

# EOS/ESD SYMPOSIUM FOR FACTORY ISSUES MALAYSIA

## November 11-13, 2015

Hotel Jen Penang (formerly Traders Hotel)  
Magazine Road, George Town, Penang, 10300, Malaysia  
Lunch and refreshments provided.

<https://www.esda.org/events/eosed-symposia/eosed-factory-symposia/>



#### Accommodations:

Hotel Jen Penang (formerly Traders Hotel)  
Magazine Road, George Town, Penang, 10300, Malaysia  
Contact: Ms. Ong Xiang Ting  
Tel: +604-2622 622 ext 8368 Fax: +604-2626508  
Email: [xiangting.ong@hoteljen.com](mailto:xiangting.ong@hoteljen.com)  
Register Online: <https://www.hoteljen.com/reservations>

Room Rates (for this event only):

Deluxe Single/ Twin (with breakfast) -  
RM 271.18 per room per night



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<https://www.esda.org/events/eosed-symposia/eosed-factory-symposia/>



## ESD Basics

**NOV 11, 2015 • 9:00 AM - 12:30 PM**

Instructor: Marcus Koh, *Everfeed Technologies, Inc*

This talk will discuss the Fundamental causes of ESD and its control. It includes how ESD impacts industry, with brief explanations of charge generation, field measurement, the role of capacitance and voltage, charge measurement, and charge decay. Device failure mechanisms, including the respective test models like Human Body Model or Charged Device Model, will also be explained. Will discuss how to protect ESD sensitive devices and assemblies, give definitions of an Electrostatic Protected Area (EPA), and show how to assess the risk in an automated production line.

Dr. Marcus Koh is an ESD Association (ESDA) Certified ESD Professional-Program Manager; and iNARTE Certified ESD Engineer. He was the publicity chair and co-sponsor for ESD Association Asian Seminar in 2011 (Singapore), 1st ESDA Asian EOS/ESD Symposium 2012 (Singapore), EOS/ESD Symposium 2013 (Penang, Malaysia), ESDA Asian EOS/ESD Symposium 2014 (Singapore). As an active ESD Consultant, he has been proactive in consultation services on EOS/ESD matters to electronics assembly and manufacturing industries across Asia Pacific. His workshops are closely associated with ANSI/ESD S20.20 & IEC61340-5-1 standards & best practices, and instrumental in guiding ESD practitioners in the region, leading them toward iNARTE ESD Control Certification. Marcus graduated in Bachelor of Engineering (First Class Honors) and Ph.D. from Nanyang Technological University, Singapore. There, he was awarded the PUB Book Prize for outstanding performance in the subject "Power Electronics and Drives." Marcus' current research area is in energy management and stochastic problems using statistical modelling.



## ANSI/ESD S20.20 - Process Design Overview

**NOV 11, 2015 • 1:30 PM - 5:00 PM**

**NOV 12, 2015 • 9:00 AM - 12:30 PM**

Instructor: John Kinnear, *IBM*

This overview provides instruction on designing and implementing an ESD control program based on ANSI/ESD S20.20. The course provides participants with the tools and techniques to help with the selection of the ESD controls that are appropriate for the devices to be handled.

The following topics are covered

- ANSI/ESD S20.20 Administrative Requirements
- Grounding/Bonding Systems
- Personal Grounding
- ESD Controls for the EPA
- Packaging Requirements

John Kinnear is an IBM Senior Engineer specializing in process & system technology, and facility certification in accordance with ANSI/ESD S20.20. He has been the ESD Site Coordinator for the Poughkeepsie site since 1989 and is currently the ESD Coordinator for IBM. As a member of the ESD Association since 1990, John has served in several Standards Development Committees. John is the appointed Technical Adviser to the United States National Committee/IEC Technical Committee 101, where he represents the United States to the International Electrotechnical Commission (IEC). As Chair of the ESDA's Facility Certification (ANSI/ESD S20.20) development program, John coordinated the initial development of Lead Assessor training, ISO Registrar Certification and witness audits. John has served as ESD Association Vice President, Senior Vice President and President. He has also served as past General Chairman of the 2004 EOS/ESD Symposium. For his contributions to the ESD Association John was presented with the Joel Weidendorf Award for Standards in 2005, the Outstanding Contribution Award in 2006, and the President's Award in 2010. John has presented many papers both internal to IBM and at external conferences. He participates as an instructor for the Program Management series and has presented tutorials in North America and Asia. John also holds patents in the industry.



## Process Assessment

**NOV 12, 2015 • 1:30 PM - 5:00 PM**

Instructor: Reinhold Gaertner, *Infineon Technologies*

This Tutorial describes the measurement techniques that are needed for elements of ESD control programs. This covers measurement methods for compliance verification, product qualification, and trouble-shooting. These techniques will be demonstrated by actual measurements on materials and products. The seminar ends with an overview of risk analysis and trouble-shooting methodologies applied to actual field problems.

Reinhold Gaertner received his diploma in physics from the Technical University of Munich in 1987. Then he joined the Federal Armed Forces University Munich, where he was working on measurement techniques for ESD protective packaging materials. After working as an independent ESD consultant, he joined Siemens Semiconductors in 1996; which is now Infineon Technologies. He is responsible for all problems regarding external ESD protection at Infineon worldwide and also for problems in customer production, as well as for ESD device testing for qualification. Since 1989, he has lectured on static control and since 1991, he has been an active member of the German ESD Association, where he has been acting as vice president for the last couple of years. Since 1995, he has worked in the ESD standardization of IEC TC101, where he is currently convener of two working groups (static decay and device testing). In 2009, he received the outstanding contribution award of the ESDA and in 2011 he joined the ESDA board of directors.

