

IEEE Santa Clara Valley Electron Devices Society Chapter (SCV/EDS)

*Promoting excellence in the field of
electron devices for the benefit of EDS
community in the San Francisco bay area*



Santa Clara Valley EDS Chapter

- ❑ Largest and the most active IEEE Electron Devices Society Chapter with more than 900 members
 - ❖ Enable professional networking within the EDS community in the San Francisco Bay Area
 - ❖ Organize technical events on advanced topics of interest to EDS community
 - ❖ Help drive IEEE and industry-wide standards
- ❑ IEEE **“EDS Chapter of the Year”** in 2007



SCV/EDS Technical Events

- ❑ Organize more than 10 technical lectures per year presented by leading experts in the field (typically, 2nd Tuesday of each month at 6:00 PM)
- ❑ Organize up to two symposiums per year
- ❑ Co-Sponsor multiple events with other local IEEE societies
- ❑ Technical events are open to ALL at no cost
 - ❖ Free Pizza and Drinks



EDS President's Visit

- EDS President, Prof. R.P. Jindal visited SCV/EDS chapter on Dec. 2nd, 2010:
 - ❖ Offered a distinguish lecture (DL) seminar
 - ❖ Discussed IEEE & EDS affairs in an interactive question & answer session



SCV/EDS Technical Events in 2010

- Total 17 technical events sponsored or co-sponsored
 - ❖ 60 – 100+ attendees for EDS sponsored events
 - ❖ CMOS Roadmap and Power electronics were the key themes
 - ❖ Co-sponsored with CPMT/Rel/SSC/CS/PELS/nano societies
- One Full-day symposium on 3-D interconnects
 - ❖ 10 talks + round table discussion
 - ❖ 220+ attendees



SCV/EDS Technical Events in 2010

- ❑ 2010 Outstanding leadership award for Central Area (CA, NV, HI)
- ❑ Initiated EDS SCV scholarship program for local high school students
 - ❖ Encourage kids into math & science
 - ❖ Promote IEEE activities
 - ❖ Students to write opinion essay on articles from Bill Gates and Andy Grove
 - ❖ \$500 scholarship and IEEE electronic kits for top students
 - ❖ Champion committee members: Reza Arghavani and Samar Saha

IEEE SCV/EDS Chapter

- ❑ In Sync with SCV/EDS Chapter Activities
- ❑ <http://www.ewh.ieee.org/r6/scv/eds/>



ieee scv eds

Google Search

I'm Feeling Lucky

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The screenshot shows the IEEE SCV/EDS Chapter website. The top navigation bar includes links for IEEE HOME, SEARCH IEEE, SHOP, and WEB ACCOUNT. Below this, there are links for Membership, Publications, Services, Standards, and Conferences. The main content area features a sidebar with links: SCV EDS Home, About the Chapter, Key goals, Chapter Officers, Past Events, **Subscribe to Email List** (highlighted with a blue circle), and IEEE EDS Links. The main heading reads "IEEE Santa Clara Valley Electron Devices Society". Below the heading, it says "IEEE SCV EDS Monthly Events - As of Jan 22, 2010". The background of the main content area is a dark, grid-like pattern.



SCV/EDS 2011 Officers

Chapter Chair:	<i>Reza Arghavani, Lam Research Corp.</i>
Vice-Chair:	<i>Toshishige Yamada, Santa Clara Univ.</i>
Secretary:	<i>Sachin Sonkusale, SuVolta Inc.</i>
Treasurer:	<i>Sandeep Bahl, National Semiconductor</i>
Asst. Secretary:	<i>Saurabh Chopra, Applied Materials</i>
Webmaster:	<i>Shuqing (Victor) Cao, GlobalFoundries</i>
Past Chair:	<i>Prasad Chaparala, National Semiconductor</i>
Committee Members:	<i>Jayasimha Prasad, Jeff Watt, Philippe Jansen, Peter Rabkin, Samar Saha</i>



IEEE ELECTRON DEVICES SOCIETY (EDS)

*Promoting excellence in the field of
electron devices for the benefit of
humanity*



EDS Mission Statement

To Foster professional growth of its members by satisfying their needs for easy access to and exchange of technical information, publishing, education, and technical recognition and enhancing public visibility in the field of Electron Devices



EDS Field of Interest

- The field of interest for EDS is all aspects of engineering, physics, theory, experiment and simulation of electron and ion devices involving insulators, metals, organic materials, plasmas, semiconductors, quantum-effect materials, vacuum, and emerging materials.
- Specific applications of these devices include bioelectronics, biomedical, computation, communications, displays, electro and micro mechanics, imaging, micro actuators, optical, photovoltaics, power, sensors and signal processing.

What We Do as IEEE EDS

Conferences

- IEEE International Electron Devices Meeting (IEDM)
- IEEE Photovoltaic Specialists Conference (PVSC)
- Distinguished Lecturer Workshops and Mini Colloquia
- 150 other conferences worldwide each year

Publications

- *Transactions on Electron Devices*
- *Electron Device Letters*
- *Transactions on Devices and Materials Reliability*

Networking

- EDS supports over 140 chapters worldwide
- Chapters: 59 in the Americas; 43 in Europe, Africa, & the Middle East; and 38 in Asia and the Pacific.

Awards & Recognition

- EDS distributes over \$40,000 annually in awards and fellowships to both professionals and students.



New EDS Publications

□ Journal of Photovoltaics (JPV):

- ❖ 1st issue scheduled publication in July, 2011

□ EDS Express (EDX):

- ❖ Rapid publication of breakthrough research results in EDL special section
- ❖ 2-page limit
- ❖ 6 weeks from submission to online posting

Why Join IEEE EDS?

- **Free on-line access to the following EDS publications**
 - *IEEE Electron Device Letters* (1980 - present)
 - *IEEE Trans. on Electron Devices* (1954 - present)
 - *IEEE International Electron Devices Meeting* (1955 - present)
 - *IEEE/OSA Journal of Lightwave Technology*
- **QuestEDS**
 - Submit questions online consistent with the EDS field of interest and can view online the answers provided by experts in the field.
<http://www.ieee.org/go/questeds>
- **Discounts on IEEE and EDS conferences and publications**
- **Additional benefits included with EDS membership**
 - IEEE EDS Member Roster (on-line at www.ieee.org/eds/roster)
 - IEEE EDS Newsletter (on-line at www.ieee.org/eds/newsletter)



Why Join IEEE EDS?

BE PART OF THE COMMUNITY!

- ❑ Join the 11,000 EDS Members with 144 chapters worldwide
- ❑ Network with peers from across industries and sectors
- ❑ Share in the stewardship of EDS



Three IEEE Fellows/EDS members Won 2009 Noble Prize in Physics

“...for breakthroughs involving the transmission of light in fiber optics and inventing an imaging semiconductor circuit, the three scientists created the technology behind digital photography and helped link the world through fiber-optic networks.”



(l-r)
Dr. Charles K. Kao
Dr. Willard S. Boyle
Dr. George E. Smith



EDS Membership Info

Membership Fee: \$12 per year

To Learn more:

- Visit www.ieee.org/eds
- Contact the EDS Executive office:
IEEE Operations Center
EDS Executive Office
445 Hoes Lane
Piscataway, NJ 08854, USA
Email: eds@ieee.org



got a question?



go to:

QuestEDS

www.ieee.org/go/questeds

