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*IEEE/Orange County Website:*  
**[www.ieee.org/ocs](http://www.ieee.org/ocs)**

**With thanks to our sponsors:**

**The Chair's Corner:**

With new volunteers recruited in February Volunteer Night, the month of March has been very busy for the Orange County Section (OCS) and our leadership is building up. We have planned several programs to enhance membership benefits and participation in Orange County. We are very excited to announce that we will start *iDollar* for volunteers and Section-level technical events in April. As reported last month, we will nominate Chapters-/Section-level outstanding engineers and leaders and nominate the winners for Section-level, Area-level and Region-level awards.

As an effort to encourage Senior IEEE Members to elevate themselves to the highest Fellow stature, we will continue to profile IEEE Fellows in the newsletters. In another note, we have started to work on a project to recognize all volunteers at the website as we will celebrate the 50th anniversary of OC Section next year.

As always, I hope you will visit the Orange County Section and Chapters' websites and I welcome your advice and feedback on ways to continually improve membership benefits.

Best,

John Collins, Ph.D.

Chairman, IEEE Orange County Section

<http://www.ieee.org/ocs/>



## Region 6 Awards

The IEEE Region 6 gives a total of 6 Awards per year recognizing the outstanding contributions and accomplishments of IEEE Members, Sections, Student Branches, and Corporations within each Area and also the Region 6 as a whole. This package provides an overview of these 6 annual awards, along with nomination forms to cover all the categories of these awards. The six annual awards of Region 6 are as follows:

1. Region 6 Outstanding Engineer Award
2. Region 6 Outstanding Leadership and Professional Service Award
3. Region 6 Outstanding Section Award
4. Region 6 Outstanding Corporate Service to Engineering Community Award
5. Region 6 Outstanding Student Branch Award
6. Region 6 Director's Special Award (Maximum of 4 Awards per year)

<http://ewh.ieee.org/reg/6/>

- Chapter/Section level award winners will be forwarded to Region 6 Awards

## Chapters Awards

Nominations are sought for Chapter Awards. There are 10 technical Chapters in the Orange County Section (OCS). Please, send nominations to pertinent Chapter Chairs with a copy to OCS Awards Coordinator. The contact information of Chapter Chairs is found at the section website: <http://sites.ieee.org/ocs/chapters/>

## Section Awards

The best nominations from the Chapters will be considered for Section Awards. In addition, IEEE Members who are not part of any Chapters can directly send their nominations to Awards Coordinator.

The IEEE Orange County Section/Chapters would like to recognize and award IEEE Members for their outstanding contributions and accomplishments. These awards winners will be nominated for Area level or further Region level awards.

The awards are for the following areas:

### 1. Outstanding Engineer Award:

This Award is designed to recognize IEEE Members of Orange County Section/Chapters who, through their technical abilities, have made outstanding contributions to their profession. It recognizes the development of new technical concepts, significant patents, development of new devices, development of applications, new designs, and significant cost reductions using known techniques.

### 2. Outstanding Leadership Award:

This Award is designed to recognize IEEE Members of Orange County Section/Chapters who, through their professional and technical abilities, have made outstanding and noteworthy contributions to the Institute, their communities, fellow professionals and fellow man. The Award is not designed to recognize a single achievement, but rather collective contributions complemented by singular works exemplifying the objectives and attributes of IEEE.

### Awards Procedure Guidelines:

#### Process Overview

The nominations for the Awards are submitted directly to Awards Chair. The Awards Chair compiles all the submissions and forwards them to the Awards Committee to review the nominations and select the winners. The Orange County Section/Chapter Awards are presented to the winners at the Annual Orange County Section Awards dinner in May.

