



below: [Semiconductor Mfgng Symp., On-Line Grad Courses](#)

[Antennas/Wireless, IPv6, Bio-Informatics, Mag Recording Confs.](#)

[Myers-Briggs, Manager, Coaching courses](#)

[SJSU's DSP, Networking courses - Equip Donations](#)

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Download the *new* [August GRID.pdf](#) (600 kB) -- details on upcoming Chapter meetings, classes, conferences on a wide variety of topics. See our [QuickRef Calendar](#) for a more detailed listing of Chapter meetings.

#### Chapter Meetings for August:

SCV-IM - 8/3 | **Contamination Analysis using Surface Analytical Tools** - what is possible, with practical examples ... [\[more\]](#)

SJSU - 8/9 | **DSP System Design and Wireless Transmitters** - 4-day classes with labs ... [\[more\]](#)

SCV-EDS - 8/9 | **Organic Photovoltaics: Low-cost, Stable, Non-toxic Solar Cells using Organic Pigments** - the potential to substantially reduce the cost of solar electricity ... [\[more\]](#)

LSS - 8/12 | **BioImage Data Mining, 3D Molecular Structures, BioSPICE and Controlling Complexity** - inexpensive 1-day workshops in bio-sciences, held at Stanford ... [\[more\]](#)

SJSU - 8/16 | **FPGA DSP System Design and High-Speed Data Networks** - 4-day classes with labs ... [\[more\]](#)

SCV-K-12 - 8/23 | **Noon Planning Meeting: K-12 Age Group Outreach/Programs** - at SVTI in San Jose: more details: ... [\[more\]](#)

SCV-IM - 9/7 | **Introduction to the Stanford Nanofabrication Facility, with Research Examples** - an NSF Center with a variety of semiconductor processing equipment open to external use ... [\[more\]](#)

SCV-CPMT - 9/14 | **Kirkendall Voids in Lead-Free Solder Joints: A Reliability Issue** - effects on the impact and shock strength of solder joints ... [\[more\]](#)

SCV-Rel - 9/28 | **Built-In Soft Error Resilience for Robust System Design** - challenges of radiation-induced logic soft errors in flip-flops and combinational logic ... [\[more\]](#)

SCV-CPMT - 10/12 | **Imprinted Circuits: A Different, Potentially More Cost-Effective Technology** - ... [\[more\]](#)

SCV-CPMT - 10/27 | **Drop Testing of Components in Portable Applications** - portable devices (cell phones, PDAs) are more likely to be dropped than affected by changes in thermal condition ... [\[more\]](#)

SCV-CPMT - 11/9 | **Carbon Nanotubes: Enhancing Conductivity of Conductive Plastics** - ... [\[more\]](#)

*A referral from IEEE's Career Alert Newsletter:*

#### The Advantages of Networking

How do you take advantage of the so-called hidden job market, where most job opportunities lie, but are filled largely by word of mouth? Increasing your contacts increases your chances. This takes a concerted effort at networking (*that's why this e-GRID is your "networking partner"*), including developing a system for keeping up with information about the people you meet, making a point to stay in touch on a regular basis, and setting a goal for making new contacts. For seven steps to successful networking: [\[more\]](#)

To subscribe to IEEE's Career Alert: [\[more\]](#)

#### Note to All IEEE Members

##### Professional Engineer Exam Review Course

The SF and OEB Sections, along with SF PACE, have organized a review course for those wishing to take the PE exam in October. The 10 weekly sessions are on Thursday evenings, starting August 18th, and are held near the 19th street BART station in Oakland, for easy access. Cost is a low \$125 for members, and enrollment will be limited. Please **download the course flyer**, for more information and registration details.

#### 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.

*Learning is not compulsory ... neither is your job.* In today's world, increasing competition has made professional development a requirement -- not an option.

#### ISSM'05 IEEE International Symposium on Semiconductor Manufacturing [\[more\]](#)

-- San Jose Fairmont Hotel  
-- Workshops: Monday, September 12  
-- Sessions: Tuesday - Thursday, September 13-15

The Fourteenth ISSM is the largest world-wide forum specifically designed for semiconductor device manufacturers and suppliers. This year's event covers timely and important topics:

- Factory Design - Manufacturing Strategy and Structure - Ultra Clean Technology - Process and Metrology Equipment - Manufacturing Control and Execution - Process Materials Optimization - Environment, Safety & Health - Robust Engineering - Advanced Backend Processing - Process Control and Monitoring - Yield Enhancement

**Two half-day workshops:** - "Conjoint Design for Manufacturing (DFM) and Advanced Process Control (APC) Strategies for Yield at 65nm and Beyond" - "Impact on Manufacturing of Introducing New Materials in IC Production"  
**Six keynote speakers** from Tokyo Electron, NSC, UMC, TI, Sematech, Samsung

Earlybird registration discount through August 1st.

