



Next Meeting: Monday December 15, 2025

PRESENTATION: Electrostatic Discharge (ESD)

Description impact to industry and Mitigation Techniques

Certus supplies the semiconductor industry with leading edge custom and ESD and IO IP, as well as custom Analog design and Standard Cell Libraries. Stephen will be discussing challenges in ESD and IO cell design and his present engagement with leaders in the industry including TSMC, Global Foundries, Intel and others as well as several other companies in the valley. Technology trends with emphasis on ESD and I/O problems with new technologies and his involvement. Stephen and his team have also graciously volunteered to mentor 2 ASU capstone teams developing a test PCB (KiCad) and bench top tester (USB based) software for a library of IO drivers for a custom chip which his team developed. He will describe his journey and career technical highlights and achievements. He has sponsored and taught many technical seminars on ESD mitigation techniques.

Biography Of the Presenter: Steven Fairbanks

Stephen's Educational background includes Stanford University MSEE Candidate, 2003 - 2005 Brigham Young University BSEE, Electrical Engineering and Mathematics, 2000. His work experience includes several companies in addition to starting Certus semiconductor here in Phoenix who employs 15 engineers across the world. He is also a member of the IEEE. Stephen's work experience includes CEO and Founder of SRF Technologies and Certus Semiconductor since 2006. Primary emphasis is as the lead

developer of ESD and I/O libraries on several processes. Prior to Certus, he was a Senior Staff Engineer/ Staff Engineer Intel Corp. for 6 years. Additional design engineering background include Engineering Design for Mass Spectrometry Systems and Chromatography Instruments. He is a world-renowned expert in semiconductor ESD issues and mitigation techniques, and the longest serving independent ESD Consultant. He is also the official Semiconductor ESD consultant for the ESD Association and sits on its Board of Directors.

MEETING STARTS AT 11 AM

Meeting Agenda:

11:00 AM: Open Meeting
 Attendee introductions
 11:10 Lunch
 11:15 Treasurers Report
 11:20 Program Presentation and Discussion
 12:30 Business meeting
 12:54 Adjourn participants meeting
 12:55 Administrative meeting Officers
 Discuss vacancy resolution for LMAG Secretary
 Discuss progress on developing possible future meeting locations.
 1:00 PM Adjourn Admin.

When: Monday December 15, 2025 - 11:00am to 1:00pm,

Where: **SRP's PERA Club Bighorn Room,**
 1 East Continental Drive, Tempe, AZ
 Continental is West of 68th St., ½ mile south of McDowell Road. Enter the Private PERA Club and follow the drive to the parking lot and walk to the large building following the IEEE signage.

RSVP: Required for both physical attendees and ZOOM attendees.

Please RSVP to Tom Lundquist tom.lundquist@ieee.org . We are required to provide PERA the number of attendees 10 days prior to the meeting for the room accommodations, and lunch count.

Registration Fee: for attendees it is \$18. This will include a light lunch. **Students are invited with no fee but need to RSVP.**

Tau Beta Pi Alumni and members are invited as paying attendees, please RSVP.

Bring the fee to the meeting or make a check out to “**IEEE Phoenix Section LMAG**” and mail to Gary Frere - Treasurer, his address is:

Gary Frere
6708 E. Palm Ln.
Scottsdale, AZ 85257-2516

For ZOOM attendees the fee is \$15. When you RSVP as a Zoom attendee that is considered a commitment for the \$15 fee to be sent to Gary Frere. You will be provided with the URL for the Zoom portion of the meeting.

IEEE Phoenix Section Life Member Affinity Group: The Group was organized to enable IEEE Life Members to retain active IEEE associations, contribute to the social good in their communities, advance IEEE's professional interests, and enjoy each other's company. See Life Member web site. <https://life.ieee.org> for Life Member Activities.

Future Meetings:

- Monday December 15, 2025, PERA CLUB
- Monday February 9, 2026, PERA Club
- Monday May 18, 2026, PERA CLUB

Officers for 2025 and 2026:

Chair	Leslie Daviet II lesdaviatii@gmail.com
Vice Chair	Dan Farkas dfarkas@ieee.org
Secretary	Tom Lundquist tom.lundquist@ieee.org Resigned effective 1/1/2026
Treasurer	Gary Frere gary.frere@gmail.com