#### Awards Schedule

Call for Nominations: March 12

Nomination Submission Deadline: April 13

Awards Recipients Notification: April 30

The awards packet is available at <http://sites.ieee.org/ocs/awards/>

Mr. Alvin Joseph, Awards Coordinator

Phone: (714) 552-2489

E-Mail: [alvin.at.ieee.org](mailto:alvin.at.ieee.org)

## The IEEE Orange County Upcoming Events

### April 23 Machine Learning and the Data Deluge

Speaker: Professor Max Welling, PhD  
Associate Editor in Chief IEEE Transactions on Pattern Analysis and Machine Intelligence  
Associate Director of the Center for Machine Learning and Intelligent Systems  
School of Information and Computer Sciences, UCI

**April 28**  
IEEE GameSIG Presents Student Game Developers in **The First Annual Intercollegiate Computer Game Showcase** at Chapman University and featuring UCI, CSUF & Chapman University

**May 21**  
**Introduction to iOS:  
iPad and iPhone Programming**  
Speaker: Professor Michael Shafae  
College of Engineering and Computer Science, California State University - Fullerton

**Oct 24**  
**IEEE OC Tech Job Fair**

**Oct 24**  
**IEEE OC Student Design Contest**

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

## IEEE OCS Volunteers in the last 50 years

As we celebrate the 50th anniversary of IEEE/OCS next year, we would like to post biographies of all of our volunteers (section level and chapters level) on our website – both to give visibility and kudos to the volunteers, and to motivate new members to join the efforts.

Many of you already have a biography that we can post, and if you send your biography to [lin.crampton.at@gmail.com](mailto:lin.crampton.at@gmail.com), we can get it posted.

For those of you who do not have a biography handy, some of the things that are good to include are:

- Name
- Current IEEE position
- Picture
- Contact (email address, linked-in, twitter)
- Education
- Career highlights and achievements
- Publications (papers, books websites, blogs)
- IEEE membership history and past positions
- Other professional organizations or associations
- Personal information – optional

A biography on the IEEE site carries a lot of Internet authority, so we encourage you to take this opportunity to highlight your achievements. If you are uncomfortable writing about how wonderful you are, send an email answering the bullet points above to [lin.crampton.at@gmail.com](mailto:lin.crampton.at@gmail.com) and she will do a rough draft that you can use as a starting point. You will have final approval on the biography we post.

Included below are some links to IEEE biographies to give you an idea what an IEEE biography looks like.

[http://www.ieee.org/about/awards/bios/emberson\\_recipients.html](http://www.ieee.org/about/awards/bios/emberson_recipients.html)

<http://ewh.ieee.org/r1/princeton-centraljersey/bios.html>

<http://cpmt.ieee.org/about-cpmt/61-cpmt-member-at-large-bios>

<http://www.usfirst.org/community/volunteers/senior-mentor-bios>

<https://www.csunalumni.com/default.aspx?Page=VolunteerServiceEmeritiBios>

<http://minesonline.net/s/840/NHindex.aspx?sid=840&gid=1&pgid=496>

### Contact:

[lin.crampton@at.gmail.com](mailto:lin.crampton@at.gmail.com)

## OCS History Committee Report

I am seeking any history source of information regarding the early OC IEEE. I had lived and worked in LA County and was active in the LA Section in the IRE Professional Group on Automatic Control, didn't move to OC 'till '65 and wasn't really active in the OC section 'till the early 70's ... so my ignorance runs deep. I really need your help in reconstructing the "early days" of our OC Section.

If I've already impused you, please respond. If I haven't please take the initiative and shout, "Yes, I remember something ...!" I'll bet you do.

Thanks.  
Stan.White@ieee.org

## iDollar Logistics

We introduce iDollar as an incentive to all volunteers for their involvement in Section's programs. The iDollar can be used towards registration, food and other fees at the Section's events. The iDollar will serve as a motivator for volunteer involvement, their professional development and extending benefits to all IEEE Members.

