Greetings and hope you are off to a great start in 2011.

I am excited to take on the leadership role at the IEEE Orange County Section. I see myself as a leader with a strong vision and commitment to promote IEEE Orange County Section as a premier organization offering engineering professional development in Orange County. I plan to build a strong organization to achieve operational excellence by facilitating:

- More active participation by membership in IEEE activities
- More offerings to membership that promote networking and knowledge/experience sharing.
- More corporate involvement and academic partnership to enhance member value.

We are also fortunate to have a strong volunteer leadership team both at the Section level and the Chapter/Society level. We have been busy this quarter putting together some governance procedures and kick-starting the following initiatives:

- Website re-design
- Re-start section newsletter
- Formation of a new Advisory board

I will keep you updated. 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
In The News:

Local U.S. Sections Help Members With Job Fairs, Career Resources

The Orange County (California) Section organized its second annual Job Fair in November, 2010. The event, which was held in conjunction with the International System-on-Chip Conference, was attended by approximately 500 job seekers. In addition to creating networking opportunities between employers and job seekers, the Job Fair provided attendees with very valuable assistance on interviewing and resume writing.

Farhad Mafie
IEEE-OC SSCS & OCEN Chairman
Featured in The Institute

Meeting in Review:
February 26, 2011

IEEE’s OC Solid-State Circuits Society (SSCS) & IEEE’s OC Entrepreneurs’ Network (OCEN) Present:

Entrepreneurship in China High-Tech Industry

Over 75 people participated in our joint IEEE’s OC Solid-State Circuits Society (SSCS) & IEEE’s OC Entrepreneurs’ Network (OCEN) meeting to hear three outstanding talks on “ENTREPRENEURSHIP IN CHINA HIGH-TECH INDUSTRY”. The event was sponsored by “NORTH AMERICA CHINESE CLEAN-TECH AND SEMICONDUCTOR ASSOCIATION (NACSA)”. We discussed how to establish a high-tech business in Shenzhen, China, and much more.

IEEE’s Orange County Solid-State Circuits Society (SSCS)

Foucault Pendulum on a Chip: Angle Measuring Silicon MEMS Gyroscope

Dr. Alex Trusov, Dept. of MAE, University of California, Irvine.

In this outstanding presentation, Dr. Alex Trusov from UCI discussed a new angle measuring silicon MEMS gyroscope, inspired by the 19th-century scientific instrument commonly used to demonstrate rotation of the Earth. Conventional MEMS gyroscopes measure the rate of angular motion, introducing significant low frequency noise in the orientation angle computation. An ideal angle measuring gyroscope, such as the macro-scale Foucault pendulum, is based on a highly isotropic resonator with very low energy dissipation. The successful realization of a MEMS implementation requires a structure with highly symmetric mode-shapes providing matched frequency and ultra-high Q-factors. Dr. Alex Trusov presented his latest work to over 30 IEEE-OC SSCS attendees.

Farhad Mafie
IEEE OC Section Solid-State Circuits Society (SSCS), Chairman.
Technical Program:

Standards Development and Committee Meetings – Monday May 2nd

The Industrial and Commercial Power Systems Department (I&CPS) of the IEEE Industry Applications Society sponsors many IEEE standards and recommended practices. The most notable are the IEEE Color Books, which are in the process of being updated and reorganized into a comprehensive set of individual standards. Each of the Working Groups revising one or more of the IEEE Color Books meet and discuss the current revision, plan future progress and resolve technical issues related to the recommendations made in the document. Participate in the standards development process and work side by side with many of the technical experts from the engineering community.

