

News bits

Exhibit space available

Over 50 exhibitors have already committed to the 2003 EOS/ESD Symposium. There is good space available, but it's going fast. For information on exhibiting, contact Scien-Tech Associates, Inc., P.O. Box 2097, Banner Elk, NC 28604-2097; Tel: 828-898-6375, Fax: 828-898-6379.

Symposium on the Web

You'll find more details about this year's Symposium on the ESDA Web site, www.esda.org. You can download the complete program, registration form, and hotel reservation form. You can link to the Riviera Hotel and make your hotel reservations on-line, and you can visit the Las Vegas Convention and Visitors Authority Web sites for more information on things to do and see in Las Vegas.

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Symposium to turn 25 in gala style

It all began 25 years ago in Denver, Colorado—a legacy that now includes nearly 1,000 technical papers, 2,500 authors, 7,500 pages of proceedings, a myriad of tutorials and workshops, and hundreds of volunteers.

This is the legacy that stands to be fulfilled as the EOS/ESD Symposium returns to the Riviera Hotel in Las Vegas, Nevada, September 21-25, 2003 for its 25th anniversary. More than 50 technical papers will be featured in 8 technical sessions. Nineteen tutorials will help attendees advance their education and progress toward certification. Eight workshops will provide opportunities for in-depth discussion of critical issues. Elsewhere in this issue and in the July/August issue of *Threshold*, you'll find additional details on this year's high quality technical program, representing the best education and the latest research and technology that the international ESD community has to offer.

The legacy of the EOS/ESD Symposium is also one that deserves to be feted. And, what better location than Las Vegas to celebrate. On Tuesday evening, September 23, Symposium attendees will gather at the *Top of the Riv* for a gala celebration.



The first EOS/ESD Symposium, Denver, Colorado, 1979

The special and auspicious evening includes dinner, the annual ESD Association membership meeting, awards, and a very special entertainment review called the "History of ESD, Part 1". Replacing and expanding upon the traditional ESD Association Luncheon and the annual Volunteer Recognition Dinner, this extraordinary event is dedicated to the volunteers who have made the 25-year history of the EOS/ESD Symposium possible. The celebration will recognize all those attendees and members, past and present, who have contributed countless hours to advance the science of electrostatic control throughout industry. Skits, songs, awards, recognitions, surprises, and a whole lot of fun will be the theme for the evening.

Each registered attendee will receive one ticket for the evening event, and exhibitors will receive one ticket for each booth space purchased. Admission includes dinner and one drink of choice. A no-host bar will be available throughout the evening. Additional tickets are available for purchase when you register for the Symposium or on site. If purchased by August 8, additional tickets will cost \$45. If purchased after August 8 or on site, they are \$65. Space is limited, so be sure to reserve all the seats you require.

You'll find all the details in the preliminary program that will be mailed in early summer and also available on the Association's Web site, www.esda.org.

See you at the *Top of the Riv*!

Create your own 2003 EOS/ESD Symposium experience

No matter what your expertise, experience, or background, you will find something of interest at the 2003 Symposium, September 21-25, 2003 at the Riviera Hotel in Las Vegas, NV.

To help you better plan your participation, the Symposium is programmed along three technical tracks: *ESD Test, Failure Analysis, and Systems*; *Factory, Materials, and ESD Control*; and *Device, Design, and Technology*. You can customize and concentrate your participation along these specific areas of interest. Remember, the tracks serve as guidelines and you can attend any event or session you wish.

Technical Tracks

Track 1

ESD Test, Failure Analysis, and Systems

If you need to understand failure models, troubleshoot ESD failures, test for or evaluate component ESD susceptibility, or develop systems and protection schemes, you will find the following tutorials, technical sessions, and workshops to be of special interest.