The iDollar will bankroll the cost of a volunteer attending Chapter or Section events. As an incentive, we propose to issue ten \$5 iDollars (\$50 total) to each new volunteer. We will have a registry of all their names and IEEE Member numbers from those who were issued these iDollars, signed by the volunteer. The issued iDollars will have the volunteers' name and member number at the back of the bill. When the volunteer attends a Chapter (or Section) event, s/he shall put the event name and date at the back of the bills and hand them to the Chapter (or Section) Treasurer/Event Coordinator. In the following Section meeting the Chapter Treasurer will sign the back of the iDollars collected and redeem them as chapter funds from the Section. The Section will verify the bills against the registry before transferring funds to the Chapter. The volunteer does not get cash, the Chapter Treasurer redeems the funds to the Chapter. To add security, a wet stamp will be used on all iDollars issued to a volunteer.

We are confident that the iDollar program is simple and secure to attract and involve new volunteers at the Orange County Section.

Mario Manansala  
manansala.at.ieee.org

### UCI Engineering Events

## Newsletter Inputs

We will publish IEEE Orange County Section Newsletter in the beginning of every month. Please provide any Orange County news, engineering conference details, expert view on engineering in Orange County, engineering article or engineering success story to info@nanomems-research.com no later than the 15th of a month. We'll publish the items in the following month. In your e-mail, please, enclose your news item between two lines of "+" characters, i.e.:

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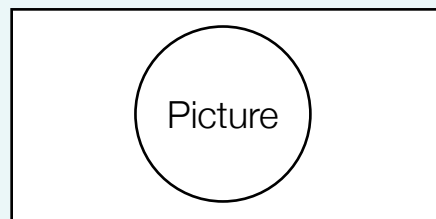
News Item Title

Newsletter content Newsletter content, Newsletter content Newsletter content  
Newsletter content Newsletter content, Newsletter content Newsletter content

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We will be transitioning to a website-only submission model in which your news inputs may be submitted at any time. Information on the website address and logistics, will be provided soon. Please, stay tuned.

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



IEEE Orange County Computer Society (OCCS) Is Pleased to Present:

## Machine Learning and the Data Deluge

<b>Date:</b>	<b>April 23, 2012</b>
<b>Topic:</b>	<b>Machine Learning and the Data Deluge</b>
<b>Speaker Name and Affiliation:</b>	<b>Professor Max Welling, PhD</b>
<b>Abstract:</b>	<p>The current estimated worldwide data volume is 2 zettabytes (1 zettabyte is 1 billion terabytes) and doubling every 1.5 years. Google alone stores 120 billion images in their databases (That is 38 images per second for 100 years). McKinsey's 2011 report calls Big Data "The next frontier for innovation, competition, and productivity". Google's search engine and IBM's Watson show that we are witnessing the birth of a new kind of artificial intelligence that is quite different from the human inspired artificial intelligence that we anticipated 20 years ago.</p> <p>In my talk I will discuss topics from the field of machine learning and how it has contributed to the "Intelligence from Big Data" revolution. We will see how through crowd-sourced market places humans are helping to build more intelligence machines, and how machines can multiply their intelligence by pooling their wisdom. I will describe some of the most common and useful machine learning algorithms at a high level and end with an outlook on how the combined power of computing, big data and learning algorithms will change our world in the near future.</p>
<b>Speaker Biography:</b>	<p>Max Welling is a Professor of Computer Science at UC Irvine with a joint appointment in the statistics department. Before joining UCI he held postdoctoral positions at Caltech (1998-2000), University College London (2000-2001) and the University of Toronto (2001-2003). He received his PhD in 1998 in theoretical physics.</p> <p>He is associate editor in chief of the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), and the associate director of the Center for Machine Learning and Intelligent Systems at UCI. He also serves on the editorial boards of JMLR and JML and was an associate editor for Neurocomputing, Journal of Computational and Graphical Statistics and TPAMI. In 2009 he was the conference chair for AISTATS.</p> <p>He received multiple grants from NSF, NIH and ONR-MURI among which an NSF career grant in 2005. He was recipient of the Dean's midcareer award for research in 2008 and the ECCV Koenderink Prize in 2010.</p> <p>His research focuses on large-scale statistical learning. He has made contributions in distributed Bayesian learning, variational Bayesian learning, learning of Markov random Field models, approximate inference in graphical models, hierarchical models of complex cells and products of expert models, algorithms for learning image taxonomies, visual object recognition, information retrieval, image de-noising, and statistical shape analysis. He has over 100 academic publications.</p>
<b>Time:</b>	6:00PM - 9:00PM – Social Hour: 6:00 p.m., Presentation: 7:00 p.m.
<b>Location:</b>	UC Irvine, University Club, Library Room (Free Parking) 801 E. Peltason, Irvine CA 92697 (Dr East Peltason & Los Trancos Dr)
<b>Reservation:</b>	<a href="http://occs.ieee.org">http://occs.ieee.org</a>
<b>Contact:</b>	Frank Nothaft at <a href="mailto:fnothaft@ieee.org">fnothaft (at) ieee.org</a>

