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below: Wescon tutorials: RFID, uWave ICs, EMC, Control Systems

MBTI, Effective Email, Comm'ns classes

Embedded Systems Conf. and SSR'05 Symposium

Quality Design Symp. and MRS Spring Meeting

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Download the new March GRID.pdf (750 kB) -- details on upcoming Chapter meetings on a wide variety of topics, and for many conferences and classes. Learning is not compulsory... neither is your job. In today's world, increasing competition has made professional development a requirement -- not an option. Stay ahead of changing professional demands; sharpen your competitive edge with up-to-date technical skills and through your networking activities. Check for updated information during the month at our GRID website: www.e-grid.net/

Chapter Meetings for March:

SCV CAS+SSC - 3/3 | Circuits and Processing Techniques for Enhancing Sigma-Delta Performance - achieving the best trade-off between power consumption, oversampling, and performance ... [more]

SIP - 3/4 | Is there life on Mars? - The story behind the landings and findings of the Mars Exploration Rovers -- Spirit and Opportunity ... [more]

SCV-ED - 3/8 | Gate Tunneling in MOS Devices - Modeling and Simulation, Device Characterization and Circuit Effects - state-of-the-art in carrier tunneling studies in deep submicron MOSFETs with ultrathin gate dielectrics ... [more]

SCV-Comm - 3/9 | Wireless Facts and Fiction - sorting out WiFi, WiMax, Mesh Networks, Smart Antennas, OFDM, UWB, CDMA ... [more]

SCV-MTT - 3/10 | Millimeter Wave Technology and Applications - generating, measuring, calibrating and verifying vector and scalar signals at millimeter wave frequencies ... [more]

SF-GOLD - 3/10 | Graduates Of the Last Decade (GOLD): Social and Networking - help for new engineers bridging the transition from student into career professional ... [more]

SCV-PACE - 3/10 | IEEE Job Site Forum: How to Better Serve Members & Employers - an in-depth analysis of how the IEEE jobs site is being managed ... [more]

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]

SF-PES - 3/16 | Transbay HVDC Cable Technology - proposed high-voltage direct-current submarine cable for transmission capacity (400 MW) between the Pittsburg and Potrero switchyards ... [more]

SCV-EMB - 3/16 | Gastric Electrical Stimulation - the history of gastric electrical stimulation is discussed, focusing on recent progress in the treatment of obesity ... [more]

SCV-SSC - 3/17 | The Road to 60 GHz Wireless CMOS - a 60 GHz multi-antenna phased array for low cost robust high data rate system in a compact package ... [more]

SCV-CE - 3/22 | Panel Discussion: Video on Demand (VOD) - home networking and service provider solutions for choice and flexibility in Internet based VOD ... [more]

SCV-CNSV - 3/22 | Role of Computer Tomography in Molecular Imaging - this technique will become the future of medical imaging, especially in gene therapy ... [more]

SCV-Re1 - 3/23 | How Cosmic Rays Cause Computer Downtime - more users and designers most now contend with soft error possibilities in their designs ... [more]

SCV-Ed - 3/23 | Shaping the Future of Engineering Education in Silicon Valley - current challenges and possibilities for shaping the future of engineering education in the Valley ... [more]

SCV-EMB - 4/20 | Tactile Pressure Imaging: A New Tool For In Vivo Physiological Assessment for Gastroenterology - portable advanced pressure imaging system with high fidelity pressure maps of the gastrointestinal tract ... [more]

The Council Marketplace

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

Try out a new publication at half-price? This is the time of year when any IEEE member can add one or more publications for the balance of 2005 at the half-price rate. It's a great chance to try out one of the Societies you've thought about joining, and sampling its services and magazines/journals. You could check out the Nanotechnology, Nanobioscience, or Advanced Packaging journals (or dozens of others) for several issues, or get Computer or Microwave magazine. To update the features of your membership, call 1-800-678-IEEE, or do it online.

April 12-14, Santa Clara Convention Center Theme: D2M -- from Design to Manufacture Wescon Previews [more]

Welcome to the exciting world of Wescon, and its new location in the Santa Clara Valley. Plan to spend a full day at the exhibits and programs. Most of the program is at no cost, and there's plenty of parking.

Design Integration Showcase

IEEE Wescon and the Silicon Integration Initiative (SI2) will have a special pavilion showcasing EDA IC design-for-manufacturability technology within the Design Automation Theater at the Convention Center.

