IEEE

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San Francisco Bay Area Council   **www.e-grid.net**

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Conferences, Career Enhancement   Please **Post and Circulate** within your Company/Lab   April 13, 2005

Serving the San Francisco, Oakland-East Bay, and Santa Clara Valley Sections of the IEEE
For an online version of this Council announcement, with active links, visit   www.e-grid.net/announcements/grid0504b.html

| below: **Wireless Congress, Next-Gen Media Networks** | **Scholarship Deadline, IPv6 Technology** | **Machine Vision, Noise Reduction, Aeroacoustics** Conf | **Plastic Optical Fiber, SOP vs SOC Systems** | **Subscribe** |

Download the **April GRID.pdf** (1.1 MB) -- details on upcoming Chapter meetings, classes, conferences on a wide variety of topics.   *Learning is not compulsory ... neither is your job.*   In today's world, increasing competition has made professional development a requirement -- not an option.

Chapter Meetings for April:

SCV-Comm - 4/13 | **Where is the RFID Puck Going Next?** - Wal-Mart, Target, Albertsons, Best Buy, Department of Defense, casinos, passports: where next? ... [more]

SCV-AP - 4/13 | **A Spatial Channel Model for Multiple-Antenna Systems** - assessing the optimal number of antennas for given transmit and receive areas ... [more]

SCV-Mag - 4/19 | **Thin-Film Media - Technology and Design 2005** - state of thin-film disk technology with emphasis on what will be emerging ... [more]

SCV-Nano - 4/19 | **Synergy of CMOS, MEMS and Nanotechnology in Probe Storage Devices** - development of very high capacity removable storage devices ... [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]

SCV-IM - 4/20 | **ISO13485: A PDL and QSR Not Just for Medical Devices** - a Product Development Lifecycle standard that can make the job of a product or program manager easier ... [more]

OEB-IAS - 4/21 | **Electrical Power Generation, Distribution, and Plant Automation on Modern Marine Vessels** - electrical distribution systems have to be as specialized as the vessel to meet modern cargo demands ... [more]

SCV-SSC - 4/21 | **Power-aware and Temperature-aware Circuit Design** - maximizing performance under power consumption constraints ... [more]

OEB-Comm - 4/21 | **Evolution of Mobile Wireless Technologies to the Year 2008** - new products and services, and how China will influence them ... [more]

SCV-CAS - 4/25 | **New Approaches For Modeling and Design of High-Frequency Devices** - treating signals as propagating electromagnetic waves rather than simple voltages and currents ... [more]

SCV-SP - 4/25 | **How Many Antennas Does it Take to Get Broadband Wireless Access? - The Story of MIMO** - multiple antennas with sophisticated signal processing to extract additional performance gains ... [more]

SCV-PACE - 4/26 | **Resume-writing Clinic** - review the structure of a good resume, and bring your own for critique ... [more]

SCV-CNSV - 4/26 | **Who Owns Your Brain? A Consultant's Guide to Patents** - a consultant's guide to patents and intellectual property ... [more]

SCV-CE - 4/26 | **Panel discussion on Display & Video Technologies** - SoCs for multimedia applications; digital television architecture and front-end ... [more]

SF-IAS - 4/26 | **Voltage Drop Calculations in Buildings** - interpretation varies greatly regarding the proper treatment of voltage drop ... [more]

SCV-Rel - 4/27 | **When to use HALT and when to use ALT** - predicting or characterizing a wearout mechanism, with case studies ... [more]

SF-PES - 4/27 | **Scientific American Frontiers: "Future Car"** - PBS video presentation hosted by Alan Alda ... [more]

SVEC - 4/30 | **Career Workshop: Investing in Our Career and Retraining for Our Future** - half-day Saturday event ... [more]

SCV-CPMT - 5/4 | **US Electronics Industry Competitiveness in View of Globalization and Changing Technologies** - IC and systems packaging: competitiveness of US industry ... [more]

