



Serving the San Francisco, Oakland-East Bay, and Santa Clara Valley Sections of the IEEE
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[August Chapter Meetings - summaries](#)

[Resources for the Unemployed Engineer](#)

[Upcoming Conferences in the SF Bay Area](#)

[New Education Chapter Forms in SCV](#)

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Download the new [August GRID.pdf](#) (1 MB)

Success in the fast-paced world of technology requires good networking -- and continuous, life-long learning. The August issue of the **GRID.pdf** is full of opportunities to learn about new developments, master a new skill, and network with fellow professionals. We suggest that you download the PDF file and put it on your computer desktop, so you can refer to it during the month.

Check for updated information during the month at our **GRID** website: www.e-grid.net/

Chapter Meetings for August:

SCV-LEOS - 8/3: "**Directed Energy Weapons Systems**" - The future path for Distant Early Warning (DEW) may well transition to high power solid state lasers and these create their own set of integration problems ... [\[more\]](#)

SCV-CNSV - 8/6: "**Entrepreneurs SIG**" - Meeting most Friday afternoons in Sunnyvale ... [\[more\]](#)

SF-PES - 8/18: Summer Banquet "**Electric Power: Demand Response Issues in California**" - Two speakers on the prospect of blackouts for the West Coast, what California is doing, and how Demand Response figures into the equation ... [\[more\]](#)

SCV-SSC - 8/19: "**A Very Low Power CMOS Mixed-Signal IC for Implantable Pacemaker Applications**" - A single-chip, very-low-power interface IC for implantable pacemaker systems uses new circuit techniques to achieve nano-power circuit operations with sub-micron CMOS processes ... [\[more\]](#)

SCV-WIE - 8/25: "**RFID: the Next Big Thing for the Retail Industry**" - Insights into the emerging technology of RFID and how it can be leveraged today with minimal enhancements to the current IT infrastructure ... [\[more\]](#)

SCV-CPMT - 9/8: "**Alternative Packaging Technologies for 3-D Packaging**" - the need for higher speed, lower power, smaller form-factors, and even cost are driving system packaging to explore the third dimension ... [\[more\]](#)

Workshops at this year's EMC'04 in Santa Clara on Monday Aug 9 or Friday Aug 13

(Workshop-only registrations OK) [\[more\]](#)

NARTE EMC Exam - Monday: Exam Prep Workshop - Friday: NARTE EMC Engineer Exam
PCB Design - Double-Sided and Multilayer: intended for the novice to intermediate product designer - the design steps necessary to make PCBs meet EMC requirements.

Fundamentals of EMC Design: Understanding and applying basic design principles - how to design circuits and systems with built-in compatibility - fast rise and ultra-wide-bandwidth energy signals, sensitive sensors - medical, military, communications, IT, and instrumentation.

Plus a Dozen More -- See the full details for all of them in the Advance Program. And remember - you can come for as little as one day of Workshops (minimal cost), or an afternoon at the exhibits (free) - in the heart of Silicon Valley.

Tutorials, Workshops, Professional Development Courses

Reliability Engineering & CRE Exam Preparation Course

- Seven-week evening course
- Starts **Tuesday, August 10th**
- Tuesdays from 6 - 10 PM (thru Sept 21)
- Location: QualMark Corp,
 - 990 Richard Ave, Santa Clara
- Course Fee: \$995 (includes text book)
- 25% discount for unemployed
- This course fills up quickly and seating is limited

For more information, send an email to creprep@opsalacarte.com or call 408-472-3889.

The Council Marketplace

Do you require someone with special skills -- RF, reliability, communications, design, patent consultations? ... PCB layout, thermal measurements, SCSi, SANs? See our **Council Marketplace** page. Thank you for supporting our advertisers.

SPECIAL -- FOR THE UNEMPLOYED ENGINEER

The following opportunities are suggested for any engineer, but especially for those currently without jobs. They are **free**.

Local Job Listings on the SCV Section's Website [\[more\]](#)

The Santa Clara Valley PACE committee, along with webmaster Linda Fong, are finding local jobs (many unposted) that IEEE Members are encouraged to review. In addition, specific individuals have been recruited within companies who will bring your resumé to the attention of the hiring managers.

FREE Admission to Most Events at WESCON - Sept 21-23 [\[more\]](#)

You can get a free pass to the pavilions (Design & Analysis, Test & Measurement, Power Components, Supply-Chain Management, RFID), plenary talks, the autonomous-vehicle showcase, job fair, and much more -- everything except NANOWorld and the Tutorials. Spend a few days in Anaheim at WESCON next month and catch up on new developments and trends. See the two-page announcement in the [GRID.pdf](#) for more details and a copy of the registration form.

FREE IEEE Professional Development Workshops - [\[more\]](#)

Tuesday, Sept 28 -- from IEEE-USA:

- "**Taking Charge of Your Destiny: The New Rules for Career Success**" (2 hours)

- "**Networking for Success**" (2 hours)

- "**Project Management**" (4 hours)

Organized by IEEE*USA and PACE, attendance at these PD Workshops is **free** with the (free) admission pass to the GSPx Expo at the Santa Clara Convention Center -- great for our unemployed Members! Sign up today! See www.e-grid.net/conf/gspx.html

... and don't forget that all Chapter Meetings are free (with possibly a charge for the optional dinner).

