



THRESHOLD™

The ESD Association newsletter, published for everyone with an interest in the understanding and control of electrostatic discharge.

Volume 28, No. 1

January/February 2012

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*Best wishes for a happy and prosperous
New Year
from The ESD Association
Board of Directors and Staff.*



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The ESD Association Board of Directors held its annual planning meeting in December. The group discussed the strategic plans for 2012 and beyond. The Education Committee is working hard to develop new and exciting courses and advanced topics that will be of interest to a variety of industries. The Symposium Business Unit has been busy working on the 2012 program to provide attendees with new and interesting topics to learn about during the symposium week. The 2012 IEW plans are moving along nicely and the venue looks to be one of the best yet. The Corsendonk

Priory Hotel in Belgium is the perfect location for anyone who is interested in ESD Device Design Technology. The ESDA is also working on its first international Symposium in Asia and hopes to add it to the 2012 calendar of events. The ESDA activities and planning extends to online courses, certification programs, membership and volunteers, and just about every business unit. We are looking forward to a very busy year in our efforts to become known and serve industry.

From the President



President Leo G. Henry

Fellow members, this is probably one of the best opportunities I will ever have to say much thanks to all of you who voted for me over the years to be part of the ESDA Board of Directors. The goals of the ESDA Association are to become known and serve industry. Many of you may remember Ed Weggeland, one of our past presidents (2004-2005), who initiated these concepts; concepts we embrace and I hold very dear. As

your new president, I intend to use these concepts to maintain our focus and help our association grow.

The concept and reality of becoming known and serving industry has to move beyond nationwide and achieve a significant global presence. Bold and ambitious you say? Absolutely! We have discussed and planned over the last many months the “What to”, “How to”, and “When to” achieve these goals. We will implement in 2012, our just completed new ESDA Strategic Plan for 2012 and beyond. Our specific mission: Be the recognized global leader in serving industry in the control and mitigation of Electrical Overstress (EOS) and Electrostatic Discharge (ESD). We intend to focus on new and emerging markets, we intend to provide information and resources for solutions and most of all, recruit and retain volunteers to help us achieve these goals.

Our “become known globally” goal can be seen in the joint standards development efforts with JEDEC.

The first joint document ANSI/ESDA/ JEDEC JS-001-2011 on Human Body Model (HBM) was published in 2010. A second joint document on Charged Device Model (CDM) will publish in 2012. The Global goal can be seen in the fact that we work with the IEC to adopt some of our ESD standards to be used in the European community. This collaboration is a valuable achievement as is further evidenced by the number of questions we are receiving from users regarding the Joint HBM document. This joint document is drawing attention not only nationally but internationally; not only in Europe but in Asia, as well. This means that “becoming known” feeds into “serving industry”, the goal of the ESD Association and my focus as your new President in 2012.

BHappi and Stay ESD Focused,

A handwritten signature in black ink, appearing to read 'Leo G. Henry'. The signature is stylized and written over a white background.

Do you Know Who Did That?

During the course of 2011 the ESDA developed a set of six compliance posters for companies to use in Electrostatic Protected areas (EPA) and at ESD workstations. The posters caution employees of EPA areas, procedures and practices for testing and use of wriststraps

and footwear. The posters are available on the ESDA website for complimentary download or can be purchased as laminated full color posters from the Association.

One of our volunteers spent numerous hours assisting in the development and design of the post-

ers. We wish to recognize the valuable time and effort made by Dale Fuller in contributing to this project

Dale's dedication to the ESDA and extra effort as a volunteer have earned him special recognition by the Association.

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Association

Nominees for Board of Directors Election 2012

Each year, the Constitution and Bylaws of the ESD Association require the membership to elect four Members at Large to the Board of Directors (BoD). Members are elected to three-year terms.

Electing highly qualified professionals to bring new ideas and experiences to our team is a vital part of our Organization.

The results of the election for BoD members whose term begins January 1, 2013 will be announced in September 2012 at the annual meeting. Those elected will replace BoD members whose term expires on December 31, 2012.

The Association's Human Resources Committee is required to prepare a slate of candidates to fill the four BoD positions, which will be vacated on December 31, 2012. In order to be on the slate: 1) a potential candidate can be nominated by the Human Resources Committee, or 2) a member can submit a petition for a nominee which contains 25 identifiable current ESD Association member signatures along with their membership numbers. (Please contact the ESD Association office if petition signees do not have their membership numbers available. Petitions must be submitted with signature and membership numbers.)

