

The Product Safety Engineering Newsletter

Vol. 9, No. 2 June 2013

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President's Message

In the Air...On the Ground...Traveling...! A Miracle—isn't it?

"It's a dangerous business, Frodo, going out your door. You step onto the road, and if you don't keep your feet, there's no knowing where you might be swept off to."

(Bilbo Baggins to Frodo Baggins, The Lord of The Rings: The Fellowship of The Ring)

This column is being written in Vancouver, British Columbia, Canada, on the evening following a very successful PSES workshop in the beautiful city of Vancouver, sponsored by the Vancouver Section, the joint EMC/PSES Chapter and the University of British Columbia; all sponsors of the very successful event.

This wonderful day started with a 20+ hours of travel, commencing in Tel-Aviv, Israel, continuing in Amsterdam, The Netherlands, followed by Toronto, Ontario, Canada, and finally ending in Vancouver British Columbia, Canada.

It all seemed to promising at the beginning, my choice seating on the plane, the nice flight attendants, the good food. (Would you believe...?)

I actually made it well on all connections, but my baggage did not! Aaaargh! And the next day—today—I am supposed to be “respectable,” dress well, representing the Society in the Workshop.

So, as I was planning during the long flight on what I plan to write on, events came and changed it all. But I will not let this little discomfort ruin the great event of today! So what if I had to go, buy a shirt, a tie, some shaving utensils, just to be “respectable.” I guess when you travel that much you kind of learn to live with this situation from time to time.

“When you're safe at home you wish you were having an adventure; when you're having an



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Thomas Shefchick	Juha Junkkarinen	Rich Nute	IEEE TAB Division VI Director
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IEEE PSES Web Sites

<http://www.ieee-pses.org/>
<http://psessymposium.org/>
<http://product-compliance.oc.ieee.org/>
<http://www.ieee-pses.org/emc-pstc.html>
<http://www.ieee-pses.org/newsletters.html>
<http://www.ieee-pses.org/pses.html>



adventure you wish you were safe at home”
(Thornton Wilder)

I guess it is a big enough miracle that we get into that long metallic tube, take off and after so many hours actually land at the intended destination—figure that out—you fly 10,000 miles or so, and then the pilots find the runway to an accuracy of a few feet. Is that not amazing? Now if he had missed, my do we have a potentially hazardous situation. And how come we do not think of that? Have we so much gotten accustomed to technology that we have forgotten the risks associated with it? I still stop at times and think about the miracle we experience every day, the very fact that we can take technology for granted. In my perspective it is a sort of a miracle.

There are those who are so scared to travel they simply decide not to! *“Better be safe than sorry,”* right? The best answer to that is in the following: *“A ship in harbor is safe, but that is not what ships are built for.”* (Shedd, John A) – Neither are planes. Planes are designed to travel, to carry us from one place to another, and if occasionally a small thing such as lost luggage occurs, well, so be it!

The First Israeli Prime Minister, David Ben Gurion, said *“Anyone who doesn’t believe in miracles is not a realist.”* Think about it—we live in the age of miracles. Technology is a miracle! The human genius is a miracle!

Why do I like Traveling?

I admit! In spite of all discomforts, the long, redeye flights, I love traveling. Mark Twain’s famous quote explains that simply: *“Travel is fatal to prejudice, bigotry, and narrow-mindedness, and many of our people need it sorely on these accounts. Broad, wholesome, charitable views of men and things cannot be acquired by vegetating in one little corner of the earth all one’s lifetime.”*

If it had not been for traveling, how could I have met the most fantastic people I came across around the Globe? How could anyone be narrow-minded when you meet people, just like you, that the only thing that differs you from them is that they happened to be born from parents living in a territory far from your own? What other opportunity

would I have to exchange opinions, to learn from others, to listen and to teach, and yes, also serve as a sort of ambassador of good will for my own country and nation. That is what it is all about!

Travel to Safety...Looking Forward to ISPCE 2013 in Austin TX

Once a year, we all have the opportunity to Travel to Safety! Once a year, the PSE community comes together in the IEEE International Symposium on Product Compliance Engineering. This year, 2013, the international symposium will be held in Austin, TX.

The 10th incarnation of the IEEE Symposium on Product Compliance Engineering will return to Austin Texas on October 7, 8 and 9, 2013. Join us in Austin to study, discuss, share your knowledge or benefit from the knowledge shared by others or simply network on product safety and product compliance engineering. Make it our “Safety Week.” We have the power to do good or evil, or as JFK said: *“The world is very different now. For man holds in his mortal hands the power to abolish all forms of human poverty, and all forms of human life.”* (John Fitzgerald Kennedy). The same power can also be put into the betterment of the life of humanity. It is in our hands to achieve that. We cannot do it individually; *“Safety is from God alone.”* But, if we put hands together, if we work together, we can.

Come and join us in Austin, either as speaker or an attendee, join the party, meet your colleagues and have a great time. It is still early enough this year to prepare to attend. You will not regret it!

ISPCE 2014 Goes Earlier...

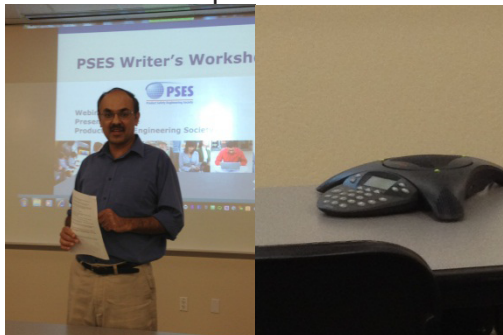
This is the last year that the symposium will be held in fall, as in future, from 2014 and on, the Symposium will migrate to spring, to the May timeframe. This does introduce multiple challenges; the largest of all is that the call for papers and the call for papers in this special year will probably occur prior to the commencement of this year’s symposium. Please stay tuned, keep your eyes and ears open for announcements, and when you receive them, note there is no error in the date. Indeed, the submission date will be much earlier than the usual. Please plan now

Chapter Safety Probes

To see current chapter information and people looking to start chapters please go to the Chapter page at:
<http://www.ieee-pses.org/Chapters/index.html>

IEEE PSES Santa Clara Chapter continues through Q2 2013 with some great sessions!

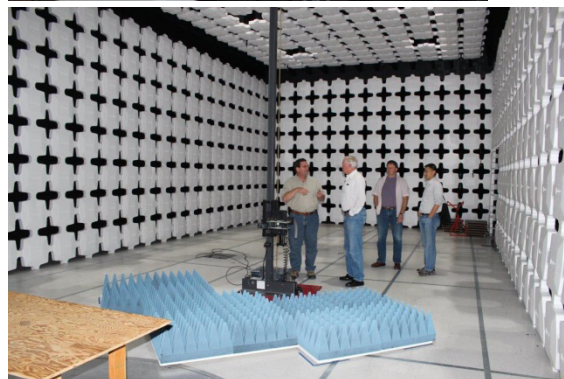
April - For our April presentation we tried something new! We have been regularly hosting a virtual access to our monthly presentations and in April we brought our presenters in virtually as well! In preparation for the Austin ISPCE (<http://www.psessymposium.org/general/westin-austin-domain>), we invited Doug Nix to present his Writer's Workshop. This is a great Workshop to help you prepare a paper for the Symposium or otherwise. Formal Papers presented at the Symposium provide greater visibility and credit to the Author and are also uploaded to the IEEE Explore for access to others (and it generates additional revenue for the PSES to help us offer more services).



Our Chair, Ken..... Our Speaker!.....
Our Real Speaker/Presenter(s)

May - As usual, we try to mix things up from time to time, so for our May meeting we had a remote event at the recently remodeled facility of Siemic Global Testing and Certifications (<http://www.siemic.com/>).

The staff at Siemic hosted our business meeting, provided a presentation as well as a tour of their remodeled facility. They are also celebrating their 10th Anniversary this year!



Continued on Page 5



Thanks to the staff at Siemic for the great presentation and event and to UL for providing the Pizza!

