



Complimentary ESD Webinar:

Tuesday, January 24th
11:00 am - 12:00 noon EST

Rethinking EOS (Electrical Overstress)

by

Dr. Terry Welsher

Sr. Vice President, Dangelmayer Associates
President Emeritus, EOS/ESD Association



Speakers

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the Dream Team
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About Us

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Greetings!

Join us for this interactive webinar and learn about
:

Rethinking EOS

by Terry Welsher, Ph.D.

*Sr. Vice President, Dangelmayer Associates
President Emeritus, EOS/ESD Association*

Electrical Overstress (EOS) accounts for most of the electrical failures of devices that occur in factories and in the field. One EOS root cause, ESD, has received much attention in technical literature, standards bodies and educational workshops and tutorials. It has been approached in a systematic manner which has resulted in relatively successful practices for design of robust devices and control procedures for the factory.

However, the same cannot be said for the effects of the broader categories of electrical stresses that can be the root cause of electrical overstress (EOS). These other root causes (over-voltage, over-current, over-power), when grouped together, are more prevalent causes of failure than ESD by a wide margin because of the lack of a coherent design and mitigation strategy. One of the main reasons for this is that EOS root causes are widely varied and very application dependent. As a result, no simple broad models for EOS have emerged comparable to HBM and CDM for ESD. Common device design practices have not been developed to the same extent, system level approaches tend to be *ad hoc* and responsibility for controlling potential sources in manufacturing tends to be diffused or non-existent.

In this webinar, we review the current status of work on EOS. This will include recent significant reports in the technical literature, work of standards and industry groups and some recent interesting case histories. We will also explore the definitions of EOS and some related terms and attempt to clarify some common ways these terms are misused in literature and in failure analysis reports. "Rethinking" how we talk about EOS will help Failure Analysis, Design and Manufacturing work together to reduce EOS-induced failures (including ESD).

This webinar will be highly interactive, and attendees will be encouraged to ask questions.

The webinar format offers VoIP and phone line connections. You will be able to talk directly with our team of experts and see our cursor pointing to discussion topics and slides.

Space is limited.

Reserve your Webinar seat now and only at:

<https://attendee.gotowebinar.com/register/7842245074645749761>

**Ted Dangelmayer
President & CEO
Dangelmayer Associates, LLC.**

WHO SHOULD ATTEND

This instruction is intended for professionals who have a basic understanding of ESD and wish to learn more.

THE WEBINAR FORMAT

A live Webinar is one that you can "attend" and participate in right from your office. The savings are significant - no travel time or hassle and no travel expense. It's easy; you only need a telephone or VoIP and access to the Internet.

The audio portion is delivered over the telephone or VoIP for reliable and clear sound quality. At the same time, talk with the experts as you view the speakers' Power Point presentation.

The Webinar is also interactive so you will be able to ask questions of the experts and provide comments during the course of the program. Questions may be submitted prior to the Webinar: Ted@Dangelmayer.com.

WEBINAR INFORMATION

**Date: Tuesday, January 24, 2017
11:00 am - 12:00 noon EST**

Registrations are only via this link:

<https://attendee.gotowebinar.com/register/7842245074645749761>

WEBINAR FEES:

NONE

After registering you will receive a confirmation email containing information about joining the Webinar.

System Requirements

PC-based attendees

Required: Windows® 8, 7, Vista, XP or 2003 Server

Mac®-based attendees

Required: Mac OS® X 10.6 or newer

Mobile attendees

Required: iPhone®, iPad®, Android™ phone or Android tablet

Please note: One registration entitles you to one telephone connection and one computer connection at one physical location. Any transmission, retransmission, or republishing of the audio or web portion of this program is strictly prohibited. International registrants may incur additional phone charges.

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