The P**roduct** S**afety** E**ngineering** N**ewsletter**

IEEE | **PSES** Product Safety Engineering Society

What's Inside

Vol. 10, No. 1 - March 2014

President's Message

Hello Fellow PSES Members!

We are now well into 2014 and believe it or not we are in the home stretch to the 2014 Symposium! It seems like just yesterday we were at the 2013 Symposium—indeed it was just in October. <u>New for this year, the Symposium is in May</u>! Please see the other columns in this Newsletter, pages 16 and 17, the Symposium Website and the special Symposium Newsletter for more information.

One of the areas I wanted to focus on during my term as President is Member Involvement. The PSES is its members and together we form a group with common interests and a lot of experience and knowledge to share with each other within as well as outside our Society. There are so many ways to get involved with the Society. The Symposium is a good example.

Here are some of the opportunities:

- Overall Planning Committee
- Technical Program Committee
- Marketing Committee
- Paper Presentations
- Local Symposium Support
- Session Moderators
- Track Chairs
- See the Symposium website at: http://www.psessymposium.org/

There are also other ways to get involved:
At the Local Chapter Level:

- Attend meetings
- Present at meetings
- Become a chapter officer
- See the Chapters Page of our Website at: http://ewh.ieee.org/soc/pses/chapters.html
- Anyone interested in starting a Virtual Chapter for those not near one?

The Product Safety Engineering Newsletter

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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

At the Board of Directors Level

- Become a Director at Large
- Become an officer
- Get involved with a committee
- See the BOD Page on our Website at: http://ewh.ieee.org/soc/pses/bod.html

Some of these activities require more of a time commitment than others. Trying out one of the focused, short term opportunities is a great way to see if you like it, meet some really interesting people and see what else you might want to get involved with.

I can't say that we have been really great at publicizing related volunteer position openings in the past. The Board has been discussing ways to do this better, through the Newsletter, the Website, the Chapters and TCs with direct communications to all. We will also have a table at the Symposium with more information about various opportunities and open positions, so please stop by and talk to one of the Board members to learn more.

I encourage you to give it a try—as I have said previously, getting involved in these types of opportunities has been a great learning experience for me and a way to really explore the PSES, IEEE in general and see where else I might like to get involved.

Sincerely,

Kevin Ravo

Founders' Awards Gala – Starting our Second Decade

This year's ISPCE is our eleventh annual conference, the start of a new decade! We will have a very special Awards Ceremony to honor all those who have helped to create and build our IEEE society. We'll recognize our founders going back to prehistory: the fifteen years the EMC Society TC-8 represented our efforts to build an IEEE society for product safety and compliance engineers, managers and administrators. It has taken a lot of folks over 25 years to get us to where we are now.

Too often it has been said that we only have a handful of leaders. That's wrong! As you will see at the ceremony, it really has taken an impressive group to create and build the IEEE PSES.

To conserve conference time, we will move through the ceremony quickly. There are so many to honor! But there will be plenty of time to mix and mingle with as many of our Founders as you are likely to find in one place. Other, older IEEE societies look back fondly to their original leaders, most of whom are now gone. This will be a unique opportunity to be part of our history. See you in San José!

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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
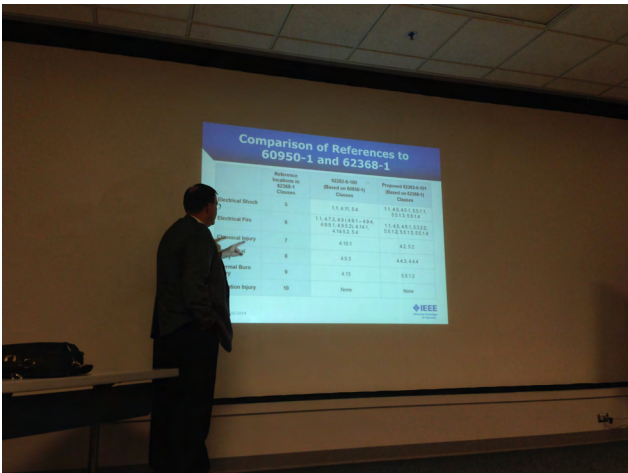
Central Texas

Meeting Date: 2/18/2014

Topic: "3D Printing - What it is and how it's done!"

Speaker: Brad Scoggins - Austin Manufacturing Services

Meeting opened with general announcements concerning the 2014 Product Safety Symposium, as well as other regular business. Since there were many new attendees, personal introductions were made all around the room. Afterwards, Brad Scoggins was introduced. He presented the 3D Printing topic, covering many aspects of the printer technology as it is today and where it may be headed in the future. He mentioned websites to the group that offer "canned" 3D items to print. Brad also answered many questions about the printers now available, their pricing and capabilities. After ending his presentation he took several questions from the group.

Chicago

The Chicago Chapter kicked off our year with a Holiday Party in January. We enjoyed hors d'oeuvres and drinks at the Ram Restaurant & Brewery in Wheeling, IL. Thanks to the funding by the the IEEE Chicago Section, a nice evening of networking, getting aquatinted and relaxing was enjoyed by all.

UL has graciously agreed to host the venue for our meetings this year again. Our first meeting was March 26th. Harry Jones presented on the International requirements for Micro Fuel Cells. The technology is evolving and Harry, as the Convener of IEC TC105-WG8, was able to provide details on the technologies currently being considered and the requirements for compliance to IEC 62282-6-100 and it's various parts. UL hosted the venue and also hosted the sandwiches and drinks. Thanks again to UL and Harry for a great presentation. The event brought over 20 people in attendance, which included 5 students from IIT. Several PDHs were also able to be provided and we'll continue this effort for our PE members.

The 2015 Symposium will be held in Chicago and the Steering committee held it's initial meeting discussing the venue, theme and goals for the event. We're excited about having the Symposium back in Chicago and plan to have another great event. Some volunteers are still needed. If you'd like to be part of the Symposium contact John Allen - jrallen@productsafetyinc.com.

2013 Israel Chapter Symposium Report

by Steli Loznen, chair of Israel PSES chapter

The third Annual Symposium of Israel IEEE-PSES Chapter was a great success with approx. 45 registrants attending 1 day Mini-Symposium focusing

PSES Help Wanted

PSES members wanted to volunteer for small but important roles within the PSES organization. No in-person meetings required. E-mail and conference calls only. All it takes is a couple of hours a month to help improve and grow our organization.

- PSES Global Outreach Rep: Help establish the PSES Country Reps - the country reps will serve as a leader within each foreign country that currently has PSES members (make contact with our foreign membership). Work with the Chapter Coordinator to help the Country Reps start local chapters.

- PSES Strategic Partner Rep: Make contact with other societies and organizations that have Product Safety interest.

Work to help integrate our safety content into their societies and organizations (i.e. PSES has partnered with the Consumer Electronics Society).

- PSES PR Rep: Prepare and issue press releases regarding our Symposium and other special events and activities. Invite news organizations and other interested parties to cover our events.

- PSES Marketing Team: Team members participate in plan review and refinement, and each member leads 1 item within the plan (work at your pace - pick an area that interests you - no marketing experience or background needed - many tasks are technically oriented that serve marketing purposes).