June - Our June meeting included a Presentation by Tom Burke of UL titled "Update on IEC 62368-1, AV/ITE Legacy Standards & Related Topics" following our business meeting. The meeting followed our usual no-host dinner at a local restaurant and was well attended with lively discussion! As usual we provided virtual access to the meeting and for this meeting we provided Certificates of Completion to PSES members as well.



We also discussed that the SCV Chapter will be hosting the 2014 ISPCE in San Jose next May and that preparatoinis are underway for that:

11th Annual IEEE Symposium on Product Compliance Engineering – Back to the Future!

Save the Date – Note New Time of Year!!!

May 5 – 7, 2014

Watch for Call for Papers – Q4 2013!

Location – Where it all Started – **San Jose/Santa Clara Valley.....**

Double Tree by Hilton Hotel San Jose

2050 Gateway Place, San Jose, California, 95110, USA

TEL: 1-408-453-4000 FAX: 1-408-437-2898



Some Final Thoughts – As usual, all our presentations are on the website and available to PSES members! If you would like to get on our chapter mailing list, please contact Kevin Ravo at kevin.l.ravo@ul.com. In September we will likely be having a joint meeting with the CE Society in our area so watch out for more details.

With Best Regards,
Kevin Ravo
SCV Chapter Vice hair

Vancouver

The Vancouver chapter held their 2013 Product Safety Workshop in Vancouver, BC on 21-Jun-2013. This dynamic workshop was open to all and focused on product safety engineering and

management. Presentations explored the future of alternative energy in BC, product risk, product safety testing, forensic engineering and standards. It also included a mini exposition with product safety vendors from the Vancouver area.

The Keynote was given by Terry Nagy and the topic was Beyond Product Safety - Trends in the Certification Business. Terry is CSA Group Global Business Unit Director, Alternative Energy & Sustainability. Terry has an education in engineering and business, and worked in several provinces in industry before returning to home to BC to work for CSA.

Central Texas

The April meeting opened with general announcements concerning upcoming meeting topics, the CTPSES website and LinkedIn access, the 2013 Product Safety Symposium (in Austin) as well as other regular business. After the announcements, Lal Bahra, Senior Regulatory Engineer, Dell Inc. was introduced. His topic covered the creation and formative process for product safety standards through the IEC group. He gave examples of how changes are brought about to current standards, as well as how new standards are developed. He led the group through the various responsibilities and composition of the committees and groups that are tasked with bringing about these changes. Several questions were asked about specific areas of interest in this topic after Lal's presentation and a short discussion followed based on those questions. Refreshments for the evening were provided by Austin Manufacturing Services.

Chicago

The executive committee met in December to plan for 2013. UL graciously agreed to provide the venue for our 2013 meetings in their Northbrook, IL facilities. Hosts will vary throughout the year.

The first meeting was March 27th and hosted by UL. Doug Nix did a presentation on the Machinery Directive. This was the first meeting we did via WebEx. Doug was in Canada and we piped him in to Chicago. Despite some technical difficulties at the beginning, it went very well. We had 19 attendees and the presentation was very well received.

We had another executive committee meeting on June 6th. We are shooting for a July meeting and always looking for presenters. With WebEx, we can now have presenters from anywhere in the world. If you're interested, please contact me.

We were very fortunate to have the Chicago Section (i.e.; Joe) re-do our website - <http://ieeechoicago.org/PSESHome/tabid/1805/Default.aspx>. It looks great and we continue to update it with meeting minutes and presentations.

That's it from Chicago for now.

John Allen
Jrallen@productsafetyinc.com

News and Notes

USNC Training for IEC Participation Available

The United States National Committee (USNC) of the IEC will present a three-hour webinar titled "Effective Participation in the Development of Globally Relevant IEC Standards" Monday, June 24, 2013. This course is designed to give tips of the trade and advice to those USNC delegates who wish to work on and improve their skills as representatives. You will learn, in great detail, what to do before, during and after a meeting, as well as how to put your best foot forward when representing the USNC. You will learn correct delegate conduct and behavior and the most effective ways to represent yourself as a delegate for the USNC. Fee for the course is \$100. USD. For more information or .to register, contact Kevin Sullivan at ksullivan@ansi.org.

Call for Articles: PSES is planning to bring out next issue (Fall 2013) of its eNewsletter in September 2013 and would like to invite news, articles, reports etc. to share amongst the members of PSES all across IEEE. You are requested to contribute.

All PSES chapters and TACs are also requested to send reports on the activities/events organized by their respective chapters/committees. This will help our readers and other IEEE volunteers to appreciate your initiative and understand the benefits of organizing such activities. You can also include a link to your chapter website for a more detail report. Please send your contributions in MS WORD and digital images in jpeg format to dan.roman@ieee.org.

Please send the contributions by 15th September 2013.

GLOBESPACE2014
www.GLOBESPACE.org



2014 Global Symposium on
**EMC, Safety and Product
Compliance Engineering**

3-6 March, 2014
Tel Aviv, Israel

Call for Papers

Deadline for submission:
7th July, 2013



Congress Secretariat: Paragon Conventions | Tel / Fax: +972-3-5767720 | Email: symposium@globespace.org

Multiple E-Stops and Resets

Editor's note—This is the sixth in a nine-part series of articles reprinted through the courtesy of Doug Nix from postings on the Machinery Safety 101 blog (<http://machinerysafety101.com>).

Reader Question: Multiple E-Stops and Resets

by Doug Nix

I had an interesting question come in from a reader that is relevant to many situations:

“When you have multiple E-Stop buttons I have often gotten into an argument that says you can have a reset beside each one. I was taught that you were required to have a single point of reset. Who is correct?”

— Michael Barb, Sr. Electrical Engineer

The Short Answer

There is nothing in the EU, U.S. or Canadian regulations that would forbid having multiple reset buttons. However, you must understand the overlapping requirements for emergency stop and prevention of unexpected start-up.

The Long Answer

First I need to define two different types of reset for clarity:

- A. Emergency Stop Device Reset: Each e-stop device, i.e. button, pull cord, foot switch, etc., is required to latch in the activated state and must be individually reset. Resetting the e-stop device is NOT permitted to re-start the machinery, only to permit restarting. (NFPA 79, CSA Z432, ISO 14118).
- B. Restarting the machine is a deliberate action separate from resetting the emergency stop device(s).

ANSI B11-2008 provides some direct guidance on this topic:

7.2.2 Zones

A machine or an assembly of machines may be divided into several control zones (e.g., for emergency stopping, stopping as a result of safeguarding de-

vices, start-up, isolation, or energy dissipation). The machine and controls in different zones shall be defined and identified. Controls for machines in zones can be local for each machine, across several machines in a zone, or globally for machines across zones. The control requirements shall be based on the operational requirements and on the risk assessment. The interfaces between zones, including synchronization and independent operation, shall be designed such that no function in one zone creates a hazard(s) / hazardous situation in another zone.

CSA Z432-04 has similar wording:

6.2.1.8.4

When zones can be determined, their delimitations shall be evident (including the effect of the associated emergency stop device). This shall also apply to the effect of isolation and energy dissipation.



Let's take a case with a single e-stop button first. The same requirements apply for all e-stop de-

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vices. The requirements include:

1. Button must be in 'easy-reach' of the normal operator position. I consider 'easy-reach' to be the range I can touch while sitting or standing at the normal operator position. This position is not necessarily in front of the control panel. This is the position where the operator is expected to be while carrying out the tasks expected of him/her when the machine is operating. This is the requirement that drives having multiple buttons in most cases.
2. E-stop devices cannot be located so that the operator must reach over or past a hazard to activate them.
3. The button must latch in the operated position.
4. The button must be robust enough to handle the mechanical and electrical stresses that will be placed on it when used (i.e., rugged buttons are required).
5. When the e-stop device is reset—returned to the 'RUN' position—the machine is NOT permitted to restart. It is only PERMITTED to restart. It must be restarted through another deliberate action, like pressing a 'Power On' button.

So what do you do with the 'POWER ON' or safety circuit reset button? The first question to ask is: "What happens when I reset this circuit, applying power to the control circuits?"