Tutorials

- System Level ESD/EMI—Part 1: Principles, Design Troubleshooting, and Demonstrations (Sunday)
- System Level ESD/EMI—Part 2: System Level ESD Testing and Evaluation to the IEC ESD Standard (Sunday)
- EOS/ESD Failure Models and Mechanisms (Monday)
- Device Testing—Component Level: HBM, CDM, MM, and TLP (Monday)
- Troubleshooting On-Chip ESD Failures (Thursday)

- Electrostatic Calculations for the ESD Engineer (Thursday)
- Design of TLP-Systems and Applications of the Very-Fast TLP (Thursday)
- Transmission Line Pulse Measurements: Parametric Analyzer for ESD On-Chip Protection (Thursday)

Technical Sessions

- Plenary Session—High Performance IC Package Design and Electrical Reliability (Tuesday)
- Trends in ESD Testing (Tuesday)
- Discharge Phenomena in Theory and Practice (Tuesday)
- Characterization of On-Chip Protection (Thursday)

Workshops

- How Does TLP Enhance ESD Design? (Wednesday)
- Trends in Device and Circuit Simulation for ESD Protection Development (Wednesday)
- ESD in Nanoscale Devices (Wednesday)

Track 2

Factory, Materials, and ESD Control

If you are responsible for the factory floor, standards, material selection, or ESD program management, you can participate in sessions and activities specially focused on providing the information and resources you need to address and solve your ESD problems. Choose from exhibits, tutorials, technical sessions, and workshops such as the following:

Tutorials

- ESD Basics (Sunday)

- Air Ionization: Issues and Answers (Monday)
- Packaging of Electronic Products for Shipment (Monday)
- How To's of In-Plant ESD Survey and Evaluation Measurements (Monday)
- ESD Control in Cleanrooms (Monday)
- ESD Handling and Tool Design Practices for Extremely ESD-Sensitive Devices (Monday)
- ESD Standards and Procedures (Thursday)
- Organizing and Managing an ESD Program (Thursday)

Technical Sessions

- Plenary Session—High Performance IC Package Design and Electrical Reliability (Tuesday)
- Factory and Materials (Wednesday)
- Magnetic Recording Heads (Thursday)

Workshops

- Common Auditing Issues (Wednesday)
- ESD in Cleanrooms (Wednesday)
- ESD In Magnetic Recording (Wednesday)
- ESD in Nanoscale Devices (Wednesday)
- ANSI/ESD S20.20 ESD Control Program Audit (Wednesday)

Track 3

Device, Design, and Technology

Advancing and changing technologies continually challenge designers and users

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Download the
Symposium program at

www.esda.org

EOS/ESD Symposium

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Create your own EOS/ESD Symposium experience

of sensitive devices to seek new EOS/ESD solutions. At this year's Symposium, you can explore the latest research and information on device technologies. Choose from exhibits, tutorials, technical sessions, and workshops such as the following:

Tutorials

- ESD On-Chip Protection in Advanced Technologies (Sunday)
- Application and Process Dependent ESD Design Strategy (Monday)
- EOS/ESD Failure Models and Mechanisms (Monday)
- Circuit Modeling and Simulation for On-Chip Protection (Monday)

- On-Chip Electrostatic Discharge (ESD) Protection in RF Technologies (Monday)
- Troubleshooting On-Chip ESD Failures (Thursday)
- Transmission Line Pulse Measurements: Parametric Analyzer for ESD On-Chip Protection (Thursday)

Technical Sessions

- Plenary Session—High Performance IC Package Design and Electrical Reliability (Tuesday)
- Advanced Power Clamps for On-Chip Protection (Tuesday)
- On-Chip Protection Strategies, Physics, and Modeling (Tuesday)

- RFIC and Novel Protection Devices (Wednesday)
- Characterization of On-Chip Protection (Thursday)

Workshops

- How Does TLP Enhance ESD Design? (Wednesday)
- On-Chip Protection for RF Technologies (Wednesday)
- Trends in Device and Circuit Simulation for ESD Protection Development (Wednesday)
- ESD in Nanoscale Devices (Wednesday)

