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below: Advanced CMOS Symp, Skills Development Courses

Pkgng of MEMS/NEMS & Electronic Systems Conf

Energy Technology, Plastic Optical Fiber Confs

Annual Magnetic Recording conference

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Download the new June GRID.pdf (900 kB) -- details on upcoming Chapter meetings, classes, conferences on a wide variety of topics. Stay ahead of changing professional demands; sharpen your competitive edge with up-to-date technical knowledge and through your networking activities. See our QuickRef Calendar for a more detailed listing of Chapter meetings.

Chapter Meetings for June, July:

SCV-WIE & Nano - 6/1 | Angstromology - A Tour of the Universe at the Nanoscale Level & Beyond - what it is, isn't or might be ... [more]

SCV-CAS - 6/6 | Wireless Sensor Networks: Trends, Applications, and Development Platforms - using high-bandwidth input data with communication at low-bandwidth levels ... [more]

SCV-CNSV - 6/7 | Tales of Consulting - On the Humorous Side - 5 consultants talk about consulting experiences over a Chinese banquet dinner ... [more]

SCV-LEOS - 6/7 | Temporal Imaging: Ultrafast Optical Waveform Manipulation and Recording - arbitrary waveforms can be expanded, compressed, and Fourier transformed with ultrafast resolution ... [more]

SCV-Comm - 6/8 | A Software-Defined Radio Architecture for Future Cell Phones: Incentives and Challenges - a programmable baseband processor for multi-standard hand sets ... [more]

SCV-CPMT - 6/8 | Reliability Issues in Lead-Free Soldering - the important issues for lead-free solder interconnection systems, including components, PCBs, and solder joints ... [more]

SCV-EDS - 6/14 | Carbon Nanotubes and Nanofibers as On-chip Interconnects - electrical and thermal characterization for next-generation back-end IC processing ... [more]

SCV-EMB - 6/15 | A Pendant-Geometry CT Scanner for Breast Cancer Detection: Design, Characterization and Initial Clinical Assessment - ... [more]

SCV-IM - 6/15 | Digital Verification and Design Validation Solutions - breakthroughs in semiconductor test equipment for ICs ... [more]

SCV-SSC - 6/16 | Design Challenges for a UWB Radio - a design implementation based on the MBOA approach ... [more]

SCV-AP - 6/21 | Ultrawideband Radar Methods and Techniques of Through-Barrier Imaging - enabling real-time multi sensor imaging and monitoring objects through barriers ... [more]

SCV-Mag - 6/21 | Disk drives -- A Hard Life, but Never Boring - milestones and major trends in the industry ... [more]

SCV-EDS - 6/24 | Mobility Enhancement for Advanced CMOS Devices - half-day seminar with 6 speakers ... [more]

SCV-CE - 6/28 | Embedding Small-Form-Factor Hard Disk Drives with CE-ATA - new disk drive interface standard for consumer electronics applications ... [more]

SCV-EDS - 7/12 | Dielectric Scaling Challenges And Approaches In Floating Gate Non-Volatile Memories - new approaches to meet reliability and performance requirements ... [more]

SCV-CPMT - 7/21 | Reliability of Lead-free Solder Joints: Intermetallic Reactions - solder reaction, spalling, and Kirkendall void formation ... [more]

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Electron Devices Chapter half-day Summer Symposium

Mobility Enhancement for Advanced CMOS Devices [more]

- Friday, June 24, at National Semiconductor, Sunnyvale - 12:30 PM - 5:15 PM - IEEE Member: \$50; Nonmember: \$60; Unemployed/Student: \$20

Mobility enhancement techniques were first introduced at the 90nm CMOS technology node and are expected to see widespread use at the 65nm node. The most common form of mobility enhancement in use today is locally strained silicon. The introduction of strained silicon has delayed the need to introduce high-K gate dielectrics and metal gates to achieve improved device performance. Further advances in mobility enhancement techniques are expected through the 45nm technology node.