Requirements

To qualify for nomination the following requirements must be met:

1. Must be an ESD Association member in good standing.
2. Must have full management support to attend four BoD meetings per year for three years, documented in a letter to the Association. Please note: For

all elected Board Members, good attendance at all BoD meetings is a requirement. Two absences in the same year may be considered cause for dismissal (see Bylaws section 3.2).

3. Must submit a statement of the nominee's vision for the ESD Association and a statement of the nominee's qualifications, not to exceed 100 words each.

4. Must submit a photograph suitable for publication.

5. The candidate must understand that elected BoD members will have a job responsibility, typically to manage one of the Business Unit Functions (Meeting Planning, Certification, Education, Academia Outreach, International, Marketing, Standards, Symposium, Industry Liaison, and Volunteer Recognition).

Call To Members

Members are asked to provide nominations by petition to that slate. Petitions (**no faxes!**) must be received no later than February 1, 2012 at Association Headquarters: ESD Association, 7900 Turin Road, Bldg. 3, Rome, NY 13440-2069. Accepted nominees will be notified as to the schedule for submitting the additional documentation required in items 2, 3, and 4 above.

Ballots

Ballots will be sent to the general membership by May 1st and must be returned postmarked no later than July 1st. The results of the election will be announced at the Annual Meeting during the 2012 EOS/ESD Symposium in Tucson, AZ.

Current Elected Board of Directors:	
Name	Term Expires
Robert Ashton	2013
Kevin Duncan	2014
Reinhold Gaertner	2013
Robert Gauthier	2013
Harald Gossner	2014
Leo G Henry	2013
Michael Khazhinsky	2014
Kathleen Muhonen	2012
Nathaniel Peachey	2012
Tim Prass	2012
Alan Righter	2014
Terry Welsher	2012

Visit ESDA on the Web

www.esda.org

Be sure to check the website for the latest information on educational opportunities including tutorials, seminars and online courses.

including updates for:

2012 EOS/ESD Symposium

2012 course schedules

2012 IEW Workshop

you can also find:

**Volunteer spotlights
past and present**

Past issues of Threshold

Publications

ACL STATICIDE

840 W. 49th Place, Chicago, IL 60609

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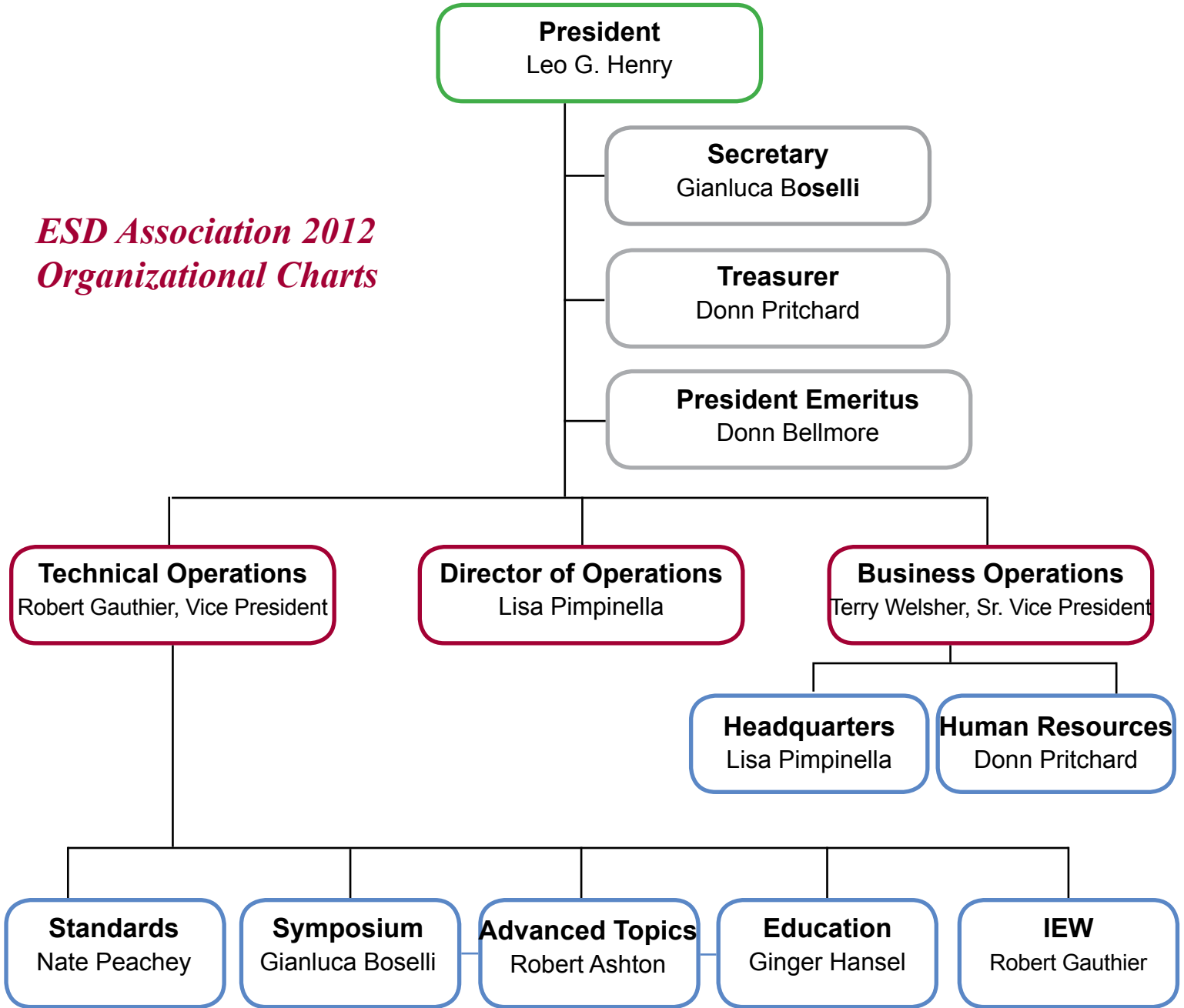
E-mail: electrostatics@monroe-electronics.com