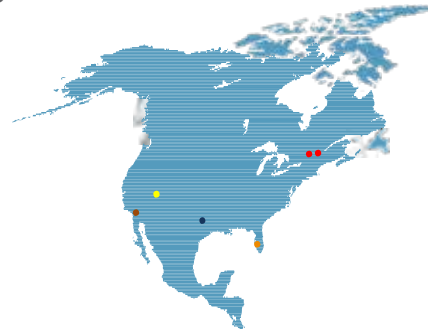For more details, please contact Bill Bisenius: billb@productsafeT.com; 919-469-9434

in Product Safety Requirements for Medical Electrical Equipment.

The 2013 Symposium was held in 26 December 2013 at the Afeka-Tel Aviv Academic College of Engineering.

Sponsor of this event was Afeka -Tel Aviv Academic College of Engineering one of the remarkable Israeli academic organization which strongly support the IEEE activities.

The Symposium was honored by the presence of Elya Joffe the Past-President of IEEE-PSES and Dr. Anat Ratnovsky - Head of Medical Engineering department- Afeka-Tel Aviv Academic College of Engineering.

Elya Joffe in his opening allocution emphasizes the IEEE-PSES role, fields of interest, achievements, trends and the future strategy. Learning about IEEE-PSES and their new trends was a great start to the Symposium.

Dr. Anat Ratnovski presented to the assistance, formed by representatives of Israeli Medical Electrical Equipment manufacturers, the Program of Medical Engineering department at Afeka-Tel Aviv Academic College of Engineering specifying the courses of Bioengineering Instrumentation which includes few lecturers on Product Safety and Compliance Regulatory aspects.

The technical program of the Symposium was presented by **Steli Loznen, SM-IEEE** – QA and Certification Manager at ITL (Product Testing) Ltd, Chair of Israel IEEE-PSES Chapter and Member of IEEE-PSES BoD. The title was: "**The impact**

of the standard IEC 60601—1 third edition and Amendment 1 on the design and manufacturing of Medical Electrical Equipment (MEE)"

The lecturer which is also Convener of IEC/TC62/ SC62A/MT29, Project Leader of IEC/TR 62354 „General Testing Procedures for Medical Electrical Equipment", Member of IECEE - ETF for Risk Management on Medical Electrical Equipment and Lead Auditor IECEE, summarizes during the 6 hours the main changes on the actual standardization of MEE and the impact of these in design, manufacturing and post-marketing of MEE. Guidance on how to minimize the safety risks when design, manufacture and use the equipment and on safety features to incorporate into its design was provided.

The structure of the presentation was:

- With what deal the Product Safety standards?
- IEC 60601-1 series history and structure
- General, collateral and particular standards
- From second edition to third edition of IEC 60601-1
- The philosophy of the third edition of IEC 60601-1
- What mean Basic Safety ?
- New issues in the third edition of IEC 60601-1
- How deal third edition of IEC 60601-1 with software requirements?
- New definitions: Applied Part, Legibility, Touch current, Expected service life, High Integrity components, etc.

- Risk Management process applied to MEE

- How to avoid confusions between FMEA and Risk Management Process?

- Risk Management File

- Essential Performance

- Identifying Essential Performance

- Usability of MEE

- Insulation coordination

- Mechanical Hazards in third edition of IEC 60601-1

- Alternative risk control measures or test methods

- Labeling

- Testing

- Global implementation of IEC 60601-1 third edition

- News in Amendment 1 of IEC 60601-1 third edition

As Conclusions was specified the following:

- Manufacturer shall establish a Risk Management Process based on ISO 14971 and an Usability Proccess based on IEC 62366;

- It is requested identification of Essential Performances;

- Application of 3rd ed request referece to the Collaterals;

- A clear limitation between patient parts and operator parts was done;

- An alignment with Regulatory requirements (CE marking, FDA and OSHA requirements) is included in the standard;

- Amendment 1 clarify the "gray" areas (implementation of Risk Management proccess, Essential Performance).

An open discussion session completes the interesting IEEE-PSES Israeli Chapter Symposium 2013.

The discussions were focused on the need that Product Safety issues to be included in the Academic Syllabus of Engineering Universities.

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. Additionally must to be transfered to the future engineers an owerview of the role of standards and how they are developed and maintained. The Product Safety professional shall understood the process of determining what, where, when, why and how something could happen. PSE become 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.Need a national and international effort to push for inclusion of PSE in University programs. Product Safety education should also be taught in business schools, schools that produce many of our business leaders.

The success of this year IEEE-PSES Israeli Chapter Symposium, justify the option to replace the series of diversified subjects presentations with a structured Symposium in a dedicated issue.
Is the intention of Israeli Chapter to alternate the both organizational options for the future events. In his closing intervention Steli Loznen, the chair of the IEEE-PSES Israel Chapter and chair of the Symposium, congratulate and thanks to the Chapter members whose hard work and dedication made it all happen. Special thanks were forwarded to Afeka-Tel Aviv Academic College of Engineering and especially to his President Prof. Mordechai (Moti) Sokolov for his valuable and constant support of IEEE – PSES activities in Israel.

2013 PSES SAN DIEGO CHAPTER ACTIVITIES SUMMARY

Since January 2012 The San Diego Chapter home base was moved from Advanced Test Equipment Rentals' headquarters to Hewlett-Packard facility located at 16399 West Bernardo Dr., San Diego, CA with satellite meetings at the other locations.

- January 8, 2013 meeting had 14 attendees. Mr. William Bouffard a retired management executive and accomplished leader representative agency, presented information from his book, Best Business Book at The 2012 Southern California Book Festival "Puttin' Cologne on The Rickshaw".
- February 26, 2013 joined meeting with Orange County Chapter had 28 attendees and was hosted by Nemko USA, Inc. at their facility in Carlsbad, CA. Ms. Cathy Francis of SPHR at Karacal Communications was "Unlocking the Secrets to Getting Your Resume Noticed".
- March 12, 2013 meeting had 13 attendees. Mr. Jay Moulton the owner of RF Exposure Lab, a privately held SAR testing facility in Southern California talked about "RF Exposure Limits and Testing Requirements".
- April 9, 2013 meeting had 12 attendees. Dr. Eddie Forouzan President of ARTIN Engineering talked about "Sensitivities of a Typical Electrochemical Based Energy Storage Devices".
- May 14, 2013 meeting had 16 attendees. Mr. Mark S. Frankfurth, regulatory manager at Cymer Inc. presented "Intro to the Machinery Directive & CE Mark – Part 2 ".
- June 11, 2013 meeting had 19 attendees. Mr. William Wenthold, West Regional Manager (USA) for Safety Testing of TÜV SÜD America provided "General Energy Efficiency Update - Green Services with focus on EU".
- July 9, 2013 meeting had 12 attendees. Dr. Bharat Singh of Telecom Yogi, Inc. talked about "Telecom Regulatory Requirements and Fax Performance Tests".
- August 13, 2013 meeting had 12 attendees. Mr. Scott Smith, P.E. of UL LLC talked about "Audio/Video Flat Panel Display Mounts - UL 1678 & UL 2442".
- September 10, 2013 meeting had 13 attendees. Mr. Bansi Patel of Hewlett-Packard talked about "Solar Photovoltaic (PV) systems for

Past-President's Message

Senior Membership: Recognition of your Career Achievements

Elya B. Joffe, Member of the PSES BoD, eb.joffe@ieee.org

Are YOU a Senior Member? Why not?

It's easy to apply for and the requirements are not too difficult to meet. You must have been in an IEEE-related field for 10 years, with significant accomplishment during five of those years. But wait!

