

**the
LYNX**

March 2013

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The Chair's Corner:**VISIBILITY - CREDIBILITY - VIABILITY**

My Dear Fellow IEEE Members -

The future economic health of Orange County lies in economic growth. Economic growth is fostered by new business and new technology. You and the IEEE can help by creating an environment in which new technology can develop and new businesses can prosper.

Innovation occurs at both ends of the business power spectrum - i.e. the startup and the mature business; the mom-n-pop shop and the corporation. Full employment comes with economic growth - a demand for productivity and labor. Lets give Silicon Valley a run for its money. Added productivity drives new jobs in all sectors - its a win-win game.

New IEEE Section Programs

Free Business Card Ads for our members in the newsletter. Send a clean, sharp .PDF of your card to <mailto:lynx@ieee-oc.org?subject=bizcard> and our Newsletter Team will add it to the newsletter and our website. For now, you can renew every month for free.

Industrial Spotlight – A new OCCS program to spotlight a different local business every month in exchange for fiscal support.

IEEE Volunteers of Orange County

Join "IEEE Volunteers of Orange County". Send your name & email address to our Volunteers list and get notices when your help is needed:

<mailto:ieee-oc-volunteers-request@mail.softcafe.net?subject=subscribe>

Center for Multidisciplinary Innovation

Virtual Incubator Initiative – The IEEE Section will join a team of both IEEE members and non-members to study, recommend, and implement a Virtual Incubator to support technological innovation.

(See Wikipedia - http://en.wikipedia.org/wiki/Disruptive_innovation)

Innovation Conference – We will join other local Professional Societies to produce the first IEEE-OC Section multi-disciplinary conference on Innovation. This will be profitable, educational, fun, and lead to new technologies and new industries.

Call for volunteers for our IEEE Infrastructure. (Note: The Section Secretary is Communications Chair; The Section Treasurer is the Fiscal Chair, The Section Vice Chair is the New Initiatives Chair)

Newsletter Team

Thank you, Dr. Hector de los Santos, for your seven years of outstanding service as Newsletter Editor. It sorrows me to replace you. Thank you for offering to train your replacements.

Newsletter Editor* – Responsible for the Lynx Newsletter content. All Lynx articles are now to be emailed to Lynx@ieee-oc.org

Newsletter Liaison – Help Chapter Chairs get articles & events into the Newsletter.

Website Team

Website Editor & Liaison – Responsible for Website content and helping Chapters

continued...

Chair's Corner continued...

effectively use the Website and Social Media (Facebook, LinkedIn, etc). Huge marketing opportunity here. The Chair wishes to create new Web Pages devoted to: Conferences - Local; Conferences - International; Call for Papers (CfP); Extant Incubators (many in The OC)

Careers Team

Jobs Liaison – Acts as Liaison between local industry recruiters and IEEE. Responsible for content of Jobs eMal List.

Career Fair Manager – Manage the annual IEEE Career Fair.

Funding Team will identify funding strategies and sources for worthy Section and Chapter initiatives.

Interdisciplinary Team – Establish relationships with members of other professional engineering societies to achieve our common goals. Aerospace and Communications are huge in The OC.

Section Advisory Board – Consisting of: Industry Leaders; Academic Leaders; Professional Engineering Society Leaders; Community Leaders.

In my Papa's words: *"Planning is essential, but plans are no damn good"*. My plan is to continue to remind you of our Volunteer Opportunities until they are filled.

Sign up online for IEEE [Infrastructure] Volunteer Opportunities here: <http://sites.ieee.org/ocs/volunteer-opportunities/> or send a blank email from your subscribing client here:

<mailto:ieee-oc-volunteers-request@mail.softcafe.net?subject=subscribe>

All My Best,
Dr Don V Black, Section Chair

IEEE OCS Volunteers in the last 50 years

As we celebrate the 50th anniversary of IEEE/OCS this 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, 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 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://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.csun alumni.com/default.aspx?Page=VolunteerServiceEmeritiBios>

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

Contact:
lin.crampton@.at@gmail.com



Sponsors

We thank the sponsors:



Knobbe Martin Olson Bear
www.knobbe.com
Hosts IEEE OCN and SSCS
Chapter meetings



Western Digital
www.wdc.com
Sponsors IEEE Orange County
Section Student Design Contest



Netserve Systems
www.netservesystems.net
Hosts IEEE ExCom Meetings



Brandman University
CHAPMAN UNIVERSITY SYSTEM
http://www.brandman.edu
Hosts IEEE Section and Chapter
Meetings



ETAP Facility
www.etap.com

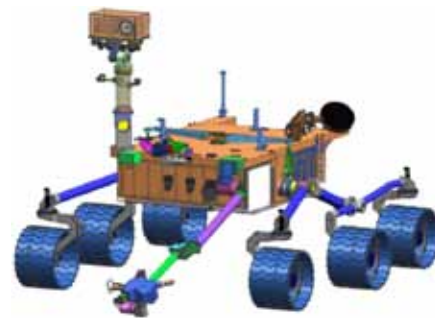


Mathobotix
www.mathobotix.com
Promotes Engineering among
children during IEEE Special Events



**International System-on-Chip
(SoC) Conference**
www.socconference.com
Hosts IEEE OC Section Student
Design Competition and Job Fair

Latest Mars Rover Results & LA/OC Society Expo



WHEN:

Saturday, March 09, 2013

TIME:

2pm to 5pm+ (Doors Open at 1:30pm!)