EOS/ESD Symposium and Exhibits Program and Schedule Summary September 21-25, 2003, Riviera Hotel, Las Vegas NV (Program Subject to Change)

Saturday, September 20

Registration Opens

Sunday, September 21

Registration
ANSI/ESD S20.20 Seminar, Part 1
Tutorials

Monday, September 22

Registration
ANSI/ESD S20.20 Seminar, Part 2
Tutorials
Welcome Reception (Exhibit Hall)
Exhibits Open

Tuesday, September 23

Registration
Awards Breakfast
Plenary Session, *High Performance IC Package Design and Electrical Reliability*

Exhibits Open

Technical Sessions
Advanced Power Clamps for On-Chip Protection
Trends in ESD Testing
On-Chip Protection Strategies, Physics, and Modeling
Discharge Phenomena in Theory and Practice
Professional and Technical Women's Reception
25th Anniversary Gala (Dinner and Entertainment)

Wednesday, September 24

Registration
Technical Sessions
RFIC and Novel Protection Devices
Factory and Materials
Exhibits Open
Workshops

Thursday, September 25

Registration
Technical Sessions
Characterization of On-Chip Protection
Magnetic Recording Heads
Tutorials

Friday, September 26

NARTE ESDC Technician Exam
NARTE ESDC Engineer Exam



Symposium



Photo courtesy of Las Vegas News Bureau

What's to do in Las Vegas?

Besides the ESD papers, tutorials, workshops, and exhibits; gaming; and production shows (in order of priority), are there any other activities in Las Vegas during the EOS/ESD Symposium?

A silly question? Perhaps, as Las Vegas visitors are continually captivated by the casinos and dazzled by production shows, sophisticated lounge acts, comedy revues, magic acts, superstar concert headliners, and traveling Broadway performances. But, there's a lot more to Las Vegas before and after the EOS/ESD Symposium activities.

Resort attractions and more

From thrilling roller coasters to virtual-reality simulator rides, from white tigers to wax museums, Las Vegas' attractions appeal to all ages and interests. The **Adventuredome at Circus Circus** offers rides, attractions, and free circus acts. Observe a pyrotechnic war as pirates

battle in front of **Treasure Island**. Enjoy a ride in a gondola accompanied by singing gondoliers along the quarter-mile replica of the Grand Canal in Venice at the **Venetian**.

Gaming—Las Vegas style

Naturally, there's a wide variety of gaming, including traditional card and dice games, race and sports books, slot machines, cashless slot machines, high-tech electronic gambling devices, and international games of chance that originated in Europe and Asia. Las Vegas resorts offer an electronic version of virtually every type of casino game.

Dining—Las Vegas style

Once known for its all-you-can-eat buffets, Las Vegas has transformed itself into a culinary destination. Today, high-end eateries exist alongside the traditional buffets. It is no surprise that 24-hour cafés

abound in nearly every hotel and casino in the area. Dining, entertainment, and theme restaurants go hand-in-hand as guests are transported from feasts of the **Renaissance** to **Quark's** at Star Trek.

Golf

The pleasant climate makes playing golf enjoyable throughout most of the year, turning golf into an emerging attraction. More than 60 public courses are available for play in southern Nevada. Las Vegas offers challenging, beautifully sculptured courses developed by world-renowned golfers and designers such as Jack Nicklaus, Rees Jones, Billy Casper, and Arnold Palmer.

Fashion and shopping

Shopping continues to be a popular activity for U.S. travelers and Las Vegas is no exception. In Las Vegas you will find everything from colorful souvenir shops and discount malls to haute couture boutiques and retail centers along the Las Vegas Strip and in surrounding areas.

Neighboring destinations and scenic getaways

Southern Nevada is also home to several smaller destinations such as Laughlin and Mesquite, providing a getaway in an easy-going setting.