Case A: If it is impossible to see the entire machine from the location of the reset button, then I would recommend a single reset button located at the HMI or main console. The operator must check to make sure the machine is clear before re-applying power. Where the machine is too big to be completely visible from the main operator console, then I would also recommend:

- warning horn,
- warning lights, and
- a start-up delay that is long enough to allow a person to get clear of the machine before it starts moving.

Case B: If the machine is simply 'enabled' at this point, but no motion occurs, then multiple 'reset' or 'power on' buttons *may* be acceptable, depending

on the outcome of the risk assessment and start/stop analysis. Having said that, the operator will likely have to return to a main console to reset the machine and restart operation, and chances are there is only one HMI screen on the machine, so there may not be any advantage to having multiple reset buttons.

I would recommend doing two things to get a good handle on this: Conduct a detailed risk assessment, and include all normal operations and all maintenance operations. Then conduct a start/stop analysis to look at all of the starting and stopping conditions that you can reasonably foresee. Combine the results of these two analyses to find the starting and stopping conditions with the highest risk, and then determine if having multiple reset buttons will contribute to the risk or not. You may also want to look at the control reliability requirements for the emergency stop system based on the outcome of the risk assessment and the start/stop analysis.

In a case where there are multiple emergency stop devices, locations are important. There must be one at each normal workstation to meet the regulatory requirements in most jurisdictions, and within 'easy reach'. You may also want some inside the machine if it is possible to gain full body access inside the machinery, e.g., inside a robot work cell. Make sure that the buttons or other devices are located so that a person exposed to the hazard(s) inside the machine is not required to reach over or past the hazard to get to the button.

Michael, I hope that settles the argument!

Doug Nix, A.Sc.T., is Managing Director at Compliance InSight Consulting Inc. in Kitchener, Ontario, Canada.

This article is republished by permission from the Machinery Safety 101 blog (<http://machinerysafety101.com/2010/09/27/emergency-stop-categories>, March 3, 2011).

IEEE PSES Awards

Submit Your Candidates for PSES Awards

Your IEEE PSES Society has two new Awards for worthy individuals. Know someone who has done great things for our IEEE society? Please nominate him or her for honor at our Austin conference (<http://www.psessymposium.org> .)

The two awards are **Service Acknowledgment Award**, and **Recognition Award**. The first is for IEEE PSES members, and the second for non-IEEE PSES members.

Please provide a one-page description of why the individual should be honored. References may be attached as appendices. This information should be received by me (murlinm@ieee.org) no later than 1 August, 2013. Full information on the awards is provided below.

Murlin Marks

IEEE Product Safety Engineering Society Awards Program

Service Acknowledgement Award – IEEE PSES Certificate of Appreciation Award

Title: Service Acknowledgment Award – IEEE PSES Certificate of Appreciation Award.

Description of Award:

This award is given to members of the Society in appreciation for performing a service to the Society in a given calendar year.

Administration:

Product Safety Engineering Society, VP Member Services, Awards Committee

Eligibility:

This award is given to members of the IEEE Product Safety Engineering Society in appreciation for performing a service to the Society. Awards are based on service(s) to the Society and are not limited in number that may be awarded to an individual member.

Eligibility will be in adherence to IEEE PSES by-laws, and with procedures and regulation established in IEEE and Society governing documents.

Prize Item:

IEEE PSES Certificate of Appreciation (Certificate) - (Est. Cost - \$10)

The name of the Society shall appear prominently on the certificate associated with the award.

Frequency:

The above award is given once a year (annually), per nomination. The Awards' Committee shall strive to have at least one Service Acknowledgment Award each year.

Funds:

Budgeted \$50 per annum. Financial arrangements for awards coordinated by the Awards Committee, VP - Member Services, and the Society Treasurer.

Nominee Solicitation:

- Requests for award nominations shall be sent to all PSES members via each Society Newsletter and via email at least quarterly.
- Award nominations shall be received by the Awards Committee no later than one month before the second quarter PSES Board of Directors meeting. Additional nominations may be provided no later than two weeks prior to the September Board of Directors Teleconference.
- The Awards Committee shall vote upon each nomination and forward the resulting nominations to the Board by the second quarter Board meeting with additional nominations no later than one week prior to the September Board of Directors Teleconference.

Awards Committee (See Appendix):

- The award committee chair shall exercise initiative in securing qualified candidates.
- All winners should be encouraged to attend the ISPCE for the formal presentation.

Schedule:

- All issues - Newsletter request for Award nominations.
- Quarterly – PSES Email request for Award nominations.
- May 15, August 15 – Deadline for Award

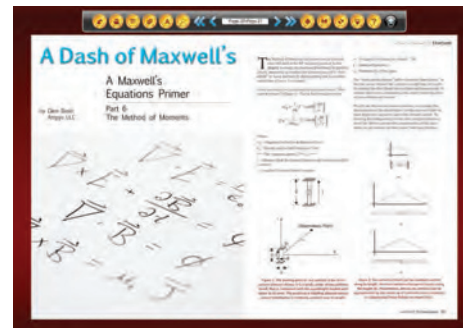
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 News, Articles, and Ideas on EMC, Product Safety,
 Designing for Compliance and Regulatory Updates.



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2013 IEEE Symposium on Product Compliance Engineering

Sponsored by the IEEE Product Safety Engineering Society

October 7– October 9, 2013
Austin, Texas, USA
www.psessymposium.org

General Chair
Gary Schrempp
Gary_schrempp@dell.com

Technical Program Chair
Gary Tornquist
garytor@microsoft.com

Conference Management
Conference Catalysts, LLC

Call for Papers, Workshops, and Tutorials

The IEEE Product Safety Engineering Society seeks original, unpublished papers and tutorials on all aspects of product safety and compliance engineering including, but not limited to:

Forensics Track:

Papers and presentations detailing:

- The latest findings in failure analysis on new components and miniaturization of common products implemented by the electronics industry.
- Descriptions of failure analysis involving rare failure modes that are not commonly seen in any given product line.
- Developments in the general tools and techniques used for quality failure analysis of electronic and electrical products.
- Dominant failure modes for a given type of component, detailing causes and effects of these failure modes.

Leadership Track:

Papers and presentations on leadership will include:

- Management strategies and techniques
- Case studies
- Leading change
- Teambuilding
- Conflict resolution
- Time management
- Communication skills

ITE Product Compliance Track:

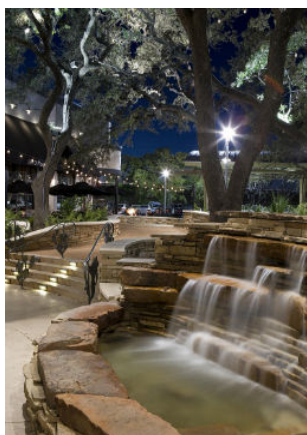
Papers and presentations on ITE product compliance will include:

- Information Technology Standards and Regulations
- ITE compliance and non-compliance case studies
- Certification requirements and strategies
- Testing methods
- Labeling

Medical Devices Track - "The impact of the new IEC 60601-1":

Papers and presentations on Medical Devices will include:

- Risk Management process
- Essential performances
- Patient and Operator – different requirements
- How to deal with the Collateral Standards
- Manufacturer opinion
- Consultant opinion
- Testing House opinion





2013 IEEE Symposium on Product Compliance Engineering

Sponsored by the IEEE Product Safety Engineering Society

October 7– October 9, 2013
Austin, Texas, USA
www.psessymposium.org

Call for Papers, Workshops, and Tutorials

General Chair

Gary Schrempp
Gary_schrempp@dell.com

Technical Program Chair

Gary Tornquist
garytor@microsoft.com

Conference Management

Conference Catalysts, LLC

General Track:

Papers and presentations in the General Track will include:

- **Product Specific:** Consumer, medical, computer (IT), test and measurement, power supplies, telecommunication, industrial control, electric tools, home appliances, cellular and wireless, etc.
- **Hazard Specific:** Electrical, mechanical, fire, thermal, chemical, optical, software, functional, reliability, risk assessment, etc.
- **EMC / RF:** Electromagnetic emissions, electromagnetic immunity, regulatory, Introduction to EMC/RF for the safety engineer and compliance engineer.
- **Components:** Grounding, insulation, opto-couplers, cables, capacitors, connectors, current-limiters, transformers, current-limiters, fuses, lasers, ferrites, environmental, electromagnetic suppression & protection, surge protectors, printed wiring boards, etc.
- **Certification:** Electromagnetic emissions & immunity, Environmental, Product safety, Processes, safety testing, regulatory, product liability etc.
- **Standards Activities:** Development, status, interpretations, country specific requirements, Laboratory Accreditation, etc.
- **Research:** Body physiological responses to various hazardous energy sources, unique safeguard schemes, electrically-caused fire, forensic methods etc.
- **Environmental:** RoHS, WEEE, EuP (Energy-using Products), Energy Star, Packaging Directives, REACH (Chemical), CeC, etc.
- **Demonstration Papers:** Demonstrations of product safety testing techniques including mechanical, electrical, fire, etc.