SCV-CS - 5/7 | **Sensor Networks – The New Environment** - Saturday seminar, at Stanford ... [more]

SCV-Com - 5/11 | **IEEE 802.11 Wireless LAN Architecture: New Protocols and New Deployment Strategies** - increasing the capacity of the network protocols to meet user demand ... [more]

Scholarships for HS Juniors for sons, daughters of local IEEE Members ... [more]

SCV-MTT - 5/12 | **Technologies for Overcoming Interconnect Parasitics and Reducing Costs in the 10 to 100 GHz Range** - quantification of bond-wire and other interconnect parasitics ... [more]

SCV-EMB - 5/18 | **Architecture and Application of Wireless Communication In Glucose Monitoring for People with Diabetes** - a continuous, BlueTooth-based glucose monitor and its application ... [more]

SCV-IM - 5/18 | **Samplify: Lossless and Lossy Data Compression for Instrumentation Signals at 10+ Msamp/sec** - user-selected compression ratios up to 4:1 at rates up to 100 Msamp/sec ... [more]

SCV-SSC - 5/19 | **Analog Circuit Design with Submicron Transistors** - a methodology that is simple and intuitive, yet accurate ... [more]

OEB-Comm - 5/19 | **Network Visibility @ Wire-Speed for Visibility, Security and Capacity Planning** - a modern standards-based network monitoring and export protocol (sFlow) ... [more]

SCV-CNSV - 5/24 | **Why Advertising Doesn't Work for Consultants** - insights into why many consultants don't see results from traditional advertising programs ... [more]

The Council Marketplace

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2005 6th World Wireless Congress   [more]
- May 25-27 - Sheraton Palo Alto Hotel
- "Converging the Broadband Wireless and Mobile"

WWC is the world's leading technical platform on research, development and design of future wireless communications focusing on Beyond 3G and 4G technologies. Held in the heart of Silicon Valley, the congress is the venue for chip and system vendors to meet with designers, users and operators to share information on new product definition, system architecture and engineering solutions. The mission this year: leadership networking, team-building, sharing information, learning what others are doing in your field. The focused subjects of WWC include Industry-driven R&D; Wireless and mobile convergence; Future wireless lifestyle for the next decade, and new wireless business models.

Keynote speakers are the senior executives of the world's most influential and leading industries. Technical sessions are composed of in-depth design and development issues on emerging OFDMA, MC-CDMA, W-LAN, WiMax, Ad-Hoc, OWA, S/T Radio transceivers as well as the converged broadband wireless platform.

Special discount for IEEE members and group registrations. Get complete information at b3g.org or email Steve at steve@delson.org

The 13th Stanford Networking Research Center/Accel Symposium
Next Generation Media Networks - The Future of Content Delivery   [more]
Wednesday May 25, 2005, 8:30 AM - 6:00 PM
Arrillaga Alumni Center, 326 Galvez Street, Stanford University

This special Symposium will explore and highlight emerging business and technology trends and potential obstacles surrounding next-generation media networks. Questions include:
- What new types of content are emerging or possible?
- Will IP TV the next wave or will cable carry the new services?
- What the possibilities and challenges for mobile content and delivery?
- What are the protection, privacy and rights demands?
- What are the technical challenges for deploying home networks?
- Will power shift toward content owners?
This special symposium exploring Next Generation Media Networks is co-sponsored by the Stanford Networking Research Center and Accel Partners. Please join us as senior industry leaders and Stanford faculty engage in candid discussions on the Stanford campus of how innovation and demand for new digital media services (streaming video, music, ringtones, games, etc.) are forcing adaptation to new business models, technologies and network architectures.
$75 early-registration discount through May 11; more information and list of presenters at snrc.stanford.edu/symposium.html

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Bruce Angwin Memorial Scholarships - Deadline May 1st
For Children of IEEE Members who are Juniors [more]
- $5,000 First Place and $3,000 Second Place Awards
- For Juniors in High School this year

The California IPv6 Task Force
California IPv6 Technology Conference [more]
- Tuesday, May 10, 2005
- Sacramento Convention Center

The Scholarships are open to high school juniors ONLY. Applications are due by May 1 of the junior year, and winners are announced in September of their senior year. The 2005 competition is currently underway. Applicants have until May 1, 2005 to submit a 500-600 word essay, their high school transcript, and a completed application form.

