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[SSR2005 Symp. and Microlithography Symp.](#)

[Designing for Hi-Speed, Broadband Seminar](#)

[Embedded Systems Conf. and Quality Design Symp.](#)

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Download the new [February GRID.pdf](#) (525 kB) -- details on all upcoming meetings and for many conferences and classes. Select one of the Chapter meetings to learn about new developments and to network with fellow professionals -- choose a course or conference to master new skills. Check for updated information during the month at our **GRID** website: www.e-grid.net/

Chapter Meetings for February:

SCV-LEOS - 2/1: **Cavity Enhanced Spectroscopy** - cavity ring-down spectroscopy (CRDS) can provide high sensitivity, high precision, and absolute calibration in a wide range of environments ... [\[more\]](#)

SCV-EMC - 2/8: **Locating ESD and other Impulsive Events by Time of Arrival** - with fast digital scopes widely available, impulsive events can be located with simple handmade antennas ... [\[more\]](#)

SCV-EDS - 2/8: **Optoelectronics at Work: From Optical Inverters to Detectors** - two major on-going projects within the Center for Micro and Nano Technology at Lawrence Livermore National Labs ... [\[more\]](#)

SCV-CPMT - 2/9: **From Printed Circuit Boards to Substrates: Reflecting on the History of these Technologies** - manufacturing challenges, current development needs, environmental demands ... [\[more\]](#)

SCV-Com - 2/9: **Open Wireless Architecture (OWA) for Next Generation Wireless and Mobile Communications** - integration of different evolving and emerging wireless access technologies in a common flexible and expandable platform ... [\[more\]](#)

SCV-MTT - 2/10: **High Frequency Vector Network Analyzer Calibration Basics** - the basic theory of the VNA, its calibration, calibration standards and models, and accuracy factors ... [\[more\]](#)

SCV-CS + Stanford - 2/10: **A RISKS-Oriented View of Software Development** - lessons to be learned from the cases collected in the Online Risks Forum and the ACM Software Engng Notes ... [\[more\]](#)

SCV-Mag - 2/15 **Spin Torque, and Nanorings** - description of two new topics in magnetic nanostructures from inception to realization to potential applications ... [\[more\]](#)

SCV-EMB - 2/16: **On-demand Technology Development for Medical Imaging Clinical Trials** - typical challenges commonly encountered in developing technology for managing imaging-based clinical trials on a global scale ... [\[more\]](#)

SCV-SSC - 2/17: **SiGe Heterojunction Bipolar Technology and Applications** - HBT's can be easily integrated into a standard CMOS flow for full-fledged manufacturing ... [\[more\]](#)

OEB-IAS - 2/17: **Short Circuit and Coordination Analysis Studies** - helpful guidelines and advice on producing and then analyzing the computed and graphical results ... [\[more\]](#)

OEB-Com - 2/17: **Electromagnetic Interference Shielding for New Communication Products** - methods and products solve these problems while at the same time complying with new mandated regulations ... [\[more\]](#)

SCV-CNSV - 2/22: **High Tech Recovery! Is it going to be as good as it has been?** - new data on the Silicon Valley, state and US high-tech industry, for self-employed and independent consultants ... [\[more\]](#)

SCV-PACE - 2/22: **The Realities and Myths of Engineer Retraining** - industry and education panel with views relevant to working engineers ... [\[more\]](#)

SCV-PSES - 2/22: **Effective Environmental Stress Screening, and Lab Tour** - how to effectively apply ESS to your products, and tour of Quanta Labs ... [\[more\]](#)

SCV-CPMT - 2/24: **High Frequency Fullwave Simulation of Packages** ... [\[more\]](#)

SCV-MBS - 2/26: **Radiofest: Public Service Event for Demonstrating Science and Technology for the Public Welfare** - free event includes many 1-hour talks, plus demonstrations of radio modes, and a vendor fleamarket ... [\[more\]](#)

Engineers Week Banquet

- Wed. Feb. 23, Westin Hotel, Santa Clara
- 5:30 PM - 9:15 PM
- Honoring SVEC Hall of Fame Inductees Doug Engelbart, Ken Levy, T.J. Rogers, others
- Awarding of scholarships; Discover-E presentation
- Reduced price through February 4th
- Come join the celebration -- bring a team!
- See [Registration Form](#) for more details
Organized by Silicon Valley Engineering Council