- Did you know that you get three years credit for a BS, four for a MS, and five for a PhD? Did you know that you can nominate yourself?

- Did you know that it can all be done on-line?

- Did you know that in addition to a handsome plaque, and the ability to enter "IEEE Senior Member" on an application, you receive a US$25.00, one-year discount for membership in any other IEEE Society?

What are you waiting for?

Introduction

In an old joke one person asks his friend– "*why do you always answer a question by a question*?" and the second replied: "*Why shouldn't I*?"

Dozens (if not more) of PSES members are eligible for elevation to Senior Member grade, and yet, when you ask them "why are you not Senior members" their reply is" Why should we?"

Indeed, why should you want to be a senior member of the IEEE? Doesn't that designation indicate I'm getting old? Do I have to be a professor to qualify? Must I pass some kind of exam? How much more will it cost me? These are just some of the frequently asked questions posed by members inquiring about what it takes to become an IEEE Senior Member.

The grade of Senior Member is the highest for which application may be made and shall require experience reflecting professional maturity of the applicant. For elevation to the Senior Member grade, the candidate must be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields.

"Senior" refers to professional experience, not age, and you do not need to be a "senior citizen" or of retirement age to qualify as a Senior Member. Although the term "senior" implies one must be of a certain age, several Senior Members are just in their twenties!
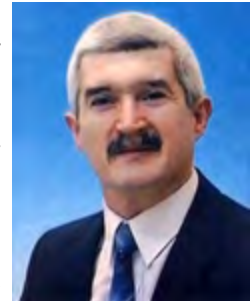
Furthermore, to be eligible to the Senior Member grade, it is <u>not</u> mandatory that you be a professor, or even in academia. Only 21% of about 26,000 IEEE Senior Members are associated with academia, while 79% work in industry and or government. Most Senior Members actually hold applications-oriented careers, working in all levels and areas of electric and electronic engineering.

Why should YOU want to be a Senior Member

The Senior Member grade constitutes a professional recognition of your peers for technical and professional excellence. Earning the Senior Member Grade is an indication of your accomplishments in your professional career and will promote you to your company and profession.

Indeed, the IEEE "Senior Member" grade is an elite status of membership in the IEEE. Only about **7.5% of the of the 367,000** IEEE higher-grade members hold this grade and enjoy this international recognition

Earning the Senior Membership Grade is therefore, by itself, a significant personal achievement. From my personal experience, it helps to provide

Continued from Page 10

credibility in a day and age where everyone is a self-proclaimed "expert" or "engineering specialist". In many countries and regions around the World, an IEEE Senior Member actually carries a certain status which may be useful to furthering your career. As a Senior Member, you may even include this grade on your business card.

If you are hope for further advancement in your IEEE Career, and possibly strive for the grade of Fellow of the IEEE, note that one must be a Senior Member to be considered for election to Fellow Member grade. Senior Members can also serve as References for Senior Member applicants. Senior Members may also be invited to be on the panel to review Senior Member applications.

Why does the IEEE want to promote Senior Membership, or, what's in it for IEEE?

The percent and number of IEEE Senior Members reflects on the competence and prestige of IEEE, its products and services. Higher grade members of the IEEE constitute the foundation for all volunteer activities of the IEEE. Many Executive Volunteer offices require that a member hold Senior Member grade. Senior Members serve, therefore, in most leadership positions on a volunteer basis and therefore, a larger number of Senior Members will encourage more members to become further involved in the IEEE leadership and professional activities. Senior members tend to belong to one or more IEEE Societies, in times where Society membership is, surprisingly, declining. Finally, a larger number of Senior Members enhances the image of IEEE members as professionals to industry and public and encourages others to enter this profession.

Actually, IEEE estimates that the number of members qualified to hold Senior Member grade is at least double the current number of Senior Members.

Finally, **Senior Membership in IEEE is Key to Retention:** Senior Members have a retention rate of 98%. Also, a greater percentage of Senior Members belongs to more IEEE Societies than do other IEEE member grades.

Eligibility for the Senior Member Grade

IEEE Bylaw I-105.3 sets forth the criteria for elevation to Senior Member grade, as follows:

"… *a candidate shall be an engineer, scientist, educator, technical executive or originator in IEEE-designated fields. The candidate shall have been in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years*."

Such "significant performance" may include one or more of the following:

- Substantial engineering responsibility or achievement
- Publication of engineering or scientific papers, books, or inventions
- Technical direction or management of important scientific or engineering work with evidence of accomplishment
- Recognized contributions to the welfare of the scientific or engineering profession
- Development or furtherance of important scientific or engineering courses in a program on the "reference list of educational programs" (REP list)
- Contributions equivalent to those of the above in areas such as technical editing, patent prosecution, or patent law, provided these contributions serve to advance progress substantially in IEEE-designated fields.

In addition, candidates for Senior Member grade must supply three references from current IEEE members holding the grade of Fellow, Senior Member, or Honorary Member.

There is <u>no cost</u> to convert to a Senior Member Best of all and there is also increase in your IEEE membership dues.. While many other professional societies charge higher dues for higher membership grades, the IEEE does not. There is no increase in cost - only an increase in the IEEE's recognition of your technical and professional accomplishments. You'll also receive

Special Free Offer

Starting this past January, PSES members began receiving the award winning CE Magazine free of charge. CE Magazine is published by the IEEE Consumer Electronics Society and its mission is to educate, inform, and entertain members on technology, events, industry news, and general topics. This trial offer is for all of 2014.

The Product Safety Engineering Society and Consumer Electronics Society are considering an arrangement that would put feature technical articles relating to Product Safety and Compliance Engineering in CE Magazine. We would appreciate your feedback once you begin receiving the magazine. You can contact Dan Roman (dan.roman@ieee.org) or Kevin Ravo (Kevin.L.Ravo@ul.com).

PSES Jobs Web Page

PSES has a web page for employers and job seekers at http://www.ieee-pses.org/jobs.html. Employers may post jobs seeking regulatory or compliance-related personnel free of charge. Job postings will remain on this web site for a period of 6 months but may be removed earlier by request of the employer.

Job postings **must** include the name and location of the employer <u>and</u> a method for an applicant to respond to the listing. We will **not** accept or post job listings from professional recruitment firms or job placement services working on behalf of a client that is not identified, and we will not include job listings for positions that require the candidate to pay a placement fee.

See http://www.ieee-pses.org/jobs.html for full posting policy and how to submit requests.

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".

Advantages of Membership in the IEEE PSES

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.

News and Notes

Globespace 2014 dates have been changed

Elya B. Joffe, Symposium General Chair, has announced that the dates of the 2014 Global Symposium on EMC, Safety and Product Compliance Engineering (GLOBESPACE2014) have been changed from 3–6 March, 2014 to 1-4 December 2014.

Says Mr. Joffe, "The original symposium schedule did not allow sufficient time for paper submissions, and due to many requests to extend the paper submission period, the Technical Program committee has agreed to move to the later date in 2014.

"By holding GLOBESPACE2014 in December we can provide authors with the time they require and also ensure that this does not affect their potential submissions for other related events taking place over the course of the year."

The IEEE Product Safety Engineering Society is a technical co-sponsor of the GLOBESPACE2014 Symposium. More information will soon be available at www.globespace.org.

