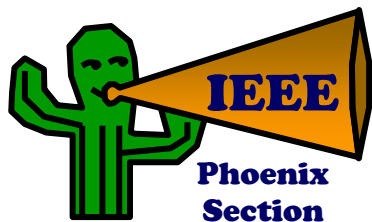


The Valley Megaphone

Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.,
Phoenix Section**
July 2012,
Volume XXVI, Number 7



Executive Committee - 2012

Chair

Ralph Hogan, 480-774-8227
rhogan@ieee.org

Vice Chair

Charles Weitzel, 480-292-0531
c.weitzel@ieee.org

Secretary

Barbara McMinn 602-371-6383
barbara.mcminn@aps.com

Treasurer

Bruce Ladewig, 480-620-9291
bruceladewig@ieee.org

Past Chair

Jim Hudson, 480-855-8987
jim.hudson@srpnet.com

Publicity

Surinder Tuli, 480-554-8275
Surinder.tuli@gmail.com

PACE

Mike Andrews, 602-682-5440
m.andrews@ieee.org

Membership

Vasudeva P. Atluri
480-227-8411
vpatluri@ieee.org

Student Activities

S.Diane Smith
602-749-4601
sdianesmith@computer.org

Conferences

Guoliang Xue
480-965-6218
xue@asu.edu

Awards

Vasudeva P. Atluri
480-227-8411
vpatluri@ieee.org

Inter-Society

Mike Andrews, 480-991-1619
m.andrews@ieee.org

Webmaster

Krishna Bharath 480-552-8913
kbharath@ieee.org

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IEEE Phoenix Section on-line updates can be found at <http://ewh.ieee.org/r6/phoenix/> and on LinkedIn at:

<http://www.linkedin.com/groups?gid=2765918>

Please send announcements for the *Valley Megaphone* to Surinder Tuli at surinder.tuli@gmail.com and to Russ Kinner at r.kinner@ieee.org for inclusion in the Section Calendar.

The IEEE Banquet pictures are up, see <http://ewh.ieee.org/r6/phoenix/index.php>

Chapters

Signal Processing & Communications

Pavan Turaga
TBD

pturaga@asu.edu

Computer Society

Jerry Crow

jerry.crow@computer.org

CPMT Society

Vasudeva P. Atluri
480-227-8411

vpatluri@ieee.org

Education Chapter

Martin Reisslein, 480-965-8593

reisslein@asu.edu

EMBS Chapter

TBD

EMC Society

Harry Gaul, 480-441-5321

harry.gaul@ieee.org

GOLD

Chaturvedi Gogineni
cogoginen@asu.edu

Power & Energy Society

Scott Freymuller 480-991-9191

scott@youngpower.com

Solid State Circuits

Mohamed Arafa

mohamed.arafa@ieee.org

Teacher-In-Service

John Purchase

jpurchase@cox.net

Waves & Devices Society

Steve Rockwell

steve.rockwell@ieee.org

Life Members

Barry Cummings

abarrycummings@gmail.com

Women In Engineering

Shamala Chickamenahalli

shamala.chickamenahalli@intel.com

U – News

(for Student Members)

Updates of Student Advisors and Committee Members

Each Student Branch noted on the right side of this page should review current information on Advisors and Student Committee Members and forward to my attention within this week, as we are reviewing contacts for reporting and activities including Student Monthly Meetings.

S. Diane Smith
602-749-4601
sdianesmith@computer.org
Student Activities Chair

Student Branches

ASU Main, Engineering
Chair: Ahmet Durgun,
480-371-7743, adurgun@asu.edu
Advisor: Cihan Tepedelenlioglu,
480-965-6623, cihan@asu.edu

ASU Main, Computer Society
Chair: TBD
Advisor: Guoliang Xue
480-965-6218, xue@asu.edu

ASU Polytechnic
Chair: TBD
Advisor: TBD

DeVry, Phoenix
Chair: Donovan Benedict
Don4ben5@gmail.com
Advisor: Diane Smith
dsmith2@devry.edu

DeVry, Computer Society
Chair: TBD
Advisor: Diane Smith
dsmith2@devry.edu

NAU, Engineering
Chair: TBD
Advisor: Niranjana Venkatraman
v.niranjana@ieee.org

Embry-Riddle, Prescott
Chair: Tim Lemm
timothy.lemm@erau.edu
Advisor: John E. Post
postj@erau.edu

U – Newsbytes

ASU Polytechnic is currently seeking Advisor for the Student Branch. Please email Nick (at email address above) with Recommendations.