Winners will be honored at the 2005 Region 6 Awards Banquet. Flight arrangements and accommodations for one night will be provided for each winner and one accompanying adult.

For more information and the application form, see **coe.isu.edu/ieee/wescon/**

- in conjunction with the Government Technology Conference West
A unique opportunity to learn about IPv6 (Internet Protocol Version 6) readiness and to network with well known names from the field; optional intimate dinner and discussion with Internet pioneer Vinton Cerf. This conference provides attendees a day of IPv6 technology knowledge transfer to assist participants with the planning and systems analysis for IPv6 deployment. In addition the conference will present use cases and models for deployment using public sector, enterprise, and consumer examples to demonstrate why, what, and how to deploy IPv6 in those network environments.
For more information and on-line registration, visit **www.cav6tfconference.org/**

The Vision Show & Conference West [more]
- May 17-19
- San Jose Convention Center
- Exhibits, sessions, tutorials
The Vision Show West is North America's leading showcase of machine vision components, systems and solutions. Held in the heart of Silicon Valley, the Show is the perfect venue for suppliers and system integrators to meet with system designers and users to share information on new products and real-world solutions.
Get complete information: **www.machinevisiononline.org**.

11th AIAA/CEAS **2005 Aeroacoustics Conference** 23-25 May [more]
An international forum for scientists and engineers from industry, government, and universities to exchange knowledge and results in the fields of generation, propagation, measurement, modeling, and control of vehicle noise, as well as the effect of noise on structures and individuals.
At the Hyatt Regency Monterey. For more information: **www.e-grid.net/conf/aero-aners.html**

Co-located with the
AIAA/AAAF **Aircraft Noise and Emissions Reduction Symposium** 24-26 May [more]
A high-level, multidisciplinary technical symposium bringing together leading engineers, scientists, researchers, government and civil aviation officials, industry, and policy makers to discuss the topics and issues of aircraft noise and emissions reduction.
For more information: **www.e-grid.net/conf/aero-aners.html**

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 POFWord 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**

A Short Course for Technical Personnel and Decision Makers
Technology Review and Update [more]
- Five Days of instruction
- April 25 through April 29
- Held at the Naval Postgraduate School (NPS), Monterey
This annual 5-day short course is designed for civilian, military, and government technical personnel and decision makers interested in refreshing and updating their knowledge in important technical areas. It provides an excellent overview and stresses the more practical aspects of the topics discussed.
Register on-line through April 20: **www.sp.nps.navy.mil/trau/**

SCV Chaper, Components, Packaging & Mfg Technology:
SOP vs SiP, vs SOC: Technology Directions for Systems Implementation -- Emerging and Disruptive Packaging Technologies for the Next Decade [more]
7 Speakers from Georgia Tech's Packaging Research Center
- Date: Wednesday, May 4, 8 AM - 5 PM
- Location: Ramada Inn, Sunnyvale
- Cost: only $95 for IEEE Members (thru April 25)
- Web: **www.cpmt.org/scv/**

IEEE Computer Society, SCV Chapter, and the North America Taiwanese Engineers' Association
SENSOR NETWORKS - The New Environment
- 7th IEEE/NATEA Annual Conference
- Place: Braun Auditorium, Stanford University
- Date: Saturday, May 7th
This one-day conference focuses on emerging Sensor Networks technologies. Sensor Networks move computing from being a distinct entity within an environment to becoming a seamless part of the environment. This profound change touches both computing and the way we operate in daily life.

More information, and to register on-line: **www.natea.org/NFIC**