Risk Assessment/Hazard Analysis Workshop offered
The Saint Louis University John Cook School of Business Center for Supply Chain Management, In cooperation with ADK Information Services, LLC will offer a two-day workshop on risk assessment/hazard analysis February 4–5, 2014. Since recent trends at the CPSC include requiring a formal compliance plan as part of some civil penalty settlement agreements, and based on recent interest within the Commission to include requiring compliance plans as part of voluntary product recall corrective action plans in the future, this workshop may be of special interest at this time.

Course outline:
All sessions are held at Saint Louis University's John Cook School of Business. Time allocations are approximate.
Day I:
1. **Safety Process Overview:** This section will review the Risk Equation and its application to business. Risk assessment tools and processes will be studied as well as the application of risk assessment techniques to current business models. (*1.5 hours*)
2. **Data Analysis:** Analysis of data as part of risk assessment will be discussed. Sources of data include product recall announcements, CPSC injury data, and other data sources. (*0.5 hour*)
3. **Foreseeable Use:** Definitions from a legal and practical viewpoint will be introduced, as well as how to approach foreseeable misuse. Product attractiveness and characteristics as well as the role of caregiver and vigilance will be considered, as well as the application of Foreseeable Use to

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risk assessment processes. A short hands-on workshop is included in this module. (*2 hours*)

4. **Hazard identification I:** Hazard identification process based on asphyxiation from airway obstruction. Includes anatomy review, injury and fatality data sources, mechanism of injury and models for prevention. A short hands-on workshop is included in this module. (*2 hours*)

5. **Hazard identification II:** Hazard identification process based on asphyxiation from suffocation, strangulation and drowning. Includes anatomy review and discussion of injury and fatality data sources. Describes the mechanism of injury and models for prevention. (*1 hour*)

Day II:

1. **Hazard Identification III:** Hazard identification process based on physical/mechanical hazards. Includes kinetic energy hazards (e.g. impact, falls, explosion), mechanical hazards (e.g. laceration, puncture, entrapment, pinching, strain) and other physical hazard types (e.g. sound hazards). A short hands-on workshop is included in this module. (*2.5 hours*)

2. **Hazard Identification IV:** Hazard identification process based on other physical effects. Includes thermal effects (flammability and fires, thermal burns and other temperature effects), electrical hazards and radiation (e.g. light hazard). (*1 hour*)

3. **Hazard Identification V:** Hazard identification process based on chemical hazards. Includes discussion on toxicity and other chemical effects. (*1 hour*)

4. **Testing and Production Control:** Discussion of basic compliance testing and how to incorporate higher-level test methods like Test to Failure in risk management strategies. (*1 hour*)

5. **Supply chain management:** Role of the supply chain in the design and production of products. How production issues, materials, and logistics factor into hazard analysis. (*1.5 hours*)

To register of for more information, visit education.adksafetyinfo.com or call 314-977-3617.

The following future courses are planned:
Product Safety Management (revised): April 22 & 23
Regulations & Compliance: May 21 & 22
Product Safety Program Development: June 25-26
Advanced Product Safety Management: Sept. 22-26

Compliance News Shorts
March, 2014

China – Wireless Module Requirements

The China Ministry of Information Industry & Technology (CMII) issued a notice in January, 2014 with regulations for the SRRC approval for non-independently operated wireless transmitting modules. The regulation requires that the modules have SRRC Type Approval and be marked with the CMII ID number.

Independent devices integrated in these modules will need a statement on the product label or in the user manual as follows is Simplified Chinese:

"The device contains type approved wireless transmitting module with CMII ID xxxxyyzzzz"
Independent devices such as computers, printers and appliances will apply for SRRC Type approval. If the module is approved, only some radiation testing will be required. The device approval certificate will show the CMII ID number for the module.

We invite you to the center of where it all began – Silicon Valley! Not only is this the global center of innovation and high tech, but it is also right in the middle of California's most vibrant recreation, entertainment, and education centers.

We have something for everyone - Just in San Jose alone there is a lot to do and see: **View it all here**

Of course a couple of favorites for us techies are:
Computer History Museum
The Tech Museum of Innovation
And within a short drive there are:
San Francisco – Theater, Museums, Cable Cars!
Santa Cruz – Beach/Boardwalk
Monterey – Cannery Row, Monterey Bay Aquarium, World Class Golfing – Pebble Beach, Spyglass
Napa – Wine Country
Sierra Nevada – Lake Tahoe, Yosemite

Venue - The Symposium will be held at the DoubleTree by Hilton San Jose which is a great venue close to the airport and public transportation - right in the middle of it all!

New Date - We have moved the symposium date to earlier in the year for 2014 based on requests from attendees to make it easier for more to attend, so we hope to see more of your there along with a larger number of exhibitors and papers/presentations (see our call for papers and stay tuned for more to come).

Reservations - To make your hotel reservations, go to: https://resweb.passkey.com/go/IEEEMAY2014.

Exhibitors - We welcome Exhibitors to be a part of the 2014 Symposium in San Jose, California. If you have a related product or service and are interested in becoming an Exhibitor, please see the Exhibitor Contract at: http://www.psessymposium.org/sites/default/files/PSES%202014%20Exhibitor%20Contract_0.pdf. Note – we will have more time available for access to the Exhibitors this year as well as private meeting capabilities.

Patrons - We also welcome those who are interested in supporting the event as a Parton – there are many opportunities and benefits to support and be recognized. Please see the Patronship Packages Form at:
http://www.psessymposium.org/sites/default/files/PSES%202014%20Sponsor%20Form_form_field.pdf.

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

<u>Save the Date</u> – <u>Note New Time of Year!!!</u>   **May 5 – 7, 2014**

See Call for Papers on Page 26!

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

China – 4G Mobile Phone Certification

Bulletin No. 33, published by CNCA on 23 December 2013, declares that 4G mobile phones are now included in the scope of mandatory CCC Certification. The new test standard, YD/T2583.14-2013 has been added to the existing implementation rule, CNCA-08C-031:2007. Certificates covering 4G phones were previously issued with testing to 2G and 3G standards. Certificates must be updated by 1 July 2014.

South Korea – Noise Level Requirements

The Ministry of Environment, according to Article 44 of the Korean Noise and Vibration Control Act, announces an enforcement of Regulation 58, effective 1 January 2014.

This, regulation applies to portable music players provided with earphones, such as a MP3 player or Cell/Smart phone with music files. A maximum permissible nose level of 100dB is allowed by test to the S. Korean standard *KS C 5503 (Annex 1), Mini headphones and earphones (2013),* equivalent to EU standard EN 50332.

Malaysia – New Products added to List for Mandatory Certification

Malaysia released an updated list for Mandatory Certification of Electrical Equipment in July, 2013 with market surveillance beginning on 1 January 2014.

The now items on the list include a travel adapter, ceiling lamp holders and various luminaries, some household appliances, audio/video recorders, and computer adapter/charger, power supplies, and IT & office products The complete list may be found at https://members.wto.org/crnattachments/2013/tbt/MYS/13_1791_00_e.pdf

Jordan – CE Marking Introduction

Jordan is aligning the national regulations for conformity assessment with those of the European Union. Luminaires will lead the first alignment, with an effective date in June 2014. Additional regulations are under study regarding the economic, social and environmental impact. Information on horizontal and vertical legislation is available at the website of the Jordan Standards and Metrology Organization at http://www.jsmo.gov.jo/ .

