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◆ 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

November 14, 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/grid0511b.html

below: **CFPs: Information Display, RF IC Conferences** | **IEEE K-12 Resources; Museum volunteers needed** | **Unicode, Field-Programmable Custom Computing conferences** | **SVTI and Professional Dev't Short Courses** | **Subscribe**

Download the **November GRID.pdf**   (1 MB) -- details on upcoming Chapter meetings, classes, and conferences on a wide variety of topics.   Stay ahead of changing professional demands; sharpen your competitive edge with up-to-date technical skills and through your networking activities.   See our **QuickRef Calendar** for a more detailed listing of Chapter meetings.

Chapter Meetings for November:

SVEC - 11/15 | **SVEC complimentary Annual Open House** - Industry/Education Forum, Computer History Museum tours, light dinner, awards program ... [more]

SF-Comm - 11/15 | **Powerline Communications at 200 Mbps** - for HD video, audio, telephony and data ... [more]

SCV-Nano - 11/15 | **Nanotech: Imagine the Opportunities** - half-day symposium showcasing university graduate research ... [more]

SCV-CNSV - 11/15 | **Off-shoring and Consulting "Weather Report"** - consultant, management, and broker perspectives ... [more]

SCV-PSES - 11/15 | **Lithium Ion Batteries: Assessment and Failure Investigation** - philosophy of safety evaluation and approach to failure causes and corrective actions ... [more]

SCV-EMB - 11/16 | **High Frequency Ultrasound Imaging of the Anterior Segment of the Eye** - in-vivo intra-operative visualization of the Schlemm's canal for diagnosis and surgical guidance ... [more]

SCV-Stanford - 11/16 | **Trends in Communication System-on-Chips** -barriers and solutions to increasing performance ... [more]

SCV-AP - 11/16 | **Ultra-wideband Communications in Harsh Propagation Channels** -multipath degradation and reflections with severe limitations for mission critical indoor applications ... [more]

OEB-IAS - 11/17 | **Arc Flash Studies using Electrical Engineering Software** - a focus on how to perform an arc flash study using electrical engineering software ... [more]

SCV-CS - 11/17 | **Building Unreliable Systems out of Reliable Components: The Real Time Story** - it can be difficult or impossible to estimate the execution time of software ... [more]

SCV-SSC - 11/17 | **PLL History: A Personal Viewpoint** - from the extremely narrow-band systems of years ago to the wide-band applications of today ... [more]

SCV-CAS - 11/21 | **A Digital Clock and Data Recovery Architecture for Multi-Gigabit/s Binary Links** - a general architecture and a small-signal model ... [more]

SCV-CE - 11/29 | **Distributed HD IPTV and Audio over Powerline** - no new wires and it works throughout the whole house ... [more]

SCV-LEOS - 12/6 | **Put Some "Spark" in Your Holidays** - fascinating history of radio and electronics told via live working demonstrations ... [more]

SCV-IM - 12/7 | **Test and Measurement for ISO Compliance and Certification** - metrology terminology, issues and techniques for ISO 9000 and ISO 13485 ... [more]

SCV-MTT - 12/8 | **Future Directions in Space Qualified LNA's** - requirements, applications, payload architectures, and satellite performance parameters ... [more]

SCV-EDS - 12/13 | **LEDs for Solid State Lighting and Other Emerging Applications: Status, Trends and Challenges** - LED technology, current applications, and trends ... [more]

SCV-Comm - 12/14 | **802.16e: A Mobile Broadband Wireless Standard** - techniques for high speed mobility using various subchannelization schemes ... [more]

SCV-CPMT- 12/14 | **The Future of Printed Circuit Boards** - being replaced by silicon chips communicating through LEDs or radio beams ... [more]

SCV-CPMT - 1/17 | **Semiconductor Equipment and Materials Outlook** - market forces affecting packaging, assembly, shipments, with predictions ... [more]

SCV-Mag - 1/17 | **Beyond the Limits of Magnetic Recording: an Itinerant Magnetician Looks at Hysterical Loops** - will we reach the ultimate limit of areal density? ... [more]

Note to All IEEE Members
The Council Marketplace
Do you require someone with special skills -- DSP design, RF, reliability, test design, project planning, chip design, communications, Windows drivers, patent consultations? ... Reference designs, PCB layout, thermal measurements, VHDL, ANSYS, Verilog? See our **Council Marketplace** page. Thank you for supporting our advertisers.