### Section ExCom meeting for April

**Date:** April 3th, 6pm

**Venue:** NetServe Systems, Inc. (Host: Abdi Ahmed)

**Address:** 1360 Reynolds Ave, Suite 120 Irvine, CA. 92614

#### Remote Participants Conference Call

Dial-in Number: (605) 475-4000

Participant Access Code: \*\*\*\*\*#

Please RSVP to join the meeting in person or receive a remote participant access code to Vice Chair, Alvin Joseph <[Alvin@ieee.org](mailto:Alvin@ieee.org)>

Please note that remote participants will be in Mute Mode from 7-8pm and audio will be enabled from 8-8:30pm

## 2012 IEEE OC Section Technical Events

<b>Date:</b>	<b>April 24th, 2012 (Tuesday)</b>
<b>Topic:</b>	<b>Accounting Principles for Engineers in Small Business</b>
<b>Speaker Name and Affiliation:</b>	<b>Mr. CP Krishnan</b>
<b>Abstract:</b>	Each business decision that one makes has a financial impact on the business. Understand and use the right tools to optimize results. Learn how to use the basic financial statements and other key measurements to improve decision making, interpret company's financial signals, and gain "plain English" understanding of basic accounting terminology. Learn to communicate with financial professional and investors to attract capital for growth. This Basic level workshop is designed to assist engineers in business to understand the Principles of Accounting relevant to the Engineering Industry and its unique elements. This seminar is designed to be very interactive with several case studies.
<b>Speaker Biography:</b>	<b>C. P. Krishnan or CP</b> as he is more commonly known is an accomplished business owner at the helm of the global business consulting firm of CAK International, LLC (CAK), with corporate offices in Newport Beach-CA, Dallas-TX, Washington-D.C., and New Delhi-India. CAK specializes in Business Infrastructure Development & Capacity Building within companies. CAK also serves an important role in the Post-Enron world of corporate financial compliance & governance within publicly traded corporations. CP's career path extends back to India, where his involvement with the United States Embassy as a Commercial Trade Specialist developed his keen aptitude and desire for business. He has attained advanced educational qualifications including Certifications in Accounting & Auditing, Certified Internal Auditor, Associate Chartered Accountant, Post Graduate in Computer Programming, Masters in Business Administration (MBA), and Certified as a Specialist in Sarbanes Oxley Compliance & Corporate Governance. He has held high level positions in the corporate environment, and has worked in premier banking institutions such as Citibank and the Big Four Accounting Firm of Coopers & Lybrand. One of the hallmarks of CP's career has been his involvement with the small business sector. Through his firm CAK he has reached over 250 companies in the past 12 years of operation. The measurement of success in this case extends beyond simple numbers and ratios. It is the intangible sense of satisfaction & pride in the lives of others, especially the small business owner and their employees. Through the strategic alliances developed with the Small Business Administration (SBA), Orange County Chapter of SCORE, Inland Empire SBDC, and various Non-Profit & Community Organizations, CP has assisted hundreds of clients in Planning, Funding, Forming, Running, and Growing a business.
<b>Time:</b>	6:00 pm – Food and Networking 7:00 pm – 8:00 pm
<b>Location:</b>	UC Irvine, University Club, Library Room (Free Parking) 801 E. Peltason, Irvine CA 92697 (Dr East Peltason & Los Trancos Dr)
<b>Reservation:</b>	Pre-register at <a href="http://www.miniurl.com/sa/cptalk">http://www.miniurl.com/sa/cptalk</a>
<b>Fee for Food:</b>	\$5 for pre-registered members/volunteers (i\$) \$10 for unregistered members/volunteers <b>(Receive free i\$50 by volunteering in IEEE OC Section or Chapters)</b>
<b>Contact:</b>	Send questions to OC Section Program Chair, "Ciaran O'Donnell" email: <a href="mailto:ciaran@josephmediatools.com">ciaran@josephmediatools.com</a>



