Greetings and hope you are looking forward to a fabulous summer!

While helping my son with his science fair project building a robot, an article in the IEEE spectrum caught my attention. It was about a robot called Luna from RoboDynamics - it’s a personal robot designed for people to use at home, it’s fully programmable, and will start shipping later this year. According to the article, Luna could do something that no other robot has been able to accomplish (at least, in principle): bring a programmable, general-purpose robot to a vast number of home users and establish an ecosystem for developers to create and sell software that gives the robot more capabilities. It also offers the ability to teach it new things makes it increasingly useful. Interesting concept I think and I wonder how well it will be accepted by the humans.

We are seeing a lot of interest in new areas of technology collaboration within IEEE Orange County. 2 new chapter/society formations are in progress. Brian Morris is leading the creation of the CES chapter (IEEE Consumer Electronics) and Sam Karikalan is leading the formation of the CPMT chapter (IEEE Components, Packaging and Manufacturing Technology Society). If you are interesting in becoming a founding member of any of these chapters, please reach out to Brian and Sam - their contact information is the newsletter.

I am pleased to announce the winners of the 2011 IEEE Orange County Awards:

**Outstanding Engineer Award** – Alain Chahwan, Servo Systems Engineer, Western Digital Corporation

**Outstanding Leadership and Professional Service Award** – Dr Menas Kafatos, Fletcher Jones Endowed Professor in Computational Physics; Dean, Schmid College of Science; Vice Chancellor for Special Projects; Chapman University

Congratulations to the Alain & Dr Kafatos. Keep up the great work you do and good luck as your nominations move on to IEEE region level. Details on the winners and their profile are available in the newsletter and website. Thanks to the members who took the time to recognize, appreciate and nominate their peers for the IEEE-OC awards. Special thanks to the Awards team, particularly John Collins (Vice-Chairman, IEEE OC Section) who did an excellent job managing this effort.

Here is the June Lynx OC section newsletter with updates on IEEE Orange County section activities and upcoming event information.

Note that we usually do not have any events scheduled in July and August so our volunteers can enjoy the summer vacation uninterrupted with their families. On behalf of all of us at IEEE Orange County Section, I’d like to wish you and your families a wonderful summer season filled with adventure and fun.

As always, feel free to drop me a line at alvin@ieee.org. I’d love to hear from you on how the IEEE Orange County section can serve you better.

Alvin Joseph
Chairman, IEEE Orange County Section
www.ieee.org/ocs
S-PAC

UCI’s student chapter of IEEE held their S-PAC event on May 11, 2011. Representatives from nine companies came out to sit and speak about their personal experiences and career paths over a three course dinner provided by UCI Catering. Those companies in attendance are: Northrop Grumman, Boeing, IBM, Broadcom, NDS, Teradata, EMC2, Qualcomm, and Mindspeed. We also had roughly five UCI professors who came to support our event. Two guest speakers led the night with their discussions about their career paths: Engineering Vice President from Teradata, as well as our very own UCI EECS professor, Professor Tsai. Everyone enjoyed their dinner and table discussions. We had roughly 58 people in attendance, which almost filled our event towards maximum capacity.

LAN Party

IEEE held their second annual Xtreme Lan Party on May 27, 2001. People lined up well before the registration time to get ahead of the game and to set up their equipment. We had pizza, soda, water, and snacks that fed roughly 100 people in attendance. There were three games running at the same time: Starcraft II, Marvel vs Capcom 3 and Call of Duty: Black Ops. There were many prizes being awarded to the first three winners of each category. Prizes included glass trophies, Western Digital Hard drives, gaming mouse and mouse pads, Seasonic PSU, Mana Potions, CPU coolers, XBOX Live membership card, and many more.
The IEEE Orange County Computer Society

Upcoming Events

June 27
Cryptography, Networks, Public Keys, Privacy, Risk Analysis, Viruses, Worms, Torjans, Trapdoors.
Prof. Burkhard Englert, PhD, Computer Engineering Computer Science, CSU Long Beach

June 29-30
Optoelectronic Packaging
McDonnell Douglas Engineering Auditorium, University of California, Irvine

Oct 30 - Nov 1
IEEE Global Humanitarian Technology Conference
Seattle, Washington
www.ieeehctc.org