Technical Paper Presentations – Tuesday and Wednesday May 3rd and 4th

Technical Papers are presented that treat practical application issues in the general areas of industrial and commercial power distribution system design, protection, energy, on-site generation, codes and standards, power quality, maintenance and safety, and related subjects. A total of thirty technical papers are presented in the two day period. See the conference website for abstracts on the papers to be presented this year at http://sites.ieee.org/icps2011/technical-programs/technical-papers/

Tutorial Presentations – Thursday May 5th

There are four half-day tutorials which will be presented; Tutorials 1 & 2 will be presented in the morning and Tutorials 3 & 4 will be presented in the afternoon. See conference website for details at http://sites.ieee.org/icps2011/technical-programs/tutorials/

Tutorial 1: MV Transformer Failure Due to Circuit Breaker Induced Switching Transients
Tutorial 2: Electrical Systems Switching Procedures Considerations in Safety, Reliability and Software Applications
Tutorial 3: Grounding and Ground Fault Protection of Medium Voltage Industrial Generators
Tutorial 4: Fundamentals of Micro-Processor Based Relay Protection

Conference Venue:

This year the I&CPS Conference is being held in beautiful Newport Beach, CA at the Hyatt Regency. A block of rooms are available at the special conference rate of $145 per night, first come first serve.

Conference and Hotel Registration:

See the conference website http://sites.ieee.org/icps2011/ and follow the links for both hotel and conference registration. Register on or before April 10th and take advantage of reduced rates.
The IEEE EDS and Reliability societies are will co-sponsor the conference entitled “2012 IEEE International Reliability Physics Symposium (IRPS)”. This conference will be held April 15-19, 2012 in Garden Grove, California, USA.

For further information, please contact,

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or Conference Services Dept., at IEEE Operations Center at +1 732 562 3878

IEEE Electron Devices Society and the IEEE Reliability Society to Sponsor Reliability Physics Conference

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
Job Openings in OC

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@general-monitors.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.

Introducing The New Advisory Board

We have convened a new Advisory Board for the IEEE Orange County Section. The IEEE-OC Advisory Board shall provide guidance and insights to the IEEE Orange County Executive Committee on long term strategy and organizational partnerships relating to technology, innovation, education, STEM, careers, and public policy.

The Advisory Board shall serve as a forum for crafting initiatives of relevance in Orange County, with potential impact for the nationwide & worldwide IEEE membership. We hope this will strengthen our partnerships with the broader community in addition to the 3,500 IEEE members we serve in Orange County.

We are honored to have the following individuals on our Advisory Board for IEEE Orange County:

1. Paula Golden, Executive Director, The Broadcom Foundation. Director, Community Affairs, Broadcom Corporation
2. Goran Matijasevic, Ph.D., MBA, Executive Director, Chief Executive Roundtable Office of The Chancellor, University of California, Irvine
3. Dr. R. Unnikrishnan, IEEE Fellow Dean, College of Engineering and Computer Science, California State University Fullerton

As always, feel free to drop us a line.

R Sampath
Chairman, Advisory Board, IEEE Orange County Section
www.ieee.org/ocs
Chairman, IEEE California Public Policy & Govt Activities
www.ieee.org/go/cagov
Tel: 1.323.908.4306 - rsampath@ieee.org

Advertising Section in the Newsletter

Our Newsletter now includes an advertising section. For details on how to place your ad please send us e-mail at: info.at.nanomems-research.com

Hector J. De Los Santos
IEEE Orange County Section Newsletter Editor

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CCST-IEEE Partnership

In early January this year on behalf of IEEE California Public Policy and Government Activities, R. Sampath, Dr. Russell Lefevre, and Dr. Shireesh Verma engaged in talks with the executive director of the California Council on Science and Technology (CCST), Prof. Susan Hackwood to explore avenues of collaboration on policy matters.

The CCST is assisted by a Council, an assembly of corporate CEOs, academicians, scientists, and scholars of the highest distinction, and by the CCST Senior Fellows, a larger group that provides advice in their areas of expertise. Currently, seventy-eight members and fellows are also members of the National Academies, five are Nobel laureates, eight are National Medal of Science recipients and two are recipients of the National Medal of Technology. Please visit http://www.ccst.us/ to learn more about CCST.

We presented a summary of our broader activities and initiatives. CCST was excited to find numerous synergies in the activities and was very interested in partnering with us on issues pertaining to American Competitiveness. Following areas have been identified to start the collaborative work.

1. STEM education
2. Workforce
3. Innovation and Entrepreneurship
4. Specific Industries and concerns

This is an excellent opportunity for us to get involved in shaping key legislative policy at multiple levels.