## Update on New Chapters Formation:

### AES and CES Chapters

On March 21, 2012, a few volunteers from the AES and CES Chapters met with Section officers to petition the formation of both the chapters.

#### Interim Chair of AES Chapter:

Dr Dmitry Altshuller – dmitry.altshuller.at@gmail.com

#### Interim Chair of CES Chapter

Mr. Reginald Little – reggielittle.at@gmail.com

## Future OC Section Events

May 23rd 6pm	Prof. Mark Bachman (e-Health integrated sensor systems)
June 12th 6pm	Dr. Dmitry Altshuller (Control Systems and tutorial)
September	TBD Entrepreneurial Principles for Engineers
October	TBD (Project Management for Engineers)
November	TBD (Consumer Electronics)

## FE Exam schedule

YEAR	PE, PS, SE Vertical	FE*, FS*, SE Lateral
2012	Apr 13, Oct 26	Apr 14, Oct 27
<a href="http://www.ncees.org/Exams/FE_exam.php">http://www.ncees.org/Exams/FE_exam.php</a>		



We have 16 teams and 62 students participating in the competition. Each team will receive a hard disk as a generous gift from Western Digital. Important dates:

April 20, 2012 (Friday 11:59pm) – Proposal Submission

May 16, 2012 (Tentatively – Wed. 2pm-7pm) –

Final Presentation of top 5 teams and Awards Reception

<http://www.clubs.uci.edu/ewh/design-competition/>

Prof. William Tang, Chair EMBS Chapter, [Wctang@uci.edu](mailto:Wctang@uci.edu)

## UCI Engineering Events

<http://www.eng.uci.edu/events>

Title	Location	Date	Time
<b>RapidTech Open House</b>	445 Engineering Tower	Apr 5th	4:00 PM
<b>Interface and Surface Energetics of Nanocrystalline Oxides</b>	McDonnell Douglas Engineering Auditorium	Apr 6th	3:00 PM
<a href="http://www.eng.uci.edu/events/2012/2/interface-and-surface-energetics-nanocrystalline-oxides">http://www.eng.uci.edu/events/2012/2/interface-and-surface-energetics-nanocrystalline-oxides</a>			
<b>Interfacial Rheology of Biological Interfaces</b>	McDonnell Douglas Engineering Auditorium	Apr 13th	3:00 PM
<a href="http://www.eng.uci.edu/events/2012/3/interfacial-rheology-biological-interfaces">http://www.eng.uci.edu/events/2012/3/interfacial-rheology-biological-interfaces</a>			
<b>Smart Nanomedicines Using Biomedical Nanomaterials</b>	McDonnell Douglas Engineering Auditorium	Apr 20th	3:00 PM
<a href="http://www.eng.uci.edu/events/2012/2/smart-nanomedicines-using-biomedical-nanomaterials">http://www.eng.uci.edu/events/2012/2/smart-nanomedicines-using-biomedical-nanomaterials</a>			
<b>Towards Reversing Retinitis Pigmentosa: Re-engineering Photoreceptor Mosaics</b>	Natural Sciences II 3201	Apr 20th	3:30 PM
<a href="http://www.eng.uci.edu/events/2011/12/towards-reversing-retinitis-pigmentosa-re-engineering-photoreceptor-mosaics">http://www.eng.uci.edu/events/2011/12/towards-reversing-retinitis-pigmentosa-re-engineering-photoreceptor-mosaics</a>			