www.monroe-electronics.com

Full line manufacturer of static measurement equipment

Association

***ESD Association 2012
Organizational Charts***



Continued on page 5

Molded Fiber Glass Tray Co.

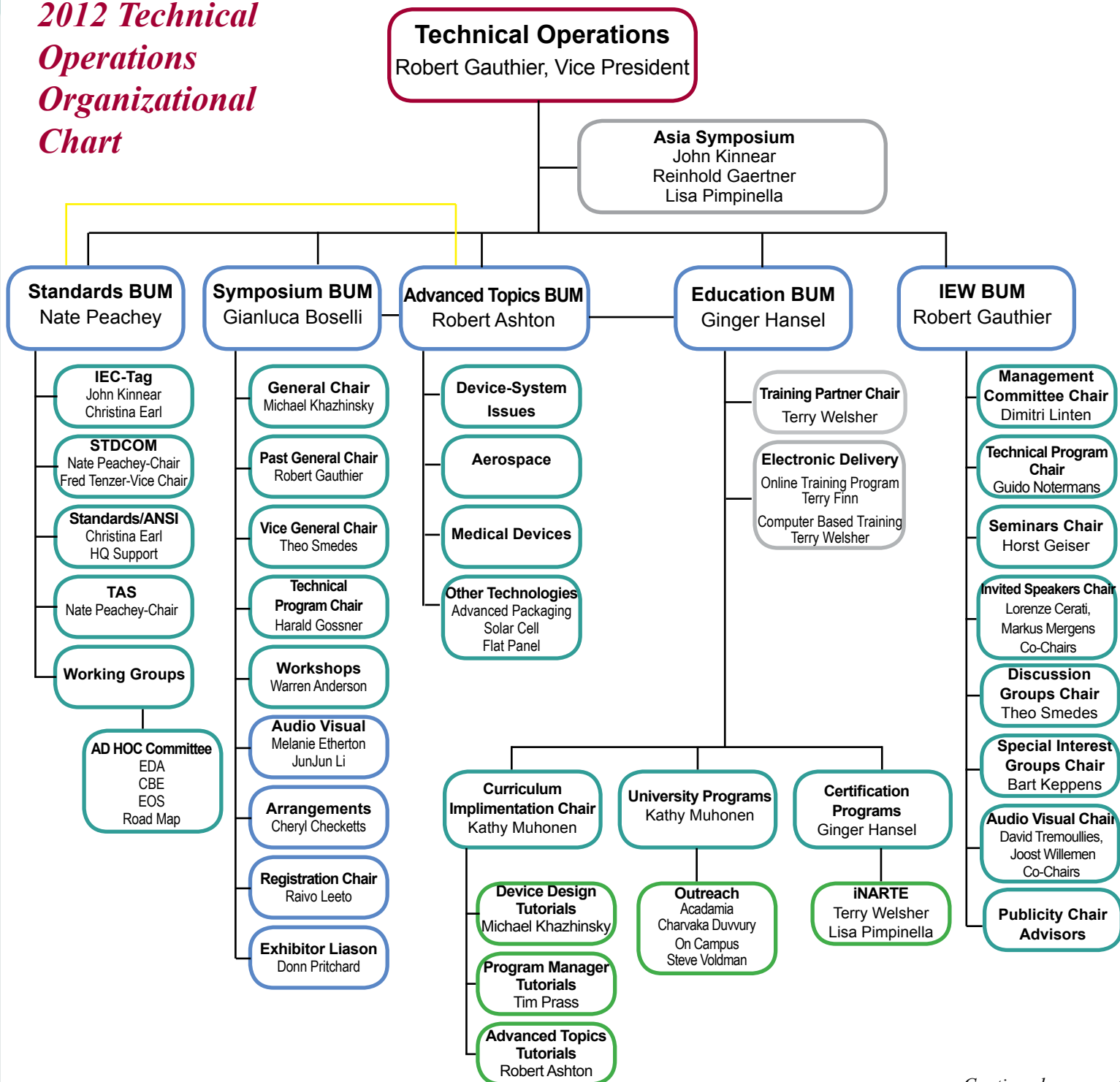
6175 US Highway 6, Linesville, PA 16424
Tel: 800-458-6050 Fax: 814-683-4504 E-mail: info@mfgtray.com
Manufacturer of static dissipative and conductive trays and containers for static protection of sensitive parts.