Don't forget the wonders of Mother Nature that surround the area. Rugged mountains, red rock canyons and deep desert valleys offer stunning scenery and myriad outdoor recreational opportunities. **Death Valley** is located in western California, 135 miles (216 kilometers) from Las Vegas. This scenic wonder has the lowest elevation on the North American continent at 280 feet (85 meters) below sea level. **The Grand Canyon** in western Arizona lies approximately 300 miles (480 kilometers) from Las Vegas. Over millions of years, the Colorado River carved this natural wonder that is one mile deep and 277 miles (450 kilometers) long.

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Symposium

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Las Vegas

Art and culture in the desert

For years, Las Vegas has enjoyed its own unique place in American culture. From the highbrow to the kitschy, you can bet on Las Vegas to deliver a well-rounded dose of art and culture. Fans of the legendary entertainer Liberace might enjoy a visit to the **Liberace Museum**. Focused on preserving Las Vegas history, the **Neon Museum** is a collection of classic neon signs. Of course, Elvis lives at the **Elvis-a-Rama Museum** with exhibits that include more than \$4 million worth of the King's personal belongings.

For those interested in art, **The Wynn Collection**, located just up the Strip from the Riviera Hotel, is but one of several fine art museums in Las Vegas. You might pay a visit to the **Las Vegas Art Museum** or the **George L. Sturman Museum of Fine Art** where you can find works by

Salvador Dali, Alexander Calder, Henri Matisse, and others.

The **University of Nevada, Las Vegas (UNLV)** features theatre productions, musicals, art exhibits, jazz, classical and chamber music concerts, ballets, opera, lectures, dances and other worldly entertainment. High profile, star-powered shows and touring musical productions continue to make stops in Las Vegas, where they play to packed houses. Many of the performances on the Las Vegas Strip are among the best and most innovative in the world, from the internationally acclaimed **Cirque du Soleil** and **Blue Man Group** to Las Vegas icons **Siegfried and Roy**.

With many entertainment and cultural options on and off the Las Vegas Strip, the

destination certainly lives up to its moniker: *Entertainment Capital of the World*.

For more information on what Las Vegas has to offer Symposium attendees, log on to the Las Vegas Convention and Visitors Authority Web sites at www.lasvegas24hours.com or www.vegasfreedom.com.

Information for this article was provided by the Las Vegas Convention and Visitors Authority

Next Month

In the July/August issue of *Threshold*, we'll feature more information about this year's Symposium, highlighting the technical sessions, tutorials, and workshops of special interest.

Symposium Registration and Fees

Save by registering early

You can save money and you can save time by registering in advance. Advance registration fees are valid only if received no later than **August 8, 2003**. Registrations received after this date will be processed at the on-site fees.

You can save several hundred dollars by registering early. Plus, attendees who participate in the "total Symposium experience" and full-time students will save even more.

To register, use the registration form in the program you received in the mail, download the form from the ESDA Web site, www.esda.org, or contact Association headquarters.

	Advance Fees On or Before <u>August 8, 2003</u>	On-Site Fees After <u>August 8, 2003</u>
Symposium		
ESD Association Members	\$495	\$695
Non-Members	\$595	\$695
Tutorials		
Sunday (Full Day)	\$475	\$550
Monday (Full Day)	\$475	\$550
Thursday (Full Day)	\$475	\$550
Thursday (Half Day, AM or PM)	\$275	\$275
Student Fees		
50% discount for full-time students. Proof of enrollment required. Student fees apply only to Symposium or Tutorial registration and do not apply to Bundled Fees.		
Total Symposium Experience: Save with Bundled Fees (Symposium plus 3 full days of tutorials)		
ESD Association Members	\$1,725	\$2,110
Non-Members	\$1,815	\$2,110
\$20.20 Seminar	\$1,495	\$1,495
(Attendance limited to first 30 registrants)		
Exhibits Only	No Charge	No Charge

Symposium

Exhibits feature products, services, solutions, information

When you're searching for ESD products and services, where do you begin? If you're looking through a myriad of purchasing directories, checking the magazine ads, or walking the floors of major electronics trade shows, you're probably doing things the hard way.