Nov 3
IEEE Student Design Contest
Radisson Hotel Newport Beach, CA
www.socconference.com/students.htm

Nov 3
IEEE Job Fair

Nov 2-4
The Third IEEE International Games Innovation Conference
One University Drive, Chapman University, Orange, CA

If you’d like your event to be included, please email details to me@sharonforsberg.com

Call for Presenters 2011-2012:
CSUF College of Engineering & Computer Science Technology Breakfast Series

Share your experience and knowledge in the fields of Technology, Engineering or Computer Science with a broad community of engineering and computer science students, professionals, and faculty. Technology Breakfast presenters are industry leaders, professionals and academics eager to inform and inspire students and peers in the Technology, Engineering or Computer Science professional community.

Please consider recommending yourself, a colleague or a business associate to be a Technology Breakfast presenter.

Technology Breakfasts are held in Fullerton, CA three to four times a year with presentations lasting 30-45 minutes followed by a question and answer period. Topics covered in recent ECS Technology Breakfasts have included:

- Power Generation
- Sustainability
- Technology and the Environment
- Assistive Technology
- Unmanned Systems Technology
- Engineering Sound
- Identity Management in a Digital World
- In-Flight Entertainment Systems
- Technology behind the Disney Magic

The ECS Technology Breakfast Series is sponsored in part by the ECS Affiliates, an industry membership support group for the College. ECS programs of study include undergraduate and graduate programs in Civil & Environmental Engineering, Computer Science, Computer Engineering, Electrical Engineering, Mechanical Engineering and Software Engineering. California State University, Fullerton is currently the largest university in the 23 campus CSU system.

To recommend a Tech Breakfast presenter or topic, please contact us at ecsAffiliates@fullerton.edu.

Hart Roussel
Director of Development
College of Engineering and Computer Science, CSU Fullerton
Office: (657) 278-5429
Mobile: (714) 307-5370
FAX: (657) 278-1381
hroussel@fullerton.edu
Alain Chahwan received his BASc in Mechatronics Engineering in 2003 from the University of Toronto with main research interests in optoelectronics, photonics and BioMEMS. He worked as a research assistant at the Center for Advanced Diffusion Wave Technologies and Photothermal and Optoelectronics Diagnostics Laboratory where he co-developed a novel non-invasive laser-based probing technique for the early detection of caries in teeth. The technique was validated by implementing an optical setup that can provide simultaneous measurements of laser induced frequency-domain photothermal radiometry and modulated laser luminescence signals emitted from radiated spots on the tooth. He then moved into nano-technology and MEMS devices where he co-developed a MEMS-based micromachined 2-D scanner for 3-D optical coherence tomography at the Mechatronics and Automation Laboratory and Ontario Cancer Institute.

In 2005, he received his MSc in Control Systems from the University of California, Berkeley with main research interests in MEMS devices and control theory. Alain joined WDC in 2005 where he currently has a leading role as a servo systems engineer. He has made significant technical contributions in the areas of servo system technologies especially in operational vibration/shock detection and compensation to achieve excellent performance and reliability at different areal density points.

Mr. Chahwan is nominated by Mr. Duc Phan Senior Director, the head of the Servo Systems Development Department.

Dr. Menas Kafatos joined Chapman University in 2008 as the Vice Chancellor for Special Projects, is also Founding Dean of the Schmid College of Science, Director of the Center for Excellence in Applied, Computational, and Fundamental Science, and is a Fletcher Jones Endowed Professor of Computational Physics. He received his B.A. in Physics from Cornell University in 1967 and his Ph.D. in Physics from the Massachusetts Institute of Technology in 1972. After postdoctoral work at NASA Goddard Space Flight Center, he joined George Mason University and was University Professor of Interdisciplinary Sciences, Dean of the School of Computational Sciences and Director of the Center for Earth Observing and Space Research.