Environmental Directions

European Union – Battery Directive

The new Directive 2013/56/EU amends Directive 2066/66/EC, for batteries and accumulators containing cadmium for use in cordless power tools, and for button cells with mercury content and repealing Commission Decision 2009/603/EC. With suitable alternatives now on the market, the intention is to reduce the amount of cadmium and mercury released in waste products by prohibiting these substances for use. The existing exemption for cordless power tool batteries and accumulators will apply until 31 December 2016 when a 0.002% limit is introduced.

As of 1 October 2015, mercury button cells must comply with a 0.0005% limit for mercury. Products placed on the market before these dates may continue to be sold.

Hong Kong – Toy Regulation

Recently published *Toys and Children's Products Safety (Additional Safety Standards or Requirements)* Regulation from the Hong Kong Commerce and Economic Development Bureau will come into force on 1 July 2014. A new phthalate requirement is included for toys and childcare products

Scope	Requirement
Toy or children's product	≤ 0.1% sum of DEHP, DBP and BBP of the total weight of all the plasticized materials
Toy or children's product capable of being entirely placed into mouth of child under 4 years of age	≤ 0.1% sum of DINP, DIDP and DNOP of the total weight of all the plasticized materials
Toy or children's product capable of being partly (one part) placed into the mouth of child under 4 years of age	≤ 0.1% sum of DINP, DIDP and DNOP of the total weight of the plasticized materials in that part
Toy or children's product capable of being partly (more than one part) placed into the mouth of child under 4 years of age	≤ 0.1% sum of DINP, DIDP and DNOP of the total weight of the plasticized materials in those parts

Note: Inaccessible component part of a toy or children's product is not to be taken into account to determine the total weight of phthalates or the plasticized materials.

Marking requirements including identification and bilingual warning or cautions will be continued.

News to Know

SESEI – The Seconded European Standardization Expert in India
Five European standardization bodies and authorities have cooperated in setting up the three year SESEI project. Based in New Delhi, the project mission is to promote cooperation between India and Europe, focusing on standardization activities. More information on the project is available at http://www.cencenelec.eu/News/Videos/Pages/vo-2013-001.aspx

New European Union Blue Guide Issued
The Blue Guide (intended to contribute to a better understanding of internal market legislation on industrial products) has been updated and issued as Blue Guide 2014. It can be found at: http://ec.europa.eu/enterprise/policies/single-market-goods/documents/internal-market-for-products/new-legislative-framework/index_en.htm#h2-3

UWM courses Department of Engineering Professional Development scheduled
The University of Wisconsin-Madison Department of Engineering Professional Development will offer two courses of interest to PSES members:

Using Warnings and Instructions to Increase Safety and Reduce Liability (PDH/CEU: 15/1.5)
June 24-26, 2014 in Madison, Wisconsin http://epd.engr.wisc.edu/emaP390
• Increase the safety of your product, while decreasing its liability exposure;
• Review factors useful in evaluating effective warnings and instructions;
• Examine the current legal duty to warn and instruct;
• Learn how to test and revise warnings and instructions;
• Learn the resources and techniques available to help write clearer instructions and warnings;
• Take part in the Warning of the Year Award program.

26th Annual Product Liability Conference (PDH/CEU: 15/1.5)
September 23-25, 2014 in Madison, Wisconsin http://epd.engr.wisc.edu/emaP411

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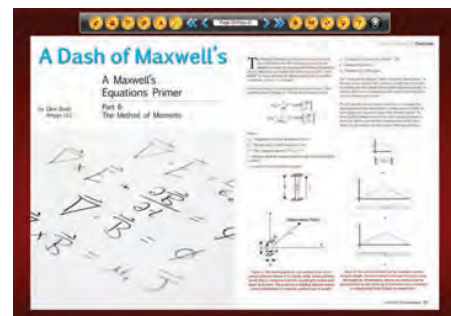News, Articles, and Ideas on EMC, Product Safety, Designing for Compliance and Regulatory Updates.

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- Learn helpful and valuable insight to improve your product safety decision making from practicing professionals;
- Benefit from a product safety and liability prevention series course from the University of Wisconsin Madison - a leader in the field.

For more information, call 800-462-0876 or follow the above two links. Mention UW Code #W27.

Saint Louis University announces product safety and compliance courses

Two upcoming Saint Louis University courses will offer timely insight in current trends and issues in the product safety world:

The Product Safety Management course will open with a workshop on April 21 and 22. Carol Kraege, Toxic Policy Coordinator from Washington State will provide insight into state policies on chemicals, how these policies have evolved, and what you might expect in the future. Former Commissioner Nancy Nord will share observations on the CPSC during her term on the Commission (2005-2013), including her tenure as Acting Chairman (2006-2009). Other instructors include Mike Brown on compliance under CPSIA; UL's Sue DeRagon on risk assessment; Daniel Stool of Intertek on hazard analysis; John Barrera of The Walt Disney Company and a graduate of ours, addressing the growing area of licensing and product safety management; Belinda May of Dentons, another of our graduates, discussing strategies in dealing with regulatory agencies. A full slate of topics will be presented during the webinar portion of the course (May–July). Our guest speaker at the closing workshop (August 5–6) is CPSC Commissioner Marietta Robinson. The deadline for scholarship applications is March 29.

The inaugural Regulatory Compliance Workshop, scheduled for May 21-22 at the Center for Supply Chain Management Studies, will provide relevant information at a time of dramatic change in the compliance area domesticlly and internationally. Cheryl Falvey, General Counsel of the CPSC from 2008-2012, will offer personal reflections on the CPSIA and the outlook for regulatory management at the agency. Eric Rubel, who served as General Counsel from 1994-1997 has assembled a panel that will integrate decision-making benchmarks while tracing the life cycle of a product at risk. The Falvey/Rubel brown-bag luncheon conversation on May 21, is a not-to-be-missed conversation between two of the leading figures of CPSC regulatory law in the past 25 years. Other instructors include: Chuck Samuels; Mintz Levin, one of the legal authorities actively studying regulatory trends and decisions at the CPSC; former CPSC Chief of Staff Matt Howsare; Mark Dewar, one of the EU's leading authorities on regulatory compliance; and Ray Aragon, the Director of Compliance at the CPSC. Belinda May will help close out the workshop with a case study on dealing with regulatory agencies.

Links to course descriptions and registration for both of these courses can be found at education.adksafetyinfo.com.

Compliance News Shorts is Edited By Daniece Carpenter, Principal Regulatory Engineer

a Senior Member plaque and one new IEEE Society membership, both free of charge.

OK, so How do You Apply for the Senior Membership Grade

Once you determine that you fulfill the requirements for Senior Member grade, identify your three references who must be IEEE Senior Members or Fellows. If you have difficulty in locating individuals to serve as your references, contact your local Section or Chapter or us, at the EMC Society Membership Development Committee (see below). For help in contacting your Section/Chapter Chair, send an e-mail to senior-member@ieee.org.

If you have been notified by a Section or Chapter officer that they intend to nominate you for Senior Member grade, the nominator serves as one reference as long as he/she is a Senior Member or Fellow. Otherwise, the required number of references is still three in addition to the nomination. Alternatively, contact your Section or Chapter Chair and ask if they can nominate you.

You do not need to pass any exam to be elevated. You have already been "tested" throughout your entire career. The Senior Member application is simply a brief one-page documentation of your career that is used to evaluate your qualifications for this membership grade.