Risk Assessment Track – Are you ready for Risk Assessments in Standards??

Papers and presentations on Risk Assessments will include:

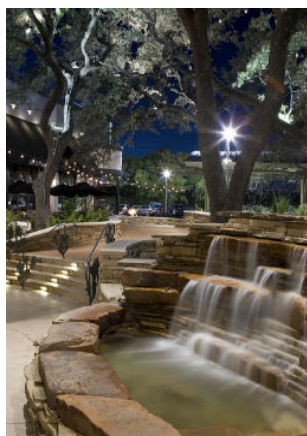
- Introduction to Risk Assessments and various techniques
- Understanding the different scoring methods in various Standards
- Risk Assessments for Electromedical Equipment
- Review of ISO Guide 51

Author's Schedule

All dates require that the associated documents be loaded into EDAS by the due date

Abstract/Draft Formal Paper/Presentation Submission	May 21, 2013
Notification of Abstract Acceptance	June 7, 2013
Final Paper/Presentation submission	July 19, 2013
Acceptance of Papers	August 16, 2013

Please go to the Author page of the ISPCE web for comprehensive submission instructions including paper templates on the Authors tab at: www.psessymposium.org



June 2013

Eurasia Economic Community

The Eurasian Economic Community including Russia, Belarus and Kazakhstan came into force on February 15, 2013.

From February 15, 2013, a new Customs Union (CU) certificate will be the ONLY certificate that may be issued for compliance with safety and EMC technical regulations. The CU Mark must appear on all products covered by the new CU Certificates. Existing certificates for those countries will remain valid until their expiry dates or March 15, 2015, whichever is first provide there are no changes or updates, or a certificate renewal.

The Customs Union Technical Regulations cover machinery and equipment and will replace national regulations for

- Safety of machinery and equipment
- Safety of equipment used in the explosive atmosphere
- Safety of devices working on gas fuel
- Safety of low voltage equipment
- EMC of technical devices
- Safety of lifts (from April 18th, 2013)

India – Safety Product Registration

The Electronics and Information Technology Goods Order, 2012 was issued by the India Department of Electronics and Information Technology of the Ministry of Communication and Information Technology. The Order brings into force a registration program for 15 electronic and IT products, listed as Controlled Goods, to comply with the specified Indian Safety standards.

The Registration process is under the Bureau of Indian Standards (BIS) with in country testing required in a specified laboratory.

The effective date of the program was April 3,



2013, but an extension period until July 3, 2013 has been announced. An additional extension period of three months until October 3, 2013 is available under certain conditions.

South Korea – Safety Regulation

KATS (Korean Agency for Technology and Standards) announced the Self-Regulation Safety confirmation rule with an enforcement date of July 1, 2013.

The specified products fall into three certification program categories:

1. Safety Certification
2. Self-Regulatory safety confirmation
3. Declaration of Conformity (DoC)

The KC Mark and required information must be on the product surface and on the package.

KATS provided new information on the definition of ITE, and the relation to the requirements for internal power supplies on March 28, 2013.

Internal power supplies are within the scope of the regulated products for ITE. KATS defines ITE as equipment which has the function of input/output terminals including a keyboard, mouse, and display. Excluded from the scope are internal power supplies for special equipment such as storage equipment, and switches. DC power supplies are also excluded.

South Korea has just announced an extension period until January 1, 2014 for power supply certification of workstations and servers, including service parts. Desktop and all-in-One power

Continued on Page 15

supplies will still need to meet the date of July 1, 2013.

Peru – Safety Certification

The Peruvian government introduced Article 107 on March 1, 2013, to establish a conformity assessment program for the safety of electrical, electronic, and industrial products. This new law would encompass all products which use electricity.

The Ministry of Production will develop the implementing regulation within 45 days of the signing of the new law, expected as early as mid-April. It is expected that products would need to show compliance with the new regulations on a label, packaging, and/or advertising.

Nigeria – Compliance Program

As of March 1, 2013, Nigeria has revamped its compliance program. The new SONCAP structure has 3 distinct routes to show compliance for regulated products.

Route A – For currently unregistered or unlicensed products.

Route B – For Registered products

Route C – For Licensed products

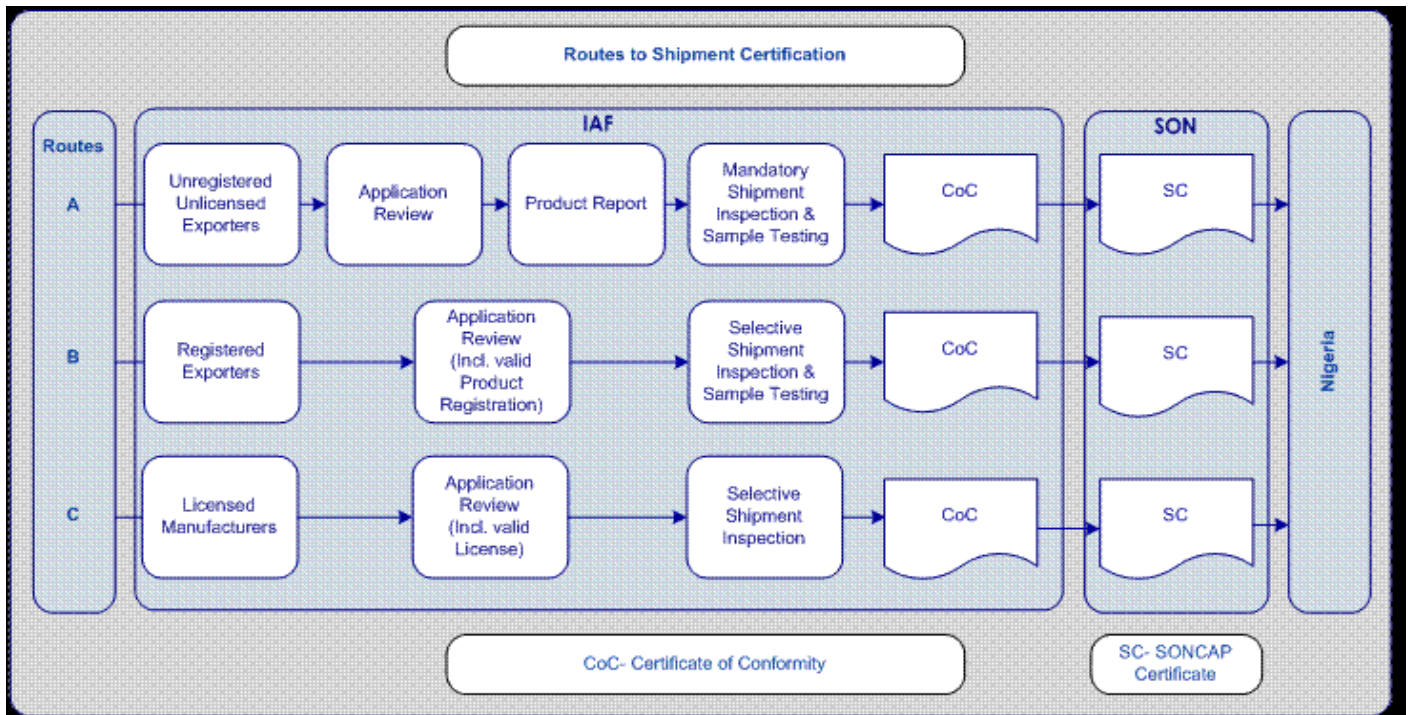
Malaysia – Host Level Certification for Devices with Radio or Telecom

The Standards and Industrial Research Institute of Malaysia (SIRIM) has announced that Host Level certification for tablets with wireless or telecom devices is required. Modular approval of the the radio device is no longer acceptable when used in a tablet.