There's an easier alternative. The 2003 EOS/ESD Symposium features nearly 100 exhibit spaces displaying ESD products and services from leading companies. All in one place and all at one time, you'll cover the broad spectrum of static protection, control, testing, and analysis, as well as prominent trade publications.

Admission to the exhibits is free. You don't even need to register for the Symposium or tutorials, although if you don't, you'll miss out on all the information that the technical sessions, tutorials, and workshops have to offer.



List of Exhibitors

As of April 21, 2003

3M Electronic & Interconnect Solutions Division
 ACL/Staticide
 Advanced Test Equipment Rentals
 Aesops, Inc.
 Associated/ACC International, Ltd.
 Barth Electronics, Inc.
 Bradford Company
 ByStat International, Inc.
 Carmelstat by Carmel Olefins
 Century Container Corporation
 Conductive Containers, Inc.
 Credence Technologies, Inc.
 Desco
 Domco Tarkett
 Dou Yee Enterprises Pte. Ltd
 Electro-Tech Systems, Inc.
 Electronic Polymers, Inc.
 Ex-Tech Plastics, Inc.
 Flexco
 Klockner Pentaplast of America, Inc.
 Kostat, Inc.
 Molded Fiber Glass Tray Company
 Monroe Electronics
 NoiseKen
 Noveon, Inc. Static Control

NOVX Corporation
 NRD, LLC
 Oryx Instruments Corporation
 Premix Thermoplastics, Inc.
 Prent Corporation
 Prostat Corporation
 Richmond Technology-ITW
 RTP Company
 Sarnoff Corporation
 Semtronics Corporation
 Senawang Laminating Technologies, Sdn Bhd
 Simco Static Control & Cleanroom Products
 Static Control Components, Inc.
 Statico
 Stephen Halperin & Associates, Ltd
 Tech Wear, Inc.
 Technical Coating International, Inc.
 Tek Stil Concepts, Inc.
 Thermo KeyTek
 Trek, Inc.
 Uniglobe Kisco, Inc.
 Vidaro Corporation
 VPI (Vinyl Plastics, LLC)-Flooring

Publications

A²C²
 Canon Communications
 Clean Rooms
 Evaluation Engineering-EE
 Test & Measurement World

Sponsor

ESD Association

Exhibit Hours

Monday, September 22,
 7:00 PM-10:00 PM
 Tuesday, September 23,
 9:00 AM-5:00 PM
 Wednesday, September 24,
 9:00 AM-4:00 PM

Information on exhibiting may be obtained by contacting David F. Barber, Jr., Scien-Tech Associates, Inc., P.O. Box 2097, Banner Elk, NC 28604-2097, Phone: 828-898-6375, Fax: 828-898-6379.

From the president

A first look at exciting new developments in ESDA professional certification

Our board of directors understands that the ESD Association has a responsibility to support members' personal careers and technical development. We know that one's



Steve Halperin

unique insight, ESD experience can have tremendous quality, reliability, and financial impact on a company's bottom line. Consequently, professional certification of a member's ESD skills can lead to more responsibility, enhanced visibility, and greater career opportunities.

With the reorganization of our International Council on Education (ICE) business unit and motivated by the increased demands of the Facility Certification business unit, we have created new professional certification programs to meet industry's needs. Individual certification will be granted and administered by the ESDA, and related educational programs will be developed and implemented over the next few years.

What are industry's needs?