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

AUGUST:

August 9-13: **IEEE Electromagnetic Compatibility Symposium (EMC'04)**, Santa Clara Convention Center [\[more\]](#)
... five full days with workshops and special sessions, over 200 exhibitors of EMC-related products and services (free). See the two-page flyer (with listing of exhibitors) in the [GRID.pdf](#), or visit www.e-grid.net/conf/emc.html.

August 13-15: **IEEE Product Safety Engineering Symposium (PSES'04)**, Santa Clara Convention Center [\[more\]](#)
... Technical Sessions, Workshops, Tutorials, Demonstrations, Exhibits. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/pses.html.

August 16-19: **IEEE Computational Systems Bioinformatics Conference** on the Stanford University campus [\[more\]](#)
... keynote speakers, poster presentations, and tutorials for bioinformatics' eclectic mix of disciplines. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/csb.html.

August 22-27: **International Conference on Ferrites (ICF 9)** in San Francisco [\[more\]](#)
... science and technology of ferrites and related materials, more than 250 presentation. Reduced-rate registration through July 23. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/icf.html.

August 25-27: **IEEE Hot Interconnects Symposium** at Stanford University [\[more\]](#)
... high-performance chips, software, and systems ... multiprocessor and system-level interconnects. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/hoti.html.

SEPTEMBER:

Sept 1-5: **IEEE Int'l Conference on Engineering in Medicine and Biology (EMBC'04)** Westin St. Francis Hotel, SF [\[more\]](#)
... Technical Sessions, Workshops, Tutorials, Seminars, "Best Practices" roundtables, more. Reduced rates through July 1. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/emb.html.

Sept 12-15: **IEEE International SOC Conference (SOCC'04)** Santa Clara Hilton, Santa Clara [\[more\]](#)
... advances in **Systems-on-Chip** technologies and applications -- Design Methods, Design Tools, Design Automation, Manufacturing, and Test. Visit www.e-grid.net/conf/socc.html.

Sept 21-23: **IEEE Wescon/2004**, Anaheim Convention Center [\[more\]](#)
... Includes **NANOWorld**, **Enterprise Integration EXPO**, the Autonomous Vehicle Technology Showcase, exhibits -- owned by engineers and run by engineers to benefit engineers. Most events are **free**. See the one-page flyer in the [GRID.pdf](#), or visit www.e-grid.net/conf/wescon.html.

Sept 27-30: **GSPx: the International Embedded Signal Processing Conference and Exhibition**, Santa Clara Convention Center [\[more\]](#)
... Includes **Executive Summit**, Technical sessions and workshops, exhibits. Visit www.e-grid.net/conf/gsp.html.

Oct 4-7: **SECON'04: IEEE In'tl Conf on Sensor and Ad Hoc Communications and Networks**, Santa Clara Marriott [\[more\]](#)
addressing the new generation of inexpensive mobile devices, sensors and actuators, and a broad range of applications.

New Santa Clara Valley Chapter:

IEEE Education Society Chapter Forms

The Silicon Valley Chapter of the IEEE Education Society was formed recently, as a result of a petition effort initiated by Lili He of San Jose State University. The goals and objectives of the Education Society are to advance the theory, practice and accessibility of engineering education and to assist in achieving overall IEEE goals. The 1st meeting of the chapter was successfully held on May 26th at the Silicon Valley Technical Institute. Chapter officers were selected from the meeting attendees as follows:

- Chair: Lili He, San Jose State University
- Vice Chair: Ali Iranmanesh, Silicon Valley Technical Institute
- Treasurer: Jayasimha Prasad, Maxim
- Secretary: Jin Zhao, Sigrity
- Web Master: Jin Zhao
- Programs Chair: Khosrow Lashkari, Silicon Valley Technical Institute

The chapter meetings will be held on the 3rd Wednesday of every month at Silicon Valley Technical Institute. It was also decided that the chapter would actively develop technical and informational meetings for the benefit of all IEEE members and working professionals who have a particular interest in education in electrical, electronic, and computer engineering.

Anyone interested in joining the steering committee of the new IEEE Education Society SCV Chapter can contact either of the organizers:

- Prof. Lili He, lhe@email.sjsu.edu
- Ali Iranmanesh, Alii@svtii.com

SUBSCRIBE yourself to this IEEE Council and e-GRID DList

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Technologists who are not members of IEEE are **encouraged to subscribe, at no cost, to this e-GRID Newsletter**, to find opportunities to "network" with the electrical engineering community and hear about Chapter events through our twice-monthly emails. This is a controlled list (ie, no spam) -- [get more information](#). You provide your own subscribe/unsubscribe services and can join and leave this IEEE DList when desired. To update the list, send an email message to:

listserv@listserv.ieee.org

...with the following choices in the BODY (not Subject) of the message:

to SUBSCRIBE:

subscribe e-GRID FirstName LastName

Or, to receive a text-only notification email, use the following in the BODY (not Subject) of the message:

to SUBSCRIBE:

subscribe e-GRID-text FirstName LastName

to UNSUBSCRIBE:
unsubscribe e-GRID

to UNSUBSCRIBE:
unsubscribe e-GRID-text

Maintain your current DList records at our IEEE LISTSERV website: <http://listserv.ieee.org/>

You may need to "whitelist" our email addresses in your spam filter to allow our Council news to reach you; I suggest whitelisting my email address, plus that of the DLIST: e-GRID@listserv.ieee.org.

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/>

Correspondence to [Paul Wesling](#), Council Communications Director