Other end products such as notebooks, desktops and other device are not affected by this change.

Chile – Safety Certification

As published on December 26, 2012, , Chile’s authority will begin requirements for safety and energy certification for all printers based on IEC 60950-1:2005 for safety and IEC 62301:2011 for energy efficiency as of April 1, 2014. The authority has released information on seven paths to certification, most requiring in country testing..



Standards Roundup

STATUS OF IEC 62368-1 2nd EDITION

The new standard, IEC 62368, is intended to replace the current ITE standard, IEC 60950, as well as the Audio-Visual standard, IEC 60065. 108/495A/CDV, the Committee Draft for Vote of the IES 6238-1, 2nd Edition was circulated to the national committees in December, 2013. It has now been approved by those national committees.

In March, 2013, the HBSE development committee met in Bangkok, Thailand to address the comments and issues reported with the draft CDV.

It is expected that the FDI, final draft international standard, will be published in Q3 of 2013.

STATUS OF Amendment 2 to IEC 60950-1 2nd EDITION

The national committees approved the FDIS 108/507/FDIS for Amendment 2. Meeting in Bangkok, Thailand in March of this year, the MT2 of TC108 addressed the comments. Amendment 2 is expected to be published by the end of this year.

China – GB170625.1:2012; GB13837:2012

Recently announced by the Standardization Administration of the P.R. China (SAC) was the implementation of the updated subject standards in several phases to be completed by October 1, 2014.

The first phase will begin on July 1, 2014 where applications under the old standards will no longer be accepted. All certificate updates should be completed before the completion of the first CCC annual follow-up factory inspection, but no later than July 1, 2014.

GB170625.1:2012–Electromagnetic compatibility – Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) based on IEC 61000-3-2:2009 Ed. 3.2

GB13837:2012–(Sound and television broadcast

receivers and associated equipment – Radio disturbance characteristic – Limits and methods of measurement, based on IEC/CISPR 13:2009

**Booked your
trip to the 2013
Symposium on
Compliance
Engineering yet?**

Call For Papers

The Scientific Committee is pleased to invite you to submit a manuscript for presentation for Oral or Open Forum (Poster) presentation at the Symposium. Please refer to the website, www.GLOBESPACE.org for detailed instructions.

The deadline for submissions is Sunday, 7 July, 2013

Preliminary Timetable

Sunday, 2 nd March 2014	
All day	Arrival and Optional Tours
Evening	Welcome Reception

Monday, 3 rd March 2014	
All day	Technical Sessions
Evening	Social Event

Tuesday, 4 th March 2014	
All day	Technical Sessions
Evening	Social Event

Wednesday, 5 th March 2014	
All day	Technical Sessions
Evening	Social Event

Thursday, 6 th March 2014	
All day	Workshops / Tutorials / Technical Excursions

General Information

Symposium Venue

David Intercontinental Hotel
12 Kaufman Street
Tel Aviv
Israel
Tel: +972-3-795-1111
Fax: +972-3-795-1112
Web: <http://www.ichotelsgroup.com/intercontinental/en/gb/locations/telaviv>

Dates

3-6 March, 2014

Language

The official language of the Symposium is English.

Technical Exhibition

The Symposium will be accompanied by a technical exhibition on EMC. Please contact Hadar Manore at hmanore@paragon-conventions.com for further details.

Registration and Accommodation

Registration fee information, online registration booking and accommodation information will be available on the Symposium website, www.GLOBESPACE.org in due course.

Visas

All visitors to Israel must hold a passport that is valid for at least six months from the date they are departing the country. Please check the visa requirements and application process with your local Israeli embassy.

International Symposium Relations

Sarah Krein at s.krein@globespace.org



Symposium Secretariat

Dan Knassim / Paragon Conventions
Medinat Hayehudim Street 60
46766 Herzliya, Israel
Tel / Fax: +972-3-5767720
Email: symposium@globespace.org



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Makes you part of a community where you will:

- Network with technical experts at local events and industry conferences.
- Receive discounts on Society conferences and symposiums registration fees.
- Participate in education and career development.
- Address product safety engineering as an applied science.
- Have access to a virtual community forum for safety engineers and technical professionals.
- Promotion and coordination of Product Safety Engineering activities with multiple IEEE Societies.
- Provide outreach to interested engineers, students and professionals.
- Have access to Society Publications.



E-Mail List: <http://www.ieee-pses.org/emc-pstc.html>
 Virtual Community: <http://product-compliance.oc.ieee.org/>
 Symposium: <http://psessymposium.org/>

Membership: The society ID for renewal or application is “043-0431”.

to submit a paper, and to attend.

Going Global – GlobeSPACE 2014 and Ethics 2014

Here are another two exciting opportunities for you all.

In 2014, in addition to the annual ISPCE 2014, the PSES is technically co-sponsoring another two international conferences, GlobeSPACE 2014 (the Global Symposium on EMC, Product Safety and Product Compliance Engineering), to be held in Tel-Aviv, Israel, in early March, 2014. This symposium will address a wide range of topics on EMC, safety and product compliance, and will also serve as a great opportunity to visit the Holy Land.

The IEEE PSES is proud to be a technical co-sponsor of that event and will take an active part in its organization. Why not share the enthusiasm and plan to attend? Visit www.globespace.org for more information.

In May, 2014, the first IEEE International Symposium on Ethics in Science, Engineering and Technology, Ethics 2014 will take place in Chicago, IL. Again, PSES is a technical co-sponsor of the Symposium, which is expected to address many aspects relevant to safety and compliance engineering. Safety and ethics are so closely related. Plan to attend. Visit <http://sites.ieee.org/ethics-conference/> for more information or search for us on LinkedIn.

As the General Chair of both events, please allow me to extend a hearty welcome to you all. For more information on both, please contact me at eb.joffe@ieee.org.

PSES Education Committee...Volunteers (Still) Needed!

“Education is simply the soul of a society as it passes from one generation to another.” (G. K. Chesterson)

In my “other hat,” I am leading the effort of forming the **PSES Education Committee (PSEEC)**. The mission of the committee is to promote education related activities on product safety engineering within the IEEE PSE Society.

The Committee shall recommend to the PSES Board of Directors and implement programs specifically intended to serve and benefit PSES members in educational pursuits, the product safety and compliance engineering community, regulatory agencies and public at large.

These programs shall include planning of educational activities within PSES, development and delivery of continuing education products, the coordination of pre-university programs, and activities within the PSES field of interest and representation of the PSES in matters regarding product safety engineering education.

The Committee (PSEEC) is seeking volunteers willing to lead or support any of its activities, as listed below.

The Committee plans to prepare and conduct educational programs and develop products designed to support the individual member during his/her professional career, with particular emphasis on continuing education and career development. In particular, the Committee will:

- Define the educational goals of PSES;
- Establish awareness of product safety and compliance engineering (PS&CE) education throughout schools, academia and industry;
- Develop a recommended curriculum for product safety and compliance engineering education;
- Create a data base of existing university offerings on PS&CE-related Education;
- Develop a manual of product safety related case studies;
- Collaborate with relevant conferences and symposia on PS&CE education products and their delivery;
- Initiate programs to motivate practitioners to pursue, and their employers to encourage and support, continuing education throughout their careers;
- Promote and reward excellence and innovation in the development and implementation of educational programs and activities that relate to the PSES field of interest;

- Create an on-line PS&CE Education-related Virtual Community and web site.

If you are interested in serving on the committee, or for any further details, please contact me at eb.joffe@ieee.org.

Looking into the Future...Call for Volunteers

"The future is not what it used to be..."
(unknown)

As I see the end of my term as President approaching, and as Kevin Ravo prepares to assume the position of President, in January, 2014, I would like to invite you all to consider taking an active share in the leadership of the Society. It is not too late to start considering running for office in the PSES Board of Directors. I would like to share with you the following, humoristic part:

Whose Job Is It?