The application process is fairly straightforward. The Senior Member application form is available in 3 formats:

- Online version
- Downloadable version
- Electronic version

This form can be completed by the applicant and submitted electronically as an email attachment. If you are a Nominator, you can fill in your portion of the form and forward it to your nominee. The nominee can then complete the rest of the form and send it as an email attachment as instructed.

To expedite the processing of your application, we suggest submitting your application online or sending the electronic version to senior-member@ieee.org. **Make sure that you have contacted three people to serve as your references** and that they submit the reference forms in a timely manner.

For details on the Nominate-a-Senior-Member Initiative, guidelines, the online application and reference forms, simply visit http://www.ieee.org/organizations/rab/md/sminitiative.html. For application forms, visit: http://www.ieee.org/organizations/rab/md/membershipforms.html

What will you receive?

In addition to the prestige and recognition, which are the true and most significant benefit you receive, the IEEE also provides you with some more "material" benefits, including:

- An attractive fine wood and bronze engraved Senior Member plaque to proudly display
- A gift certificate of up to $25.00 toward one new Society membership
- A letter of commendation to your employer on the achievement of Senior Member grade (upon the request of the newly elected Senior Member)
- Announcement of elevation in Section/Society and/or local newsletters, newspapers and notices

How can your Local Chapter or Section Help?

Chapters are the core of membership development as well as technical activities. That is why chapters, first and foremost, should strive to nominate and support the nomination of members to the Senior Member grade. To achieve that goal, chapters may try one or more of the following initiatives:

- Encourage qualified members to apply for Senior Member elevation.
- Form local Senior Member nomination committees
- Use SAMIEEE data base to identify potential SM candidates and assist applicants identify SM references
- Assist candidates in finding Senior Members and Fellows who can serve as references.

- Explain the qualifications and have applicants' complete applications at a special Senior Member Nomination/ Elevation session

- Have Fellows and Senior Members on hand to meet applicants and for applicants to acquire the needed references

- Encourage newly elected Senior Members take an active role serving as references

- Conduct Senior member elevation events at least twice a year. (see the box below: *"Chapter Chairs: Plan a Senior Member Nomination Night"*)

This will also help your Section earn a rebate at the end of the year through the Nominate a Senior Member Initiative.

We, in the EMCS, are here to help you become a Senior Member

For answers to questions about the application process or about the grade of Senior Membership in general, contact Ken Thomas, PSES VP for Member Services, at kthomas@ GLOBALSAFETYSOLUTIONS.NET or the above signed at eb.joffe@ieee.org. We will be more than glad to help and lead you through the process, and even act as one of your nominators, if you are eligible to the grade.

Summary

We all work hard throughout our careers, but don't always realize the extent of knowledge we gained or how much responsibility we have accepted over the years. Think back to when you began your career. With time and experience, your knowledge has grown, your responsibilities have increased, and you are now one of the engineers the company counts on. So take the time to get recognized for it.

The grade of Senior Member is the highest a member may attain through application, and reflects professional recognition of your peers for your technical and professional excellence. The Senior Member Grade by its own merit is an indication of your accomplishments in your professional career and will promote you to your

company and profession

Surely you may consider this gratifying to know that you have made a contribution to our profession and Society even though you may not have designed the next generation of engineering technology... It is worthwhile becoming a Senior Member if not for professional reasons, then at least for personal satisfaction.

Useful Web Resources

http://www.ieee.org/web/membership/Admission-Advancement/Senior_Member_Requirements.html

http://www.ieee.org/organizations/rab/md/sminitiative.html

http://www.ieee.org/organizations/rab/md/membershipforms.html

http://www.ieee.org/portal/pages/membership/understanding.html#Senior Member

Elya Joffe
Immediate Past-President IEEE PSES

- residential applications –system live presentation".
- November 12, 2013 meeting had 11 attendee, hosted by Nemko USA, Inc. at their facility in Carlsbad, CA. Mr. Lars Mellander of Nemko USA, Inc. provided an update on "Market Access to India".
- December 10, 2013 meeting had 13 attendees. Mr. Grant Schmidbauer, Sr. Vice President, Region North America, in the Nemko Group, and the President of Nemko North America, Inc. provided an update on "Patient and Operator – different requirements IEC 60601-1:2005 (3rd edition)".
- January 14, 2014 meeting had 12 attendees. Ms. Michele Nash-Hoff, President of Electro-Fab Sales provided an update on "American Manufacturing, manufacturing movements and trends"

IEEE PSES SAN DIEGO CHAPTER MEETINGS SCHEDULE

Meetings are held at Hewlett-Packard Company 16399 West Bernardo Dr., San Diego, CA 92127 at 6:00pm on 2nd Tuesday of the month unless stated otherwise.

CHAPTER OFFICERS

Leszek Langiewicz   Chairperson   (858) 655-5783   leszekl@hp.com

Byron Yakimow   Treasurer   (858) 385-6197   Byron_Yakimow@Cymer.com

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To receive more information, please contact Gabe Alcala galcala@atecorp.com or 858-558- 6500 x390.

CHAPTER WEBPAGE

For details on past present and future events, please visit our page Product Safety Engineering (PSES) hosted by San Diego Section of the IEEE at www.sdieee.org.

Chapter Chairs: Plan a Senior Member Nomination Night

Are you looking for a way to make a Senior Member elevation easier to arrange for colleagues in your area? Plan a Senior Member Nomination Night at your local Chapter. With Senior Members and Fellows willing to coach candidate members, the evening becomes a social networking event.

First, identify Senior Members and Fellows through your Section's membership database. They don't all have to be PSE Society members: Simply IEEE members, holding Senior Member Grade or higher. Contact them personally to ensure their commitment to coach candidates and make this a successful event. Several higher grade Members per candidate Member is preferred. Experience shows that a recommended ratio is two Senior Members for each Candidate.

When you invite prospective members who are appropriate candidates for Senior Grade elevation, remind them to review the requirements [hyperlink to http://www.ieee.org/organizations/rab/md/smrequirements.html] so they are prepared. They should bring their resume to help guide conversations with the higher grade members offering to provide references.

In the evening of the event, the Senior Members and Fellows work "one on one" with candidate members, clarifying the significant performance requirements of the application process. Once documented, this makes the reference writer's job much easier. When the Society or Section takes the job opf nominating the candidate, only two references instead of three are required.

The Senior Member process is all online [hyperlink to http://www.ieee.org/organizations/rab/md/smprogram.html] now. Schedule the evening in a room with network access and a number of computers. Have some snacks and beverages to keep the evening casual and the conversation flowing. Chatting around the tables and making careers the feature of the evening, offers the chance to exchange backgrounds and talk about useful career directions.

2014 IEEE Symposium on Product Compliance Engineering
Sponsored by the IEEE Product Safety Engineering Society

Now Held Earlier in the Year!

May 5-7, 2014
San Jose, CA USA
www.psessymposium.org

Call for Papers, Presentations, Workshops, and Tutorials

General Chair
Kevin Ravo
kevin.l.ravo@ul.com

Technical Program Chair
Tom Burke
thomas.m.burke@ul.com

Conference Management
Conference Catalysts, LLC

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

EMC Compliance
- Electromagnetic emissions, electromagnetic immunity, regulatory, introduction to EMC/RF (for safety engineer & compliance engineers)

Energy Storage
- Battery and energy storage designs, applications, manufacturing, testing and standards, including emerging chemistries, fuel cells, electrochemical capacitors (ultra-and super-capacitors), etc.