Start your own MicroMouse and compete for cash prizes!

The Section has a full tournament sized MicroMouse maze. Funding for your project may be available. For details contact the Section Student Activities Chair, S. Diane Smith
sdianesmith@computer.org

- View pictures from the MicroMouse contest at the Southwest Area Spring 2010 meeting at <http://picasaweb.google.com/ieeegoldphx/2010IEEEESWASpringMeeting> (photography by David Huerta, GOLD Affinity Group Chair)



Signal Processing & Communications Society



We thank everyone who attended the IEEE SPCOM and SENSIP co-sponsored talk by Prof. Moncef Gabbouj on "Image Retrieval using Particle Swarm Optimization for Multimedia Applications" on June 8th 2012, held at the ASU campus. Please watch this space for upcoming events.

Please contact Chapter Chair Pavan Turaga (pturaga@asu.edu) to volunteer or propose a speaker for upcoming meetings.

CPMT- Packaging and Manufacturing Technology Society



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



**IEEE Components, Packaging and Manufacturing Technology Society
Wednesday, July 18th, 2012 at 6 PM**

Gallium Nitride Device Technology for RF Applications

Bruce M. Green

Senior Member of the Technical Staff, Freescale Semiconductor

ABSTRACT:

High voltage and current handling capability coupled with excellent frequency response characteristics have propelled gallium nitride (GaN) device technology to the forefront for high-power, high efficiency, and high frequency RF power applications. This presentation will cover GaN device technology starting with the basics of GaN materials and device structures and then cover RF power amplifier applications for wireless communications. Finally, the talk will address GaN device technology limitations and then address trends in the industry for further improvements.

BIOGRAPHY:

Bruce M. Green received the B.S. and M.S. degrees in Electrical Engineering from Brigham Young University (BYU) in 1996 and 1997. In 2001 he earned the Ph.D. degree from Cornell University where his research focused on the characteristics, optimization, and integrated circuit applications of gallium nitride (GaN) transistors. After graduation from Cornell, he joined Motorola, now Freescale Semiconductor, where he is a Senior Member of the Technical Staff involved in GaN transistor research and development. In 1996-1999 he was the recipient of a National Science Foundation Graduate Fellowship. In 1998 he was awarded a Microwave Theory and Techniques Graduate Fellowship and in 1999 he was awarded a Schlumberger Foundation Fellowship. In 2006, he received an IEEE Phoenix Chapter award for contributions to the development of Gallium Nitride RF devices. He has published over twenty five papers in refereed journals and conference proceedings, and has six issued U.S. patents. Dr. Green is a member of IEEE Microwave Theory and Techniques Society and the Electron Devices Society and serves as a reviewer for journals published by these societies. Dr. Green is also a member of Tau Beta Pi and Eta Kappa Nu.



the

-
- Date:** Wednesday, July 18th, 2012
Location: Group Conference Room, Freescale Semiconductor, Inc., 2100 E. Elliot Rd. Tempe, AZ. Enter the facility through the Main (South) lobby in building 94, by the flag poles; you will be escorted to the meeting venue.
Time: 5:30–6:00 Social/Refreshments, 6:00–7:00 Presentation, 7:00 Dinner
(Pizza and Soda will be provided by the IEEE CPMT Phoenix Chapter)

IEEE members and non-members are all welcome to attend. Those who plan to attend should be at the facility entrance no later than 6:00 pm, as there will be no escorts available after that.

