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Upcoming Chapter Mtgs - summaries

IC Reliability, Broadband Networks Conf's in the SF Bay Area

Quality Engng, Congestion Mgmt, Project Mgmt Courses

What Color is YOUR Parachute? - mtg

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Chapter Meetings for October/November:

SCV-EMS - 10/12: "Managing a Professional Quality Compliance Laboratory" - the keys to effective management of an EMC testing facility - either commercial or in-house - with an eye towards changes that may be coming [more]

SCV-EDS - 10/12: "Myths and Truths about High-K/Metal Gate Stack Technology" - studies on instability of high-k devices indicate that the characterization methodologies with SiO2 gate dielectric may not be accurate enough for high-k devices [more]

SCV-CPMT - 10/13: "A Novel X-ray Microtomography System with High Resolution and Throughput For Non-Destructive Imaging of Advanced Packages" and "uCT Techniques In Combined 2D/3D High Resolution X-ray Systems" - two approaches to 3-D X-ray inspection for failure analysis, with practical examples and images ... [more]

SCV-Comm - 10/13: "Digital Rights Management for Mobile Content" - most rights-management solutions have been hard to use, easy to circumvent, or unnecessarily restrictive; a network of trusted devices will give consumers content portability ... [more]

SCV-MTT - 10/14: "The Design of WCDMA Zero-IF Receivers: System and Circuit Issues" - direct-conversion receiver architecture allows integration of the radio section on-chip, for lower cost and smaller radio solution ... [more]

SCV-CS - 10/14: "Towards Human-level Artificial Intelligence" - overcoming the "brittleness" of present AI systems and reaching human-level AI requires programs that deal with the common-sense informatic situation ... [more]

SF-PES - 10/16: "Congestion Management in Power Systems" - one-day Workshop: primer, FERC market design basics, the California market, and software demonstrations ... [more]

SCV-CNSV - 10/19: "What an Engineer Needs to Know about Business" - all too frequently there is a gap in understanding between engineering and business, an often uneasy mix ... [more]

SCV-Mag - 10/19: "Is the Next Geomagnetic Reversal Imminent?" - the Earth's field has been decreasing for the past 2,000 years at a rate that would reach zero in 1200 years ... [more]

SCV-PES+IAS - 10/20: "Technical Issues and Practical Applications of Transient Voltage Surge Suppression (TVSS)" - a review of TVSS applications for electrical surge suppression for prevention of production and data loss, reduction in maintenance costs ... [more]

SCV-EMB - 10/20: "Cochlear Implants for Profound Hearing Loss - Signal Processing Considerations" - overview of the auditory system, then focus on signal processing in cochlear implants from early models to current multichannel implants and impact on speech perception and sound quality ... [more]

SCV-PACE - 10/21: "Offshoring ... Solutions for the Silicon Valley Worker" - explore solutions for the Silicon Valley worker, with panelists from a broad range of offshoring experiences, cultures, and industries ... [more]

CV-SSC - 10/21: "Power-Performance Optimization Methods for Digital Circuits" - in deep-submicron technologies, targeting the ultimate performance usually results in prohibitive power consumption ... [more]

SVEC - 10/22: SVEC Technical Symposium "Engineering Advancements for our Future" - one-day program: Steve Wozniak (Keynote), Meyya Meyyappan (on nanotechnology), Jean Woloszko (surgical tools), Elton Cairns (fuel cells), Michael Steckel (biotech), and others ... [more]

SCV-CPMT - 10/26: "Transitioning From Individual Contributor to Manager" - one-day class at HP in Cupertino for prospective or new managers in a technical environment - critical concepts and skills ... [more]

SF-IAS - 10/26: "Overview of IEEE Standard 1100-1999 - Recommended Practice for Powering and Grounding Electronic Equipment (Emerald Book)" - how it is organized, with highlights from chapters; it is now in the balloting process ... [more]

SCV-PSE - 10/26: "Getting Medical Products to the EU is Not All About Product Safety" - the documentation required to get your medical product into the EU and some of the many aspects called "safety" ... [more]

SCV-WIE - 10/27: "How to Balance Career Goals and Time for a Family" - Panel and discussion: insight from successful women engineers on how to maintain technical skills without sacrificing the opportunity to have a family ... [more]

SCV-ReI - 10/27: "Reliability Horror Stories" - Halloween's truly ghoulish reliability horror stories from a career at Apple and elsewhere, then it's audience participation time ... [more]