# The First Annual Intercollegiate Computer Game Showcase

And it's all **Free Free Free** if you **RSVP!**

**Saturday April 28, 2012 from 2:00pm - 6:00pm at Chapman University**



Come to the **Intercollegiate Computer Game Showcase** at Chapman University on Saturday April 28th at 2:00PM in the Folino Theater and cheer your favorite University as student teams go head-to-head showing off their games before a panel of judges from our internationally renowned Orange County Video Game Industry. There are rumors that University Cheer Leaders may attend to inspire their teams.

Game Development Students from UC-Irvine, Cal State Fullerton, Chapman University, Cal Poly Pomona, Westwood College, and other local colleges will present their best student developed video games for judging by video game industry leaders. The event will include a reception with refreshments, game demonstrations by the student developers, a job fair, and a Big Screen Game Fest with the Xbox 360 and a Wii (so far). Put on your game face and come to cheer your favorite school, watch demos and play games. There will be no speeches, just games. There will be prizes.

Microsoft will award an Xbox 360 as a prize. Microsoft will also award two Windows phones to the best Windows phone Games or Apps. Western Digital is giving away 25 My Pocket Essential 500GB drives.

The public is invited to attend this kick-off of what we hope will come to be an annual intercollegiate competition. And its all **FREE FREE FREE** (if you **Register**) at : <http://gamesig.eventbrite.com>

- 2:00PM - 4:00PM The best developers of the universities will compete for honors before our panel of judges. who are local Game Industry leaders such as (in no particular order) David Perry (Gaikai), Tommy Tallarico (GANG), Matt Findley (inXile), William Fisher (Quicksilver), Kevin Martens (Blizzard), Robert Rose (SpaceX). This panel is a lively bunch, and it may seem more like American Idol than an academic event. Student game developers will have ten minutes to shock and awe the judges.
- 4:00PM - 6:00PM We will have a casual Game Demo Session, Job Fair, and Reception. The audience will have the opportunity to get some hands-on time with the games created by the finalists and semi-finalists, enjoy refreshments, and visit with recruiters from companies like SpaceX and Western Digital. So, **BRING YOUR RESUME!**
- 6:00PM until ? - Casual Game Fest. An After Party featuring Big Screens, an Xbox, a Wii, and maybe some of the finalist's games will be setup for the attendees' enjoyment. This has proven to be much fun for the audience at our past events. It's Saturday night, so we can play into the wii hours, as pleases us.

**Nota Bene:** Parking is \$2.00, unless you are one of the first 100 to register. Chapman University's Schmid College will provide free Parking Permits to the first 100 Registrants who request them. Please do not request one if you are not driving. Also, seating is limited.

**To submit a game, if you are a student, go to <http://gamesig.org/showcase>.**

**Call (800) 548-1969 or email [dblack@computer.org](mailto:dblack@computer.org) with questinos.**





## Stanley A. White

**Stanley A. White**, (S'55, M'57, SM'69, F'82, LF'93) Chair of the OCS History Committee, sawwhite@aol.com

**Education:** Purdue University, BSEE'57; MSEE'59; Ph.D.'65.

**Military:** US Air Force, Strategic Air Command. Served during Korean War and two tours on the Atlantic Missile Range.

**Career:** Taught EE full time for 2 years, part-time for 3 years at Purdue; aircraft jet engine R&D engineer at Allison Div. of GM, 1955-'58; 31-year engineering career at North American Aviation/Rockwell International developing inertial navigation, flight-control, communications and radar systems. Retired as Chief/Senior Scientist, retained as Scientific Advisor for 10 more years. Founded and operated SPACECorp™, an aerospace-engineering consultancy, for another 13 years. Taught over 30 years at UCLA (Aerospace Engineering) and UCI (ECE) as Adjunct Prof.

