

The Valley Megaphone

Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.,
Phoenix Section**
August 2012,
Volume XXVI, Number 8



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

In this Issue of the Valley Megaphone: Table of Contents (click on an item to go directly to it)

U – News	2
Student Branches	2
U – Newsbytes	2
Signal Processing & Communications Society	3
CPMT Phoenix Chapter	4
Power & Energy Society	6
Solid State Circuits Society	7
Life Member Affinity Group	8
Women in Engineering Affinity Group	9
Computer Society	10
Wave and Devices	11
The Arizona Science Lab	13
2012 IEEE Phoenix Section Calendar	17
Phoenix Section Executive Committee Meeting	18
IEEE Membership Grade Advancement	19
Enhanced Senior Member Application Launched	19
IEEE-USA Government Fellowships	20
Washington Internships for Students of Eng'g	21
Section Officers Election/Job Description	22
IEEE USA E Book on Transition	23
Phoenix Section LinkedIn Group	23
IEEE CPMT- iMAPS Advanced Tech. Workshop	24

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



The fall period is beginning and SP/COM is looking forward to organizing various lectures and seminars, including a IEEE ComSoc Distinguished Lecture. Please watch this space for details as we progress.

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, August 8th, 2012 at 6 PM

4D Materials Science: *In Situ* X-ray Synchrotron Tomography of Deformation in Materials in Electronic Packaging by *Dr. Nikhilesh Chawla*

ABSTRACT:

The field of materials science and engineering (MSE) is based on the fundamental principle that microstructure controls properties. Traditionally, the study of material structure has been limited by two dimensional (2D) imaging techniques. This approach is often inaccurate or inadequate for solving many cutting-edge problems. It is also often laborious and time-consuming. Advances in experimental methods, analytical techniques, and computational approaches, have now enabled the development of three dimensional (3D) analyses. The study of 3D microstructures under an external stimulus (e.g., stress, temperature, environment) as a function of time (4D) is particularly exciting. Examples include an understanding of time-dependent deformation structures, phase transformations, compositional evolution, magnetic domains, etc. Furthermore, advances in 3D and 4D computational tools and methods have enabled the analysis of large experimental data sets, as well as simulation and prediction of material behavior.

X-ray synchrotron and lab-scale tomography provide a wonderful means of characterization damage in materials non-destructively. In this talk, I will describe experiments and simulations that address the critical link between microstructure and deformation behavior, by using a three-dimensional (3D) virtual microstructure obtained by x-ray synchrotron tomography. The approach involves capturing the microstructure by novel and sophisticated *in situ* tensile testing in an x-ray synchrotron, followed by x-ray tomography and image analysis, and 3D reconstruction of the microstructure. Quantitative analysis and incorporation of the microstructure into a powerful finite element modeling code for simulation can also be conducted. Case studies on fundamental deformation phenomena in tin-based solder materials will be presented and discussed.

BIOGRAPHY:

Nikhilesh Chawla is the Fulton Professor of Materials Science and Engineering (MSE) at Arizona State University. He is also a Professor of Mechanical Engineering. Prof. Chawla received his Ph.D. in Materials Science and Engineering from the University of Michigan in 1997. He served as acting chair of the MSE program at ASU in 2010. Prior to joining Arizona State University in 2000 he was a postdoctoral fellow jointly at Ford Motor Company and the University of Michigan, and a senior development engineer at Hoeganaes Corporation.



Prof. Chawla's research interests encompass the mechanical behavior and modeling of advanced materials at bulk and small length scales, including 4D materials science, Pb-free solder alloys, composite materials, and nanostructured materials. He has co-authored close to 150 refereed journal publications and 300 presentations in these areas. He is the author of the textbook *Metal Matrix Composites* (co-authored with K.K. Chawla), published by Springer. Prof. Chawla is a fellow of ASM International and past member of The Minerals, Metals, and Materials Society (TMS) Board of Directors. He's the recipient of the 2011 Distinguished Lectureship given by Tsinghua University, China; 2009 Raymond Award for Best Paper by the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME); 2004 Bradley Stoughton Award for Young Teachers, given by ASM International; and the 2006 TMS Young Leaders Tutorial Lecture. He's also won the National Science Foundation Early Career Development Award and the Office of Naval Research Young Investigator Award.