E-Week Career Fair

February 24, 2011

IEEE Orange County Section support and assist annual engineering week celebrations and activities at both UCI and CSUF. Career fair is one of over dozen E-WK activities scheduled annually. This year’s CSUF ECS Career Fair took place on February 24th with 28 companies participation. Among them are Western Digital, Thales Avionics, Emulex, Southern California Edison, Northop Grumman, Q-logic Corporation, Raytheon, L-3 Communications, UST Global, NASA, U.S. Airforce, CIA, and NAVAIR.

Engineers-In-Transition [EIT] Orange County Activities

IEEE-UCI student chapter hosted a resume workshop in association with Engineers-In-Transition OC on February 15 at UCI. The workshop was well attended by undergraduate as well as graduate students. Sara Le, HR Business Partner, Tower Jazz and Dr. Shireesh Verma, Chair, Engineers-In-Transition OC were guest speakers; they also reviewed resumes at the end of the session.

We also organized a very informative talk titled “Healthcare Information Technology Standards for Interoperability” by Gora Datta jointly with IEEE Orange County Communications Society and Signal Processing Society.

We have put together a career resource website at http://eitoc.wordpress.com/ . It is still under development and suggestions on how we could help people better are welcome. Please send your suggestions to shireesh@ieee.org.

Smart Meter Report

We will be releasing a report on potential effects on health of radiations from electric Smart Meters in March 2011. Paul Donhue and Dr. Shireesh Verma are coordinating the effort with inputs from experts among our membership. Council on Science and Technology (CCST) has specifically requested our feedback. It is a part of IEEE-CCST partnership, and largely in response to a thorough study on the topic released by CCST upon a request from California Legislature.

IEEE California Public Policy Internship

IEEE California Public Policy and Government Activities group announced an unpaid Public Policy intern position. It is a unique opportunity for students to get exposure to the legislative policy making process and to play an important role on initiatives resulting in formulation of government policies.

For details please visit http://ewh.ieee.org/r6/ocs/index.php?option=com_content&task=view&id=180&Itemid=107 or email shireesh@ieee.org
Preliminary Call for Papers
IGIC 2011 http://ice-gic.ieee-cesoc.org

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 in Hong Kong 2010, this conference aims to be 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.

Submissions: Authors are invited to submit two page papers that describe significant, original, and previously unpublished work. The initial submissions can be extended abstracts that include diagrams of ideas and early results from preliminary research and development. All papers will be refereed for presentation and publication on the basis of their relevance, technical soundness, novelty, clarity, and overall scientific or engineering contribution. At least one author must attend the conference in person to present the accepted paper for it to be included in the Conference Proceedings, IEEE Xplore and Engineering Index. Full papers may be submitted to the CE Transactions, after the conference. These papers must comply with the requirements of the CE Transactions.

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

Industry Track: New this year is the opportunity (primarily for presentation with less focus on full-paper publication)

Cloud based games
Networked games
Location awareness
Infrastructure
Performance
Latency
Architecture
Security

Development and Production
Design of games
Tools
Software-Hardware interdependence
Graphics
Animation
Content generation
Artificial intelligence
Cinematography

Interfaces
Interoperability
Wearable devices
Biometrics
3D effects
Haptics
Gaze
Proximity
Audio
Gesture

Beyond Entertainment
Health/exercise
Education
Training
Business
Advertising
Social Change
Usability beyond games

Multi-player Games
Cloud based games
Networked games
Location awareness
Infrastructure
Performance
Latency
Architecture
Security

Platforms
Mobile/handheld
Computers
Consoles
Portable consoles
Cloud servers
Network servers
System architecture
Network architecture

Technology
Multi-core processors
Mobile SoC
Memory
3D Display
3D Graphics
Augmented reality
Virtual reality
Game mechanics
Storage
Vision/imaging
Wireless/RF
MEMS/Nano devices

User Experience
Playing experience
Behavioral impact
Social impact
Player modeling
Learning
Cultural impact
Lessons from games

Special Sessions: Panels, Workshops and Tutorials:
IGIC 2011 is also planning for 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.

For full details visit:
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