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# EOS/ESD SYMPOSIUM FOR FACTORY ISSUES MALAYSIA

Register Online at [www.esda.org/events/calendar/](http://www.esda.org/events/calendar/)

## SCHEDULE

### WEDNESDAY, NOVEMBER 11, 2015

9:00 AM - 12:30 PM	1:30 PM - 5:00 PM
ESD Basics	ANSI/ESD S20.20 - Process Design Overview

### THURSDAY, NOVEMBER 12, 2015

9:00 AM - 12:30 PM	1:30 PM - 5:00 PM
ANSI/ESD S20.20 - Process Design Overview	Process Assessment

### FRIDAY, NOVEMBER 13, 2015

9:00 AM - 10:00 AM	10:00 AM - 10:30 AM	10:30 AM - 11:00 AM	11:00 AM - 11:30 AM	11:30 AM - 12:00 PM	12:00 PM - 1:30 PM	1:30 PM - 2:30 PM	2:30 PM - 3:00 PM	3:00 PM - 3:30 PM	3:30 PM - 4:15 PM	4:15 PM - 5:30 PM
Invited Talk 1	Invited Talk 2	Break	Invited Talk 3	Invited Talk 4	Lunch	Grounding	Invited Talk 5	Break	Ionization	Workshop

### WEDNESDAY, NOVEMBER 11, 2015

9:00 AM - 12:30 PM ESD Basics

1:30 PM - 5:00 PM ANSI/ESD S20.20 - Process Design Overview

### THURSDAY, NOVEMBER 12, 2015

9:00 AM - 12:30 PM ANSI/ESD S20.20 - Process Design Overview

1:30 PM - 5:00 PM Process Overview

### FRIDAY, NOVEMBER 13, 2015

9:00 AM – 10:00 AM Invited Talk 1: Is There a Correlation Between the Voltages Measured in Field and During Qualification?

*Reinhold Gaertner, Infineon Technologies*

10:00 AM - 10:30 AM Invited Talk 2: Advanced ESD Analysis for High Temperature Automated Handling Equipment

*Gerald Wong, Everfeed Technology*

10:30 AM - 11:00 AM Tea Break & Networking Session

11:00 AM - 11:30 AM Invited Talk 3: An Innovative Method to Ground a Moving Cart (Trolley)

*KP Yan, Infineon Technologies*

11:30 AM - 12:00 PM Invited Talk 4: Probabilistic Analytical Benchmarking for ESD

*Marcus Koh, Everfeed Technology*

12:00 PM - 1:30 PM Lunch Break & Networking Session

1:30 PM - 2:30 PM Grounding

*John Kinnear, IBM*

2:30 PM - 3:00 PM Invited Talk 5: Manufacturing Changes Measurement and Air Ionization Technologies

*Arnold Steinman, Electronics Workshop and Dangelmayer Associates*

3:00 PM - 3:30 PM Tea Break & Networking Session

3:30 PM - 4:15 PM Ionization

*Joshua Yoo, Core Insight*

4:15 PM - 5:30 PM Workshop and Q&A Session

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<input type="checkbox"/> <b>Tutorials</b> November 11-12, 2015 ESD Basics, ANSI/ESD S20.20 - Process Design Overview, Process Assessment	<b>\$ 950 USD</b>
<input type="checkbox"/> <b>Symposium Only</b> November 13, 2015 One full day of Invited Talks and Workshops	<b>\$ 400 USD</b>
<input type="checkbox"/> <b>Symposium Bundle</b> November 11-13, 2015 Symposium plus two-day ESD Tutorials	<b>\$1,100 USD</b>

This programme is eligible for HRDF claims under the Skim Bantuan Latihan (SBL) Scheme, subject to prior application to HRDF by the employers/companies.

**Payment** • Company purchase orders not accepted.

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## Other forms of payment Contact:

Mr. Yohan GOH, Phone: +65 9221 1456

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HOTEL JEN PENANG ROOM RESERVATION FORM		
Deluxe Single/ Twin at RM 271.18 nett per room per night With breakfasts	Single/ Double	Twin
Remarks:		
Airport Transfers can be arranged at RM 84.80nett per car per way (Toyota Innova). 50% surcharge for all airport transfer from 0000 hours to 0700 hours  **Remark: Rate quoted is inclusive of 6% GST		
Arrival Flight Details:	Departure Flight Details:	
Does airport Transfer required?	Yes:	No:
Smoking / Non-Smoking:	King / Twin Bed:	
<ul style="list-style-type: none"><li>• The above room rates is inclusive of 10% service charge and 6% goods &amp; services tax and RM 3.00 nett local council fee.</li><li>• Complimentary in-room wired and Wifi access</li></ul>		
GUEST DETAILS		
Guest Full Name:		
Arrival Date:	Departure Date:	
Telephone No:	Email:	
PAYMENT DETAILS		
Credit Card Type, Number & Expiry Date:		
<b><u>Cancellation Policy:</u></b> Please note that there will be one (01) night room charge for any cancellation make less than two (02) days prior to the arrival date. The same will apply for no shows of guaranteed guestroom(s) on the day of arrival.		