SID 2006 **Call for Papers**
Society for Information Display
International Symposium, Seminar, & Exhibition [more]

- Paper Summary Deadline: **December 1**, 2005
- Location & Dates: San Francisco, June 11-13, 2006

SID '06 will have 250+ exhibitors and 7,500+ attendees - display scientists, engineers, manufacturers, entrepreneurs, marketers and end-users with original papers on all aspects of research, engineering, application, evaluation, and utilization of displays.

Papers are solicited in the following areas:
- Active-Matrix Devices   - Display Applications (consumer, industrial, commercial, military)   - Applied Vision/Human Factors   - Display Electronics   - Display Manufacturing   - Display Measurement   - Display Systems   - Emissive Displays   - FEDs and CRTs   - Organic Light Emitting Diodes   - Projection Displays   - Liquid-Crystal and Other Non-Emissive Displays

For the latest information, including complete Call for Papers, download the **one-page GRID announcement** or visit **www.sid2006.org**

Faculty Positions: UC-Santa Cruz Computer Engineering Dept
Assistant and Associate Professor
- Assistant Professor with research interests in the area of **Assistive Technology** including sensory augmentation, human-machine interface, wearable computers, prosthetic devices, and technology for the elderly and the disabled.
- Associate Professor in **Computer System Design**, including VLSI design, FPGA design, VLSI CAD, system-on-a-chip design, and related areas.

The campus is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. Submit CV and other details by Jan. 2, 2006. For a fuller description, please see the descriptions in **this month's GRID.pdf**.   Electronic applications are preferred: www.soe.ucsc.edu/jobs/faculty/apply

RFIC-2006 **Call for Papers**
IEEE Radio Frequency Integrated Circuits Symposium

- Paper Summary Deadline: **January 2**, 2006
- Location & Dates: San Francisco, June 11-13, 2006

Papers are solicited in these areas:
- Cellular System ICs and Architectures (GSM, EDGE, TDMA, CDMA, 3G, WCDMA, GPS)
- Wireless Data System ICs and Architectures (LAN, Bluetooth, 802.1x, Telemetry, RFID)
- Wide Band Communication System ICs and Architectures (UWB, MMDS, CATV, TV Tuners)
- Optical System ICs and Architectures (OC-48, OC-192, OC-768, Gigabit Transceivers)
- Small-Signal Circuits (LNAs, Mixers, VGAs, Active Filters, Modulators)
- Large-Signal Circuits (Power Amplifiers, Drivers, Advanced TX circuits)
- Frequency Generation Circuits (VCOs, PLLs, Synthesizers)
- RFIC & Device Technology (IC Technologies, Packaging, Modules, RF Test and Characterization)
- RFIC Modeling and CAD (Device and behavioral modeling, Design Methodology)

For the latest information, including complete Call for Papers, download the **one-page GRID announcement** or visit **www.rfic2006.org**

Pre-University (K-12) Education Activities [more]
A new section of the IEEE website has been developed to help IEEE members and volunteers identify various activities being conducted in IEEE Sections related to pre-university (K-12) science, engineering and technology education. Created by

Helping Youth
How Much Do You Owe the Next Generation? [more]
By Dor Hesselgrave, IEEE Member

IEEE Educational Activities with support from the IEEE Foundation, the IEEE Pre-university Activity Network consists of two parts:
- a public area that details current and upcoming activities worldwide
- a password-protected database for IEEE members and volunteers to submit their own experiences, ideas and best practices for display on the site.

There are currently about 70 examples of IEEE pre-university activities included in the database. To access the IEEE Pre-university Network, visit www.ieee.org/eab/preudatabase.
To volunteer locally, contact:
David Fong, SCV Section K-12 Chair;
For more information on the EAB resources, contact:
Doug Gorham, IEEE Educational Activities; telephone +1 732 562 5483; or
Allison Ickowicz, IEEE Educational Activities; telephone +1 732 562 5496.

Need consulting or outsourcing services?
Check out the **GRID Marketplace**.

Almost 50 years ago, when the world was young, a fellow volunteer with me at the local Boy Scout headquarters in Newark, NJ, posed this question: "We all owe something to our community. It has done a lot for me, and now it's repayment time. I choose to devote my time and talent here. What's your choice?"

I've never forgotten that. When I look around today, I see a great need to attract today's young ones to the wondrous world of science. Not the world of iPods and Game Boys, but that of all those inspired engineers who made such objects a reality. It's most rewarding, bringing that world to young lads and lassies! And there's an organization that's doing just that.