MicroStat Laboratories/River's Edge Technical Service

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ESD materials testing laboratory, ESD & contamination control auditing, consulting • S20.20 program development

Association

**ESD Association
2012 Technical
Operations
Organizational
Chart**



Continued on page 6

Tech Wear, Inc.

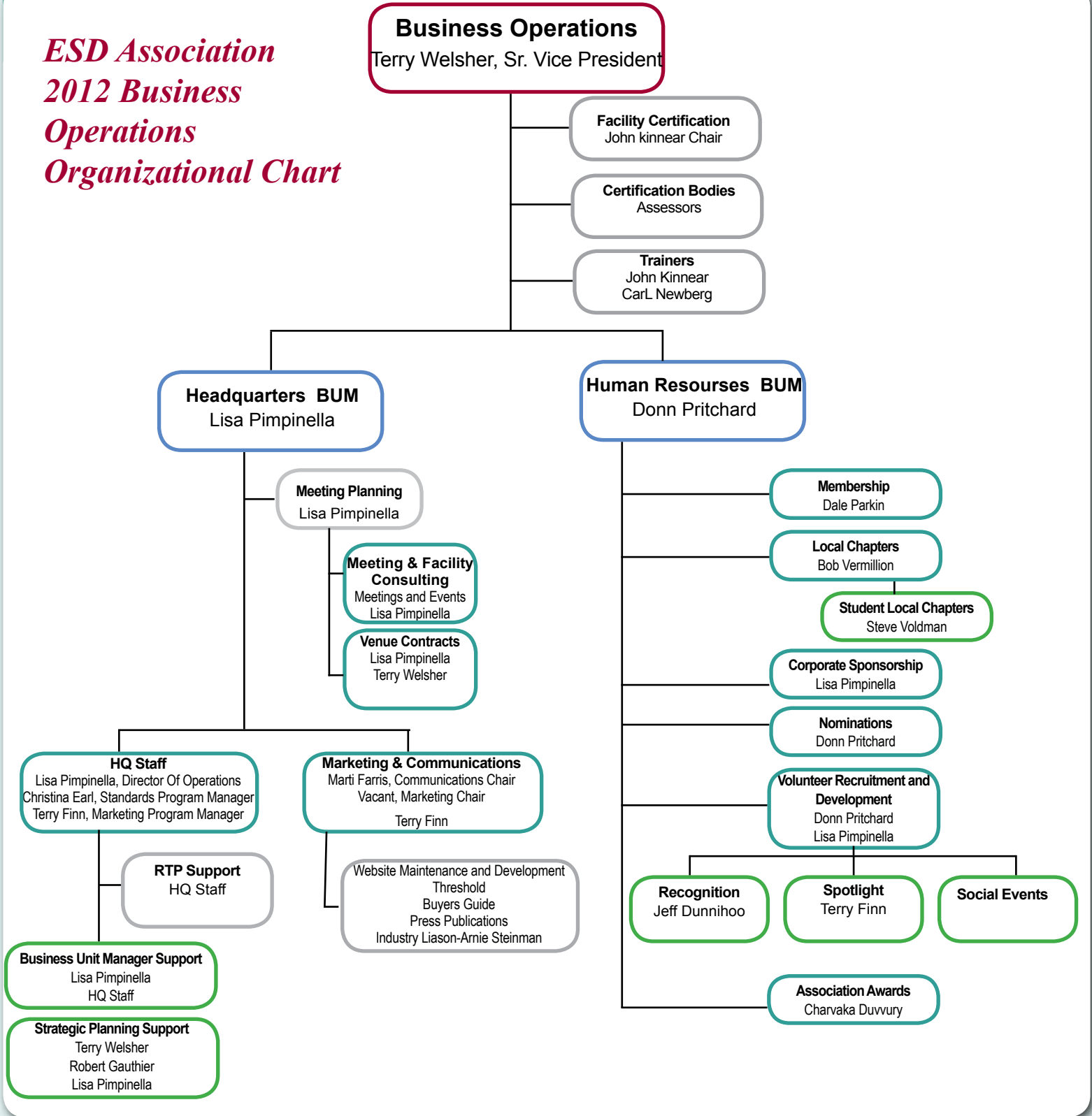
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Association