For more information, please contact any of the following CPMT officers:

Surinder Tuli (480) 554-8275
Vivek Gupta (480) 413-5849
David Dougherty (480) 413-6923

Vasu Atluri (480) 227-8411
Mahesh Shah (480) 544-9438

CPMT Phoenix Chapter

IEEE CPMT Society Phoenix Chapter is seeking volunteers to serve as Chapter Officers during remaining of 2012. One has to be a member of IEEE CPMT Society to serve as the IEEE CPMT Society Phoenix Chapter Officer. If interested, please contact Dr. Vasudeva P. Atluri, Chair, IEEE CPMT Society Phoenix Chapter, by sending an email to vpatluri@ieee.org.

Power & Energy Society



IEEE Power and Energy Society

Phoenix Chapter

<http://ewh.ieee.org/soc/pes/phoenix/>



News and Announcements:

- We are on vacation for the summer: there are no luncheons in June, July, or August. Our next luncheon will be Thursday, September 20th, at the SRP PERA Club.
- Don't miss our **55th Annual PES Golf Tournament**, which will be held on Saturday, October 13th, at the Antelope Hills Golf Club in Prescott. This is our annual fundraising event, allowing us to sponsor scholarships, student outreach programs, and, of course, our \$5 luncheons and technical seminars.
- At the IEEE Phoenix Section Annual Award Banquet, the Phoenix PES Chapter was named the [Outstanding Chapter](#) for 2011. We would like to thank everyone who supports our Chapter by sponsoring and participating in our annual golf tournament and by attending our monthly luncheons.
- We are pleased to announce that our Chapter sponsored a \$1000 electrical engineering scholarship, which was awarded by the IEEE Phoenix Section in February. The deadline for the next round of scholarships is January 2013. For more details, see the [Section website](#).
- Want to know more about IEEE Power and Energy Society? Watch this video:
 - http://www.youtube.com/watch?v=BRKM4lpo_tk
 - More videos are available at:
<http://ieee-pes.org/outreach/pes-informational-promotional-videos>
- Have you considered becoming a Senior Member of IEEE? It's not as difficult as you think. Basically, you need ten years of professional experience, and your bachelor's degree counts for three of those years. Find out more at: http://www.ieee.org/membership_services/membership/senior/index.html

Solid State Circuits Society



INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS



Next Updates coming soon

Life Member Affinity Group



Technical Meeting

Topic: October TBD

When: Tuesday, October 16, 2012, 11:00am – 1:00pm Registration fee is \$15.

Where: SRP's **PERA Club** Bighorn Room,
1 East Continental Drive, Tempe, AZ
West of 68th St., ½ mile south of McDowell Road

RSVP: Please respond to Program Chair, Ronald Sprague by email:
rlsprague@q.com at least a few days before the meeting.

The Program Chair is seeking suggestion from members for future technical presentations. Any ideas of interest are open for consideration. Please contact Ronald Sprague Program Chair at rlsprague@q.com or any officer with ideas.

About IEEE Phoenix Section Life Member Affinity Group:

The IEEE Phoenix Section Life Member Affinity Group was organized to enable IEEE Life Members to retain active IEEE associations, contribute to the social good in their communities, advance IEEE's professional interests and enjoy each other's company.

An IEEE member automatically becomes an IEEE "Life Member" status when at least 65 years of age and the sum of your current age and years of membership is 100. For more details use the link

http://www.ieee.org/web/volunteers/mga/home/life_members_committee/index.html

Activities: Annual technical meetings scheduled in February, May, October, and December. Elections are held at the December meeting.

Technical meeting topics and suggested speakers are encouraged. Contact any Officer.

Future Technical Meetings:

- Tuesday, October 16, 2012 SRP PERA CLUB
- Tuesday, December 4, 2012 SRP PERA CLUB

Officers:

Chair	A. Barry Cummings	Barry.Cummings@srpnet.com
Vice Chair	Michel Ebertin	Michel@ebertin.net
Secretary	Tom Lundquist	Tom.Lundquist@ieee.org
Treasurer	Leslie Daviet II	lesdavietii@cs.com
Program Chair	Ronald L. Sprague, P.E.	rlsprague@q.com
Past Chair	C Bruce Johnson	cbj@johnsonscientificgroup.com

Women in Engineering Affinity Group



IEEE Phoenix Section Women in Engineering Affinity Group



Five representatives of the IEEE Phoenix Section **Women in Engineering (WIE) Affinity Group (AG)** assisted with the Arizona Science Lab on June 20th by teaching a group of 38 eighth grade students the "Here Comes the Sun" program. This program consists of a lecture put on by other volunteers about electricity and solar power. The WIE volunteers assisted the students with constructing their solar power race cars using materials from a pre-assembled kit. The students were responsible for assembling the components so that their car ran forward and in a straight line. This is not as easy as it sounds as the volunteers were able to build their cars immediately prior to helping the students.