Electronic technology flow stems from creative device and system design to manufacturing and testing at all levels of the process. ESD protection must be incorporated within products and assemblies, and throughout manufacturing, handling, and transport of ESDA items, and extends to the operation and maintenance of complex systems. Our Association provides tutorials, seminars, standards, and a variety of publications to assist our members in obtaining and applying ESD technology in these areas, but we have not clearly addressed specific professional personnel standards. However, we have recognized the need

to develop and harmonize our professional certification program to cover the primary elements of

- Advanced product design and testing of ESDS parts and assemblies
- ESD control program design, implementation, training and management
- ESD guidance for general engineers and technicians

Translated into specific terms, we believe new categories of professional certification would be helpful to both our members and their employing companies. The proposed new ESDA certification categories are

1. Senior ESD Engineer: Responsible for design of ESD devices, products, systems and test programs to verify ESD performance
2. Senior ESD Technician: Responsible for detailed testing and verification of product sensitivity and performance
3. ESD Program Manager: Responsible for ESD control program design, training issues, program implementation and administrative management in accordance with ANSI/ESD S20.20 facility certification standards
4. ESD Plant Auditor: Responsible for in-plant verification of ESD program performance of technical elements in accordance with ANSI/ESD S20.20 facility certification standards and assessment of the process for ESD problem cause

These categories offer members a fresh approach to professional certification that focuses on their individual expertise.

Common denominators of ESDA professional certification

The ESDA board believes these new high quality programs must share a common look and feel, and that each program must confirm an individual's knowledge and capability in their respective specialty. The ESDA not only establishes requirements for each area, but also must maintain the programs with continuous review and enhancement. The ESDA will create and provide educational opportunities to assist our members in achieving professional certification. Common aspects of all programs include the following:

- Designated tutorials and seminars to teach and review the basic and advanced aspects of ESD technology for each certification type
- Comprehensive overview of creative accomplishments and work experience, personal recommendations, and educational qualifications reflecting the minimum background requirements by specialty
- Objective individual assessment that confirms the candidates' knowledge and capability to deliver their specialty skills to ESDA standards
- Ongoing requirements for the maintenance of individual professional certification

These common elements will be established and maintained by the International Council on Education (ICE) made up of ESD educators, certification development team specialists and board of directors representatives. ICE maintains ESDA's overall certification standards, while each individual certification development team creates

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From the president

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A first look at exciting new ESDA professional certification developments

and maintains their respective program in accordance with those standards. The ICE chair and the respective certification development team chair represent the board of directors in conferring individual certification. As ESDA's technical coordinator, the vice president maintains oversight of ICE and the respective units that develop and maintain the certification programs.

Program timing and leadership

The ESD Program Manager certification program is being announced this year in the 2003 Symposium brochure and will be introduced at the Symposium. The first ESD Program Manager certification exam is tentatively scheduled for fall 2004. The ESD Program Manager certification details are scheduled for presentation to the board of directors during the June meeting in Rome, NY. They are intended to support the rapid growth and

acceptance of ANSI/ESD S20.20. Outlines are presently being developed for the In-Plant ESD Auditor certification program tentatively scheduled for announcement in late 2003 or early 2004. The ESD Program Manager and In-Plant Auditor programs are being developed under the direction of Ron Gibson, John Kinnear and Dave Swenson.

The Senior ESD Engineer and Senior ESD Technician program outlines are virtually complete and also are scheduled for presentation at the June board meeting. Supporting tutorials and seminars are defined and will be available to members during the next two years. These programs are under the direction of Charvaka Duvvury and Leo G. Henry who plan to formally announce program details later this year.

Your ESDA is committed to supporting your personal career development in a valuable, effective manner as a major

membership benefit. We believe certified ESD professionals have greater value to their companies and to our industry.

More details on all these programs will be available in Threshold and on the ESDA Web site as they become available. Watch for them.

Association news

Doug Chesleigh 1941-2003

The passing of our long time colleague and friend Doug Chesleigh has saddened us in the ESD industry.

Doug had been involved in our industry for many years, first at Marshall/Claude Michael in El Monte, CA and then as owner and partner with Bill Straley in Chesleigh & Straley (a manufacturer's rep firm), Controlled Static (a manufacturer of ESD prevention products) and Chemical Systems (a manufacturer of adhesive dispensing systems).