***ESD Association
2012 Business
Operations
Organizational Chart***



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Achilles is the leading global manufacturer of static controlled materials. ST-Polymer, a unique conductive polymer developed by Achilles' advanced technology, has been gaining attention around the world for its quality. Achilles also manufactures a variety of electronics-related items including EMI shields, heat conductive sheets, and more.

Certification

Certified

The Certified Professional-Program Manager Exam was held on Friday, September 16 at the 2011 EOS/ESD Symposium in Anaheim, California. The ESD Association is pleased to announce ESD Program Manager Professional Certification to the following individuals:



Becky Amundsen

Northrop Grumman

Becky Amundsen has worked at Northrop Grumman in Rolling Meadows, Illinois, for 25 years. She is a Manufacturing Process Engineer and works in the Material Evaluation Laboratory performing chemical failure analysis. Becky is also the site Technical Instructor developing ESD and other training materials and certifies employees in those requirements. She is the ESD Area Coordinator for the Manufacturing Operations Production Floor.

Becky graduated from Elmhurst College in Elmhurst, Illinois, with a Bachelor of Science in Chemistry and holds instructor certifications for IPC-J-STD-001, IPC-A-610, IPC-A-620 and IPC 7711/7721. She also received her Six Sigma Green Belt Certification from the University of Michigan.

Yong Hoon (Joshua) Yoo

Core Insight Inc.



Joshua Yoo has been involved in the static control industry since 1994 and started his own company, CORE INSIGHT, INC. for advanced static control products and services based in Korea. Joshua has been a member of ESD Association since 2000 and active as a SEMI ESD Taskforce Member. He serves global electronic companies to improve yield, quality and reliability issues. He has experience with micro contaminations control and invented alternative ionization technology for FPD industry. He is an iNARTE certified ESD Engineer and an ESD

Association certified Program Manager.

Joshua Yoo is founder and president of the Korea Chapter of ESD Association.

Congratulations!

For more information on the certification program visit www.esda.org/certification.html

Call for Papers

Deadline Reminder

The submission deadline is Friday, January 13, 2012.

**2012 EOS/ESD Symposium
Tucson, Arizona, USA
September 9-14, 2012**

The submission deadline is Friday, January 13, 2012. Late submissions will not be accepted.

Abstracts

Authors must submit a 50-word abstract and 4-page (maximum) summary of their work. The summary must clearly state the purpose, results (e.g., data, diagrams, photographs, etc.), and conclusions of the work. Authors are encouraged to use the abstract submission toolkit available on the ESD Association's website www.esda.org.

Electronic Submissions

Abstract submissions shall be made electronically via an emailed PDF file to info@esda.org. One file for each submission is required.

Deadlines

The submission deadline is Friday, January 13, 2012. Abstracts not meeting guidelines may not be accepted. The final submission deadline for the finished papers will be Friday, June 15, 2012.

Papers solicited in the following areas:

- I. Component Level EOS/ESD
- II. System Level EOS/ESD
- III. EOS/ESD Factory Level and Materials Technology
- IV. Electrostatic Control
- V. Magnetic Recording Heads and Ultra Sensitive Devices
- VI. ESD Standards – Components, System, Factory & Materials

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Manufacturer of static control products

