

# EOS/ESD Association, Inc. Tutorials in Suzhou

**August 12-13, 2020**

**Canmax, 99 Shuangma Street, Suzhou Industrial Park  
Jiangsu, Suzhou, China**

## Real-world Applications

**AUGUST 12, 2020 9:00 AM - 12:30 PM**

*Bernard Chin, Qorvo; John T. Kinnear, IBM Corporation*

- Device, system level and TLP testing - What related knowledge should an ESD control professional be equipped with? How should they collaborate with device design and FA engineers?
- ESD grounding systems - What standards are relevant? What do these standards call for actually and how should they be implemented?
- Definitions of process essential insulators and isolated conductors in S20.20 and how these should be managed
- AHE related ESD controls - Common industry practices and how they are applied to a couple of common automated handlers (AHE)

Each topic provides case studies, and practical examples as a focus. Demos with instruments will be provided. Attendees are encouraged to share their experience, and challenges.

## ESD Standards

**AUGUST 12, 2020 1:30 PM - 5:00 PM**

*John T. Kinnear, IBM Corporation; Bernard Chin, Qorvo*

This Standards tutorial provides an overview of ESDA Standards, grouped into common test types, based on measurement probe and test instruments. Key testing procedures of S20.20 are covered. Attendees will be invited to share their experience and challenges at the end of Day 1, followed by Q&A.

## ANSI/ESD S20.20 – ESD Program Assessment for Internal Auditors and Supplier Quality Engineers

**AUGUST 13, 2020 9:00 AM - 5:00 PM**

*John T. Kinnear, IBM Corporation;*

This course will use the checklist used by ESDA certified auditors as the basis for the class. However, this class will delve into the meaning behind each of the audit checklist questions in greater detail than is currently found in either the ESD Association registrar certification training or the ANSI/ESD S20.20 ESD program design seminar. After taking this class the student will be able assess a process and determine whether or not it meets the requirements of ANSI/ESD S20.20-2014.

**Setting the Global Standards for Static Control!**

EOS/ESD Association, Inc. 7900 Turin Rd., Bldg. 3 Rome, NY 13440-2069, USA

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## About the Instructors:



Bernard is the Corporate ESD Program Manager for Qorvo in Asia. Prior to joining Qorvo, he was the Corporate ESD Program Manager at United Test and Assembly Center (UTAC) and was also responsible for the ESD control program at the Integrated Circuits Business Division of Hewlett-Packard Singapore. Bernard has more than 28 years of experience in the area of ESD control management. In his role as Corporate ESD Program Manager, Bernard is responsible for the ESD control program for Qorvo and actively leads manufacturing and test factories (both internal factories and OSATs) to obtain compliance to ANSI/ESD S20.20 facility certification requirements. He actively presents technical papers at various EOS/ESD symposiums organized by the ESD Association and serves as a Technical Program Committee (TPC) member for the EOS/ESD Symposium and ESD Association Manufacturing Symposium. Besides being active in the area of ESD control, Bernard has also contributed technical papers in the area of failure analysis. He has published papers in IEEE sponsored symposiums, ASM International sponsored symposiums, the Semiconductor International journal and the HP Journal. Bernard has also held various committee appointments in the IEEE Rel/EDS/CPMT (Singapore chapter), and in the steering committee and Technical Program Committee of the IEEE sponsored symposium for integrated circuit failure analysis, IPFA. Bernard graduated from the State University of New York at Buffalo with a BS in Electrical Engineering (Distinction and Honors). He is an ESD Association Certified Professional ESD Program Manager, a TR53 certified professional ESD Technician and an iNARTE certified ESD Engineer.



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 IBM ESD site coordinator for the Poughkeepsie site since 1989. He is past chairman of the IBM inter-divisional technical liaison committee for ESD protection and is an important member of his company's committee to develop and implement the ESD corporate program for IBM. John has coordinated the testing of large mainframes for compliance to EMC, safety, environmental, shipping, and volatile organic emission standards. He has also been the lead engineer on testing large mainframe systems to EMC emissions and immunity standards for FCC, CE Mark, VCCI, and other national requirements. As a member of the ESD Association since 1990, John has served in several standards development committees as well as association management positions. 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). In this position he assisted in the evolution of international ESD standards and supports international adoption of ANSI/ESD S20.20.

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First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Company Name: \_\_\_\_\_

Street: \_\_\_\_\_ City: \_\_\_\_\_

State/Province: \_\_\_\_\_ Country \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Address is (please circle the one that applies) Home or Company

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

## Tutorial Selection

August 12 Real-World Applications (1/2 day) and ESD Standards (1/2 day) \$450 USD

August 13 ANSI/ESD S20.20 – ESD Program Assessment for Internal Auditors and Supplier Quality Engineers \$450 USD

**Register Online at:** <http://www.cvent.com/d/nnqxhn>

Visa®, Mastercard®, American Express® and Discover® are accepted.

To make other payment arrangements if unable to pay by credit card, please contact:

**Chinese:** 金鑫+86 (512) 6285 2096

jinxin@canmax.com.cn

**English:** Joanna Huang

+86 (512) 6285 2258

joanna@canmax.com.cn

**To pay with Alipay  
contact:**

ESD Association, Inc.

info@esda.org

## Hotel Accommodations

Double Tree by Hilton CNY 800/ night (The cooperate account we have in Doubletree is 113120308, please use it for room reservation.)

Genway International CNY 500/ night

Atour Hotel (Qingjian Lake) CNY 380/night

Above rates include service charge, tax, and breakfast

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