After he sold Chesleigh & Straley, Controlled Static, and Chemical Systems, he was the sales manager for Richmond Technology, responsible for their ESD products. In 1983 he left Richmond to start Static Prevention Inc, SPI to all who knew him.

Doug many times led the ESD static control industry with innovative new products and improvements to existing ones, notably, flexible strain relief on wrist straps, Ground Gard™ constant ground monitors, and pulse DC room ionization systems – T.A.R.I.

He was the developer of RESQUE™, an innovative topical antistat cleaner for work surfaces and flooring materials. He attended the first EOS/ESD Symposium in Denver, CO in 1979.

Doug's bright smile and ever-present welcome hug will be sorely missed by all of us.

Symposium

Symposium promotion opportunities

The 25th annual EOS/ESD Symposium will offer exhibitors and other companies a number of marketing and promotion opportunities.

Exhibits directory

The Symposium will again publish a separate exhibits directory containing detailed information on the 3-day exhibits program. In addition to the free company and product listings in the directory, exhibiting companies also may purchase half and full page advertisements to expand awareness of their company products and services. Details are in the exhibitor kits mailed to all exhibitors.

Advertising opportunities

Also this year companies can support the Symposium and create company awareness at various events such as the tutorial lunches, coffee breaks, the welcome reception, and the opening breakfast. Event signage or on-screen slides will prominently identify and promote companies participating in these opportunities.

Costs, deadlines, and other requirements for each of these programs are included in the exhibitors kit mailed to each exhibiting company. Additional information also may be obtained by contacting ESDA headquarters.

From the Threshold chair

Hugh Hyatt was an engaging colleague...



Leo G. Henry

...And now he is gone, a sudden passing, leaving us, the ESD Device Testing Standards Working Group, the job of continuing to “engage” each other for the purpose of solving the remaining ESD issues.

Yes, fellow members, Hugh Marvin Hyatt left us for good on Saturday, December 7, 2002, only 59 years after his arrival into the world on June 17, 1943 in Saginaw, Michigan. Hugh is survived by his wife, Margie, and many family members. We have all met Margie E. Hyatt, his wife of 14 years, whom he met on a blind date in 1984. The guy was that engaging.

It is said—by those very close to him—that Hugh embraced science from an early age, first as a means of creating “playthings” that went “bang and boom,” tormenting those around him, and later as a career that would make him well known in the scientific community. Hugh played football, baseball, and basketball at Ovid (Michigan) High School and he graduated with honors. After serving his country as second lieutenant in the Army (enlisted in 1964), he attended the University of California,



Hugh Hyatt

Berkeley, and graduated with a degree in Physics.

Hugh founded three companies. The third one, Hyger Physics, Inc. (HPI), which he founded in 1987, was the one in which he focused on test and measurement equipment for electrostatic discharge phenomena, high-voltage pulsed power, and EMP applications. His expertise also included the design and development of a line of high-voltage, fast rise time transmission line pulsers, and ESD suppression devices. His work on component level and system level testing led to many published papers on ESD phenomena and ESD testing.

His many accomplishments included being a recipient of an Atomic Power Commission Scholarship and the Best Presentation Award for a co-authored CDM ESD paper at the 1996 ESD Symposium. He was a physicist, an engineer,

a researcher, and a colleague with an engaging smile. His loss will be felt as a consultant to the Device Testing Working Group. He was never shy about sharing his answers. One of his famous one-word answers was “42.” This in response to a question that he is continuing to research.

Hugh never stopped seeking truth and answers. That quest led him on many spiritual journeys, ending in the arms of the Unity Church of Bremerton, Washington, where he found peace, inspiration, friendship and love.

Thanks, Margie, for working with us on the “inside” information. Those of us who know you will miss you at the meetings. Happy memories.

Until next time--Bhappy

LeoG

Facility certification

ESDA schedules July S20.20 seminar

The ESDA has scheduled an ANSI/ESD S20.20 Seminar for Independent Assessors, Program Managers, and Consultants on July 16 and 17 at ESD Association headquarters in Rome, NY.