Standards Meeting Schedule

ESD Association Meeting Series

February 7-12 2011

Tuesday, February 7

Education Committee 8:00 - 5:00

Wednesday, February 8

Technical & Administration Support(TAS) 7:00 - 5:00

Technical Program Committee 8:00 - 12:00

Steering Committee 1:00 - 5:00

ExCom 6:00 - 9:00

Thursday, February 9

BoD 8:00 - 5:00

Friday, February 10

Technical & Administration Support(TAS) 8:00 - 5:00

JWG, Device Testing (HBM) 8:00 - 12:00

WG-3, Ionization 8:00 - 12:00

WG-12, Seating 8:00 - 12:00

WG-15, Gloves 8:00 - 12:00

EDA Workgroup 8:00 - 11:00

WG-10, Handlers 1:00 - 5:00

WG-13, Handtools 1:00 - 5:00

WG-20.20, S20.20 1:00 - 5:00

JWG, Device Testing (CDM) 1:00 - 4:30

WG-5.0, Device Testing 4:30 - 5:30

Hospitality Suite 5:30 - 6:30

Saturday, February 11

WG-2, Garments 8:00 - 12:00

WG-53, Compliance Verification 8:00 - 12:00

WG-5.6, Device Testing (HMM) 8:00 - 11:00

WG-4, Worksurfaces 8:00 - 10:00

WG-9, Footwear &

WG-97, Footwear Systems 10:00 - 12:00

EOS WG 11:00 - 12:00

Marketing & Communications Committee 1:00 - 5:00

WG-11, Packaging 1:00 - 3:00

WG-5.2, Device Testing (MM) 1:00 - 3:00

WG-1.0, Wrist Straps 3:00 - 5:00

WG-5.4, Device Testing (TLU) 3:00 - 4:00

WG-5.5, Device Testing (TLP) 4:00 - 5:30

WG Chair Meeting 5:30 - 6:30

ESDA Mixer - All Invited 6:30 - 7:30

Sunday, February 12

WG-7, Flooring 8:00 - 12:00

WG-14, System Level ESD 8:00 - 12:00

WG-17, Process Assessment 8:00 - 12:00

Human Resources Committee 10:00 - 12:00

MAR/STDCOM 1:00 - 4:00

Nominations Committee 4:00 - 5:00

Monday, February 13

Industry Council 8:00 - 5:00

Q&A

Q I have a question about Tip-to-Ground Resistance testing. I have inventoried all our soldering equipment and done testing to see if they meet ESD requirements. I used the resistance testing procedures from the ESD Association. I am checking soldering irons, desoldering irons and air knives. I have some equipment that is failing or not getting a reading at all. On most of the air knives I cannot get a resistance reading; it reads open. On some of the desoldering irons, my resistance readings are above the 2 ohm max limit (8 and 9 ohms). Should I be doing this test on air knives? Any suggestions on what I need to do to get these items within specs? What is your recommendation on how often I should be checking these? I was going to try

and change the tips on these and see if that helps.

A A considerable amount of work is going on within our Standards Working Group on Hand-Tools regarding this area.

Changing tool tips of out of spec tools is generally a good idea since corrosion tends to build up and cause higher than normal resistance readings. Thorough cleaning of threads for screw-in tips is necessary to ensure good electrical contact between parts. We have not looked at air knives at this point but perhaps they should actually follow the same idea as other hand-tools. If there is any contact between an air knife and a sensitive item then the air knife should

have the same requirements as any other contacting item, but that may be a very high resistance. Some standards regarding hand-tools have a resistance to ground from the part of the tool that contacts something of concern as less than 10E9 ohms. This of course is very different than soldering/desoldering equipment which has very low tip to ground resistance requirements due to the applied voltage. You may not be able to measure the high resistance with the same instrument or set-up that you use for soldering equipment. At the higher allowed resistance, you can only make an accurate measurement with a higher voltage resistance meter such as used for measuring floors or worksurfaces at 100 volts.

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As secretariat of ISO/TC 209, IEST offers ISO 14644 and ISO 14698

standards, as well as peer-approved standardized procedures,

IEST Recommended Practices.

Local Chapters

“Local Sparks” *The Local Chapter Connection*

Korea Chapter

We're happy to announce that Korea Chapter Opening Ceremony will be held during SEMICON KOREA 2012 show Feb 7-9. This will be our 1st event as The Korea Local Chapter of ESDA #6308 is our booth number. Through co-work with SEMI KOREA, it is expected to expand our member base.

SEMI agreed to offer us space for presentation 14:00~16:00, on Feb. 8th. Arnie Steinman and Joshua Yoo will be the speakers and the agenda is 'Industry Council on ESD Target Level and CDM & Class 0 ESD Control Methodology'.

The ESD Forum will be held on Feb. 9th in Hall E3, 3rd, COEX. speaker topics will include ESD sensitivity and ESD issues. Korea Chapter Reception will follow. The Korea Local Chapter Opening Ceremony will be held on Feb. 9th.

