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To subscribe, please email Sandra Winkler at s.l.winkler@ieee.org.

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The eGrid is owned by the SF Bay Area Council (SFAC) Bay Area Council Website, officer's training tools and more.

IEEE Benefits and Information, including upcoming historic milestone events.

Additional Education

Events and Conferences

Volunteer Opportunities

The eGrid is updated daily. Put on your favorites list. [www.egrid.biz](#)

This URL is graciously paid for by Brian Berg, of CNSV. [Enjoy reading DiBert below.](#)

ADDITIONAL EDUCATION

Besser Associates
The Worldwide Leader in RF and Wireless Training. See ad below.

Santa Clara University Graduate Engineering
MS in Sustainable Energy, and certificates in Renewable Energy or Frugal Innovation. See ad below.

Northeastern University, Silicon Valley
Earn your MS in Information Systems with Blockchain Technology Specialization. [Learn more](#). Also see ad below.

PROFESSIONAL CONFERENCES AND EVENTS

IEEE SG
July 9-11, 2018, [SG World Forum \(SGWF'18\)](#), Santa Clara
SG in automotive, health, media, IIoT, satellites, standards, regulations

Global Humanitarian Technology Conference (GHTC), San Jose
July 15, 2018 Deadline for poster papers (up to 2 pages) August 30, 2018 Submission of accepted final papers (full and poster) for inclusion in conference proceedings. Benefiting humanity through technology, in areas such as clean water, energy, food security, healthcare, and connectivity

August 7-9, 2018, Flash Memory Summit, Santa Clara
The latest technology updates, forecasts, and roadmap for non-volatile memory (NVM), highlights feature NVM, NVMe-oF, Persistent Memory, advanced memory technologies, key Open Source software topics, and the latest storage design tricks. \$100 discount for IEEE members.

September 11-13, 2018, PCB West, Santa Clara Convention Center
Silicon Valley's largest event for the printed circuit board industry, connecting design to fab to assembly. Visit [PCB West](#) for more information. Register for the conference by August 13 to save \$100.

September 23-27, 2018, Energy Conversion Congress and Exposition (ECCE) 2018, Portland, Oregon
Renewables, smart grid, energy harvesting, reliability, diagnostics, measurement techniques.

CHAPTER EVENTS

Blockchain Group Be part of the new Blockchain Group, the latest disruptive technology many are talking about. If interested, please notify Sandra Winkler at s.l.winkler@ieee.org

7/25, 6:30 pm SFAC PELS CVS RELIAB Reliability of a Semiconductor Power Switch in a Power Electronics Switching Converter, Texas Instruments, Building E Conference Center, 2900 Semiconductor Blvd., Santa Clara. \$5 at the door

PELS Distinguished Lecture (DL) speaking about reliability factors in power supply design with emphasis on power switch life and how to validate and monitor performance over application life.

7/26, 6:00 pm SCV CAS A 1st ENOB Noise-Shaping SAR ADC with a Two-Capacitor DAC, Cypress Semiconductor, Main Auditorium in Building 6, 198 Champion Ct, San Jose
smaller, mismatch error can be greatly reduced, first-order noise shaping, which can improve the ADC's linearity; 2 kHz signal bandwidth, it achieved a /8.8 dB SNDR

8/1, 6:00 pm, SCV CIS **Interpretable, Integrative Deep Learning for Decoding the Human Genome**, H2O.ai, 2307 Lehigh St, Mountain View
Deep learning models can reveal the regulatory code that controls differentiation and identity of diverse blood cell types. Differences in DNA sequence across healthy and diseased individuals are likely to affect molecular mechanisms associated with complex traits and diseases. Free - \$10.

8/7, 6:30 pm, SCV CS Helping You and the Children in Your Life-Learn STEM Subjects More Effectively, Cadence / Bldg 10, 2655 Seely Ave, San Jose
delve deep into the brain to give you practically useful information about how you, and your children, can become experts; neuroscientific perspective why it's perfectly normal to not understand. Free

8/9, 6:00 pm SCV CASS SSCS **Massive MIMO Active Antenna Arrays for Advanced Wireless Communications**, Cypress Semiconductor, Main Auditorium in Building 6, 198 Champion Ct, San Jose
benefits and limitations for various RAN systems and frequency bands, field trial results for Blue Danube Massive MIMO products operating in mid-band spectrum

8/16, 6:00 pm SCV IMS **Near-Field Scanning: Searching for Root Causes**, Geometrics, 2190 Fortune Drive San Jose
Emission source microscopy (ESM) scanning technology is a powerful tool to identify the radiated emission sources, back-calculating the field to board or system surface to localize the contributing sources