Chapter Meetings for March:

SCV-CPMT - 3/16: **New, Ultrahigh Thermal Conductivity Materials** - improved thermal performance and reliability, simplified thermal design, elimination of fans and heat pipes, weight savings ... [\[more\]](#)

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2005 Materials Research Society Spring Meeting [\[more\]](#)

- 28 March - 1 April 2005
- Moscone Convention Center, San Francisco

The technical sessions highlight advances in the synthesis, characterization, simulation, and application of materials, from understanding materials fundamentals to fabrication of devices using electronic and electro-optic materials, nanostructured and molecular materials, and biological and hybrid materials.

35 Symposia Tracks!

Electronics and Photonics:

- Amorphous and Nanocrystalline Silicon Science - Materials, Technology, and Reliability of Advanced Interconnects - Semiconductor Defect Engineering - Thin-Film Compound Semiconductor Photovoltaics - Advanced Gate Dielectric Stacks on High-Mobility Semiconductors - Giant-Area Electronics on Nonconventional Substrates - Organic Thin-Film Electronics - Micro- and Nanosystems

Biological and Molecular Materials:

- Biological and Bio-Inspired Materials and Devices - Mechanical Behavior of Biological Materials - Developing Nano-Bio Interfaces - Polymer Gels for Emerging Technologies

Nanoscale and Interfacial Phenomena

- Thin Film Stresses and Mechanical Properties - In-situ Studies of Gas/Solid Surface Reaction Dynamics - "Smart" Surfaces and Interfaces - Nanoporous and Nanostructured Materials for Catalysis, Sensor, and Gas Separation Applications - Magnetic Nanoparticles and Nanowires - Nanostructured Diamond and Diamond-Like Materials for Micro- and Nanodevices - Science and Applications of Carbon Nanotubes

... and more

IEEE/CPMT/EMS Short Courses

Professional Skills Development and Management Classes

Enjoy lifetime employability; stay ahead of changing professional demands; sharpen your competitive edge with up-to-date skills.

Clear Business & Technical Writing

Date/Time: Tuesday, Feb. 15, 8:30AM-4:30PM

Location: Carl Zeiss Meditec, Dublin

Fee: \$375 for IEEE Members; \$425 non-members

step-by-step process for designing and writing a clear technical document; gain confidence in writing and editing skills

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

Presentation Skills For Engineers

Date/Time: Friday, Feb. 18, 8:30AM-4:30PM

Location: VeriSign, Mountain View

Fee: \$425 for IEEE Members; \$475 non-members

For professionals who are called upon to make formal or informal presentations. Deliver your ideas clearly, demonstrate confidence and enthusiasm, and handle objections with poise. Class size is limited to 10 participants.

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

new! "Writing Effective E-mail Messages

Date/Time: Thursday, Feb. 24, 8:30AM-4:30PM

Location: Exar, Fremont

Fee: \$375 for IEEE Members; \$425 non-members

(also Tuesday, March 15, at Synopsys Corp in Sunnyvale)

step-by-step process for designing and writing a clear technical document; gain confidence in writing and editing skills

- 12 Tutorials (no extra charge for attendees)
- Over 100 international exhibitors

Register by **March 11th** to get the \$100 discount
Review the [Advance Program and registration form](#)

Take BART or Muni to the Powell Street Station

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

new! Communication & Conflict Management using Myers-Briggs (MBTI)

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

Location: Carl Zeiss Meditec, Dublin

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

The Myers-Briggs Type Inventory (MBTI) is the most widely used instrument in the world to gain a deeper understanding of self, others and interpersonal relationships. Gain insights to the four basic "people patterns" that hold the key to leadership styles, effective communication, conflict, team building and productivity.

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

Getting Things Done Across Organizational Borders

Date/Time: Thursday, March 24, 8:30AM-4:30PM

Location: Synopsys Corp, Sunnyvale

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

Innovative practices for dealing with people who do not report to you, but whose assistance and support are critical. New perspectives on the root causes of your communication blockages with others, as well as practical techniques for reaching mutually satisfying agreements.

