



Common Ground

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President's Message

by Steve Block

Education, training, sharing, and networking are key benefits of membership in the ESD Association. If you are working on fully embracing and implementing S20.20 for your company, then joining both the National ESD Association (ESDA) and the local North Central Chapter was a great investment for you and your company. Please encourage others in your company to join as well.

Several important web links to some training and educational specific opportunities are as follows:

http://www.esda.org/documents/CBTFlyer_regSymposium_000.pdf

http://www.esda.org/documents/CBTFlyer2_000.pdf

http://esda.org/documents/NCPMSeminarflyer5_08.pdf

<http://www.esda.org/documents/2008EducationSchedule.pdf>

In 2008, I want to encourage and challenge all of our members to go out of their way to meet and discuss their ESD programs with someone new at each and every meeting. Please invite other co-workers to attend and then collectively share your ESD program experiences and find that "common ground" we all have in implementing and sustaining good ESD Programs. Just finding one good idea from another person's ESD program could make your program easier and significantly better. Doing this at every meeting will bring great benefits to all and help each other to implement and sustain the best possible ESD programs, with the least risk of ESD losses.

President's Message (cont)

This year we will again have our Four (4) Chapter Meetings and One (1) ESD Program Training event. The key dates to put on your calendar at this time are: May 21 – 22, June 16, September 15, and December 8. Details of the meetings can be found on the chapter website at:

<http://www.esdnorthcentral.org/nextmeeting.html>

We just had our March 10 Chapter meeting barely 10 days ago. If you missed it, we had an excellent meeting at the Ramada by Mall of America. Great food, great speaker, great attendance, and great networking and conversation. Our speaker was Roger Peirce who started his illustrious career at Bell Labs and then later spent nearly 20 years doing “risk analysis audits” and “ESD loss” trouble shooting and solutions consulting. During these 20 years he visited nearly 2000 sites in the US and Asia. Roger shared pictures from about 70 real world examples of semiconductor and PCB assembly applications. He discussed the associated yield losses and appropriate solutions without crossing the NDA line of course. If you want to contact Roger, please let one of our officers know and we will put you in touch with him.

Our S20.20 Program Training Session on May 21-22 will be at the Ramada Mall of America. You can save \$200 by registering before April 16th. Space is limited, so register soon. Course details and registration forms are on the National website, linked above.

I need to say thanks to all the volunteers that make this organization run so smoothly. It is a real pleasure to work with so many dedicated and professional people that are focused on bringing great speakers and more knowledge to our chapter members. Special thanks to Tim Jarrett of Boston Scientific for all the work he does to get speakers and put together a fine technical program for us all. Finally, thanks to all of you members that participate and come to the meetings that make this an energetic and thriving chapter. I look forward to the year ahead!

2008 Chapter Meeting Schedule

Tim Jarrett – Program Chairperson

March 10th

- The Chapter's annual Membership Dinner Meeting was held at the Ramada Mall of America, Bloomington, MN
- Technical presentation: Roger Peirce of Simco, "ESD Damage in the Semiconductor and Electronics Manufacturing Industries"

May 21st & 22nd

Program Manager Course - Ramada Mall of America, Bloomington, MN

- Seminar: S20.20 Program Development and Assessment with instructors: Ron Gibson of Celestica and John Kinnear of IBM

June 16th

- Meeting Site: TBD
- Technical presentation: TBD

September 15th

- Meeting Site: TBD
- Technical presentation: TBD

December 8th

- Meeting Site: TBD
- Technical presentation: TBD

Additional meeting details will follow via e-mail announcements. If you are not on the chapter's list, please contact Tim Jarrett [tim.jarrett@bsci.com]

We also strongly encourage all chapter members to consider hosting a future meeting. In addition, if you have a static related control topic you'd like the local board to cover during a future meeting, please contact Tim or any of the Chapter Board members.

Membership

by Bernie Reiland

After the membership meeting I reviewed our membership numbers and we were two short of what I reported. We have 50 at this time; still have 19 from 2007 that I have not heard from yet.

We will keep the credit card system open till March 31 and then close it. We had 24 members use the credit card system this year. Thanks to all the members for their continued interest in the chapter.

We welcome new members:

Jeff Mucha.....EI Microcircuits
Soren Wagar.....EI Microcircuits
Ralf Hermann.....Boston Scientific
Curt Anderson.....Production Automation
Tim Waker.....Rudolph Technologies
Steven Frankerberger.....Rudolph Technologies

We will continue to take memberships with cash or check. Hope to hear from past members.