Tutorials and Panels (no fee): - Innovative Approaches to Tackling the Challenges of D2M - DFM: The Physics - Yield: The Basics - Lithography Challenge - Design Optimization Yield - Test to Yield Prediction - Design for Yield: Mixed Signal Analog - Library Challenge - Meeting the Challenges of Complex Systems Design

Test & Measurement Track

Tutorials and Panels (no fee): - Advances in Signal Integrity Testing - Testing and Troubleshooting Serial Data Signals - Getting More Out of Your Digital Oscilloscope - Productivity Features in Windows Oscilloscopes - Debugging Elusive Digital System Problems Using Logic Analyzer Triggering - Faster Ways to Characterize Transient RF Signals - Test Data Management System for Product Development Process - High Speed Probing and Signal Fidelity

Download the 5-page Wescon Preview (280kB PDF)

IEEE Region 6 Tutorials at Wescon

Topical Tracks of Technical and Professional Tutorials [more]

- low-cost to IEEE Members (from \$22.50 each)
- choose from a matrix of over 30 tutorials in 8 tracks:
Microsoft .Net Development
Software Development Process
Policy Concerns
Professional Activities
Laser Space Communications
Career & Employment Resources

Microwave Theory & Techniques Chapter, SCV

Designs for the High-Speed, Broadband Information Age [more]

- 8:00 AM - Noon, Wednesday April 13, 2005
- In conjunction with IEEE Wescon'05
- Four Presentations:
100GHz CMOS Circuits for the Broadband Information Age
SiGe and RFCMOS for the High Speed Information Age
InP HBT Design for 100 to 200GHz ICs
SiC and GaN Based Transistor and Circuit Advances
Register by April 9th to get discount rate (\$50 for Members)
Access the Advance Program and registration form

Components, Packaging & Mfg Technology Chapter, SCV

Packaging and Test Technology for RFID [more]

- 1:00 PM - 5:30 PM, Wednesday April 13, 2005
- In conjunction with IEEE Wescon'05
- Five Presentations:
Overview of RFID Technology and Deployment
Packaging Technology for UHF RFID Tags
International RFID Frequencies and Package Outline Standards
Packaging for RFID Antennas, Controllers, Interface Modules
RF/Microwave Packaging at Freescale Semiconductor
Register by April 1st to get discount rate (\$75 for Members)
Full Details and Registration Information

Control Systems Chapter, SCV

Control Systems Technology Seminars [more]

- Wednesday, April 13
- In conjunction with IEEE Wescon'05
Motor Control Fundamentals 8:30 AM - 11:00 AM
Understanding Robotic System Control 11:30 AM - 2:00 PM
Control System Design: A Refresher 2:30 - 5:00 PM
More Information and Registration Details

Electromagnetic Compatibility Chapter, SCV

Electromagnetic Compatibility Courses

Hardware Design Fundamentals of Communications and Coordination

Lowest rates for registrations by March 11th
Review the full set of tutorials -- [Download the Program](#) (80kB PDF)

- Four Half-Day Tutorials (choose one, or all four)
- In conjunction with IEEE Wescon'05
Fundamentals of Electromagnetic Compatibility
Fundamental Concepts of Signal Integrity for PC Boards
Testing for EMC Compliance - Approaches and Techniques
Fundamentals of Grounding, Shielding for Noise Reduction
Register on the [Wescon website](#)

IEEE Short Courses

Professional Skills Development and Management Classes [\[more\]](#)

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

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

- Date/Time: Tuesday, March 8, 8:30AM-4:30PM
- Location: Carl Zeiss Meditec, Dublin

new! "Writing Effective E-mail Messages"

- Date/Time: Tuesday, March 15, 8:30AM-4:30PM
- Location: Synopsis, Sunnyvale

SCV Chapters, Engineering Management & Components, Packaging and Manufacturing Technology Societies

Getting Things Done Across Organizational Borders

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

new! Influential Communication

- Date/Time: Thursday, May 5, 8:30AM-4:30PM
- Location: Exar Corp, Fremont

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

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

- No-cost Exhibits Pass (includes Keynotes and Panels)
- Register by **March 3rd** for discount rates.
- **Get complete information.**
- Ride **BART** or **MUNI** to the **Powell Street** station

IEEE Systems, Man, and Cybernetics Society

International Symposium on Systems and Human Science - Safety, Security, Reliability (SSR'05) [\[more\]](#)

- March 9-11, 2005 in Milbrae (SF International Airport Westin Hotel)
"Engineered Complex Systems in the 21st Century"

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

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

"Design for Quality in the Era of Uncertainty"

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

- Sponsors: EDS - CAS - CPMT - SigDA
- March 21-23, 2005 at the 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.

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

- 28 March - 1 April 2005
- Moscone Convention Center (West), San Francisco
Take **BART** or **Muni** to the **Powell Street** Station

The **MRS Exhibit** features international exhibitors from all sectors of the materials science and engineering communities. Visit the exhibit to learn more about the latest techniques and advances in the swiftly evolving world of materials research directly from the manufacturers, suppliers and developers. **Admission to the exhibit only is free of charge.**

35 Symposia tracks with 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.

Register by **March 11th** to get the \$100 discount.
Review the [Advance Program and registration form](#).
Be an exhibitor at the MRS Spring Meeting - contact [Mary Kaufold](#)

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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:

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