The Council Marketplace

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SCV-EMS - 10/27: "Startups that Survived the Bust: The Silicon Valley Spirit" - What was unique about survivors of the dot-com bust that allowed them to rise from the ashes, prosper, and flourish? ... [more]

SCV-CPMT - 10/27: "Getting Things Done Across Organizational Borders" - one-day class at HP in Cupertino: innovative practices for dealing with people who do not report to you - but whose assistance and support are critical ... [more]

SCV-CPMT - 10/28-29: "Breakthrough Project Management" - two-day class at HP in Cupertino: a common methodology, terminology and tools for projects that produce more efficient results ... [more]

SCV-CPMT - 10/28 Lunch: "The Nanotechnology Frontier: Applications of Nano to Materials and Packaging" - the engagement between the Engineer and Nanotechnology, the technology readiness level, achievements to date, and why only the Engineer can grow the Nanotechnology Frontier into an Industry ... [more]

SCV-CPMT - 11/10: "Packaging Challenges in Micro-Optical Electromechanical Systems (MOEMS) Components: the DMD as a Case Study" - the digital micromirror device, at video bandwidths and increasing bit depths, is a successful product in spite of low volume, hard-to-hold, and hard-to-handle problems requiring surface chemistry control on the monolayer or nanometer scale ... [more]

SCV-MTT - 11/11: "Microwaves in the Time-Domain" - time-domain characterization can be used for high-speed digital circuitry with clock speeds in the microwave region ... [more]

SCV-PACE - 11/15: "Parachuting to a Soft Landing in the Silicon Valley Job Hunt" - a talk by the author of "What Color is Your Parachute?" - how to do a job search today ... see below ... [more]

SCV-SSC - 11/18: "Cascaded Noise-Shaping for Oversampling A/D and D/A Conversion" - the performance of cascaded oversampling modulators with low oversampling ratios has been extended to enable digitization of signals to several MHz ... [more]

Summary of Upcoming Bay Area Conferences -- find one in your technical specialty

OCTOBER:

Oct 18-21: IRW'04: IEEE Int'l Integrated Reliability Workshop, Stanford Sierra Camp, near Lake Tahoe [more] ... ensuring semiconductor reliability through component fabrication, design, characterization, and analysis tools, including Cu interconnects & low-k dielectrics, NBTI, ultra-thin gate oxide reliability, the reliability of deep sub-micron, SOI devices, reliability modeling and simulation, and the reliability of future technologies such as high-k gate dielectrics.

Call for Papers: Int'l Symposium on Quality Electronic Design, March 28-30, 2005 in San Jose [more] ISQED is the first and leading international conference dealing with the design for manufacturability and quality issues front-to-back, with three parallel tracks, hosting near 100 technical presentations, keynote speakers, panel discussions, workshops/tutorials and other informal meetings. Abstracts are solicited in the areas of level Design, Methodologies & Tools, Design for Manufacturability & Quality, based EDA Tools, Design Techniques and Methodologies, Design Flows for SoC, ASIC, FPGA, RF, and Memory, and similar topics.

Oct 25-29: BroadNets'04: First International Conference on Broadband Networks, San Jose Hilton and Towers [more] ... next-generation networks with ultra-high bandwidth - Optical and Wireless broadband networks.

Keynote Speakers: Dr. Vinton Cerf, Senior VP of Tecnology Strategy, MCI "Broadband Internet - what are the implications?" Dr. Lawrence G. Roberts, CEO, Anagran Inc.

... plus tutorials, panels, technical workshop "tracks" covering BaseNets, BroadWIM, BroadWise, OBS, PathNets, GridNets, and Traffic Grooming.

Review the Advance Program and registration information.

Please see the full Call for Papers, on the ISQED website: www.isqed.org. The deadline is **October 20th**.

Short Courses and Seminars for October:

No-cost Panel Discussion:

Solutions to Offshoring for Silicon Valley Workers [[more...](#)]

Date: Thursday October 21

Time: 6:00 - 8:00 PM

Place: Quinlan Community Center, 10185 N. Stelling, Cupertino

The event will explore offshoring and the solutions for the Silicon Valley worker. Panelists from a broad range of offshoring experiences, cultures, and industries will delve into the many aspects of offshoring with new insights for the Silicon Valley worker. Panelists from: Hewlett Packard, Accelerance, U of Phoenix, Broadvision and others.

Co-sponsored by SCV PACE and CSix Events. Seating is limited! RSVP to PREvents@csix.org.