He has 36 years experience in undergraduate and graduate teaching and research. He has published numerous books including The Conscious Universe, The Non-local Universe, Principles of Integrative Science, and more than 250 articles. He has served in numerous scientific committees, as editor, as well as organizer of several international conferences. He is an honorary member of the Romanian Academy of Sciences, has served in various leadership positions, and is member of several boards, including the University Space Research Association, and presently OCTANe.
New IEEE-OC Chapter Formations

IEEE Orange County Consumer Electronics Society

I am an IEEE member working with leaders in the IEEE Consumer Electronics to help coordinate the formation of an Orange County chapter. We are reaching out to local members looking for support with the petition to create the chapter. The formation of an Orange County chapter of IEEE CE Society will create great benefits for members and students locally. In order to form the local chapter we need IEEE members (non-student member) to sign our petition. The member would also have to be part of the Consumer Electronics Society to be a valid signature on the petition. IEEE membership can be easily upgraded from the IEEE member website and cost $15. I can accept an email for the petition. Email signature just requires a letter of intent which includes the name and IEEE member number. No responsibility towards the chapter would be required, if anyone would be interested in holding a position or providing contribution, I would be glad to help facilitate the request. I thank you for your attention to this matter and appreciate any help that can be provided to achieve this goal. If we get enough signatures by the end of the month we will be able to form the chapter in time to be the hosts of the International Games Innovation Conference in November. If you are interested in helping a quick response would be appreciated.

Brian Morris
IEEE CE member
mr_brian_morris@yahoo.com

IEEE Orange CPMT Chapter

(IEEE Components, Packaging and Manufacturing Technology Society)

Sam Karikalan is spearheading the formation of the IEEE Components, Packaging and Manufacturing Technological society in Orange County. We already have the necessary member support to move ahead and the chapter will be formed shortly. If you are interested in joining this society, please email Sam at samk@broadcom.com.

Sam Karikalan
samk@broadcom.com
This workshop is a joint effort by the International Microelectronics and Packaging Society (IMAPS) and the Institute for Electrical and Electronics Engineers - Components, Packaging and Manufacturing Technology Society (IEEE-CPMT). The focus of the workshop is on optoelectronic packaging. We are moving to an age where:

- Photons will supersede electrons as the preferred carrier of information.
- Typical optical waveguides transmit many times more data than electrical wires.
- Optoelectronic devices (LEDs and solar cells) play a great role in new energy generation and energy saving.

Accompanying this change are global efforts in energy efficiency. Issues in the packaging of any device which translates optical energy to or from electrical / thermal / mechanical energy are the focus of the present workshop.

Sessions include:

- ITRS ASSEMBLY AND PACKAGING ROADMAP WORKSHOP
- MATERIALS AND PROCESSES
- LED PACKAGING
- PHOTONIC PACKAGING
- INNOVATION HOUR – company innovative products

For more information and registration, go to WWW.IMAPS.ORG/OPTO
To IEEE Orange County Chapters:

Newsletter Inputs

As we begin a new year of activities, it is fitting to remind OC Chapters of the protocol to get their news items published in the Newsletter. Simply, e-mail your news item to info.at.nanomems-research.com no later than the 15th of the month, prior to the month whose Newsletter you are targeting. For example, if you want the February’09 Newsletter to contain your news item, please, submit it no later than January 15th, 2009. In your e-mail, please, enclose your news item between two lines of “+” characters, i.e.:

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News Item Title

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Thank you,
Hector J. De Los Santos
IEEE Orange County Section, Newsletter Editor
Abstract: Computer security is a branch of computer technology known as “information security” as applied to computers and networks. The objective of computer security includes protection of information and property from theft, corruption, or natural disaster, while still allowing the information and property to remain accessible and productive to its intended users. The term computer security generally means the collective processes and mechanisms by which sensitive and valuable information and services are protected from publication, tampering, or collapse by unauthorized activities or untrustworthy individuals and unplanned events.

This talk presents an overview of various computer security threats, risks and vulnerabilities. Using several examples such as personal and enterprise computing systems, discussion will center on how to reduce or close these vulnerabilities. Topics include a security-related focus for the design of computer networks or implementation and performance analysis of enterprise networks.

Bio: Burkhard Englert is a professor in the department of Computer Engineering and Computer Science at California State University Long Beach. He earned his PhD from the department of Mathematics at the University of Connecticut in 2000. His doctoral research was in the area of computability theory (recursion theory) and dealt with lattice embeddings into the computably enumerable degrees. He also worked on distributed algorithms. In 1992, he received a BS degree in mathematics from the University of Tuebingen in Germany.