The students raced their cars. The one able to go the fastest and straightest for several race heats was declared the winner.

Thank you to all the WIE volunteers who participated.

If you would like to be added to our distribution list for further information about this and future events, please contact Diane Watkins (diane.watkins@srpnet.com).

If you would be interested in helping to organize any of our activities or have suggestions for other activities or speakers for future events, please feel free to contact any of our organizing committee members:

Chair: Shamala Chickamenahalli (shamala@ieee.org)
Vice-Chair: Joy Harris (joyelle.j.harris@intel.com)
Secretary / Publicity: Diane Watkins (diane.watkins@srpnet.com)
Treasurer: Diane Smith (diane@web-oasis.com)
Web Master: Audrey Skidmore (ASkidmore@azmag.gov)
Membership: Lesley Polka (lesley.a.polka@intel.com)
Region 6 Liaison: Barbara McMinn (barbara.mcminn@aps.com)

The IEEE WIE Affinity Group's mission is to inspire, engage, encourage and empower IEEE women worldwide with a vision of creating a community of IEEE women and men innovating the world of tomorrow. More information about IEEE WIE can be found at: http://www.ieee.org/membership_services/membership/women/women_about.html.

Computer Society



Phoenix Chapter of the IEEE Computer Society July, 2012

News

- We have confirmed speakers for July and September (see below) and a tentative program for November.
- We are planning a chapter picnic for November. The picnic will be at Desert Breeze park in Chandler and will be held on Saturday, November 17th. More details will be forthcoming.
- Chapter elections for officer positions for 2013 will be held at the chapter meeting in November. If you are interested in an officer position in 2013 please contact one of the current officers.

Future Events

- July 11 – Chapter meeting, DeVry University, speaker Dr. Diane Smith, “**A Brief History of Unix**”
Dr. S. Diane Smith is a Professor at the DeVry Campus in Phoenix, AZ. She began teaching at Purdue University in 1975, and has been on the faculty of the University of Madison – Wisconsin; University of California - Davis at Livermore; and Arizona State University - East Campus. She has been an adjunct faculty member at the University of California - Santa Cruz and Santa Clara University. She has worked in industry and research at Lawrence Livermore National Laboratory, NASA, and at various startups in Silicon Valley.
She has used UNIX continuously since 1976.
- September 12 – Chapter meeting, DeVry University, speakers Dr. Steve Miller, Don Willey, MCS, “**Integrating GPS from a Software Perspective**”.
- November 7 – Chapter meeting, DeVry University, speaker TBD
- November 17 – Chapter Picnic, Desert Breeze Park, Chandler.

Meetings start at 6:00 pm with networking and light refreshments followed by the presentation at 7:00 pm. DeVry University is located at 2149 W Dunlap Avenue, Phoenix.

Visit the CS Chapter website for the latest information: <http://ewh.ieee.org/r6/phoenix/compsociety/>.
For brief announcements regarding upcoming events we are also on Twitter: @IEEECS_PHX

If you would like to suggest a topic or speaker for any of our future meetings, please contact one of the chapter officers:

Jerry Crow (jerry.crow@computer.org)
Brad Morantz (bradscientist@ieee.org)
Audrey Skidmore (askidmore@computer.org)
Diane Smith (sdianesmith@computer.org)

Wave and Devices

*IEEE Phoenix Waves and Devices Chapter
2012 Technical Workshop on*

Millimeter Wave to Terahertz Devices and Technologies April 27, 2012, Arizona State University