Texas Chapter

Future Trends Presentation "Clouds in the Forecast?", Tom Starnes - Topics Driving Electronics in 2012 - presentation looking at the salient issues that are driving electronic end equipment applications and therefore the industry that feeds them, with a special eye to the processors that are in the heart of them all, highlight the biggest factors impacting the near term of our industry, but also a 5-year horizon. January 24, 2012 Tues 3-5pm
3M Innovation Center, AUSTIN TX

2012 Silicon Valley ESD Society PRESENTATION OPPORTUNITY

The Silicon Valley ESD Society still has time slots available to for presentation at our quarterly meetings in 2012. Topics can cover every facet of electrostatic and electrical overstress phenomena. Plan to attend or present today!

Technical Presentation Scheduled Dates in 2012, from 5:30 to 7:30pm:

March 20th, 2012

TechMart with ISQED
Santa Clara, CA

May 8th, 2012

Western Digital Fremont, CA

August 14th, 2012

Western Digital Fremont CA

November 13th, 2012

Western Digital Fremont, CA

Visit our website at www.esdiscovery.org for topics to be presented, see submission instructions below if you would like to present.

Submission Instructions

Interested Presenters should submit sufficient material for a 20 minute presentation to be followed by an informal 20 minute poster board

question and answer discussion on their material. Presentation submissions can be made electronically via an emailed PDF file to esdsiva.org@gmail.com. One file for each submission please!

Presentation Acceptance

The SiVa Technical Program Committee will accept presentations for peer review. Authors are responsible for obtaining company or government clearances prior to submitting their presentations.

Presentations are solicited in the following categories:

Component Level EOS/ESD including Failure Analysis.

System Level EOS/ESD.

EOS/ESD Factory Level and Materials Technology.

Biomedical & Chemical Industry Electrostatic Control.

Magnetic Recording Heads and Ultra Sensitive Devices.

ESD Standards - Components, System, Factory & Materials.

Local and Federal Regulatory Issues affecting ESD Engineering.

ESD Target Levels.

ESD challenges in flat panel manufacturing.

ESD Electronic Design Automation and ESD Design Tools.

New Technology for ESD mitigation.

Quick Links to ESD Local Chapters and affiliated organizations

ASEMEP ESD Council **no website available**

Asociación ESD de Mexico • <http://www.esdmexico.com>

Indian Chapter **no website available**

Korea Chapter • <http://www.esd.or.kr>

North Central Chapter • <http://www.esdnorthcentral.org>

Northeast Chapter • <http://www.nechapter-esda.org>

Silicon Valley EOS/ESD Society • <http://www.esdiscovery.org>

Texas Chapter • <http://www.Centxesdassoc.homestead.com>

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ESDA SPOTLIGHT: Theo Smedes

“Being a volunteer has given me a lot of experience (and fun!) that I would have missed otherwise. Involvement in the ESDA has brought me into contact with people from all over the world. An experience that I value highly.”

Dr. Theo Smedes holds an Msc and Ph.D in device modeling aspects from the Eindhoven University of Technology. He spent the next four years at the Delft University of Technology on the development of circuit extraction software for substrate coupling analysis.

Theo joined Philips Semiconductors in 1995 where he began work on statistical circuit simulations. In 1999 he became involved with ESD, servicing the design teams within the company and attended the 1999 symposium where he started his ESD education. In 2006 Philips Semiconductors became NXP Semiconductors where Theo is still working in the field of ESD and is active representing NXP in the industry council.



Married for almost 20 years to his wife Gonnie, with 2 children, Sharon (15) and Esther (13). Theo enjoys reading and listening to music. Theo likes to ride his bike to work and in winter, he enjoys skating, especially when the winter is cold enough to allow tours on the natural ice of the canals and lakes of the Netherlands. During the summer holidays, Theo and his family often go to other (European) countries where they love to do short hiking trips and city visits.

Theo has published several papers at the EOS/ESD symposium. He is active in all aspects of the Symposium technical program process; this past year Theo was Technical Program Committee chair. Theo has also participated in the symposium workshops as a panelist and moderator. He is currently a member of all Device Test-



ing Standards Working Groups and has contributed to with data, sharing experiences, and document reviews. Theo is also the 2012 IEW Discussion Groups Chair and part of the IEW organization committee. Sometimes volunteering is just for a small job: It was necessary to convert several years of proceedings into an IEEE compliant format. This was needed to get the proceedings in IEEEExplore. I did this together with Tim Maloney.