Prof. Chawla is editor of *Materials Science and Engineering A*. He also serves on the Editorial Boards of *Advanced Engineering Materials* and *Materials Characterization*. His work has been featured on the show *Modern Marvels* on the History Channel, R&D News, Fox News, and the Arizona Republic. He serves on ASU President Michael Crow's Academic Council, which provides input to the president on academic, structural, and strategic matters.

Date: Wednesday, August 8th, 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



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 August, 2012

News

- 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.
- Note that the September meeting will be held on September 5th; the date was incorrect in the previous issue of the Valley Megaphone.

Future Events

- September 5 (**note date correction**) – Chapter meeting, DeVry University, speakers Dr. Steve Miller, Don Willey, MCS, “**Integrating GPS from a Software Perspective**”.
- November 14 (**note date change**) – 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



IEEE 2012 Membership – Join/Renew



Run Ahead of the Curve

IEEE Communications Society

Global Community of Communications Professionals



Also available on iPad!

Society Membership benefits include:

- Monthly Digital Delivery of *IEEE Communications Magazine*.
- Online access to industry resources and technical papers.
- Online Tutorials, Webinars and other Educational Programs.
- Networking opportunities with technical experts around the world.
- Member discounts on the ComSoc Training, and the Wireless Communication Engineering Technologies (WCET) Certification Program.
- Monthly *ComSoc e-News* issues.
- Digital Delivery of *ComSoc Community Directory*.
- Additional ComSoc Member discounts on conferences, publications, and member-only products.
- Volunteer opportunities and eligibility for awards and recognition.
- Much more.

Become a 2012 Member – www.ieee.org • www.comsoc.org

Headquarters
 New York, USA
 3 Park Avenue, 17th Floor
 New York, NY 10016 USA
 Tel: +1 212 705 9900
 Fax: +1 212 705 9909
society@comsoc.org
www.comsoc.org

Singapore Office
 Panny Su Bin Poo, Manager
 No. 1, Fusionopolis Walk,
 #04-07, South Tower, Solaris
 139624 SINGAPORE
 Tel: +65 779 2573
 Fax: +65 779 9723
ieee@pacific.net.sg

China Office
 Ning Hua, Chief Representative
 Rm 1505, South Tower
 Raycom Info Tech Park C,
 Haidian District
 Beijing, 100190, China
 Tel: +86 10 8266 2250
 Fax: +86 10 8262 2135
n.hua@ieee.org

India Office
 Pradyumn Mundani
 Unit No. S-306,
 Block 2, Level-3
 Mahatma Gandhi Road
 Bangalore - 560001,
 Karnataka, India
 +91 93 4147 0592
 +91 93 4147 0593

IEEE Member Services
 IEEE Operations Center
 445 Hobbs Lane,
 Piscataway, NJ 08854 USA
 Tel: +1 908 678 IEEE (4333)
 Outside USA & Canada:
 +1 732 981 0060
member-serv@ieee.org
www.ieee.org



www.facebook.com/IEEEComSoc • twitter.com/ComSoc • www.linkedin.com/in/ComSoc

The Arizona Science Lab

In This Issue

[Register for a Workshop](#)

[Our Expanded Web Site](#)

[Pass the Word](#)

[Thank You](#)

[Volunteer at ASL](#)

[Your Feedback](#)

[Metrics](#)

[Letters](#)

[Visit Us](#)

Interesting Links

[What is "NGSS"?](#)

[Try Engineering!](#)

[AZ Science Lab](#)

[Press Inquiries](#)

[Contact Us](#)

[Join Our Mailing List!](#)

ASL Sponsors



THE ARIZONA SCIENCE LAB®

August, 2012

V1.1



Welcome Back to ASL

Dear colleague,

Welcome back to the Arizona Science Laboratory for another great year. We hope your summer has been a good one and that you are refreshed for a whole new round of challenges and rewards.



We have been busy over the summer reviewing and updating our workshops, reviewing the new state and national science standards (NGSS), and ordering new materials and equipment. We are continuing to develop new classes and update old favorites to better serve the students in our great valley. Please use us as your resource to expand your science teaching options.