Last minute update from the Membership Chairperson: 3/27/2008 - We just got 8 more signees today with 7 of them coming in from Rosemount Aerospace.

Secretary's Report

December 3, 2007 Meeting

by Kevin Duncan

December 3, 2007: At 4:45 PM, Tom Lee, Chapter President welcomed the 22 members in attendance to the Boston Scientific facility in Arden Hills, MN. Tom also thanked Boston Scientific for hosting the meeting.

Tom gave tentative dates for the 2008 Chapter meetings to be held, March 10th, June 9th, September 15th and December 8th. The March meeting will be the Annual ESD Chapter Dinner Meeting and under consideration for the December meeting was the popular vendor presentations.

The North Central ESD tutorials will be held May 21st and 22nd, 2008. Our Chapter will be hosting the ANSI/ESD S20.20 Seminar with instructors Ron Gibson and John Kinnear. The location has yet to be determined.

Tom also conveyed that the Chapter Board was considering Device Design courses to run in parallel with the S20.20 Seminar, but the timing and course availability was not favorable for 2008. The courses would be reconsidered for the Chapter Tutorials to be held in 2009.

The Electrostatics Society of America (ESA) will be hosting its 2008 Annual Meeting June 17-19, 2008. The venue will be the Ramada Mall of America.

Tom called the business part of the meeting to order and asked for the following Officer Reports:

Secretary's Report: Kevin Duncan, Chapter Secretary reported the meeting minutes from the September 10th Chapter meeting held at the Wildfire Grill in Eden Prairie, MN. The Chapter celebrated its 20th Anniversary, the guest speakers were Merle Weight, who gave a presentation on the formation and history of the NC ESD Chapter and David Swenson, Sr. Vice President of the ESD Association presented on the current ESDA activities and congratulated the NC ESD Chapter for its involvement in the ESDA for the past 20 years.

Treasurer's Report: Jack Chandler, Chapter Treasurer reported that the chapter was in good financial shape and provided the figures for our checking and our money market account.

Membership Chair's Report: Tom Lee reported for Bernie Reiland, Membership Chairperson. Tom reported that the current Chapter membership total was 62. Tom reminded the Chapter that membership runs from January 1st through December 31st. Membership dues are \$35/year and the Chapter will be able to accept credit cards for payment of membership dues, starting in February 1st continuing through the end of March.

National Delegate's Report: Dale Parkin, National Delegate, reported that the 29th annual EOS/ESD Symposium held at the Disneyland Hotel in

Anaheim, CA was a huge success. Dale reported that the ESD Association Board of Directors December meeting was being held this weekend in Rome, NY.

The 2008 EOS/ESD Symposium will be held September 7th – 11th, 2008 at the Westin La Paloma Resort & Spa in Tucson, AZ. Standards meetings will be held February 21st-26th, 2008 also at the Westin La Paloma Resort & Spa with the June meetings series location yet to be determined.

Program Chair's Report: Tim Jarrett, Program Chairperson, reported that we are looking for a March Dinner meeting location and also in need of a topic for our presentation. We are currently looking for topics consistent with the question and answer form that was sent out. We are in need of individuals to host Chapter meetings, if you are interested please contact Tim.

Website Coordinator's Report: Tom Lee, Newsletter Editor/ Website Coordinator, reported that the website had ran out of space and the Board decided to move to a bigger server. The change has been made and is up and running.

President's Message and Awards: Tom Lee, Chapter President, thanked the Chapter Members for the opportunity to be the Chapter President for the year 2007. Tom also expressed his gratitude for the help he had received from the all of the board members.

Tom then presented Merle Weight and Tony Adrian with North Central Chapter, Lifetime Membership Awards, for founding and being inspired leaders of the North Central Chapter of the ESD Association. This award entitles Merle and Tony with free Chapter membership for life.

Tom then asked for Chapter Board of Director nominations.

Tim Jarrett nominated Kevin Duncan for the position of Chapter Vice President, a one-year term. The nomination was seconded by Steve Block, voted on and unanimously approved.

Kevin Duncan nominated Kevin Leonard for the position of Chapter Secretary, a two-year term. The

nomination was seconded by Craig Zander, voted on and unanimously approved

Moving from Chapter Vice President to the position of President for the 2007 calendar year will be Steve Block of Production Automation (PAC).

At 5:05 PM, a light dinner was served.