See the one-page flyer in this month's [GRID.pdf](#), or visit [www.issm.com](http://www.issm.com). Sponsors: IEEE Electron Devices and CPMT Societies, with SEMI and JSAP

#### Real University. Real Degrees. Real Faculty. All Online.

Polytechnic University's **ePoly online graduate programs** give you the chance to get ahead with your education and your career, without interfering with your busy schedule. You can pursue a Master's degree, a graduate certificate, or continue your education - all online.

**Apply online now** for the Fall 2005 Semester starting September 1st: [epoly.poly.edu/applynow](http://epoly.poly.edu/applynow)

#### M.S. in Electrical Engineering (MSEE) [\[more\]](#)

Earning an M.S. degree online in Electrical Engineering will prepare you for an advanced level career as a practicing electrical engineer. Graduates of the MSEE program represent a well-respected group of highly motivated, practicing engineers. Many move on to conduct advanced research or pursue their PhDs.

#### M.S. in Telecommunication Networks (MSTN) [\[more\]](#)

Earning an M.S. degree online in Telecommunication Networks provides you the background that will cover all aspects of networking -- Internet banking, reservation systems, office information systems, and corporate networks.

#### Telecommunication Network Management Graduate Certificate [\[more\]](#)

A Graduate Certificate in Telecommunication Network Management may be pursued en route to the MSTN or MSEE - or simply to gain a specialization in this complex field of network management.

#### Wireless Communications Graduate Certificate [\[more\]](#)

Earning a graduate certificate in Wireless Communications will enable you to advance your career or begin an entirely new one. With a background in EE, the online courses in this program will provide you with specific knowledge required to work in this expanding market. These courses can count towards earning a Master's degree in Electrical Engineering.

#### Antenna Systems and Short Range Wireless '05 [\[more\]](#)

- September 22-23  
- Santa Clara Marriott

More than 40 technical presentations from the foremost experts on antenna systems and short-range wireless standards & technology. One registration fee provides access to both technical programs. Focus on the most important advancements in antenna systems and short-range wireless standards and technology for industrial, commercial and residential applications.

**Keynote Talks:** - Small Size Active Controllable Antennas for Mobile Phones - Subscriber Based Smart Antenna For Wireless Devices: From Concept to System Integration And Beyond - RFID Technology: Promises and Challenges

*August 8-11, Stanford University campus (plenty of parking):*

#### IEEE **Computational Systems Bioinformatics Conference** [\[more\]](#)

Come to **CSB'05** for a broad spectrum of peer-reviewed papers covering the breadth and depth of the dynamically evolving field of bioinformatics. Our keynote speakers, paper and poster presentations, tutorials and social events have all been designed to cater to bioinformatics' eclectic mix of disciplines. The low registration fees make it possible for everyone to attend - it's especially easy for "locals" from the Bay Area.

**What is "Bioinformatics"?** - scientific and engineering disciplines bringing new biological discoveries to fields as varied as human health, agriculture, the environment, energy and biotechnology. Get started in engineering's newest field!

**Tutorials on Monday:** - Demonstration Projects in Clinical Informatics - Novel

Early-bird rates through **August 19th**. [More information](#)

### North American IPv6 Conference [\[more\]](#)

- Sept. 19-22  
- San Jose State University  
- Tutorials - Sessions - Exhibits - Panels

The change from Internet Protocol version 4 to IPv6 is a major upgrade in capability for the internet. Come to four days of IPv6 technology knowledge transfer to assist you with the planning and systems analysis for IPv6 deployment. IPv6 networking and IPv6 subject matter experts will discuss the architectural principles, technology advantages, mobility, transition, security, porting of applications, and other topics in depth.

One day of IPv6 tutorials allows participants to learn more about the internals of the IPv6 next-generation networks Internet protocol. The summit will also provide industry expert panels to discuss various aspects of IPv6 deployment, and vendor product panels.

Held at the SJSU Student Union Bldg (park at South Garage on 7th Street, third floor and above, \$8/day). To register, and for more information, visit [www.ipv6conference.com](http://www.ipv6conference.com).

