Welcome to a new year with the North Central Chapter of the ESD Association. This year should prove to be very exciting. We are barely underway and already we have had a great meeting. Our Annual Membership Dinner and Chapter Meeting was held on March 9th at the Holiday Inn Select Hotel and Suites in Bloomington. Our guest speaker was John Kinnear of IBM, Poughkeepsie. John’s technical presentation provided a detailed look into a 2008 Factory and Materials Symposium Paper, “Process Capability and Transitional Analysis” (co written by Stephen Halperin and Ron Gibson).

We have an excellent opportunity for our members this year as our national organization will be holding it’s Summer Standards meeting series at the Minneapolis Hilton starting on May 7th and running through May 12th. If you have ever wondered how a standard becomes a standard, this meeting series is for you. No matter what your area of expertise or interest; be it ionization, device testing, handlers, handtools, compliance verification, workstations, packaging, garments, grounding, flooring, gloves or general interest, this is the place to be. All are welcome to attend the working group and Standards meetings. I promise, you won’t be disappointed. This is a great opportunity to network with your peers and find out what is new and exciting in the world of ESD.

We are pleased to announce a 30% discount for all 2008 NC Chapter members for upcoming tutorials to be held during the May meeting.
series. The four tutorials will be, *ESD Basics for the Program Manager, How To's of In-Plant ESD Auditing and Evaluation Measurement, System Level ESD/EMI: Testing to IEC and Other Standards and Device Technology and FA Overview*. If you are thinking of pursuing an ESD Certified Program Manager certification or already on your way, you won’t want to miss this opportunity.

Finally, I would like to thank you the NC Chapter Members for the opportunity to serve you as your President for 2009. Because of you we have one of the strongest Local ESD Chapters. I would also like to thank the volunteers who have spent countless hours to ensure our meetings are enormously successful. We couldn’t do it with out you. I look forward to the meetings and activities we have scheduled this year. Hope to see you there.

**2009 Chapter Meeting & Event Schedule**

*Tim Jarrett – Program Chairperson*

May 6th – Tutorial - ESD Basics for the Program Manager  
Presenter: Steve Halperin  
Location: Hilton Minneapolis  
8:30 AM - 4:30 PM

May 6th – Tutorial - System Level ESD/EMI: Testing to IEC and Other Standards  
Presenter: Mike Hopkins  
Location: Hilton Minneapolis  
8:30 AM - Noon

May 6th – Tutorial - Device Technology and FA Overview  
Presenter: Leo G Henry  
Location: Hilton Minneapolis  
1:00 PM - 4:30 PM

May 7th – Tutorial - How To's of In-Plant ESD Auditing and Evaluation Measurement  
Presenter: Steve Halperin  
Location: Hilton Minneapolis  
8:30 AM - 4:30 PM

June 8th - Chapter Meeting  
Host Site: Daktronics, Redwood Falls, MN  
Technical Topic: Factory Tour

September 21st - Chapter Meeting  
Host Site: TBD  
Technical Topic: TBD

December 7th - Chapter Meeting  
Host Site: TBD  
Technical Topic: 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 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*

We finished 2008 with 64 members, 41 Users, 23 Vendors. The membership is holding steady around that number. We are off to a good start for 2009 with 47 paid at this time. The Credit Card transactions were open in February and March. The cost of membership remains the same: $35.00 for one to four members and $30 per person over four from the same company. If anyone is interested in joining, contact Bernie at bjureiland@aol.com. Benefits are meetings with ESD experts and networking with people interested in ESD.
Secretary’s Report

March 9, 2009 - Annual Dinner Meeting

by Kevin Leonard

The meeting was held at the Holiday Inn Select Bloomington on March 9th 2009.

4:00 PM   Sign in and social time.

5:05 PM   President Kevin Duncan called the meeting to order requesting the reports from the officers.

Secretary’s Report   Kevin Leonard summarized the minutes from the December meeting which was held at Seagate in Shakopee. The Chapter held the annual Supplier Sales Presentation meeting. The following participants presented.
1. Ionization - Mike Riley
2. Personal Grounding – Don Reynolds
3. Footwear and Flooring – Chris Meachum
4. Packaging Materials – Vanessa Mirable
5. Instrumentation and Testers – Craig Zanders

Treasurer’s Report   Craig Zander gave the balance figures from the money market account and checking account.

Membership Chair’s Report   Bernie Reiland reported 2008 membership was 64 members and the 2009 membership is at 21 to date.