Forensics
- The latest findings in failure analysis
- General tools, techniques and best practices used for quality failure analysis

Hazard-based Safety Engineering
- Theory and application of HBSE
- New hazard-based standard for A/V, IT & Communication Technology Equipment, IEC 62368-1

Innovation
- Emerging uses of technology, and associated challenges with safety & compliance, such as those associated with 'smart' devices, wearable electronics, wireless power transfer, driverless cars, modular data centers, liquid cooling, PEDs/aircraft, virtual reality, technology & seniors, etc.

Leadership
- Management strategies and techniques, and case studies
- Leading change, team building, conflict resolution, time management
- Communication skills

Medical Devices
- IEC 60601-1, and collateral standards
- Risk Management process for medical devices
- Compliance strategies and options

Risk Analysis, Assessment & Management
- Fundamentals and application of risk analysis, assessment and management
- Introduction of risk management principles and requirements into new standards and applications

TAC News

IECTC

The Industrial Electronics and Controls Technical Committee is working to establish a conference track for ISPCE 2015 including, but not limited to; Functional Safety, motor safety, transition of UL508C to UL61800-5-1, Low voltage directive, Generic Industrial standard (IEC60204). We are looking for volunteers to submit or find authors on these subjects or other suggestions. Please contact Mike Nicholls at mnicholls@a-m-c.com.

TSTC

Per recommendation from the Telecom Safety Technical Committee, Joe Randolph has drafted a paper for the ISPCE 2014 Conference in San Jose, CA. Joe will present paper on Lightning Surge Damage to Ethernet and POTS Ports Connected to Inside Wiring. Much of the recent time during meetings has been dedicated to this topic.

Other areas that the TSTC are discussing include:

1. UL Standards Technical Panel for Subjects 60950-1, -21, -22, -23

2. TIA TR 41.7, TR41.7.1

3. IEEE Surge Protective Devices Committee

4. ATIS Protection Engineers Group

5. ITU-T, SG5, WP1

6. Canadian National Subcommittee for IEC TC108

7. TIA TR 41.7.10 (Smart Grid)

8. US TAG to IEC TC 108

The next meeting is Wednesday 23-Apr-2014. Contact Don Gies at Don.Gies@ALCATEL-LUCENT.COM if interested in participating.

Other TACs

Failure Analysis and Forensics (FFATC)
Daren Slee (dslee@exponent.com)
http://ewh.ieee.org/cmte/pses/ffat/

Medical Product Safety (MPSTC)
Sandy Weininger
(sandy.weininger@fda.hhs.gov)

Risk Analysis (RATC)
John Allen (jrallen@productsafetyinc.com)
http://ewh.ieee.org/soc/pses/TAC/RATC/RATC_Home.html

Education for Product Safety (EPSTC)
Elya Joffe (eb.joffe@ieee.org)

ITE/Computers (ITETC)
Gary Schrempp (Gary_Schrempp@dell.com)

The Technical Committees are open to those interested in the covered topics. For participation or other information, please contact the Chair of the committee listed.

IEEE Future Directions

Future Directions Comes to PSES
PSES and the Consumer Electronics Society, Working Together
Murlin Marks, Life Senior

"Future Directions" (FD) is an IEEE initiative to take the lead in a number of new and developing technologies, in line with the "Advancing Technology for Humanity" theme of IEEE. Beyond concepts such as Smart Grid, Smart Cities, and Life Sciences, the Consumer Electronics Society has a committee, led by Tom Coughlin, focused on the future directions of consumer electronics (CE). Product safety/compliance engineering weaves a thread throughout CE, so a number of PSESers serve on this committee. Daniece Carpenter, Ken Kapur, Kevin Ravo and I have participated with the planning to date. We hope to open opportunities for our members to be involved with the leading edge of technology, including discussions at our upcoming ISPCE in San José (http://www.psessymposium.org)

A number of basic topics have been identified:

- Clouds and Big Data
- Consumer Robotics
- Smart Vehicular Technology
- Home Health
- Mobile Energy
- Product Safety Engineering

At the International Conference of Consumer Electronics (ICCE), in Las Vegas in January, we held a meeting to begin developing concepts for Safe Advanced Mobile Power (SAMP). The idea is to build a program for an economical and safe advanced mobile power system that could fit within the form factor of a modern mobile phone, and provide power for a week of "normal" use without recharging from an external source and should not depend upon wireless power charging systems to accomplish a weeks operation. The power source could include power storage (such as batteries or super caps or some new technology), power generation (such as fuel cells or some new technology) or energy harvesting of various sorts either singly or in combination.

These new technologies should accommodate more activities between charges and enable entire new uses for mobile devices. Such technological breakthroughs could enable more powerful mobile consumer devices as well as help people in developing economies to make the best use of their power infrastructures to meet basic human needs and to enable commerce in remote regions. In addition to myself, Daniece and Kevin, Mark Maynard joined what was essentially a brainstorming session to consider concepts that could nurture ideas into consumer products.

A similar thrust is being developed for medical products for the consumer, including products for those with special needs. Clearly, these product areas overlap. SAMP developments will create wider capabilities and opportunities for possible medical products.

This is an exciting, creative activity for future safe consumer products. Philosophically, it's really difficult to conceptualize where technology will take us. Ten years ago, did anyone dream of the present ubiquitous nature of smart phones and the plethora of applications for them? Current on-line social relationships were unimagined. Universal cameras and video records have changed our sense of privacy. How could we have brainstormed such developments? The answer is: You have to try. The difference now is that we have IEEE supporting the effort, and we have a venue committed to analyze the trends, to identify synergies and to support entrepreneurs and other creative thinkers. To more fully and creatively utilize the capabilities of mobile tech-

CALL FOR PAPERS & TUTORIALS

2014 IEEE International Technology Management Conference (ITMC2014)

"Technology on the Go"

June 12-15, 2014 - The Chicago Marriott O'Hare, Chicago, IL USA

The IEEE Technology Management Council invites the thought leaders and innovators in engineering and information technology disciplines to submit a paper or tutorial for presentation at the 2014 International Technology Management Conference. ITMC2014 provides a unique collaborative environment for engineering & technology professionals to discuss what the future holds in technology management.

This year's theme, "TECHNOLOGY ON THE GO", opens with a day of tutorials followed by two and a half days of paper and panel sessions. The process for presenting a paper or tutorial at the 2014 ITMC starts with your submission of an abstract/draft paper or tutorial. Your submittal should address topics related to the management of technology that are relevant to our theme, such as:

Green and Agile	Collaboration and networks
- Energy conservation & harvesting - Maintaining quality, accessibility and security - Medical device innovation - Product development with agile management	- BYOD – extended infrastructure - Cloud computing – SaaS, hybrid cloud - Data integrity, security, reliability, document management - Healthcare information management – health metrics, patient care, record access and management
Foresight and strategies to explore new markets	**Special tracks and workshops**
- Big data, informatics - Internet of Things, telematics - Innovative PLM - Predictive analytics	- Six Sigma - Agile Project Management - Education programs in MoT, R&D

Key Dates

Abstract/initial draft paper submission	**15 December 2013**
Notification of acceptance	**15 January 2014**
Draft paper due	**15 February 2014**
Final paper due	**15 April 2014**

Conference and Author details are available at **http://ieee-tmc.org/itmc2014**

Abstract/Paper Submission: https://www.xcdsystem.com/ITMC2014

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nology, computer power and miniaturization to serve humanity.