"This is a story about four people named Everybody, Somebody, Anybody and Nobody. There was a job to be done and Everybody was asked to do it. Everybody was sure Somebody would do it. Anybody could have done it, but Nobody did it. Somebody got angry about that, because it was Everybody's job. Everybody thought Anybody could do it but Nobody realized that Everybody wouldn't do it. It ended up that Everybody blamed Somebody when Nobody did what Anybody could have done."

The success of our Society depends on you! Do not ask "who's job is it?" Ask not what the PSES can do for you, ask what you can do for the PSES, because at the end of the day the PSES is formed from the members, by the members and for the members. We all hold a share. We all hope for the success of the Society, but the word "success" cannot be spelled without "U". Consider realizing your share.

"Service to others is the rent you pay for your room here on earth." (Mohammed Ali)

By running for office you have the opportunity (if elected, and even if not) to make a difference. Take a leadership role, start from the chapter, work your way up, and assume roles on committees of the Board. Do not expect others to do the job for you.

If you do not want to run for the Board, there are many other positions to be held in various committees. We would like to start up additional technical committees, education committee, membership-related committees, but those cannot be done without members, without volunteers. The IEEE and the PSES are membership and volunteer-driven organizations.

"Once you decide on a course of action based on your beliefs, it is as if the Universe opens up resources for you to achieve your dream. Effort must be put in to take action towards those dreams, and then the right people, places and necessities will be drawn to you - assisting you along the way. It is as if you started the journey alone, only to later realize that others were there with you. You just weren't as aware of their presence then because the senses had not yet been awakened to that greater reality."

"The truth is, we are never alone when we are brave. Others have gone before. Courage is the birthright of every person who heeds the call to conscience." (Victor Khong, September 13, 2012)

I look forward to working with all of you who join the volunteers of the Society, helping achieve the set of our goals for the benefit of us all. For making a suggestion, comment, or just for dropping a friendly note, please do not hesitate to e-mail me at: eb.joffe@ieee.org



Elya Joffe
President IEEE PSES

TAC News

Telecom Safety

The committee has been concentrating on AC Power Cross Considerations for Non-Telecom Signaling Lines (e.g. Ethernet, Alarms) run in outside plant and IEC 62368 and MOV requirements. The discussion has continued beyond the meetings into lively discussions on the TSTC email reflector. Of particular concern are the treatment of Ethernet and PoE that travel outside a building. The group is looking at suggestions for updates to practical application guides for 60950.

Contact Don Gies (Don.Gies@alcatel-lucent.com) for details.

Nominations.

- June 1, August 22– Refine all nomination information for presentation to the PSES Board.
- June PSES Board Meeting, September Board Teleconference – Board approval/disapproval of Award nominations.
- July 15, September 15 – Submit for creation of awards. Certificate letterhead may be obtained from IEEE headquarters that includes the IEEE and PSES logos.
- August 1, September 15 - Upon approval of award recipients by the PSES Board of Directors, the awards committee chair shall officially notify the recipients via a congratulatory letter, and confirm their intentions to attend the annual symposium. In addition, the awards committee chair shall request from the awardees photographs and personal biographical information for publicity purposes.
- September 25 – Receive certificates. Check all for accuracy.
- October – Awards presentation at the ISPCE.

Selection/Basis for Judging:

The awards program shall be administered through the awards committee under the responsibility of the VP – Member Services. This award is given to members of the Society in appreciation for performing a service to the Society in a given calendar year.

Presentation:

IEEE PSES awards are presented at the annual ISPCE.

Publicity:

- Winners’ bios, photos and description of achievement in Conference Program.
- Winners’ bios , photos and description of achievement in Society Newsletter following ISPCE.
- Winners’ bios, photos and description of achievement on Society Web Site after ISPCE

APPENDIX

Awards Committee:

- 1.1 The awards committee is selected by and reports to the VP – Member Services. The awards committee shall consist of a minimum of 3 members. The VP – Mem-

ber Services shall notify the board of the committee members and its chairman.

- 1.2 The awards committee assists the board by continuously evaluating the Society awards program (including all policies relative to the granting of awards) by establishing new awards, and by implementing award presentation procedures. Further, the awards committee solicits nominations for awards, reviews, and approves all award recommendations.
- 1.3 The award committee chair shall exercise initiative in securing qualified candidates
- 1.4 Upon approval of award recipients by the PSES Board of Directors, the awards committee chair shall officially notify the recipients via a congratulatory letter, and confirm their intentions to attend the annual symposium. In addition, the awards committee chair shall also try to obtain from the awardees photographs and personal biographical information for publicity purposes.
- 1.5 The awards committee must approve the design and language of all award mementos.
- 1.6 PSES will publicize the awardees in the annual symposium program and the Society newsletter.
- 1.7 An annual review of the financial, the nature and the purpose of all awards shall be made by the awards committee and the PSES Board of Directors, or as needed.

IEEE Product Safety Engineering Society Awards Program Recognition Award – IEEE PSES Certificate of Recognition Award

Title: Recognition Award – IEEE PSES Certificate of Recognition Award

Description of Award:

This award is given to nonmembers of the IEEE Product Safety Engineering Society in recognition of contributions to the Society.

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ELECTROMAGNETIC COMPATIBILITY

Administration:

Product Safety Engineering Society, VP Member Services, Awards Committee

Eligibility:

This award is given to nonmembers of the IEEE Product Safety Engineering Society in recognition of contributions to the Society.

Eligibility will be in adherence to IEEE PSES by-laws.

Prize Item:

IEEE PSES Certificate of Recognition (Certificate) - (Est. Cost - \$10)

The name of the Society shall appear prominently on the certificate associated with the award.

Frequency:

The above award is given once per year (annually), to those nonmembers who the Society wishes to recognize for their service to the Society. The Awards' Committee shall determine the number of Recognition Awards to be given each year, if any.

Funds:

Budgeted \$50 per annum. Financial arrangements for awards coordinated by the Awards Committee, VP - Member Services, and the Society Treasurer.

Nominee Solicitation:

- Requests for award nominations shall be sent to all PSES members via each Society Newsletter and via email at least quarterly.
- Award nominations shall be received by the Awards Committee no later than one month before the second quarter PSES Board of Directors meeting. Additional nominations may be provided no later than two weeks prior to the September Board of Directors Teleconference.
- The Awards Committee shall vote upon each nomination and forward the resulting nominations to the Board by the second quarter Board meeting with additional nominations no later than one week prior to the September Board of Directors Teleconference.

Awards Committee (See Appendix):

- The award committee chair shall exercise initiative in identifying potential candidates.

- All winners should be encouraged to attend the ISPCE for the formal presentation.

Schedule:

- All issues - Newsletter request for Award nominations.
- Quarterly – PSES Email request for Award nominations.
- May 15, August 15 – Deadline for Award Nominations.
- June 1, August 22– Refine all nomination information for presentation to the PSES Board.
- June PSES Board Meeting, September Board Teleconference – Board approval/disapproval of Award nominations.
- July 15, September 15 – Submit for creation of awards. Certificate letterhead may be obtained from IEEE headquarters that includes the IEEE and PSES logos.
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- September 25 – Receive certificates. Check all for accuracy.
- October - Awards presentation at the ISPCE.

Selection/Basis for Judging:

The awards program shall be administered through the awards committee under the responsibility of the VP – Member Services. In recognition of contributions to the Society, individuals who are not members of the IEEE Product Safety Engineering Society are eligible.

Presentation:

IEEE PSES awards are presented at the annual ISPCE.

Publicity:

- Winners' bios, photos and description of contribution in Conference Program.
- Winners' bios, photos and description of contribution in Society Newsletter follow-

Continued on Page 25

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2012 Israel Chapter Symposium Report

by Steli Loznen

The second Annual Symposium of the Israel IEEE-PSES Chapter was a great success with approximately 55 registrants attending a one-day technical session focusing on eight areas of Product Safety.

The 2012 Symposium was held at the Afeka-Tel Aviv Academic College of Engineering. The event was organized in conjunction with the Israel Chapter of the System Safety Society.