CQE EXAM PREPARATION COURSE [[more](#)]

If you need a good, in-depth course in quality engineering, this class can benefit you substantially. In addition, the in-depth course contents prepare you for the Certified Quality Engineer exam.

Course Starts October 12th

Schedule: Eight consecutive Tuesdays 6 - 10 PM from October 12 thru November 30, 2004

Location: Santa Clara

Registration: This course fills up quickly and seating is limited. To register, or for full information, please email ASAP to: cqeprep@opsalacarte.com or call (408) 472-3889

SF Power Engineering Society Chapter One-Day Workshop:

Congestion Management in Power Systems [[more](#)]

Date & Location: Saturday, **October 16, 2004** (8 AM to 5 PM) at San Francisco State University, Science Building, Room 101 (SCI-101)

This intensive one-day course will provide participants an in-depth understanding of the basics of congestion management in power systems. Participants will learn about congestion, how to deal with it, its financial impacts, its impact on market design as envisioned by FERC and the CAISO and learn about all the state-of-the-art software tools and technologies of the trade. Software demonstrations by leading vendors will provide a grand finale for driving the concepts home.

Get [more information](#) about the Workshop and speakers.
Register Today!

Transitioning From Individual Contributor to Manager [[more](#)]

Date/Time: Tuesday October 26, 8:30AM-4:30PM

Instructor: Roxanna Dunn, HP (retired)

Location: HP Training Center, Cupertino

Fee: \$350 for IEEE Members; \$425 non-members

The transition from individual contributor to manager can be the most challenging shift in a person's career. This program is designed to introduce prospective or newly promoted managers in a technical environment to the concepts and skills critical to a successful assumption of leadership.

Full [course description and registration details](#).

Getting Things Done Across Organizational Borders [[more](#)]

Date/Time: Wednesday October 27, 8:30AM-4:30PM

Instructor: Dr. Andrew Oravets

Location: HP Training Center, Cupertino

Fee: \$350 for IEEE Members; \$425 non-members

This seminar introduces you to innovative practices for dealing with people who do not report to you -- but whose assistance and support are critical.

Full [course description and registration details](#).

Breakthrough Project Management [[more](#)]

Date/Time: Thurs-Friday, October 28-29, 8:30AM-4:30PM

Instructor: Richard Simonds

Location: HP Training Center, Cupertino

Fee: \$575 for IEEE Members; \$625 non-members

This 2-day course provides participants with a common methodology, terminology and tools that produce more efficient results and increased buy-in through improved visibility, reliability and consistency.

Key Topics: - Project Barriers & Breakthroughs - Team Development & Leadership - Define POS & Scope - Use the Trade-Off Flexibility Matrix - Make Fact-Based Decisions - Define Tasks - Create Work Breakdown Structure - Analyze Risks & Contingency Plans - Diagram Dependencies (CPM,PERT) - Manage the Project: Step-by-Step - Effective Meetings
Full [course description and registration details](#).

SCV-PACE & SCV-CAS present:

"Parachuting to a Soft Landing in the Silicon Valley Job Hunt"

with Richard Bolles, author of "What Color is Your Parachute?"

Monday, November 15th Dinner Meeting [[more...](#)]

We learn that corporate leaders, at the top of the ladder, often get a "golden parachute" to enable them to move to another position with little financial hardship. The rest of us have to make other plans, or find ourselves making these plans when we find ourselves out of work.

Richard Bolles, known the world over as the author of the best-selling job-hunting book in history, "What Color Is Your Parachute?," is acknowledged as "America's top career expert" by Modern Maturity Magazine, and is listed in "Who's Who In America." He lives in the Bay Area, and Santa Clara Valley PACE has arranged for a discussion of the job search process by the author to assist the members in the Section who are facing a job transition now, or may face one in the near future. A light dinner will be served for a nominal fee, with a discount for IEEE members and their guest.

Quote of the Month:

My grandfather grew up across the classroom from the people he would compete with for life.

My father grew up across the country from the people he would compete with for life.

I grew up across the world from the people I would compete with for life -- only they knew it and I didn't.
-- Source Unknown

From the Fall 2004 issue of "The Bent" Magazine of Tau Beta Pi

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Please invite other non-Member technologists in the Bay Area to join this list, to receive notification of Chapter meetings, tutorials, workshops, conferences, and other news within the San Francisco Bay Area Council, IEEE. See <http://www.e-grid.net/>

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