**Publications & Patents:** Coauthored 3 textbooks; authored over 100 unclassified conference papers, magazine and popular-press articles, book chapters, peer-reviewed journal papers, monographs and research reports; wrote twelve sections for the 8th, 9th and 10th editions of The McGraw-Hill Encyclopedia of Science and Technology. Awarded 82 U.S. (plus several foreign) patents on unclassified guidance, navigation, control and communications devices, architectures and systems; integrated-circuit manufacturing, testing and packaging methods.

**Committees:** served on IEEE External Awards Committee; on the AES, CAS, CS and SP societies' technical, conference and administrative committees; Asilomar Conference Steering Committee 1980-2002 and Director 1988-2002; on the SPS Conferences Board 1982-1988; as an ABET ad hoc visitor '80-'85.

**OCS Societies:** founder and first chair (1981) of the OC Chapter of what is now the Signal Processing Society.

**IEEE Activities - Awards:** Centennial Medal, 1984; Signal Processing Society's Distinguished Lecturer Award, 1990; Circuits and Systems Society's Technical Achievement Award, 1996, and Golden Jubilee Medal, 1999; Third Millennium Medal, 2000; Vladimir Karapetoff Outstanding Technical Achievement Award, 2005.

**Conference Chairmanships:** IEEE Computer Society's Asilomar Conference on Signals and Systems (ACSS)

Technical Program Chair, 1981, and General Chair, 1982, Pacific Grove; IEEE Region VI Technical Program Chair, 1982, Anaheim; IEEE 1983, International Symposium on Circuits and Systems (ISCAS'83) Vice Chair, Newport Beach; IEEE 1984 International Conference on Acoustics, Speech and Signal Processing (ICASSP'84) General Chair, San Diego; Society of Photo-Optical Instrumentation Engineers Conference on Real-Time Signal Processing (SPIE'85) General Chair, 1985, San Diego; ISCAS'92 General Chair, San Diego; ISCAS'98 Co-General Chair, Monterey.

**Other - Awards:** Caltech Royal Sorensen Fellow, 1982; elected Fellow of the Institute for the Advancement of Engineering, 1982; of the American Association for the Advancement of Science, 1985; of the New York Academy of Sciences, 1986; Assoc. of the American Institute of Aeronautics and Astronautics, 1995. Orange County Engineering Council Engineer of the Year, 1984; Rockwell International Engineer of the Year, 1985; Leonardo da Vinci Medallion, 1986. Purdue University Distinguished Engineering Alumnus Award, 1988; Purdue Outstanding Electrical Engineer Award, 1992.

**Other Professional Activities:** HKN Director, 1980-1982; NSF Chair on "Applications of VLSI to Communications and Signal Processing Systems"; founder/ chair for a quarter century of the OC Chapter of Sigma Xi, The Scientific Research Society. Consultant to NSF for evaluation of "National Centers of Excellence." Member of the Electronics Industries Association (EIA) working group on filtering standards.

**P.E.** IN'62, CA'77.

**Personal:** Life is now dominated properly by friends and family; by volunteer work at Mission Viejo's Mission Hospital/Regional Medical Center; for the VA, visiting and assisting disabled and aged fellow vets; and the many ministries of the Mission Basilica San Juan Capistrano.