Sponsors of this event included Israel Testing Laboratories Ltd. (I.T.L – Product Testing), a leading Israeli Testing House, who provided logistic support, and Afeka -Tel Aviv University – Academic College of Engineering, one of the remarkable Israeli organization which strongly support IEEE activities.

The Symposium was honored by the presence of Elya Joffe, President of the IEEE-PSES. In his opening allocution, Mr. Joffe emphasized the IEEE-PSES role, fields of interest, achievements, trends, and future strategy. Learning about IEEE-PSES and its new trends was a great start to the Symposium.

The topics of the Symposium were:

- The future of product safety engineering;
- Product safety and ethical concerns;
- Role of the compliance specialist in a global company;
- Fire hazard and product safety: how standards protect;
- From product safety assessment to safety-critical-items;
- Localization and translation for documentation;
- Safety standards for Li-ion cells and batteries;
- The need for a product safety encyclopedia.

The technical program of the Symposium started

with a presentation titled, “The Future of Product Safety Engineering” by Steli Loznen, QA and Certification Manager at ITL (Product Testing) Ltd, Chair of the Israel IEEE-PSES Chapter, and Member of the IEEE-PSES BoD.

The presentation summarized several considerations about the future of this specific profession: Product Safety Engineer. The increase in quantity and complexity of equipment means an increase in the potential hazards which can endanger the health or safety of persons and/or property when installed, maintained, and used for its intended purpose.

In our opinion the engineering education programs should provide advice on how to minimize the safety risks when using the equipment, and on safety features to incorporate into its design. In order to achieve completeness there is a need to add principles of product safety to the engineering educational curriculum. What additionally must be transferred to future engineers is an overview of the role of standards and how they are developed and maintained. The product safety professional shall understand the process of determining what, where, when, why, and how something could happen. PSE becomes inherently a complex and judgmental process, having technical, legal, and ethical aspects. The objective is to balance the conflicting dimensions of risk, benefit, and cost in a manner deemed satisfactory to the product developer, customers, users, and other interested parties. A national and international effort to push for inclusion of PSE in University programs is needed. Product safety education should also be taught in business schools, which produce many of our business leaders. The product safety engineering future depends upon:

- Good academic preparation;
- More emphasis on the regulatory process;
- Building of a risk management culture.

“Elya Joffe, the President of IEEE-PSES, was the second presenter with the paper: “Product Safety and Ethical Concerns.” A synopsis follows:

The one most important duty of an engineer

Continued on Page 27

is to protect public safety and well-being. For ensuring a cost-effective, yet safety-minded design, a common approach is to carry out an ethical analysis. Every engineer will be faced with an ethical dilemma sometime during his working career. Engineers are also required to make ethical decisions every day during the regular course of engineering work. Personnel involved in development of safety-critical aspects of products should possess a balance of high-quality professional skills. Ultimately, it is unethical to develop safety-related systems without following the best practice available.

“Role of the Compliance Specialist in a Global Company” was the title of a paper presented by Danny Even Chen, Global Director ICAP Q&R at Philips (Israel).

The role of Medical Device Compliance Specialist in a global company is to assure that the medical device is developed, manufactured, and serviced according to the up-to-date regulations of the target markets. Since regulations governing medical devices are not harmonized globally and are being changed often, the role of the compliance specialist is very challenging. Today, there are more than 100 countries around the globe that have different regulations for medical devices. The role of the compliance specialist is to be the center of knowledge, expert in good document practices, good interrelationship, planning knowhow and educational skills. The presentation tried to explore the challenges that a medical device compliance specialist is facing in a global organization. Examples of specific regulations from various areas and new trends in preparation of the requested documentation were presented and discussed.

David Sommer, Director of Strategic Operations at Net-Translators Ltd., provided in his paper “Localization and Translation for Documentation” an overview of the processes entailed in creating documentation for non-English speaking markets. Preparatory steps required before considering translation, how to lay the groundwork for an effective translation infrastructure, and the steps required to ensure a repeatable process with high quality results were covered.

A description of the product safety assessment process (method and tools) used to identify safety critical items, was the subject of the presentation “From Product Safety Assessment to Safety-Critical-Items” by David Ben-Harosh, Corporate System Safety Chief Engineer at Elbit Systems Ltd. As part of this process, the Product Breakdown Structure (PBS), shall assist us to identify the physical components of the particular product. Based on the PBS, we start the Product Safety Assessment (top-down process) from the main product and continue it down its associated components, to carry out:

- Performance of the product functional decomposition;
- Assessment of the safety critical functions (SCF);
- Identification of the function elements such as hardware/software items;
- Allocation of the function hazard severity to the items categorized as safety critical item (SCI);
- Traceability and tracking of SCI.

“Safety Standards for Li-ion Cells and Batteries” by Alex Nimberger, PhD, consultant.

There are three main applications for Li-ion batteries: portable computers and cellular, electric vehicles (EV) and smart grid (SG).

At present, lithium-ion technology appears to be the leading candidate for rechargeable portable energy sources; its worldwide market is projected to reach as \$9 billion (USD) in annual sales by 2014. Lithium-ion battery technology has several benefits such as high number of charge /discharge cycles, excellent capacity retention (almost no maintenance needed), and a wide operating temperature range.

Lithium ion battery manufacturers and R&D groups continuously look forward to increasing the energy density (capacity) of batteries, but they have encountered three main challenges: safety, cost, and shelf life. The main issues

Continued on Page 28

covered in the presentation were: Li-ion and battery construction safety failure evaluation and the standards UN 38.3, UL 1642, UL 2054 and IEC 62133 requirements. A short reference was done for the cell manufacturing process and failures during the process, testing, and audit. Why are separate tests needed for cells and pack; why isn't the PTC inserted to the PCM; battery testing and evaluation; why do lithium batteries explode?

“Case study: The fire in Rehovot and Product Safety: How do Standards Protect?” by Ilan Cohen, Technical Director at ITL (Product Testing) Ltd.

Starting from a tragedy that happened one year ago in an Israeli town, Rehovot, when many casualties were caused by a fire generated by devices which bear marks of compliance with relevant standards, a case study was elaborated to analyze the meaning of a safety mark in the context of different standards and their applicability. It is not enough that a product was tested and marked for compliance with a specific standard if the conditions of use of such equipment in conjunction with other devices are not considered also. It is essential that designers understand the underlying principles of safety requirements in order that they can engineer safe equipment. These principles are not an alternative to the detailed requirements of the standards, but are intended to provide designers with an appreciation of the basis of these requirements. Where the equipment involves technologies and materials or methods of construction not specifically covered, the design of the equipment should provide a level of safety not less than those described in the principles of safety standards and the supporting documents or local regulations than may apply.

“The Need for a Product Safety Encyclopedia” by Steli Loznen, QA and Certification Manager at ITL (Product Testing) Ltd and Chair of the Israel IEEE-PSES Chapter.

This paper summarized the necessity for an integrated document which should include the existent information related to product safety engineering and ensure the unity and the application of requirements in a consistent manner.

It is necessary to initiate the construction of a “product safety encyclopedia,” which shall be intended for engineers and technicians involved in the design, manufacturing, and testing of electrical and electronic equipment. This encyclopedia shall cover the issues in a wide range of applied technologies and concepts that are necessary to allow the user to follow reasonable steps to reach a defined goal: safety of the products. The structure of such work was presented to demonstrate the capabilities of the proposed approach.

In his closing remarks Steli Loznen, the chair of the IEEE-PSES Israel Chapter and chair of the Symposium, congratulated and thanked the Chapter members whose hard work and dedication made it all happen. Special thanks were addressed to Elya Joffe for his participation and his valuable inputs.

Steli Loznen is chair of the Israel PSES chapter.

Photos from Israel Chapter Symposium



Photos from Vancouver Workshop



Future Directions - A World of Opportunity

I want to let you know about an IEEE initiative that is a great opportunity for the PSES. Together with Daniece Carpenter, Kevin Ravo, and Ken Kapur, I serve on the Product Safety Engineering sub-committee of the Consumer Electronics Society Future Directions (FD) Committee, which in turn is an extension of the IEEE Technical Activities Future Directions Committee. Our committee is looking at where consumer electronics are going. What types of products will consumers be using five, ten or fifteen years from now? You only have to consider consumer outlook ten or fifteen years ago to see what uncharted territory we are looking at for the future.

