Tom Coughlin's Welcome to Region 6 - page 7

CHAPTER MEETINGS

SCV-SPS - **8/6 | Real-world Audio Source Separation** - automatic karaoke, extracting dialogue from old films, upmixing mono recordings to multi-channel recordings, Algorithmically, an ill-posed and challenging problem ... (AMD, Sunnyvale, 6:30 pm)

SCV-REL - **8/6 | Macroscopic & Stochastic Aspects of Negative Bias Temperature Instability** - shift in MOSFET parameters, defect generation explained from both macroscopic and stochastic viewpoints ... (Qualcomm, Santa Clara, 6:00 pm)

SCV-PHOTO - **8/11 | Networking in the Data center** (Intel, Santa Clara, 6 pm)

SCV-EDS - **8/11 | 2D Crystals for Smart Life** - 2D crystals for.., green electronics needed to support Big Data, IoT/IoE and social media ... (TI, Santa Clara, 6 pm)

SCV-CPMT - **8/12 | Robust 3DIC Package Assembly Process Engineering for High Volume Production** - FPGA, CoWoS (Chip-On-Wafer-On-Substrate), low power and latency, manufacturing complexity... (TI, Santa Clara, 11:30 am)

SCV-PV - **8/12 | Functional Coatings for PV Glass** - very low-cost anti-reflective coatings, engineered to survive high temperatures, humidity, abrasion, soiling ... (PARC, Palo Alto, 6:30 pm)

SCV-TEMS - **8/13 | Understanding an Industry Technical Staff Pipeline** - how the corporate staffing system works, criteria are used for career advancement ... (Webinar, 8 am)

Career Development

PROFESSIONAL DEVELOPMENT COURSES

Besser Associates - RF and Wireless Training

UCSC Extension in Silicon Valley - Engineering Classes

Ozen Engineering, Inc. - ANSYS training

EMPLOYMENT OPPORTUNITIES

Sonoma State University, Department of Engineering Teaching positions

CONFERENCE CALENDAR

Flash Memory Summit, August 11-13 2015, Santa Clara Convention Center

Hot Chips 27-A Symposium on High-Performance Chips, August 23-25, 2015, Flint Center, Cupertino

Hot Interconnects 23: A Symposium on High Performance InterconnectsAugust 26-28, 2015, Oracle Santa Clara

Interdrone September 9-11, 2015, Las Vegas, Nevada

Berkeley Symposium on Energy Efficient Electronic Systems, October 1-2, 2015, Berkeley

Rock Stars of Cybersecurity October 27, 2015, San Jose

Rock Stars of Tech Startups November 10, 2015, San Francisco

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SCV-CS - **8/18 | Big Data - Yesterday, Today, and Tomorrow** - From Hollerith machines and punch cards, Insights for the future can be gained by..."stack wars", applications ... (Cadence , San Jose, 6:30 pm)

SCV-NANO - **8/18 | Electrostatic Functionalization of Carbon Based Nanomaterials and Applications in Chemical, Gas and Bio-Sensing** - electrostatic charging for the functionalization of carbon based nanomaterials, thin films ... (TI, Santa Clara, 11:30 am)

SF-PES - **8/19 |Advanced Smart Grid Communications & Applications: A Systems View for Successful Deployment** - advanced wireless communication system, utility monitoring, communication, and control of distribution equipment ... (PUC, SF, 11:30 am)

SCV-SPS - **8/19 | Scene Understanding in the Era of Deep Learning** - Recognition of 3D objects, 3D reconstruction, category-specific priors, "deep learning" ... (AMD, Sunnyvale, 6:30 pm)

SCV-SSCS - **8/20 | Selected Analog Design Topics a Two Part Short Course** - Modem for high speed communications, 5um down to 16nm, Time-based circuits, efficient protocol for encoding edge time information ... (TI, Santa Clara, 4 pm)

Computer /BAMMF - **8/21 |Bay Area Multimedia Forum** - Vision-enhanced Immersive Interaction with Touch Board (ViiBoard), future large-scale video/light-field displays, … (George E. Pake Auditorium, Palo Alto, 1:30 pm)

SCV-CE - **8/25 | 3D Printed Package Components for High Performance Packaging** - print complex structures with multi-material inks, mechanics of the technology and manufacturing platform, package types such as SiP, PoP... (NVIDIA, Santa Clara, 6:30 pm)

SCV-CPMT - **8/27 | Packaging Solutions and Innovations with Compression Molding** - large-area-size substrates, limited by current transfer mold, slow "dipping" of the devices into either a melted granular or liquid mold compound... (TI, Santa Clara, 11:30 am)

SCV-SPS - **9/3 | Optical Character Recognition for Most of the World's Languages** - recorded information, visual rather than digital Unicode form, conversion to Unicode for use in the digital world ...(AMD, Sunnyvale, 6:30 pm)