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Headquarters
New York, USA
3 Park Avenue, 17th Floor
New York, NY 10016 USA
Tel: +1 212 205 9900
Fax: +1 212 205 9909
society@comsoc.org
www.comsoc.org

Singapore Office
Fanny Se Bah Noj, Manager
No. 1, Pusanopolis Walk,
#04-07, South Tower, Solaris
139628 SINGAPORE
Tel: +65 778 2873
Fax: +65 778 9723
ieee@pacificnet.sg

China Office
Ning Hua, Chief Representative
Rm 1505, South Tower
Raycom Info Tech Park C,
Haidian District
Beijing, 100190, China
Tel: +86 10 8286 2290
Fax: +86 10 8262 2135
n.hua@ieee.org

India Office
Prestige Maridani
Unit No. S-306,
Block 2, Level-3
Mahatma Gandhi Road
Bangalore - 560001,
Karnataka, India
+91 90 4147 0592
+91 90 4147 0593

IEEE Member Services
IEEE Operations Center
445 Hobbs Lane,
Piscataway NJ 08854 USA
Tel: +1 908 678 IEEE (4333)
Outside USA & Canada:
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The Arizona Science Lab

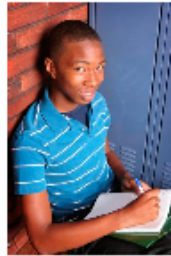


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www.arizonasciencelab.org

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RSVP or more details, please contact Jane von Schilling at (623) 256 - 8294 or jvonschilling@gmail.com

THE ARIZONA SCIENCE LAB
www.arizonasciencelab.org

Sponsors: IEEE Teacher in Service Program, Tempe Elementary School District 3, Nina Mason Pulliam Charitable Trust, SRP, APS Foundation

2012 IEEE Phoenix Section Calendar



The calendar is updated by the Vice Chair on a rolling basis.
TBD

You may access the IEEE Phoenix Section Calendar of Events at:

<http://ewh.ieee.org/r6/phoenix/Calendar.htm>

For inputs and updates to the Calendar, please contact the IEEE Phoenix Section
Charles Weitzel, 480-292-0531 c.weitzel@ieee.org

- June 2012
 - Review meeting schedules of Chapters
 - Nominations received by Nominating Committee
- July–August 2012
 - Summer break
- September 2012
 - Student Branches send annual plan of activities to IEEE
 - Annual Banquet: Determine date, confirm hotel, speaker
 - Announcement of Student Paper Contest
 - Announcement of Student Scholarships
 - Call for nominations for awards
 - Categories: Young Engineer/GOLD, Engineer, Company, Educator



Executive Committee Meeting Phoenix Section

Venue: Phoenix Airport Hilton 2435 S 47th St, Phoenix, AZ, 85034 ([map](#))
Tel.: 480-804-6017

More Info: Meetings are held on the first Tuesday of the month, 6–8 PM.
- Except for July & August

All interested IEEE members are welcome to attend.

Contact: Ralph Hogan, 480-774-8227
rhogan@ieee.org

IEEE Membership Grade Advancement

IEEE Phoenix Section Executive Committee encourages all to apply for advancement in membership grade to Senior Member and Fellow Grade. Please review the requirements at www.ieee.org. Please contact IEEE Phoenix Section Membership Development Chair, Dr. Vasudeva P. Atluri, at vpatluri@ieee.org for additional information.

Enhanced Senior Member Application Launched

Effective 29 July 2011, IEEE Admission and Advancement launched a [new Senior Member Application](#). The new application includes numerous enhancements, based on feedback from volunteers and members, including:

- New user friendly format / design
- Secure environment (need IEEE Web account)
- Ability to save application in “draft” form
- Ability to upload resume or Curriculum Vitae (up to 3 MB)
- Applicant can view application online
- Applicant can view status of requested reference forms
- References will be notified by email to provide applicant reference
- References will have the ability to view their completed reference form(s)
- Real time application status

The goal is to provide prospective Senior Members with an easy to use and intuitive interface, while streamlining internal operations at the same time. [View the new Senior Member application](#).

