1999
Craig Zander – President
March
• Dinner meeting at Exceptional Banquet Center
• Ron Gibson presented “ESD Controls in the Contract Manufacturing Environment”

June
• Itron in Waseca
• Merle Weight presented “Determining Factory Failure Levels due to ESD and the Justification of an ESD Protection Program”

September
• Lockheed Martin in Eagan
• Lary Haupt spoke about their ESD Training they have on their internal WEB page.
• Dale Parkin presented on, “Flooring / Footwear and ESD Standards”

December
• Honeywell, Inc. in Plymouth
• Greg Gregory presented “Focus on Learning: A Roadmap for the Design and Development of Effective Training Programs”

1998
Keith Resvick – President
March
• Dinner meeting at Maxa’s in Chaska
• ESD Panel discussion

June
• Manufacturing Services
• Roger Pierce spoke to members on variety of ESD related topics including ROI and an overview of various case studies he has been involved in.

September
• IBM
• Chapter members presented on 4 ESD Association Standards

December
• Control Data Systems
• Dr. Terry Welsher presented “ESD in the 21st Century”
1997
Steve Painter – President

March
- Dinner Meeting at Maxa’s
- Steve Fowler presented on ESD flooring

June
- CPI/Guidant
- Al Breidegam presented on “ESD Grounding Networks and Constant Grounding”

September
- Red Wing Shoe Co.
- Red Wing Shoe Personnel presented on ESD Shoes

December
- MTS Systems Corporation
- Presentation by Kevin Wilds of MTS Systems

1996
Curt Erickson – President

March
- Dinner Meeting at Hennepin Technical College
- Presentation on “Left Brain Right Brain”

June
- BF Goodrich / Rosemount Aerospace
- Curt Erickson gave a presentation that described and demonstrated the ESD control training, certification and recertification program conducted at Rosemount Aero.

September
- Tricord Systems
- Carl Olson presented Tricord Systems ESD control program.

December
- Aetrium, Inc.
• Darrin Dickerson presented “ESD Control for Semiconductor Handling Equipment”

1995
Craig Zander - President
March
• Dinner Meeting at Hennepin Technical College
• Wayne Tan presented “ESD hazards and control methods associated with automatic handling equipment in semiconductor manufacturing environments”

June
• Riverside Electronics in Lewiston
• Plant Tour
• Review ESD Training Video

September
• Computing Devices International in Bloomington
• Steve Vanetta presented “Implementing ESD Controls in a small to medium size company.”
• Factory tour of the circuit assembly and bare board manufacturing.

December
• Cardiac Pacemaker/Guidant Corporation
• Joel Weidendorf presented “Tribocharging of Personnel as Influenced by Relative Humidity”

1994
Dale Parkin – President
March
• Dinner Meeting at Hennepin Technical College
• Ron Gibson presented “Packaging Fundamentals for ESD Sensitive Products”

June
• IBM
• Dr. Don Pierce spoke to the chapter about the subject or the local chapters with the National organization as well as other open topics

September
• Cray Research
• Terry Jacobson gave 3 presentations:
1. “3AQ Option Fallout”
2. “EPROM Failures” and
3. “I/O Cable/System Failures due to ESD”

**December**
- Unisys
- Chris Strand presented, “Is it ESD, EOS or Other”

**1993**

**Jack Chandler – President**

**March**
- Dinner Meeting at Hennepin County Technical College
- Ginger Hansel presented “ESD Control Programs and the Associations Educational Focus”
- Frank DuRocher, an Electronic Instructor at HCTC, spoke of EOS/ESD training in their curriculum.

**June**
- Zytec in Redwood Falls
- Factory tour of Zytec, Jeanne Wepplo and Dennis Brletilch, of Zytec, gave a presentation on Surface Mount Technology and how it relates to EOS/ESD at Zytec and industry wide.

**August**
- Federal Cartridge
- Presentation on What Federal Cartridge Does, Their safety, the ESD concerns, production.
- A Tour of Federal Cartridge facilities

**December**
- Loeffler Safety Shoes
- Discussion on ESD Footwear and its importance

**1992**

**Joel Weidendorf – President**

**March**
- Industrial Custom Products LTD in Mounds View
- Dr. Brian Corry gave a presentation on Carbon filled materials
- Following the meeting, Dinner was at Mermaid Supper Club

**June**
- Red Wing Shoe Co. in Red Wing / St. James Hotel
- Ken Dille of Red Wing Shoes addressed members regarding footwear
August
  ● Lake Center Industries in Winona

December
  ● 3M Sales Center in Eagan
  ● Dave Swenson gave a presentation on the EOS/ESD Association Standards Activities

1991
Joel Weidendorf – President

March
  ● Dinner meeting at the BAKKEN Museum

June
  ● IBM
  ● Ionization Measurement Tutorial was presented

September
  ● Control Data, Grey Fox
  ● Tom Stechmann presented “Degraded Device Detection”
  ● Tim Jarrett presented “Evaluation of ESD Materials”

December
  ● Rosemount Inc. Aerospace
  ● Tour of their production line and addressed the static control measures used.

1990
Merle Weight – President

March
  ● Dinner Meeting at Tommy K’s
  ● Ronald Haugen of Zytec Corp. presented “Basic Elements of an ESD Control Program in a Manufacturing Environment”

June
  ● Cray Research
  ● Terry Jacobson and others presented “ESD Grounding of a Workstation”

September
• Zytec

October
• First Chapter Vendor Night

December
• Honeywell
• Steve Halperin presented

1989
Merle Weight – President
March
• 3M Sales Office - Dave Swenson gave a presentation on Material Testing

June
• Medtronic - Merle Weight & Joel Weidendorf spoke on Return on Investment

September
• Baxter Scientific Products in Plymouth - First Common Ground Newsletter

December
• Control Data in Arden Hills
• Tour, Jack Chandler gave update on the Grounding Standard.
• Craig Zander gave status report on the Midwest Expo.
• Joel Weidendorf spoke on the ESD Association standards and EIA 541 standard.

1988
Dave Roop – President
March
• Honeywell in St. Louis Park

September
• IBM - Presentation on - “A standard Test to Determine the Susceptibility of a Machine to ESD”

December
• Unisys in Roseville - Merle Weight spoke on Failure Analysis Defect Mechanisms from back to front. A Lab tour was provided as well.

1987
September
- First North Central Meeting, Holiday Inn Airport
- Merle Weight Presented “ESD - Causes and Control”
- 3M Sales office in Eagan