The first 200 registered attendees will receive a free 12-month subscription to any of IGI's [monthly telecom newsletters](#).

Visualization and Analysis Methods in BioImaging - Computational Methods in MS-based Proteomics - Introduction to the Semantic Web for Bioinformatics - and more  
**Associated Workshops** on Friday, August 12 (only \$100) *Need not register for CSB* - BioImage Data Mining and Informatics - Controlling Complexity - Exploring 3D Molecular Structures Using NCBI Tools - BioSPICE and Use Cases

See the one-page flyer in this month's [GRID.pdf](#), or visit [conferences.computer.org/bioinformatics](http://conferences.computer.org/bioinformatics).

*IEEE Magnetics Society*

### 16th Annual Magnetic Recording Conference: "Heads and Systems" [\[more\]](#)

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

The oral sessions will be held at the Hewlett Teaching Center Auditorium, and Stone Pine Plaza will be used for Posters and Bierstube. On-campus parking at no cost.  
Download the [one-page flyer](#)  
Get complete information at [tmrc.nanointernational.org](http://tmrc.nanointernational.org)

### Two college-level teaching positions available

Santa Clara University has an opening for a lecturer in EE (with emphasis in communications), and Cogswell College has an opening for an endowed chair in electrical engineering.

For more details: [www.e-grid.net/docs/0508-positions.pdf](http://www.e-grid.net/docs/0508-positions.pdf)

### Professional Skills Courses in the SF Bay Area

Choose from an array of skills-development classes, from Effective Training Associates and the Engineering Management and CPMT Chapters. Classes in August:

#### Communication & Conflict Management Using MBTI [\[more\]](#)

- August 17 at LSI Logic, Milpitas

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. It provides insights on the four basic "people patterns" that hold the key to leadership styles, effective communication, conflict, team building and productivity.

#### Transitioning from Individual Contributor to Manager [\[more\]](#)

- August 4 at Cypress Semiconductor, San Jose

#### High Impact Coaching [\[more\]](#)

- August 16 at Sybase, Inc, Dublin

### Consultancy Partner Wanted

An electrical and mechanical engineering firm in Oregon with 35 years of experience is looking for an interested party to take over the company or join with the ultimate aim of taking ownership. Consulting is in the utilities, energy, forest, power and transmission industries in the Pacific Northwest and Alaska.

For more details: [www.e-grid.net/docs/0507-consult.pdf](http://www.e-grid.net/docs/0507-consult.pdf)

### SJSU Department of Electrical Engineering:

**August Short Courses** 4 days, with labs  
On the SJSU campus (*easy parking*)

Two classes on **August 9-12:**

#### DSP System Design and Implementation [\[more\]](#)

#### Wireless Transmitters [\[more\]](#)

Three classes on **August 16-19:**

#### Embedded Systems and Embedded FPGAs [\[more\]](#)

#### FPGA DSP System Design [\[more\]](#)

#### High-Speed Data Networks [\[more\]](#)

For full class outlines, prerequisites, fees, and lecturer biographies, see the Course Flyer: [www.e-grid.net/docs/sjsu0508.pdf](http://www.e-grid.net/docs/sjsu0508.pdf)

### Donations of Equipment to TEN

TEN – **The Enterprise Network** – is a nonprofit, 501(c)(3), business incubator, support center, and accelerator that supports hi-tech entrepreneurs in Silicon Valley by providing facilities, education, training and mentoring. There are currently 38 companies in the incubator. TEN acquires **surplus equipment and excess or obsolete spare parts** from Silicon Valley companies that can be donated to TEN for resale by TEN to fund the current operating expenses. They have set up a "painless" process whereby equipment or other assets identified by an organization can be donated and disposed of while providing to the donating organization a record of the transaction for accounting and tax purposes.

If your company has used/obsolete production or test equipment, or other assets, and you'd like to see about donating them to create jobs and new companies in Silicon Valley, contact Jack Moorman, Senior Director, or see our web page: [www.tensv.org](http://www.tensv.org).

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

[listserv@listserv.ieee.org](mailto:listserv@listserv.ieee.org)

...with the following choices in the BODY (not Subject) of the message:

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**unsubscribe e-GRID-text**

Maintain your current DList records at our IEEE LISTSERV website: <http://listserv.ieee.org/>

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](mailto:Paul.Wesling@ieee.org), Council Communications Director