IEEE-USA Government Fellowships:

Each year, IEEE-USA sponsors three qualified IEEE members to serve as government fellows: one Engineering & Diplomacy Fellow and two Congressional fellows. The fellows spend a year in Washington, serving as advisers to the U.S. Congress or key U.S. Department of State decision-makers. IEEE-USA's Government Fellowships link engineers with government, providing a mechanism for IEEE-USA members to learn firsthand about the public policy process through personal involvement.

The congressional fellowship consists of an appointment to the personal staff of a U.S. Senator or Congressman, or to the professional staff of a Congressional Committee. The Fellow along with the Congressional sponsor and IEEE-USA, negotiates a starting date, although IEEE-USA recommends that Fellowship terms run from January 1st to December 31st. For an application Kit for the 2013 Congressional Fellowship Program, visit:

http://ieeeusa.org/policy/govfel/documents/cfappkit13_000.doc

The State Department fellowship begins in January of each year and offers an opportunity for an engineer to provide technical expertise to the State Department, and help raise awareness of the value of engineering input while learning about and contributing to the foreign policy process. For an application Kit for the 2013 Engineering & Diplomacy (State Department) Fellowship Program, visit: <http://ieeeusa.org/policy/govfel/documents/Stateappkit13.doc>

The postmark application deadline for 2013 Fellowships is 16 March 2012. For more information, visit: <http://www.ieeeusa.org/policy/govfel/default.asp>

Washington Internships for Students of Eng'g (WISE)

SUMMER 2012 PROGRAM Monday, 4 June - Friday, 3 August:

WISE seeks applications from outstanding engineering students who display evidence of leadership skills and have a keen interest in public policy. Minority students are encouraged to apply.

Applicants should select a sponsoring society(s), fill out an application form, write two (2) brief essays in response to questions, arrange for two (2) faculty references, and forward an official transcript. The deadline for Summer 2012 applications is December 31, 2011. For more info and application forms, please visit: <http://wise-intern.org/application/index.html>

“...one of the best summers of my life. One which truly transformed my dreams and goals.when I left D.C. I really wanted to instill in my fellow engineers the appreciation of the interaction between public policy and engineering.” -- Marc Canellas, WISE 2011

Erica R. Wissolik
Program Manager, Government Relations
IEEE-USA
2001 L Street, NW, Suite 700
Washington, DC 20036
202 530 8347 direct | 202 785 0835 fax
e.wissolik@ieee.org | www.ieeeusa.org

Section Officers Election/Job Descriptions

Updates coming soon

IEEE USA E Book on Transition

IEEE-USA E-Book on Transition from School to Work to be Offered Free as Special Benefit to IEEE Members

WASHINGTON (31 October 2011) -- As a special benefit of IEEE membership for November, IEEE-USA is offering a free e-book, "Engineer's Guide to Lifelong Employability: The Transition from School to Work." This e-book, prepared by the IEEE-USA Employment and Career Services Committee, provides a road map for the student preparing to enter the job market -- what employers are looking for, how they can best find a job and what career paths are open to a new grad. Topics include:

- * Finding a Job the Old-Fashioned Way
- * Networking
- * The Campus Interview
- * Making up Your Mind
- * Four Career Paths
- * Business -- Big or Small?
- * A Non-Technology Company

"Demand for new BSEEs may be soaring, but so are employer's standards and expectations," writes Jean Eason, IEEE-USA Employment and Career Services Committee member. "Good grades and technical expertise aren't enough anymore."

From Nov. 1 through Nov. 30, "Engineer's Guide to Lifelong Employability: The Transition from School to Work" can be downloaded at www.ieeeusa.org/communications/ebooks for free to IEEE Members. The nonmember price is \$5.99. Members can purchase other IEEE-USA E-Books at deeply discounted prices and download other free e-books. In December the free publication will be book three in the "Engineer's Guide to Lifelong Employability" series: "What Are You Worth?"

Phoenix Section LinkedIn Group

If you are interested in professional networking and shared Section related updates & discussions join the [IEEE Phoenix Section Group on LinkedIn](#). Signing up only takes minutes and is free. A job board is available as well.

