal Plane Arrays for Astrophysics and Remote Sensing	Christopher Groppi	ASU
3:20 PM	<b>Break</b>		
3:40 PM	Terahertz Devices and Device Modeling	Steve Goodnick	ASU
4:10 PM	THz Transceivers	Michael Wanke	Sandia
4:40 PM	<b>Closing</b>		
4:55 PM	<b>End</b>		

