

ISSUE: [July 2019](#)

## **EOS/ESD Symposium Presents Best Practices, Emerging Technology And Hands-On Experiences**

by Brennan Pimpinella EOS/ESD Marketing Administrator

The EOS/ESD Symposium is the premier international event for professionals in industry and academia to network while immersed in the latest technical findings and innovative designs. The organizers of the first Symposium, way back in 1979, would be shocked (no pun intended) at the enduring success and relevance of this event. I understand there was, in fact, a fair consensus of thinking during the planning of that first Symposium that this was going to be a one-shot deal. Everyone would get together to share notes on how to solve the static issues, publish the results, and go home with the answers.

Today, the EOS/ESD Symposium is well known as the premiere international gathering of ESD professionals. This status is a result of four key factors: 1) outstanding technical papers from both industry and academia, 2) close interaction and enduring support from industry exhibitors, 3) an amazing group of volunteers and 4) the wonderful staff at ESDA headquarters. Here is a short summary of what to expect at our event, which will take place September 15 to 20 in Riverside, Calif.

A dedicated team of experts, in all areas of EOS and ESD, have been working diligently all year to prepare the tutorial program. Tutorials are offered around the symposium, on Sunday, Monday, and Thursday. In addition to classics on advanced on-chip protection, ESD circuits, and TCAD fundamentals, we have an increasing focus on system-level protection, and electrical overstress (EOS). New tutorials include "System Level ESD/EMI: Principles, Design Troubleshooting, & Demonstrations".

Many previously offered tutorials have been refreshed with updated material, including "ESD Controls for CDM" and "Ultra-Sensitive Devices and Circuit Boards."

Over 50 exhibitors attend our symposium! Our industry exhibits display a wide variety of ESD solutions from established products to leading-edge innovations. Representatives from many different companies welcome you in the exhibit hall to demonstrate their products and services, starting with the welcome reception on Monday evening and continuing until the exhibits close on Wednesday afternoon. The exhibits offer a unique opportunity to meet professionals with hands-on experience on static control methods, evaluation techniques, ESD testing hardware, and many other ESD solutions.

Presented as the highlight of the Awards Breakfast, this year's keynote is "Modeling Systems with Quantum Computing" by Rudy J. Wojtecki of IBM. In the Design Track we will have 30 peer-reviewed plus one invited technical paper: These will be presented from Tuesday through Thursday in 12 sessions covering current research topics in the areas of advanced CMOS, RF/HV/MEMS, system-level ESD/modeling/soft failures, ESD transient analysis, ESD case studies, EOS/ESD EDA tools, numerical modeling, and ESD testing. The papers are presented by experts from industry and academia driving leading-edge research and development.

In the Manufacturing Track we will have 13 peer-reviewed papers in two technical sessions. Furthermore, the Manufacturing Track includes two sessions with five short tutorials, two hands-on sessions, and three discussion groups. This year's program again features two year-in-review presentations. Dave Swenson of Affinity Static Control & Consulting will talk about "Test, Evaluate and Support Implantation of Materials, Process and Procedures Used for ESD Control" and Alan Righter of Analog Devices will summarize the "Relationships and interactions between ESD and EMC".

Eight symposium workshops, which take place on Tuesday and Wednesday evenings, offer an interactive forum for sharing experiences, exchanging knowledge, and exploring potential solutions. The topics cover a wide



**41ST ANNUAL  
EOS/ESD SYMPOSIUM  
AND EXHIBITS**

 <b>DATE &amp; TIME:</b> September 15-20, 2019	 <b>LOCATION:</b> Riverside Convention Center 3637 5th Street, Riverside, CA 92501
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range from CDM testing to machine learning in ESD check tools. Even several ESD myths and misconceptions will be debunked. Each workshop allows participants the opportunity to learn different perspectives from other colleagues in the field to discuss sometimes controversial topics in an informal environment. Two of the workshops will be held in the popular world café style, which effectively lowers the threshold for every participant to actively engage in a fruitful discussion.

After last year's successful introduction of the "Robustness of IoT Devices" workshop, we have decided to keep this workshop on the symposium program. Several invited speakers with unique industry-wide IoT expertise will cover the numerous challenges of meeting reliability and robustness requirements. Join us to learn and network with industry experts.

Our general chair, Guido Notermans, warmly invites everyone to the General Chair's Reception on Wednesday September 18th from 7:00 PM to 9:00 PM.

The EOS/ESD Symposium is the premier international event for professionals in industry and academia to meet their peers and learn about the latest technical findings and innovative designs. Come, learn, and have fun!

Registering for the 41st annual EOS/ESD Symposium and Exhibits allows you to attend every technical session, the manufacturing track, and the IoT workshop. To register, view the program, and find more information, visit <https://www.esda.org/events/41st-annual-eosesd-symposium-and-exhibits>.