After finishing his PhD in 2000, Burkhard came to University of California, Los Angeles (UCLA) as an adjunct assistant professor in the program in computing. At UCLA he received the Sorgenfrey Distinguished Teaching Award for visiting faculty members for outstanding achievements in teaching by the department of Mathematics. Currently, Burkhard teaches a broad range of graduate and undergraduate courses concentrating on computer security, net-centric computing, and distributed systems.

Burkhard's research interests are distributed computing, distributed algorithms, computer security, and transportation network modeling and optimization. Burkhard also serves as a reviewer and a member of program committees on a number of national and international conferences.
Member Discounts

As you well know, IEEE members can take advantage of a myriad of discount opportunities, either in the form of core IEEE products OR from IEEE sponsored programs which are offered at reduced rates as a benefit of membership. However, member surveys indicate that awareness of IEEE discount programs is low, such that 50% of members do not know about them or where to find them.

To address this issue, a decision was made to present information about all these programs in a new centralized location, which is now the “IEEE Member Discounts” Web page. This notice also serves to announce that the brand “Financial Advantage Program” has been retired.

Please take a look at the new IEEE Member Discounts page: http://www.ieee.org/go/discounts.

The “IEEE product discounts” section is listed first and we are still working on compiling all the entries to appear here. The “IEEE sponsored discounts” section lists programs in the following categories: Insurance, Travel, Technology and Home/Office Discounts. Programs that are available globally are clearly marked in this listing. We have also added an FAQ page that seeks to clarify the geographic availability of the sponsored programs and how they are developed and vetted.

Take advantage of Half Year membership Rates

If you have not renewed your membership or you are a not yet a member, please consider taking advantage of IEEE’s half year membership rates. New applications received between 1 March and 15 August 2011 will automatically be processed for half-year membership ending 31 December 2011 at the half-year dues rates. Also check out special circumstance options like minimum income, retired and unemployed that offer discounted membership rates. More details at: www.ieee.org/membership_services/membership/join/join_dues.html

Welcome New IEEE members in Orange County!!

We’d like to extend a warm welcome to the following new members:

<table>
<thead>
<tr>
<th>Member</th>
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<tr>
<td>James Blair</td>
<td>Associate Member</td>
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<td>Gallin Chen</td>
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<td>Bill Gaines</td>
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<td>James Hill</td>
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<td>Anees Mutti</td>
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<td>Abbas Banaiyanmofrad</td>
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<td>Renee Cinar</td>
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<td>Tim Chaudhry</td>
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<td>NGUYEN DONG</td>
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<td>Patrick Hughes</td>
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<td>Richard S Jackson</td>
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<td>Golan Kabir</td>
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<td>Babak Kavoossi</td>
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<td>Jeffrey Kim</td>
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<td>JIANJUN LI</td>
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<td>Neli Montalvo</td>
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<td>Steven Morris</td>
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<td>Jose Luis Ojeda</td>
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<td>Paul Leslie Rice</td>
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<td>Mehdi Saeidi</td>
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<td>Younan Talaat Soliman</td>
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<td>Sri Alexander Valarino</td>
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<td>Robert Warren</td>
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<td>Hernan Acevedo</td>
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<td>Gilberto Jr. Barrios</td>
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<td>Chasen Scott Beck</td>
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<td>Robert Bennett</td>
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<td>Vincent Cheung</td>
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<td>Tiffany Choy</td>
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<td>Sean Conant</td>
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<td>Mario Alberto Lopez</td>
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<td>Nathaniel Haujun Lum</td>
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<td>Alvin Makabali</td>
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<td>Amir Kasra Menhaji</td>
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<td>Sarmad Nasir</td>
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<td>Christopher Neumann</td>
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<td>Vien Vu</td>
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<td>Oliver Wang</td>
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<td>Vincent Tian Cheng Zhu</td>
<td>Student Member</td>
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IEEE Member Discounts

Formerly IEEE Financial Advantage Program. Now, better than ever!

Discover the advantage >
IEEE California:

Public Policy and Government Activities

IEEE-USA's Eye on Washington

Opposition to Patent Reform Defies Party Lines - Opponents - include IEEE-USA - of the currently drafted language of legislation to overhaul our patent laws are marshalling forces in the House in advance of expected floor action on the measure. While Republican leaders have included the HR 1249 - the mis-named America Invents Act, introduced by Judiciary Chairman Lamar Smith (R-Tex.) - on their so-called “job creation” legislative agenda, Smith and his allies must overcome significant bipartisan opposition to get the bill passed.