IEEE CPMT-IMAPS Advanced Tech. Workshop



The 2012 IEEE-CPMT / IMAPS Advanced Technology Workshop on Optoelectronic Packaging and Assembly



Advance Announcement

The Institute of Electrical and Electronics Engineers - Components, Packaging and Manufacturing Technology Society (IEEE-CPMT) and the International Microelectronics and Packaging Society (IMAPS) jointly announce the 2012 Advanced Technology Workshop on Opto-electronic Packaging and Assembly. This workshop will feature an ITRS Assembly and Packaging Roadmap working session as well.

Dates: September 6 & 7, 2012

Location: [Embassy Suites, 3100 East Frontera Street, Anaheim, CA 92806](#)

Thursday, September 6, 2012
8:00 am – 5:00 pm

Optoelectronic Packaging & Assembly

Invited technical experts will be presenting on the advances and trends in Optoelectronic Packaging and Assembly Technology areas for applications such as Optical Interconnects & Semiconductor Photonics, Optical Transceivers & Networks, High Brightness LED and CMOS Image Sensors.

Featured Speakers:

Keynote Address: **Prof. Ricky Lee, President, IEEE CPMT Society**

Dr. Mehdi Asghari, Kotura

Dr. Daniel Van Blerkom, Forza Silicon

Ron Bonne, Philips Lumileds

Dr. Jack Cunningham, Oracle Labs

Dr. Peter De Dobbelaere, Luxtera

Dr. Ali Ghiasi, Broadcom

Dr. Radha Nagarajan, Infinera

Dr. Adit Narasimha, Molex

Prof. George Papen, UCSD

Jeff Perkins, Yole Developpment

Dr. Mark Verdiell, Samtec

Friday, September 7, 2012
8:00 am – 12:00 pm



ITRS Assembly & Packaging Roadmap Working Session

The International Technology Roadmap for Semiconductors (ITRS) Organization will hold an assembly and packaging roadmap working session for the workshop participants, with a presentation on the ITRS working process and an interactive discussion about their optoelectronic packaging activities.

Platinum Sponsor



Silver Sponsor



For Sponsorship & Vendor Exhibition inquiries, please contact:

Lawrence Williams – larry.williams@ansys.com, 714-417-9311 x449

Jaydutt Joshi - jaydutt@email.com, 949-697-9814

Registrations:

Early-Bird Registration Fees: IEEE / IMAPS Members - \$200; Non-Members - \$250; Students - \$75

Registration options are also available for attending only one of the days. Prices will increase for each category, after July 31, 2012.

Registration Instructions at https://meetings.vtools.ieee.org/meeting_view/list_meeting/12685

Workshop Organizing Committee

General Chairs

Robert Warren, Conexant Systems, Inc. robert.warren@conexant.com

John Mazurowski, Penn State Electro-Optics Center, jmazurowski@psu.edu

Technical Program

Wei Koh, Pacrim Technologies, wkoh2008@hotmail.com

Dick Otte, Promex Industries, Inc., otte@promex-ind.com

Bill Bottoms, Third Millennium Test Solutions, bill_bottoms@3mts.com

Kannan Raj, Oracle, kannan.raj@oracle.com

Chuck Tabbert, Ultracom, ctabbert@ultracom-inc.com

Mark Bachman, Univ. of California – Irvine, mbachman@uci.edu

Sam Karikalan, Broadcom Corporation, samkarikalan@ieee.org

Ivan Shubin, Oracle, ivan.shubin@oracle.com

Registration & Finances:

Melissa Lau, Broadcom Corporation, melissa@broadcom.com

Publicity:

Michael Alderete, DRS Sensors and Targeting Systems, aldere@m@gmail.com

Paul Westling, Communications Director - IEEE, p.westling@ieee.org

Vendor Exhibits & Sponsorships:

Lawrence Williams, Ansys Corporation, larry.williams@ansys.com

Jaydutt Joshi, Skyworks Solutions, Inc., jaydutt@email.com

Local Arrangements:

Hossein Ahmad, Boeing, hossein.ahmad@boeing.com

University Relations:

Mark Bachman, Univ. of California – Irvine, mbachman@uci.edu

Workshop Website: <http://www.cpmt.org/opto2012>