Theo tells us that the ESDA has been (and still is) a very good source for education. Initially through the tutorials, but as you gain experiences the papers and the review work continue to be educational. “There is always something new to discover.” He says. The work on the standards working groups allowed him to broaden his scope towards ESD testing and both the symposium and the Industry Council allowed Theo to be more active in ESD control aspects. “Being a volunteer has given me a lot of experience (and fun!) that I would have missed otherwise. Involvement in the ESDA has brought me into contact with people from all over the world; an experience that I value highly.

Calendar of Events

January 24, 2012 Tues 3-5pm

Texas Local Chapter Future Trends Presentation
"Clouds in the Forecast?", Tom Starnes - Topics Driving
Electronics in 2012 -3M Innovation Center, AUSTIN TX

February 7-12, 2012

ESD Association Meeting Series
Westin La Paloma, Tucson, AZ

Tuesday, Feb 7: Education Meeting

Wednesday, Feb 8: EXCOM-TAS-Steering

Thursday, Feb 9: BoD

Friday, Feb 10: Standards WG

Saturday, Feb 11: Standards WG, Marketing, MIXER

Sunday, Feb 12: Standards WG, STDCOM, Human
Resources

Feb 9th, 2012

Korea Local Chapter Meeting
SEMICON KOREA at COEX

March 13-14, 2012

Texas Regional Tutorial Program
Austin, TX • 3M Innovation Center

ESD Standards Basics for EPA

Ionization Issues and Answers for the Program Manager

Packaging Principles for the Program Manager

Cleanroom Considerations for the Program Manager

March 20th, 2012

SiVa Local Chapter Meeting
TechMart with ISQED, Santa Clara CA

May, 2012

Korea Local Chapter Conference

May 8th, 2012

SiVa Local Chapter Meeting
Western Digital Fremont, CA

May 8-10, 2012

Northeast Regional Tutorial Program
MA •Location T.B.D

Essentials for ESD Programs Factory: Technologies •
Controls • Procedures

ESD Training for Internal Quality Auditors and Supplier
Quality Engineers

May 14-17, 2012

6th Annual International Electrostatic Discharge Workshop
(IEW)
Corsendonk Priory Hotel, Oud-Turnhout, Belgium.

May 16-17, 2012

North Central Regional Tutorial Program Bloomington, MN
•Location TBD
ESD Basics for the Program Manager
How To's of In-Plant ESD Auditing and Evaluation
Measurements

June 5-10, 2012

ESD Association Meeting Series

Doubletree Guest Suites Seattle Airport/Southcenter, Seattle, WA

Tuesday, June 5: Education Meeting

Wednesday, June 6: EXCOM-TAS-Steering

Thursday, June 7: BoD

Friday, June 8: Standards WG

Saturday, June 9: Standards WG, Marketing, MIXER

Sunday, June 10: Standards WG, STDCOM, Human Resources

Aug, 2012

Korea Local Chapter Meeting
Membership / Working Group Meeting

August 14th, 2012

SiVa Local Chapter Meeting
Western Digital Fremont, CA

September 6-14, 2012

ESD Association Meeting Series, Westin La Paloma,
Tucson, AZ
EOS/ESD Symposium and Tutorials, Westin La Paloma,
Tucson, AZ

Nov, 2012

Korea Local Chapter Meeting
Working Group Meeting

November 13th, 2012

SiVa Local Chapter Meeting
Western Digital Fremont, CA

Photo Corner

A magic show for the Board of Directors!

Presented by Brennan Pimpinella and "Bongo"



Leo G Henry making sure he swallowed it. How did he do that....



Static spoons! Sorry Kevin it was too good to pass up!



Editorial Deadlines

Threshold™ is published six times a year by the ESD Association, a not-for-profit corporation. It strives for the advancement of theory and practice of electrical overstress avoidance and of allied arts and sciences and the maintenance of a high professional standing among its members and others.

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Threshold™ Publication Schedule

Issue	Deadlines
January/February	Nov. 19
March/April	Feb. 1
May/June	April 1
July/August	June 1
September/October	Aug. 1
November/December	Oct. 1

Threshold Institutional Listings

Space in the Threshold Institutional Listings, which appear at the bottom of newsletter pages, can be purchased for \$600.00 for six consecutive issues. Listings will also appear in the online calendar. Larger contributions are welcome. No agency fee is granted for soliciting such contributions. Inquiries, or contributions made payable to the ESD Association, should be sent to:
ESD Association, 7900 Turin Rd., Bldg. 3, Rome, NY 13440-2069 Tel: (315) 339-6937, Fax: (315) 339-6793, e-mail: info@esda.org.

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