SCV-CPMT - **9/9 | Anisotropic Conductive Film (ACF) Interconnection Technology for Wearable Electronics Applications** - flexible printed circuits (FPCs) substrates, COF (Chip On Flex)/ CIF (Chip In Flex), FOF (Flex On Flex) and FOF (Flex On Fabric) technologies ... (TI, Santa Clara, 5:45 pm)

SCV-COMSOC - **9/9 | 5G: Expectations and the Road Ahead** - path to full 5G feature set network, optimized derivative LTE versions for various vertical markets ... (TI, Santa Clara, 6:30 pm)

SF-PES - **9/16 |Understanding the Electrical Arcing and the Arc-flash Hazard Study** - theory of the electrical arcing and the accepted methods to calculate the arc-flash hazard, develop strategies to minimize burn injuries during an arc flash incident ...(PUC, SF, 11:30 am)

SCV-SPS - **10/15 | Gathering Light** - prime lenses that provide an optical zoom, small mirrors allow reconfiguring the cameras to select.., architecture of this flexible computational camera … (AMD, Sunnyvale, 6:30 pm)

SCV-MTT - **10/17 | Short Course 2015 - RF and EMI/EMC: Instrumentation, Components and Practice** - fundamentals of RF technology such as Maxwell's equations, electromagnetic theory, S-parameter methods, time and frequency domain measurement techniques, key components (amplifier, filter, and mixer) utilized in the RF and EMC ... (TBD, 8 am - 5 pm)

SF-PES - **10/21 | The Future of Energy: Smart Grid and Beyond** - Fall Banquet, roadmap, Three key visionary concepts, solar PV, Intelligent Electronic Device (IED) integration … (Jillian's at Metreon, SF, 6:30 pm)

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"Solid state drives will be the biggest change in storage, a total game-changer, and flash will be the dominant type of SSD for the foreseeable future."
Joe Tucci, EMC

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KEYNOTE SPEAKERS

Jeffrey Hawkins, Co-Founder, Palm Computing and Handspring
Robert Colwell, Former Director, DARPA's Microsystems Technology Office
Other Speakers include: Suman Datta, Penn State U., D. Scott Holmes, IARPA, Ali Javey, UC Berkeley, Pedram Khalili, UCLA, Subhasish Mitra, Stanford U., Dharmendra Modha, IBM, Peter De Dobbelaere, Luxtera Inc., Enrico Sangiorgi, U of Bologna, Shinichi Takagi, U. of Tokyo, Michael Watts, MIT, Ming C. Wu, UC Berkeley, Jun-Bo Yoon, KAIST, Jimmy Zhu, Carnegie Mellon U., 12 Contributed Talks, 3 panels, and Poster Session with 20+ presenters

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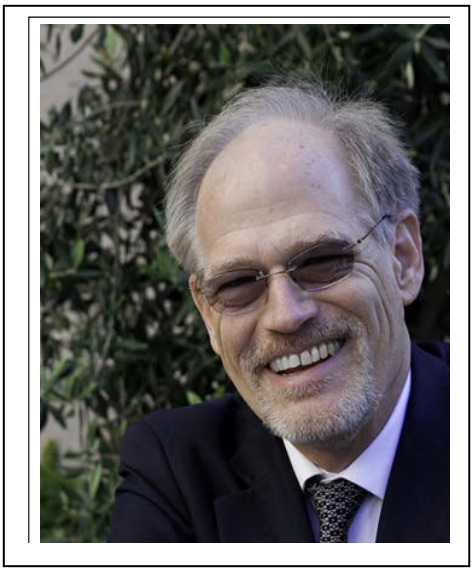
Message from the new IEEE Region 6 Director



IEEE Region 6 is a wide geographical area with diverse interests. As a consequence, we have many opportunities and challenges that face our members. We also have enormous resources, both physical and human, in Region 6. Over the last few years we have developed a series of annual conferences focusing on the IEEE motto of “Advancing Technology for Humanity.” These include our Global Humanitarian Technology Conference (GHTC) and the Technologies for Sustainability Conference (SusTech).

Over the next couple of years we are considering expanding our collection of conferences to include an Industrial Technology Conference and a Patent and Intellectual Property Conference. We are interested in what sort of events would interest you, so please let us know. Also if you are excited about getting engaged in these events we are always looking for committee members to make them successful, so let the chairs of these Conferences know if you want to get involved.

In any case, please consider coming to these events and/or letting your friends and colleagues know about them. We hope that you can come to one or more of these events and participate in the growth and development of our IEEE Region 6.

Best wishes,

Tom Coughlin

IEEE Region 6 Director 2015-16

tom@tomcoughlin.com

More messages from Tom in the following pages.

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