8/23, 11:30 am SFBA EPS **Flexible Hybrid Electronics: System as Package (SoP)**, NextFlex, 2244 Blach Place # 150, San Jose
Industrial, medical, automotive and consumer markets will show how additive manufacturing, combined with flexible substrates, can deliver on the promise of the "electronics on everything." \$10 - \$15

8/23, 6:00 pm SCV CIS **When Your Big Data Seems Too Small: Accurate Inferences Beyond the Empirical Distribution**, Intel SC2, 3600 Jubilee Ln, Santa Clara
Possible to estimate the performance that could be achieved if additional data (drawn from the same data

Sensors, Expo, and Conference

The industry's largest event dedicated to sensors, connectivity, and systems. Early bird registration is now open!

Held June 26-28, 2018, at the San Jose Convention Center. For more information, to go sensorsexpo.com. Use promo code IEEE50 for \$100 off pass.

THE ONLY TECHNICAL PROGRAM COVERING 100% SENSORS

- Embedded Systems
- 3D Vision, Optical
- Nano power, MEMS
- Energy Harvesting
- IoT, Machine Learning
- AI, 3D LIDAR Solid State
- Air quality measurement
- Printed flexible, stretchable fabric

PRODUCT SAFETY

The IEEE Symposium on Product Safety Engineering (ISPECE) will be held in San Jose from May 14-16. Join product safety and design professionals to discuss and disseminate technical information related to product safety and global regulatory issues. Connect with exhibiting companies in the hall!

- Global Market Access & Regulations, Compliance Management
- EMC & Wireless Compliance
- Environmental & Energy Regulations
- Batteries & Energy Storage Systems
- Medical Devices
- Hazard Based Safety
- Engineering & Safety Science
- Forensics, Failure & Risk Analysis, Assessment & Management
- Emerging Technologies & Innovations

Advanced registration rates end April 1. [Register now](#)

IEEE SENIOR MEMBER ELEVATION in SANTA CLARA COUNTY

Senior member elevation meeting to take place on **June 4th**, at Silicon Valley Polytechnic Institute, 1762 Technology Drive #228, San Jose. Bring three hard copies of your resume, and we will provide IEEE members to review your status and become your references for your senior upgrade. The meeting will take place between 6:00 pm and 8:00 pm. Refreshments will be provided at this free event.

Enjoy the perks of being a Senior in Santa Clara County! For more information, please see [IEEE senior member](#). Register with Kris Verma, who can be reached at kriverna@ieee.org.

Additional 2018 senior elevation nights will be September 10, and December 3.

CREATIVITY AND INNOVATION

The **Maker Faire**, a showcase of invention, creativity, and resourcefulness, is coming on May 18, 19, & 20, 2018, at the San Mateo County Event Center.

Creativity, re-use, re-cycle, green energy, electronic gizmos, Steampunk, R/D, drone wars and races, electric drivable cupcake, gigantic flame-throwing robotic ant, enormous robotic walking octopus, solar tulip vehicle, multi-stories tall rock'em-sock'em robots, life-sized mouse trap board game, and so much more!

Faire gathers together tech enthusiasts, crafters, educators, tinkerers, food artists, hobbyists, engineers, science clubs, artists, students, and commercial exhibitors. Go to [Maker Faire](#) for more information.

HUMANITARIAN BUSINESS OPPORTUNITIES

The Global Humanitarian Technology Conference (GHTC) will be held on October 18-21, at the Double Tree in San Jose. Paper abstracts up to 500 words are being requested, with a submission deadline of April 7th.

Authors and Presenters must demonstrate a clear understanding of the interrelationship of their work with socio-cultural, socio-economic, policy and environmental factors, and clearly state whether they are presenting preliminary, accepted or final results as well as expected or actual impact. Key focus areas include, but are not limited to:

- Affordable & Clean Energy
- Agriculture & Food Security
- Clean Water & Sanitation
- Community engagement, Capacity building, and Behavior Change
- Connectivity & Communication
- Disaster Mitigation, Preparedness, Response & Recovery
- Humanitarian Challenges & Opportunities
- Technology Enhanced Quality Education Delivery
- Technology Enhanced Healthcare
- Technology and Applications for Poverty Alleviation
- Other United Nations Sustainable Development Goals
- Technology Showcase (exhibit display)

VOLUNTEER OPPORTUNITIES

Partner with science teachers of K-8 students - tosofco@ieee.org

School Science Presenters Wanted for AVS Science in Action - nccavc_education@avs.org or brayavold@ieee.org