Awards, Fellowships & Grants

National Science Foundation Recent opportunities include:

Software Infrastructure for Sustained Innovation (SI2) - SI2 is a long-term investment focused on catalyzing new thinking, paradigms, and practices in developing and using software to understand natural, human, and engineered systems. SI2’s intent is to foster a pervasive cyberinfrastructure to help researchers address problems of unprecedented scale, complexity, resolution, and accuracy by integrating computation, data, networking, observations and experiments in novel ways. It is NSF’s expectation that SI2 investment will result in robust, reliable, usable and sustainable software infrastructure that is critical to achieving the CIF21 vision and will transform science and engineering while contributing to the education of next generation researchers and creators of future cyberinfrastructure. Education at all levels will play an important role in integrating such a dynamic cyberinfrastructure into the fabric of how science and engineering is performed.

Engineering Research Centers (ERC) - The goal of the Generation Three (Gen-3) Engineering Research Centers (ERC) Program is to create a culture in engineering research and education that links discovery to technological innovation through transformational fundamental and engineered systems research in order to advance technology and produce engineering graduates who will be creative U.S. innovators in a globally competitive economy. These ERCs will be at the forefront as the U.S. competes in the 21st century global economy where R&D resources and engineering talent are internationally distributed.

National Science Foundation (NSF) Graduate Research Fellowship Program - Deadlines for Electrical Engineering and Computer Science were in November 2010. Check back later this year for 2012 deadlines.

IEEE Educational Programs, Scholarships, Fellowships & Student Grants Funds - With contributions from generous sponsors around the world, the IEEE Foundation seeks to increase the understanding of how technologies are created and how they impact society, individuals, and the environment. Interdisciplinary in its activities, and transnational in scope, the IEEE Foundation has the potential to improve people’s lives in every country.

For complete text and links to additional resources, please visit: http://www.ieeeusa.org/policy/eyeonwashington/2011/08eow2011.asp
Senior Electrical Engineer

Job Summary:
Company: General Monitors
Location: Lake Forest, CA
Industries: Safety Instrumentation, Oil & Gas, Energy, Others
Job Type: Full Time
Years of Experience: 10+ years as lead design engineer – analog, digital, and embedded systems
Education Level: BS EE, minimum

Overall Responsibility:
Lead the design, development, and testing of microcontroller-based fire and gas detection systems for the global leader in industrial safety.

Requirements:
• Experience with one or more of the following microcontrollers: Microchip dsPIC30F, TI TMS320F, TI MSP430, Freescale 68HC11
• Experience with one or more of the following communication protocols: 4-20mA analog output, Modbus, HART
• Strong communication (written and verbal) and analytical skills
• Hands-on design engineer
• Adept at working with cross-functional teams

If you meet the above requirements, please send your resume depicting your qualifications to zainam@generalmonitors.com

We respect, value and welcome diversity in our workforce. General Monitors is proud to be an Equal Employment Opportunity/Affirmative Action Employer (EEO/AA) M/F/D/V.

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If you or your company has a job to advertise, please send an email to shireesh@ieee.org with a concise description of the job and contact information. Depending on space availability, we will attempt to post the job opening in the IEEE Section newsletter and website.

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IEEE REGION 6 SOUTHERN AREA CONSULTANT’S NETWORK
SPONSORED BY THE LOS ANGELES COUNCIL (LAC)
SATURDAY, JUNE 25, 2011 10:00 am-12:00 pm

TOPIC: Consultants Network Training
INSTRUCTOR: Bob Gauger, IEEEUSA Consultants Network Coordinator

WHO SHOULD ATTEND: IEEE members who are or want to be consultants

LOCATION: Cameron’s restaurant located at 1978 East Colorado Blvd. Pasadena, CA 91107 www.camerons4fish.com (Free Parking)

DATE & TIME: Saturday, June 25, 2011 from 10:00 am to 12:00 pm

LUNCH: 12:00 P.M. sponsored by LAC, Free to all attendees.

RESERVATION DETAILS: To attend, please RSVP e.miranda@ieee.org and eremitamiranda@sbcglobal.net please include your membership number with your reservation request. Thank you!