Tom Coughlin leads the effort. So far, we have identified the following areas to consider:

- Home Health
- Smart Vehicular Technology
- Consumer Smart Grid
- Sustainability in Consumer Electronics
- Consumer Robotics
- Clouds and Consumer Big Data
- Smart Imaging and Biometrics
- Home Fabrication
- Mobile Energy
- Future Education
- and, Product Safety Engineering

The purpose of the FD committee is to explore the current state of various technology areas in consumer electronics and to develop a model and plan for future developments with a focus on “meeting important social and human needs as well as to enable the individual pursuit of happiness.” On a more immediate – and perhaps on-going – basis, the purpose is to build communications about where technology and society are going. I see it as providing PSES with a platform to open communication with the various technologies, and to help build efficient, and safe implementations. Product safety engineering may often be in the background, reacting to new technology, but this offers us a chance to influence how this new world emerges.

As I’ve pondered this over the past few months, I have tried to look back at how technology has evolved in order to put FD into some sort of per-

spective. I have jotted some thoughts down, but they are for a future article. For now, I want to consider where I think consumer electronics might be going and how PSES can be involved. I want to solicit your comment and ideas.

As I see it – and as a starting point – the overriding trends/issues for consumer electronic will be

- security
- health/medical technologies
- geriatrics
- global warming/sustainability/environment
- education
- travel/tourism

The Consumer Electronics FD committee will be encouraging presentations and discussions at conference, workshops and chapter meetings. We will create a forum to discussing and recording ideas. And we will issue reports for IEEE to consider.

Hopefully, this will be a continuous and on-going process. After all, when won’t we have a Future Directions to ponder? Just look at the new world that the internet and smart phones have created. How have they changed YOUR life and the life of your loved ones? What will life be like fifteen years from now?

Please provide me (murlinm@ieee.org) or any of the other CE FD members with your ideas for where consumer electronics will be going, and how product safety and compliance engineering might have an impact. I would like to leave this wide open so that we cover as many of the trends as possible, and take full advantage of future opportunities. I would like to have a column in every PSES Newsletter. I will be sending out reminders, but please don’t wait! I would encourage every PSES member to let me know your thoughts, and to let me know when a new idea comes to you. What would you like to discuss at ISPCE 2013 in Austin and at ISPDE2014 in San Jose? Our IEEE society gives our profession the venue to develop concepts and to be heard.

**2014 IEEE International Symposium on Ethics in Engineering,
Science, and Technology, Ethics'2014
23-24 May, 2014**

Chicago Marriott O'Hare, Chicago, IL, USA

Ethics'2014 URL:

<http://sites.ieee.org/ethics-conference/>

Or Scan the QR Code:



**First Announcement and
Call for Papers**

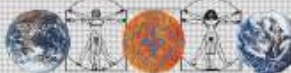
2014 IEEE INTERNATIONAL
SYMPOSIUM ON ETHICS
IN ENGINEERING, SCIENCE
AND TECHNOLOGY



ETHICS•2014

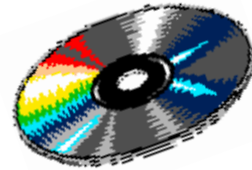
Deadline for Submission:

September 15, 2013



Past IEEE-PSES Symposium Records

CD Purchasing Information



SYMPOSIUM PAPERS ON CD:

The Product Safety Engineering Society continues to offer past symposium records for sale on CDs. The cost for the CD is \$35 plus shipping and handling for IEEE members; \$50 plus shipping and handling for non-IEEE members. At this time, check or money orders are the means for payment. Please provide the following information:

CDs to be shipped to- (Please print or type.)

Name: _____

Mailing address: _____

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Shipping and handling: \$5 per CD

Payment: Check or money order.

Make Check or money order to: "IEEE Product Safety Society"

Quantity: _____ x \$35 = _____ for IEEE members

Quantity: _____ x \$50 = _____ for non-IEEE members

Specify what years you would like (2004 through 2012 are currently available):

S&H: QTY _____ x \$5 = _____

Total = _____

Send payment to:

IEEE Product Safety Engineering Society
c/o Richard Georgerian, PSES Board of Directors
7103 Sioux Court
Longmont, CO 80504
U.S.A.

Depending on stock availability allow 2 to 3 weeks for delivery.

New PSES Members

From 29 March 2013 Through 10 June 2013

Our new members are located in the following countries: Australia, Brazil, Canada, China, Denmark, Japan, Lebanon, Malaysia, Oman, Panama, Spain, Switzerland, Taiwan, Thailand, United Kingdom, USA

Anthony J Robinson
Fabio Medeiros Nakamura
Eduardo Saldana
Ernest O Amaziro
Luc Germain
Richard A Jones
Sahith Moturu
Dennis Chen
Marcos C De Albuquerque
Ming Jiang
Peter Nellemann
Oletu Oletu
Fumito Kubota
Naohiko F Okuma
Mahmoud K Zeineddine
Teng-Beng Soon
Salim A Alzabidi
Abraham E Tulipano
Marta Perez
Andreas A Stucki
Chen Wei Liang
Kampree Thiravith
Eziaku A Nri
Anusha Jaiswal
Brenda Langston
Brian A Greaney
Byron Neville Burgess
Eric Steven Francis
James L Bender
Jason Harmon
Jean Zhou
Jeff Brandt
Michael C Sullivan
Nicole Alford
Robert L Seitz
Robert Paul Egemo
Tyrone J Mellon Jr
W Richard Gartman
William Mills

Notice IEEE Life Members Needed

As IEEE Life members, you have valuable knowledge and experience to share. Why not use this experience to mentor an individual new to the engineering and technology professions? This mentoring partnership provides an opportunity to give back to the profession, as well as grow your personal network and create a two-way learning opportunity with another professional.

IEEE is in the process of launching a new mentoring service called IEEE MentorCentre. This service is for IEEE members, graduate student level or higher, to serve as mentors and for mentees to find the right professional to help them with a technical or career goal. This service will replace the current Mentoring Connection.

We need you! IEEE would like to provide a special opportunity to IEEE Life Members to sign up as mentors before IEEE MentorCentre goes live in late June. To order to sign up, please e-mail ieementoring@ieee.org and

specify that you would like to join the new IEEE MentorCentre program as a mentor. We will add you into the first group of mentors to join the new program. When the program launches, you will be asked to complete a profile of your technical interests, background, and experience, so that mentees can find a mentor that best matches their interest.

Are you ready to be a Mentor?

- Would you listen to your Mentee's needs and concerns?
- Would you help your Mentee define career, educational, and other professional goals?
- Would you openly share your professional and technical knowledge and skills?
- Would you offer constructive criticism to help your Mentee learn and progress?

If so, **sign up by e-mailing ieementoring@ieee.org** or contacting PSES Mentoring Coordinator Doug Nix (dnix@mac.com) before **June 26, 2012**.

The Product Safety Engineering Newsletter is published quarterly during the last month of each calendar quarter. The following deadlines are necessary in order to meet that schedule.

Closing dates for submitted articles:

1Q issue: February 1
2Q issue: May 1
3Q issue: August 1
4Q issue: November 1

Closing dates for news items:

1Q issue: February 15
2Q issue: May 15
3Q issue: August 15
4Q issue: November 15

Closing dates for advertising:

1Q issue: February 15
2Q issue: May 15
3Q issue: August 15
4Q issue: November 15

Institutional Listings

We invite applications for Institutional Listings from firms interested in the product safety field. An Institutional Listing recognizes contributions to support publication of the IEEE Product Safety Engineering Newsletter. To place ad with us, please contact Jim Bacher at j.bacher@ieee.org

The Product Safety Engineering Society will accept advertisements for employment and place looking for work ads on our web page. Please contact Dan Roman for details at dan.roman@ieee.org .

The
Product
Safety
Engineering
Newsletter

Gary Weidner
GW Technical Services Inc.
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Dubuque, IA 52001-4125

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