This two-day course is intended for companies or individuals who wish to help clients design and implement an ESD control program based on ANSI/ESD S20.20, as well as for those firms who are implementing their own programs.

This course will provide attendees with the tools and techniques to help their companies or their clients prepare for a facility audit (pre-assessment). Examples of control programs will be presented and general role-playing will be used in the assessment section. Interactive participation and case studies are integral parts of the seminar.

Presented by Ron Gibson, Celestica, Inc., and John Kinnear, Jr., IBM Corpo-

ration, the course will cover the following topics:

- Overview of ANSI/ESD S20.20
- Administrative elements
- Technical elements
- ESD program techniques for different applications
- Overview of the assessment process
- How to approach an assessment
- The audit checklist and follow-up questions

Seminar fees are \$1,495. Attendance is limited. For more information or to register for this two-day program, contact ESDA headquarters.

Calendar of events

May 2003

ESD Design Seminar: May 5-6, 2003; Holiday Inn–Great America, Santa Clara, CA; www.esda.org

Midwest ESD Chapter Meeting: May 14, 2003; Ionization Basics, Gary Seale, Simco; Sheraton Chicago Northwest Hotel, Arlington Heights, IL; www.midwestesd.org

ESD Northwest Chapter Meeting: May 14, 2003; Modify Your ESD Training Program to be More Effective, Don Skinner, Consultant; Viasystems, Beaverton, OR; www.esdnw.org

Texas ESD Association Chapter Meeting: May 19, 2003; Sematech, Austin, TX; www.centxesdassoc.homestead.com

ESDiscovery 2003: May 20, 2003; AMD, Sunnyvale, CA; Silicon Valley ESD Society; www.esdsiva.org

June 2003

North Central ESD Association Chapter Meeting: June 9, 2003; panel discussion on ESD handling techniques and auditing; location to be determined; www.esdnorthcentral.org

ESDA Standards and Committee Meetings: June 12-17, 2003; ESD Association Headquarters, Rome, NY; www.esda.org

July 2003

ANSI/ESD S20.20 Seminar for Independent Assessors, Program Managers, and Consultants: July 16 and 17, 2003; ESD Association Headquarters, Rome, NY; www.esda.org

September 2003

Texas ESD Association Chapter Meeting: September 12, 2003, Fundamentals of ESD Training: Sematech, Austin, TX; www.centxesdassoc.homestead.com

North Central ESD Association Chapter Meeting: September 15, 2003; topic and location to be determined; www.esdnorthcentral.org

ESDA Standards and Committee Meetings: September 19-21, 2003; Riviera Hotel, Las Vegas, NV; www.esda.org

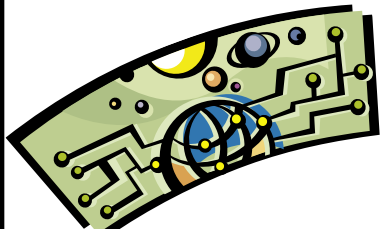
EOS/ESD Symposium: September 21-25, 2003; Riviera Hotel, Las Vegas, NV; www.esda.org

ESD Certification Exams: September 26, 2003; Riviera Hotel, Las Vegas, NV; www.esda.org

October 2003

ESD Impact and Control Workshop: October 16, 2003; Sematech, Austin, TX; www.centxesdassoc.homestead.com

Understanding Today's ESD Issues and Tomorrow's Challenges



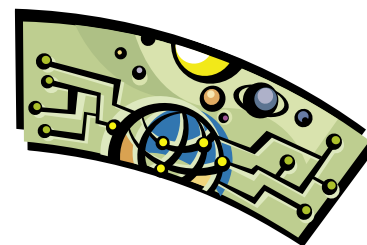
Now Available

ESDA White Paper on ESD Phenomena and the Reliability for Microelectronics

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Threshold

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