National Delegate Report   Dale Parkin reported on the February standards meeting that were held in Anaheim, CA. The summer standards meeting will be held in Minneapolis this May 7th through the 12th at the Minneapolis Hilton. The 2009 EOS/ESD Symposium will be held August 30th through September 4th at the Disneyland Hotel in Anaheim, CA.

Program Chair Report   Tim Jarrett reported that the June meeting will be hosted by Daktronics in Redwood Falls, MN. Tim elaborated on the upcoming tutorial May 6th and May 7th. Fred Tenzer was called out of the audience to give an overview of what goes on during a standards meeting.

Website Editor   Tom Lee reviewed the web site address content. www.esdnorthcentral.org

5:45 PM   Kevin Duncan presented Steve Block with gift card for serving as the past president.

5:50 PM   A drawing was held as a door prize for a free day at the upcoming Tutorial in May. John Kinnear pulled Merle Weight’s name.

5:55 PM   Kevin Duncan called the secretary for a recap of the business meeting notes. Once the meeting notes were given the business meeting was official adjourned.

6:00 PM   Dinner was served.

6:45 PM   John Kinnear of IBM Poughkeepsie, NY presented his paper titled “Process Capability and Transitional Analysis”

The paper focused on answering the key question if your process is capable of protecting in relation to the ESDS. The sensitivity trend through 2010 is 100 volt for HBM, 50 volt for CDM, and 10 for MM. With these voltage sensitivities lowering it is imperative to know what your process is capable of protecting too. The three main steps to accomplish this are as follows:

1. Define the critical path and transition point from receiving to shipping.
2. Perform the transitional analysis measurements. Compare the findings to the electrostatic voltages of ESDS devices and conductors that come in contact along the way.
3. Summarize the process analysis to implement fixes.

John’s paper is available on the Prostat website.

7:55 PM   Kevin Duncan concluded the meeting.
2008 Chapter Members

Tony Adrian – Honorary Chapter Member
Brad Ahlm - Conductive Containers, Inc
Curt Anderson - Production Automation
John Auger - Celestica
Jeff Benke - Production Automation
Steve Block - Production Automation
Steve Braun - Central Container
Marshall Canaday - Production Automation
Jack Chandler - Boston Scientific
John Croes - Goodrich Sensor Systems
Tom Culbertson - Goodrich Sensor Systems
Jeff Dorsch - Datakey Electronics, Inc.
Kevin Duncan - Seagate Technology
Gerald Feigal - TSI, Inc.
Brad Fern - Logic EMS
Ken Flygare - Boston Scientific
Steven Frankeberger - Rudolph Technologies
Mike Gressman - Goodrich Sensor Systems
Ralf Hermann - Boston Scientific
Chris Hessler
John Hofmeister - Goodrich Aerospace
John Japs - Tonka Electronics, Inc.
Tim Jarrett - Guidant Corporation
Steve Johnson - Goodrich Sensor Systems
Joane Kerkow - Goodrich Sensor Systems
Tom Lee – Verify, Inc.
Kevin Leonard - Central Container
Jerry Lindholm - Electri-Rep of MN, Inc.
Doug Loberg - Benchside Technologies
Tim Machacek - Conductive Containers, Inc
Jay Martin - Production Automation
Jim McLinn - Teradyne
Kris Meacham - JW Sales Inc.
Bob Melander - Detector Electronics
Scott Meyer - Goodrich Sensor Systems
Vanessa Mirabile - Lubrizol
Jeff Mucha - EI Microcircuits
Brian Nelson - Micro Control Company
Eric Newton - Honeywell
Carl Olson
Gordan Olson - Digi International
Dale Parkin - Seagate Technology
Lisa Pimpinella - ESD Association
Maurice Ranasinjhe – Guidant (Retired)
Bernie Reiland - Transoma Medical
Don Reynolds - 3M

Mike Riley - Midwest Production Supply
Larry Roberts - Daktronics
Susan Savage - John Hopkins Applied Physics Lab
John Schneider - General Dynamics
Scott Schreck - EIS, Inc.
Penny Schroeder - TEK Products
Carroll Slaughter - Celestica
Chris Strand - Unisys
Erik Stromberg - E-TRONIX
Sally Tavernier - Boston Scientific
Greg Trettel - Goodrich Aerospace
Loren Voigt - Medical Graphics Corp
Doren Wagar - EI Microcircuits
Tim Walker - Rudolph Technologies
Tom Watkins - Transforming Tech, LLC
Merle Weight – Unisys (Retired) Honorary Chapter Member
Ed Wetterstrom - Rosemount Inc
Craig Zander - Prostat Corp
Roger Zimmerman - Conductive Containers, Inc

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