The **Museum of American Heritage** in Palo Alto has an education program -- a blend of history and science -- staffed by **volunteer engineers** offering a series of classes. This program goes into the history of science and engineering, as well as giving the kind of scientific understanding that lifts the fear of "Physics", the scary part of "Engineering." The Museum needs more teachers and assistants [read our job descriptions] to further this goal. Can you help us? You can review the MOAH program at www.MOAH.org, or call them at 650 321 1004. And you can email me, for more information about getting involved:
Dor Hesselgrave, tedor@att.net

PS: Come visit, with your children! Bring your Cub Scouts, Brownies, or school class! Sign them up for a workshop! The MOAH is open Fridays through Sundays, 11 AM until 4 PM, and there is no cost.

Internationalization and Unicode Conference [more]
-- March 6-8, 2006
-- Hyatt Regency Hotel, Burlingame (SF Airport)
-- Tutorials: Monday, March 6
-- Sessions: Tuesday-Wednesday, March 7-8

Unicode experts, implementers, clients and vendors are invited to attend this unique conference on the Unicode Standard and internationalization. Exchange ideas with leading experts, find out about the needs of potential clients, or get information about new and existing Unicode-enabled products.
Conference topics: - Web internationalization   - Text and data mining   - Security and phishing   - Enterprise software in a global environment   - Language tags and locales: implications for developers   - Global development best practices   - Internationalized Domain Names/Resource Identifiers   - Tips, tricks and traps in developing international software   - Globalizing your product: business cases and technical issues

The Unicode Consortium is a non-profit organization founded to develop, extend and promote use of the Unicode Standard and related globalization standards.

Early-bird registration rates through January 23 - multi-attendee discounts. For more information and to register: **www.unicodeconference.org/ieee**

Call for Papers -- *IEEE Computer Society*
Symposium on Field-Programmable Custom Computing Machines   [more]
-- April 24-26 2006
-- Napa Valley Marriott
-- **Abstracts Due January 13**

FCCM is a forum for presenting new research on reconfigurable computing -- the use of field-programmable technologies for high performance and/or low energy computation. Submissions are solicited on a wide variety of topics related to custom computing, including but not limited to:

- Architecture of reconfigurable computing devices and systems, including coprocessors, attached processors, and hybrid architectures
- Languages, compilation techniques, tools, and environments for programming and run-time support of custom computing machines
- Applications of reconfigurable computing, including the use of reprogrammable logic in scientific computation, mobile communications, medical image processing, data and communication security, network infrastructure and other embedded systems
- Implications and effects of nanotechnology and reconfigurable computing on each other
- Possible forms and system implications of reconfiguration for fault tolerance and avoidance
- Novel use of reconfigurability, including evolvable hardware and adaptive computing

Please download the full **Call for Papers** and add the FCCM dates to your calendar.

Upcoming classes from SVTI:
Two-Day Short Courses ... [more]

The Dynamic Leader's Toolbox & Applications For Management in the 21st Century (Dec. 1-2)
- motivating and dealing with negative employees, assertiveness, coaching, and creative problem solving

Broadband Metro and Access Networking Technologies (Feb. 2-3)
- the key technological developments in broadband networking in metro and access carrier networks; 10 Gigabit Ethernet versus SONET/SDH; basics of DSL and cable modems; upcoming standards

All classes 9 AM - 4 PM at Silicon Valley Technical Institute's classrooms at 1762 Technology Dr Suite 227 (near the SJ airport) in San Jose. Find out more about each course, and register, at **www.svtii.com/SVTI-calendar.htm**.

Professional Skills Courses in the SF Bay Area
Choose from an array of one-day skills-development classes, from Effective Training Associates and the Engineering Management and CPMT Chapters. Classes in November and December:

Presentation Skills for Engineers [more]
- November 18 at Cypress Semiconductor, San Jose
Deliver your ideas clearly, demonstrate confidence and enthusiasm, and handle objections with poise.

Getting Things Done Across Organizational Borders [more]
- November 30 at Cypress Semiconductor, San Jose
Innovative practices for dealing with people who do not report to you but whose assistance and support are critical.

Working Across Cultures [more]
- December 1 at Sybase, Dublin
The invisible aspects of culture, especially those essential for building relationships, such as different or competing values, attitudes and cultural norms, with a focus on the cultures of India and China

Other Courses: See **www.effectivetraining.com**

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 (editor@e-grid.net), 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