At 5:30 PM, Tim Jarrett introduced our guest speaker Charvaka Duvvury. Charvaka is a Texas Instruments Fellow since 1997, working in the Silicon Technology Development Group. His current work is on development and company wide support on ESD for the nanometer submicron CMOS technologies. He received a Ph.D. in Engineering Science from the University of Toledo. He has published over 120 papers in technical journals and conferences and holds more than 60 patents. He has co-authored books on modeling of electrical overstress, and ESD design. Charvaka has been very active in the EOS/ESD Symposium where he was the Technical Program Chairman of the 1992 Symposium and was the General Chairman both in 1994 and in 2005. Charvaka jointly initiated the Industry Council on ESD Target Levels, and now co-chairs this Council in establishing safe but realistic component ESD target levels. Through invited conference speeches and seminars he has brought the Council to a wider membership that includes major Japanese corporations. Charvaka is a Director on the ESD Association Board since 1997. He is also a Fellow of the IEEE.

Charvaka gave a Technical Presentation, entitled, "Recommendations on ESD Component Level from the Industry Council on ESD Target Levels".

For more than 20 years, IC component level ESD requirements for both Human Body Model (HBM) and Machine Model (MM) have essentially stayed constant, while the silicon technologies rapidly advanced and effective production control methods have vastly improved. The silicon area impact, along with the performance impact, make ESD design to the current levels a constraint leading to permanent delays in the product innovative cycles. Today's enhanced control methods do not justify this ESD over-design. The presentation proposed a paradigm shift to more realistic but safe ESD target levels

based on data collected from IC suppliers and control manufacturers. This action is also aligned with the ESD Association Roadmap and is a first step for all future ESD considerations.

At 6:55 PM, Tim Jarrett presented Charvaka with a gift from the Chapter, a Minnesota Loon.

At 7:00 PM, a motion was made to adjourn the meeting.

Secretary's Report

March 10, 2008 Meeting

by Kevin Leonard

The meeting was held at the Ramada Inn located in Bloomington on March 10, 2008.

5:00 PM - Dinner was served after sign in and dues were collected for 2008 membership.

6:00 PM - New President Steve Block called the meeting to order and opened with an introduction of the newly appointed officers.

- President: Steve Block
- Vice President: Kevin Duncan
- National Delegate: Dale Parkin
- Secretary: Kevin Leonard
- Treasure: Jack Chandler
- Membership Chair: Bernie Reiland
- Website: Tom Lee
- Program Chair: Tim Jarrett

Steve Block then asked for the following officers reports:

Secretary's Report Kevin Leonard summarized the meeting minutes from the December meeting, which was held at the St Paul Boston Scientific location. The guest speaker was Charvaka Duvvury from Texas Instruments. His presentation was entitled "Recommendations on ESD Component Level From the Industry Council on ESD Target Levels". Nominations for new board positions for president, vice president and secretary were given, second, and voted on.

Past President Tom Lee thanked the chapter membership for the opportunity to serve as President and then presented Tony Adrian and Merle Weight with a North Central Chapter Lifetime Membership Award.

Treasurer's Report Jack Chandler gave the figures for checking and savings along with interest gained in 2007 through savvy investments by the previous board.

Membership Chair's Report Bernie Reiland reported current membership total at 52.

National Delegate's Report Dale Parkin reported that the standards meeting would be held at the Westin La Paloma Resort & Spa in Tucson, AZ in June. This is the same location that the 30th annual ESD/EOS Symposium will be held September 7th -11th 2008.

Program Chair's Report Tim Jarrett reported that the tutorial would be held in May at the Ramada Inn Bloomington. This two-day tutorial will be taught by Ron Gibson and John Kinnear. Kevin Duncan and Ron Gibson explained course offered and the fee of \$1495.00 per person. Tim discussed the possibility of having the sales presentation again at a future meeting. The chapter is looking for a location to host the June 2008 chapter meeting.

Web Site Coordinator's Report Tom Lee reported that everything is going well since the new server introduction.

Craig Zander also added that Threshold newsletter is published on the ESD website.

Steve Blocked then thanked Tom Lee for his past service as president and presented Tom with a gift card from the chapter.

6:30 PM Steve Block moved to adjourn the business meeting portion and Kevin Duncan second the motion.

Tim Jarrett introduced our guest speaker Roger Pierce from Simco Incorporated. Roger's presentation was titled "ESD damage in the

Electronics and Semiconductor Industries". This paper was a slide presentation highlighting potential failure occurrences from cradle to grave of the semiconductor. There were 52 slides pointing out areas Human Body Model and Machine Model charge damage may occur. Many of the slides presented spurred conversation and questions pertaining to individual requirements.

Tim Jarrett then presented Roger with a gift from the chapter.

7:25 PM Steve Block concluded the meeting.