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

IEEE Systems, Man, and Cybernetics Society

International Symposium on Systems and Human Science - Safety, Security, Reliability [\[more\]](#)

- March 9-11, 2005

- Milbrae (SF International Airport Westin Hotel)

"Engineered Complex Systems in the 21st Century"

SSR2005 is intended to facilitate the development of new ideas and approaches to support the creation of engineered complex systems - consisting of machine, software, and human elements - on which our modern societies increasingly depend for safety, security, and well being.

Topics: - Integration of systems and human sciences - Complexity, uncertainty, and nonlinearity - Evaluation and diagnosis of complex systems - Sensors, communications, and data fusion - Human and organizational behavior and errors - Measurement, monitoring, and reliable control - Network and systems security - Concepts, formalisms, methods and tools - Risk management and decision analysis

Attendance includes an optional tour of the National Ignition Facility (NIF) at Lawrence Livermore National Laboratory

For Symposium and registration information, please [access the SSR2005 website](#) and also the [Registration and Tour Application Form](#)

Microwave Theory & Techniques Chapter, SCV

Designs for the High-Speed, Broadband Information Age [\[more\]](#)

- 8:00 AM - Noon, Wednesday April 13, 2005

- Santa Clara Convention Center

- In conjunction with IEEE WESCON'05

- Includes free WESCON admission - Plenty of free parking

Four Presentations: 100GHz CMOS Circuits and the High Speed Broadband Information Age (Dr. Luiz Franca-Neto, Intel) - SiGe and RFCMOS Technology for the High Speed Information Age (Dr. Ben Yuan, IBM) - InP HBT Design for 100 to 200GHz ICs (Dr. Zachary Griffiths, UC Santa Barbara) - SiC and GaN Based Transistor and Circuit Advances (Simon Wood, Cree Microwave)

Register by **April 9th** to get discount rate (\$50 for Members)

Download the [Advance Program and registration form](#)

Microlithography Symposium 2005 [\[more\]](#)

- 27 February - 4 March 2005

- San Jose Convention Center

Six Conference Tracks:

- Emerging Lithographic Technologies - Metrology, Inspection, and Process Control - Advances in Resist Technology & Processing - Optical Microlithography - Data Analysis & Modeling for Process Control - Design and Process Integration for Microelectronics Manufacturing

Sunday half-day courses (25 choices)

- Students Save 50% on Courses; Group discounts available

Admission to the Exhibits -- no charge:

- IC design, fabrication, processing, manufacturing

Register by **February 15th** to get the \$100 discount

Download the [Advance Program and registration form](#)

The Largest System Design Event in North America

EMBEDDED SYSTEMS CONFERENCE [\[more\]](#)

- March 6 - 10, 2005

- Moscone Convention Center, SF

The Embedded Systems Conference offers an exciting line-up of special events. All are no-cost to registered attendees and range from keynote addresses and networking opportunities, to receptions and panel discussions, all designed to enrich your event experience.

Sunday and Monday full-day tutorials: - User Interface Design - Embedded Linux Jumpstart - Embedded C Programming - Real-Time UML - Real-Time Kernels - Managing Embedded Projects - Embedded GNU Jumpstart - TCP/IP Networking and 7 more, plus

132 three-hour and 90-minute Technical Classes on Tuesday through Friday

Flexible Registration Packages: - 1-day, 2-day, 3-day, full 5-day, or the ePass value

- No-cost Exhibits Pass (includes Keynotes and Panels)

Register by **February 8th** for discount rates.

[Get complete information.](#)

Ride BART or MUNI to the Powell Street station

"Design for Quality in the Era of Uncertainty"

International Symposium on Quality Electronic Design [\[more\]](#)

- Sponsors: EDS - CAS - CPMT - SigDA

- March 21-23, 2005

- Double Tree Hotel, San Jose

ISQED is the pioneer and leading conference dealing with CAD and design for manufacturability and quality issues, front to back.

TUTORIALS (all day Monday): - Design of sub-90nm CMOS Circuits and Design Methodologies - Package-Chip Co-Design

Technical Sessions: - Leakage and Dynamic Power Issues - Test Application and Cost Reduction - Performance and Reliability Analysis for Yield Optimization - Functional Verification and Test Generation - DFM for Circuit Design - Analog Test and BIST-

Variability Issues in Nanoscale Circuits - Advances in Floor Planning - Robust Design under

Parameter Variations (and more)

Register by **March 14th** for discount rates.

[Get complete information.](#)

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