Registration is Now Open

Reserve Your Dates Now for the Fall

We are now accepting registrations for the new school year. To schedule a workshop at the Lab, please contact our [Registrar](#), Roy Zaborowski. Visit our web site to see our current offerings.



Visit Our Web Site

More Information for You

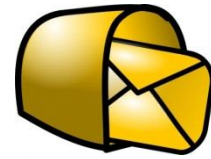
We've updated our materials on the ASL web site. See descriptions of our workshops and review our presentations on our [For Teachers](#) tab. You can also see short videos of each workshop on the [Workshop Videos](#) tab.



Pass It On



Share Us With Your Friends



Use this link to send copies of this letter to your associates, colleagues, friends –anyone, in fact, you think would be interested in what we do here. They might be students, teachers, or volunteers or just someone who cares about improving our children's educational opportunities.



Thank You for A Great Year of Accomplishments

2011 - 2012 in Quick Review



Schools Attending ASL - 22
Workshops Given - 49
Students Participating - 2471
Teachers Coached - 17
Students inspired to pursue science and math –
That's up to *all* of us!

We're Looking for Volunteers

We Need Your Help



Help us to spark an interest in science & engineering careers. Volunteers are needed to teach or just help students perform the experiments and construct projects that will make science come alive for them.

Comprehensive orientation and training are provided. Groups are welcome. Please contact Jane von Schilling, our **Volunteer Recruiter**. Volunteers who are already registered should contact Michel Ebertin, for **Staffing Assignments**.

Comments and Suggestions Welcome

We Want to Hear From You



Perhaps you want to know more about us. Or maybe you've attended a workshop and want to give us a suggestion or two. Or maybe you just want to let us know we're doing a good job. Please feel free to **drop us an e-mail** and tell us what you think.

How We Measure Success

Making An Impact

Before and after each workshop, we ask the students basic questions about engineering, science/math, and some specific questions about the topics in the workshop itself. One thing we've learned is that most students come into our workshops with very little idea of what engineers actually do and how engineering affects all our lives. Their responses after the workshops to statements such as "I know what engineers do at work" or "I am confident I could be an engineer" show dramatic increases in positive responses!



Letters From Our Students

Planning Ahead

Teachers often send us thank you letters students have written after attending a workshop. Here's a note we received from a young lady - a 7th grader - who attended one of Phoenix Union High School's Science in the City summer programs.



"Dear ASL Engineers,

Thank you so much for teaching us about solar energy and helping us design the solar powered cars. I enjoyed the building process and racing the cars was really exciting. I didn't know anything about engineering but I have to say I enjoyed the workshop a lot. I'm not sure that I will ever be an engineer, but *its always good to have a back-up plan!*"

Thanks for Coming

Schedule a Visit

This past spring we held a two-night open house. We had over 50 people attend: teachers, administrators, parents, neighbors, and scouts. We thank you for your interest and support. If you would like to arrange a visit to see ASL in action, please contact our Director, [John Purchase](#).



We are looking forward to serving you again this year. Together we can make a difference in the science education of your students.

Thank you for your caring interest in our children's education,

Roy Zaborowski
Arizona Science Laboratory

www.arizonasciencelab.org

Future Rocket Scientist Seeks Experience



Yours!

An Invitation to Engineers, Scientists and Science Enthusiasts

Dozens of engineers, scientists and amateur science enthusiasts with an aptitude for hands-on experiments are working to make a difference for Phoenix and Maricopa County 4th through 9th grade students at the **IEEE Arizona Science Lab.**

Come join us. Just a few hours can change a child's life – and yours!

Help us spark an interest in science and engineering careers.

Volunteers are needed to teach or help students perform the experiments and construct projects that will make science come alive for them.

Comprehensive volunteer training and orientation are provided.

The **IEEE Arizona Science Lab has excellent equipment and a spacious facility, and is located at the Meyer School facility, 2615 S. Dorsey Lane, Tempe, AZ.**

To RSVP or ask for more details, please contact:

Jane von Schilling, ASL Director of Volunteer Recruitment

(623) 256-8294 or jvonschilling@gmail.com

THE ARIZONA SCIENCE LAB

www.arizonasciencelab.org

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 Development

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, Ultracomm, ctabbert@ultracomm-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>