This symposium includes 6 presentations from local distinguished speakers covering a variety of topics in the area of mobility enhancement for CMOS devices. Topics include optimization of local strain techniques, wafer level strain options, heteroepitaxial growth of Ge on Si, TCAD modeling of stress-enhanced mobility and stress effects on mobility in bulk and ultrathin-body MOSFETs.

Download the Symposium Flyer; bring a team!

Professional Skills Courses in the SF Bay Area

Improve your On-the-Job Skills

Choose from an array of skills-development classes, from Effective Training Associates and the Engineering Management and CPMT Chapters

Breakthrough Project Management [more]

- June 7-8 at H-P, Cupertino

Transitioning from Individual Contributor to Manager [more]

- June 9 at Cypress Semiconductor, San Jose

Managing Meetings [more]

- June 14 at Sybase, Dublin

Speed Reading [more]

- June 16 at Cypress Semiconductor, San Jose

Need consulting or outsourcing services?

Check out the GRID Marketplace.

ASME Pacific Rim Technical Conference and Exhibition

Integration and Packaging of MEMS, NEMS, and Electronic Systems [more]

- San Francisco Westin St. Francis Hotel - July 17-22 (Tutorials July 17, sessions/exhibits July 18-22)

Being held for the first time in the SF Bay Area, the InterPACK'05 Conference is an international forum for exchange of state-of-the-art knowledge in research, development, manufacturing, and application in the integration and packaging of MEMS, NEMS, and electronic systems. It covers the disciplines of microelectronics, photonics, microwave, MEMS and NEMS. Emerging knowledge, research results, new developments, and novel thermal, mechanical, electrical, and materials packaging product concepts are being presented.

Discount for registrations before June 1; review the program at www.asme.org/events/

... held concurrently with the

ASME Summer Heat Transfer Conference [more]

A forum for the exchange of state-of-the-art knowledge in research and application of heat, mass and momentum transfer in all fields of mechanical engineering, chemical engineering, nuclear engineering and related technologies.

Visit the website: www.asmeconferences.org/HT05/

POFWorld, June 21-23, Santa Clara Convention Center

The only trade show for Plastic Optical Fibers that covers all aspects of the business - technology, markets and applications. [more]

- June 21: Tutorials - June 22-23: Conference & Exhibits

This year POFWorld features 6 half-day tutorials: - POF Markets and Applications - Designing with POF - Designing with POF for the Home - Automotive and Consumer Applications using the MOST Standard - Hands-on Connector Standards for Installers - Optical Sources for POF Links

Early Registration fee before May 31st; 10% IEEE Member discount. To register (and for exhibit and sponsorship information) please visit www.pofworld.com

IEEE Magnetics Society

16th Annual Magnetic Recording Conference:

"Heads and Systems" [more]

- August 15-17 - Held at Stanford University in Palo Alto

- Early-bird discount through July 18th

- Join leading experts in the magnetic recording field

Main topics: Read heads, Write heads, Perpendicular recording heads and systems, Recording systems, Advanced coding/detection and Reliability/Mechanics.

Meeting the World's Energy Needs Through Innovation & Technology

[\[more\]](#)

- June 12-16 - San Francisco Hilton Hotel
- Technical sessions, tutorials, tours, networking

The PES Annual Conference provides an international forum to address policy, infrastructure and workforce issues in power generation and transmission. In addition to a full technical program and 9 tutorials, there is a one-day short course on Power Systems Basics for Non-Engineering Professionals, and a Student Program.

For more information, and to register, see www.ieee.org/power

The oral sessions will be held at the Hewlett Teaching Center Auditorium, and Stone Pine Plaza will be used for Posters and Bierstube. There is free on-campus parking.

Get complete information at tmrc.nanointernational.org

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Technologists who are not members of IEEE are **encouraged to subscribe, at no cost, to this bi-weekly 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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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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