Our conference, ISPCE2014, in San José May 5-7 will serve as our upcoming forum to further develop these ideas. After defining the "problem," our subcommittee is tasked with working on safety and sustainability of the ideas. I see this serving a two-fold function: First, we have the opportunity to help shape requirements in an iterative, holistic manner that should be more efficient and flexible than the usual reactive approach to product safety engineering. Clearly, new safety concepts of reliability and security will have to be incorporated as new medical and vehicle products are developed. The second function is for the PSES to support our companies and our profession to take full advantage of the opportunities that will come along.

The Consumer Electronics Society has a number of other venues where Future Directions and SAMP will be discussed and brainstormed. They are encouraging product safety and compliance engineering papers relating to consumer electronics to be presented. Their upcoming conferences are:

ICCE-China 2014
2014 IEEE International Conference on Consumer Electronics-China http://icce-china. org/2014/index.html Shenzhen Convention & Exhibition Center, Shenzhen, Chhina April 9-13, 2014

ICCE-Taiwan
International Conference on Consumer Electronics-Taiwan
http://www.icce-tw.org/iccetw2014/ Taipei, Taiwan May 26-28, 2014

ISCE
2014 International Symposium on Consumer Electronics http://www.isce2014.org Jeju, Korea 22-25 June 2014

ICCE-Berlin
2014 International Conference on Consumer Electronics - Berlin in Conjunction with the IFA International Consumer Electronics Show http://www.icce-berlin.org/2014/ Berlin, Germany September 7-10, 2014

GCCE
2013 Global Conference on Consumer Electronics in Conjunction with CEATAC Japan http://www.ieee-gcce.org/2014/index. html October 7-10, 2014 Makuhari Messe, Tokyo, Japan

We hope to have representation at all of these conferences. If any of these conferences are convenient for you, please let me know and provide your thoughts on FD and SAMP.

It's interesting. Whenever I tell folks about the effort to look at the future directions of technology, the usual response is, "What does that mean? How can you do it?" Thing is, when we get into in-depth discussions many new ideas come up that really lead to at least a few concepts that build a synergy of experts and other resources to enable fuller use of the available and developing technologies. So the answers to these questions are, "It will mean what we build/create/develop. We'll know when we get there. And, we can't really imagine where it will lead." Please let me know your comments! (murlinm@ieee.org)

PSES History

History: Handing Out Assignments
Murlin Marks, Life Senior

This is a plea. A plea to give our IEEE Society members the benefits of knowing more about product safety and compliance engineering background. As a follow-on to my last article on History, I have decided to hand out **assignments.** I hope you will support the spirit of this effort by putting together your stories and getting your colleagues and companies to do likewise. Send them to me; I will edit them for future PSES Newsletters. I gave you a brief example of my background in our last issue (http://ewh.ieee.org/soc/pses/society/13V9N4.pdf).

First assignment: What is **your** company's history and its impact on various aspects of product safety and compliance engineering? I know that UL goes back to about 1893 (what exactly happened at the Chicago Exposition?), but I understand that VDE goes back even further. What about the dozen or so organizations with 100-year plus histories? What was it like in those days, both from the standpoint of technology and from the standpoint of the local environment. How did technology and policies evolve to where we are now? What were and are some of the cultural imperatives that had to be dealt with? Whereas a few of us go back more than forty or so years, many of us knew colleagues who went back further and who told stories about what their predecessors experienced. Many organizations have archives that only collect dust. Why not share interesting and non-proprietary (at least by now!) information that's just sitting there?

I would challenge every agency to identify a person to report for the PSES Newsletter. Hopefully, when one does, the others will follow. Why not be the leader?

Second assignment: What is your colorful local and regional background? My guess is that much of what I think I know about different countries and regions is based on stereotypes that are incomplete at best. What was product safety and compliance engineering like in your area twenty – or fifty – years ago? It would be interesting to ponder on the differences and similarities. I also think that there is merit in having a real basis for our sense of where we came from. Let's document the history of our local chapters! I know much of the Santa Clara Valley Chapter background, back to nearly the beginning when it was a chapter of the EMC Society TC (Technical Committee)-8 that covered product safety for EMCS. [For the background of how TC-8 evolved into the PSES, see http://ewh.ieee.org/soc/pses/history/History_PSES.pdf by Mark Montrose] For a future Newsletter issue, I plan to put together a history of my chapter going back to its formation, over 25 years ago. I should be able to do this, because most of those involved are still with us.

Next assignment: *Tales from our chapters.* I will nudge some folks from Santa Clara Valley. How about Central Texas? NPSS? These and some of our other chapters have histories going back nearly thirty years, when we were the TC-8 of the IEEE EMC Society.

Next assignment: (to music) *Where have all the requirements gone?* Product/committee experts: We know a lot about what's happening with TC-108. How have these requirements evolved? What about other standards? E.g. cooking/heating appliances, lighting fixtures (household, swimming pool, etc.)

When I started at UL, we used UL492, which dated from 1929 as a radio standard. By the late 1960's, the standard had evolved into a kludge that tried to cover "television." The term "television" evolved pretty quickly to "video."

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After a number of TV fires caused by arc tracking, a number of standards were developed to cover different technologies – UL1270 for household audio, UL813 for commercial audio, UL 1409 for low voltage video, UL1410 for other video products as well as several other related standards. Meanwhile, "office machines" evolved into data processing equipment and several other related standards. These were generally U.S. standards. During the same time frame, European IEC approaches and standards evolved. Since the mid-1980s or thereabout, there has been a long, complex rethinking of the convergent technologies leading to implementing requirements based on product safety engineering principles rather than current design.

For product experts with background going back to the Neolithic: For a start give me the short version of the history. Then, let's backfill with detail and information from colleagues and written sources. Maybe we have sources who have retired. Please reach out to them! Not sure about some bit of a requirement? List your questions! Interested in related – or completely different – requirements (how about Hazardous Locations, for example), ask!
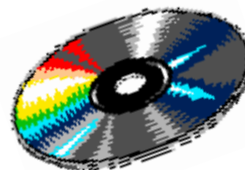
I'm most familiar with the so-called high-tech area, but I also worked on cooking & heating products, industrial control equipment, lighting products, and many other products areas. I have a curiosity about the safety issues and developments as these product areas evolved over the last century. What about the special characteristics of related and very different products? With the Smart Grid and the Smart House concepts building momentum over the next decade, I think such knowledge is of more than passing importance. Over my career, there were several instances where my awareness of special requirements for different product categories came in handy for a problem at hand.

As product safety/compliance engineering professionals, I think that our value to our own companies – and for our careers – will be enhanced with more of background and understanding. The Smart Grid is just the beginning and just one part of how we will respond to global warming and limited resources. How we will hand off our world to the next generation? How will we respond to demands for energy/resource efficiency AND ubiquitous connectivity? Not to mention global/cultural/political issues and developments. It's like string theory, with all the different dimensions that have various degrees of interdependence. It's different than the permanent nature of physics theories in that much of the source material is either fading away in storage vaults or passing away. We still have that thread (string?) going back many years, but our profession needs to read about it before it's gone. What issues/topics would you like further background on? (contact Murlin Marks – murlinm@ieee.org)

PS – You **young'uns – Your assignment:** If you are in the earlier thirty years of your careers and have questions about the past or of specific types of products that you'd like to know more about, please let me know what they are. That will help me organize my efforts.

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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
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    1Q issue: February 15
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