AGENDA

Self-Introductions- All
Why change careers – maybe consulting?
Some options
Rewards and benefits
Profile of a typical consultant
Plan to work as an independent
How to start consulting
IEEE helps consultants
What works for me
Experiences of other local IEEE consultants
Questions
Lunch-free to all attendees, courtesy of Los Angeles Council

ABOUT THE SPEAKER:

Bob Gauger is a life senior member of the IEEE and has been an independent consultant for more than 20 years, specializing in reliability and availability of HVAC and power, particularly for military and government facilities. As PACE chair for the LAC, he helped organize the original consultant’s networks in the LA and Orange County area. Now, he is serving on the coordinating committee that works with nearly 40 other IEEE consultants’ networks across the US.
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:

**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.

**Author’s Schedule**

<table>
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<tr>
<th>Event</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Abstract submission</td>
<td>May 15, 2011</td>
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<tr>
<td>Notification of Abstract Acceptance</td>
<td>June 1, 2011</td>
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<tr>
<td>Draft formal paper / presentation</td>
<td>July 15, 2011</td>
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<tr>
<td>Formal Final Paper</td>
<td>August 15, 2011</td>
</tr>
<tr>
<td>All Final Papers and Presentations</td>
<td>September 1, 2011</td>
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</tbody>
</table>

Prospective authors should submit e-papers using the on-line EDAS submission system.

Please go to the Author’s Kit page of the PSES web for comprehensive submission instructions including paper templates on the author tab at: www.psessymposium.org
International Games Innovation Conference  November 2-4, 2011

Chapman University - One University Drive - Orange, California 92866 USA (Near Disneyland)

Keynote Speakers

Award Banquet
Craig Hampel
Rambus

Conference Opening
Trip Hawkins
Founder, Electronic Arts, 3DO and Digital Chocolate

Reception Banquet
Robert J. Mical
SONY

2011 IGIC Organizing Committee

Industry Chair
Stephen Dukes
President CE Society

Executive Chair
Narisa Chu
CWLab International

General Chair
Harold Hughes
Rambus Inc.

Program Chair
Gary Yip
Rambus Inc.

Publicity Chair
Tom Coughlin
VP CE Society

The IEEE Consumer Electronics Society is pleased to announce the Third International Games Innovation Conference (IGIC 2011). Continuing the tradition that began in London 2009, and extended to Hong Kong in 2010, this conference is a platform for disseminating peer-reviewed papers, state-of-the-art demonstrations and special sessions that describe innovative research and development of hardware and software game technologies. Participation from industry, academia and government are welcome.

For more information, go to  http://ice-gic.ieee-cesoc.org, or contact conference coordinator, Charlotte Kober  ckobert@ieee.org
Call for Papers

Papers reporting innovations and new developments in all areas related to games are invited, including but not limited to those listed below:

<table>
<thead>
<tr>
<th>Multi-player Games</th>
<th>Platforms</th>
<th>Development and Production</th>
<th>Interfaces</th>
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<tr>
<td>Cloud based games</td>
<td>Mobile/handheld Computers</td>
<td>Design of games Tools</td>
<td>Interoperability</td>
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<td>Networked games</td>
<td>Consoles</td>
<td>Interdependence of Software &amp; Hardware</td>
<td>Wearable devices</td>
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<td>Portable consoles</td>
<td>Graphics</td>
<td>Biometrics</td>
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<td>Cloud servers</td>
<td>Animation</td>
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<td>Gaze</td>
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<td>System architecture</td>
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<td>Proximity</td>
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<td>Audio</td>
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<th>Beyond Entertainment</th>
<th>Technology</th>
<th>User Experience</th>
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<td>games</td>
<td>Game mechanics</td>
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Industry Track: This conference provides an opportunity to submit two-page papers pointing out design and technology challenges that should be addressed in the short-to-medium term. These papers will be considered for presentation with less focus on full-paper publication.

Special Panels, Workshops and Tutorials: IGIC 2011 is planning interactive sessions (120 minutes each) in the forms of panel discussions, workshops and tutorials focusing on the latest development in game technology, including hardware, software, content development and demonstrations. Topics of discussions on future issues, especially related to innovation in game technology, are welcome. Please submit any proposals by September 1 to the Technical Program Chair, Gary Yip (gyip.igic2011@gmail.com).

For submission Instructions, go to http://ice-gic.ieee-cesoc.org
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