**Misc.** Filled any open slots on the OCS XCOM, taught IEEE courses.





## IEEE Fellow Nomination

**Deadline March 1, 2013**

**IEEE Fellow Web Site** [www.ieee.org/fellows](http://www.ieee.org/fellows)

**Evaluation Process.** The process consists of two evaluations. The first evaluation is completed by the IEEE Society/Technical Council that the Nominator identified on the nomination form. The IEEE Society/Technical Council evaluation is extremely important, because it is an impartial and even-handed view of the nominee's merit, by persons who are familiar with his or her work. Once the IEEE Society/Technical Council evaluation is completed, their comments and scores are given to the IEEE Fellow Committee for the second evaluation.

All nomination materials are forwarded in confidence to the IEEE Fellow Committee. The IEEE Fellow Committee has 51 members plus a chair. All committee members are IEEE Fellows and selected to represent the 10 IEEE Regions, and have expertise in the technical areas represented by IEEE Societies/Technical Councils.

The IEEE Fellow Committee recommends nominees to the IEEE Board of Directors, according to the following criteria.

Significant contributions as Application Engineer/Practitioner, Educator, Research Engineer/Scientist, and Technical Leader.

- Evidence of technical accomplishments
  - Evaluation by the IEEE Society/Technical Council selected by the nominator
  - Confidential opinions of references and endorsers
  - Service to other professional engineering societies
  - Total years in the profession
- Each nominee is rated numerically on the basis of this information.

### Responsibilities of a Nominator

- Complete the IEEE Fellow Online Nomination Form and submit it to the IEEE Fellow Committee by 01 March.
- Identify a minimum of 5 References up to a maximum of 8. (The Fellow Committee recommends 8 References be identified to avert any problems regarding reference eligibility).
- Identify an IEEE Society/Technical Council that best reflects the nominee's field of technical accomplishments.
- Identify up to 3 Endorsements (optional).

## 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@nanomems-research.com](mailto:info@nanomems-research.com)

### Advertising Rates

\$1000/full page

\$500/half page

\$250/ quarter page

Hector J. De Los Santos

IEEE Orange County Section Newsletter Editor

## Sponsors

We thank the sponsors:



**Knobbe Martin Olson Bear –  
Hosts OCEN and other  
Entrepreneurial meetings**

[www.knobbe.com](http://www.knobbe.com)



**Western Digital – Provides  
prizes/funding for students  
participating in Design  
competitions**

[www.wdc.com](http://www.wdc.com)



**Netserve Systems – Hosts  
IEEE OCS ExCom Meeting**

[www.netservesystems.net](http://www.netservesystems.net)



**Brandman University – Hosts  
eight IEEE meetings per year**

<http://www.brandman.edu>



**ETAP Facility - Hosts IEEE  
Section / Chapter Meetings**

[www.etap.com](http://www.etap.com)

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

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 GLOBECOM 2012 The Magic of Global Connectivity

The 2012 IEEE Global Communications Conference (GLOBECOM) will be held December 3 – 7, 2012 at the Disneyland Hotel Conference Center in Anaheim, CA.

The conference will feature a comprehensive technical program including 12 Symposia and a number of Tutorials and Workshops. GLOBECOM 2012 will also include an attractive industrial and forum program including keynote speakers, various Business, Technology and Industry fora, and vendor exhibits.

Prospective authors are invited to submit original technical papers for presentation at the conference and publication in the Proceedings. Proposals for Tutorials, Workshops, and Fora are also invited. Please visit the GLOBECOM 2012 website: <http://www.ieee-globecom.org/2012> for details about the conference and submission information.

If you are interested in volunteering for the conference, please contact Shelley-Grace Herman, Conference Operations Chair at [s.g.herman@ieee.org](mailto:s.g.herman@ieee.org).

### Volunteers Needed:

At this time, we are specifically looking for a volunteer to serve as Student Affairs Coordinator.

# 2012 IEEE Orange County Section — Executive Committee

## Section Officers:

### Chair

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### Past Chair

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### Microwave Theory Techniques / Electron Devices Joint Society(MTT/ED)

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