WHERE:

Room 111 at Brandman University, 16355 Laguna Canyon Rd, Irvine

COST:

FREE (Parking & Admission!)

SPEAKERS:

Lead NASA-JPL Curiosity Mission Engineer (Charles Baker)

MISSION:

“Curiosity” is Latest & Largest Mars Rover (a “Mini-Cooper” on Six Wheels!) carrying Advanced Science Experiments (including a Mars Rock Laser Pulverizer!) & has been exploring Young Martian Crater!

FEATURING:

- Lead NASA-JPL Curiosity Mission Engineer (Charles Baker)
- Amazing Curiosity Engineering & Science Results & Data To-Date Curiosity Landing Site Scale Model, Hardware & Mock-ups
- FREE Bottled Water & Healthy Snacks
- Exhibit Tables from Several LA & OC Professional Societies
- (Planetary Society, IEEE, INCOSE, AIAA, SWE, IET, AFCEA, OCVitalLink, FSEA)

RSVP ASAP to:

<http://mars-03092013.eventbrite.com>

Event Questions to:

Fred Lawler, (657) 464-9314, fredlawler@hotmail.com

***NOTE1:

This is also an LA/OC-Area-Wide Science, Technology, Engineering & Math (STEM) Outreach Event, so High School & College Kids Most Welcome!!!

The IEEE Orange County Upcoming Events

Mar 9, 2013

Special Presentation on Latest
Mars Rover Results & LA/OC
Society Expo

Mar 23, 2013

The IEEE Consultants
Network Invites You to A
March 23 Meeting:
What Works For Me – Part II

April 27, 2013

IEEE Gamesig: Intercollegiate
Computer Game Showcase

Oct 6-11, 2013

European Microwave Week
Nuremberg Convention Center
Nuremberg, Germany

Oct 9-11, 2013

2013 IEEE Broadcast Symposium

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

The IEEE Consultants Network Invites You to A March 23 Meeting:

What Works For Me – Part II

For March, we have asked some of our more-experienced members to share their business experience and practices. We can learn from hearing how they have provided their consulting services and kept their clients happy over the years. As always, this meeting will be helpful to those considering consulting as well as those with an active consulting practice. The Orange County Consultants Network (OCCN) will again be meeting with the Los Angeles Area Consultants Network (LAACN).

Would you like to present your own expertise and background in this type of networking session during a future meeting? It can help you practice your presentation skills and get new clients. If you would like to do this, please contact Bob Gauger at r.gauger@ieee.org.

Meeting Details:

Date: Saturday, March 23, 2013

Time: 10:00 AM Introductions & Presentation
12:00 PM Lunch & Networking

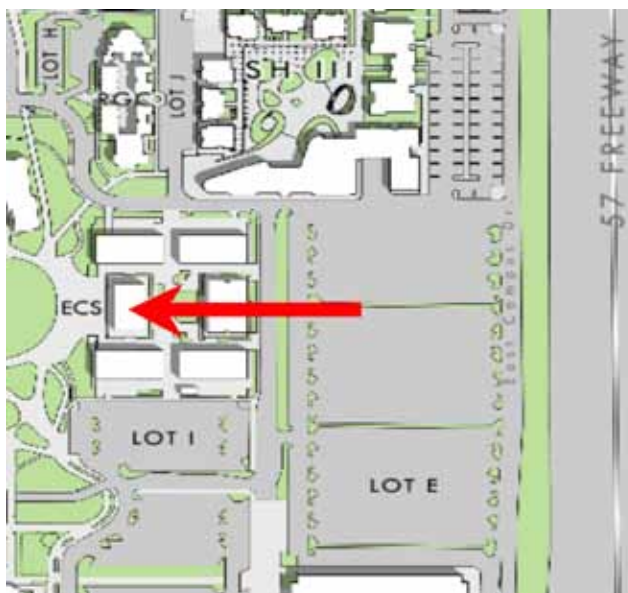
Location: Cal State Fullerton on Nutwood at Route 57 in Fullerton, in the Engineering and Computer Science (ECS) Building, Room 321.

Parking: Saturday parking is free. Enter from Nutwood and take Folino Drive north to Parking Lot E. See maps at parking.fullerton.edu.maps for more detail.

Future meeting: Saturday April 27th+.

Lunch is free with reservation. Send reservations or questions to r.gauger@ieee.org.

Check out the IEEE-USA consultant's website at www.ieeeusa.org/business.



IEEE GAMESIG INTERCOLLEGIATE COMPUTER GAME SHOWCASE

Students from UC Irvine, Cal State Fullerton, Chapman University, Cal Poly Pomona, Westwood College and other local colleges will have only 10 grueling minutes each to shock and awe the judges at our **SECOND ANNUAL INTERCOLLEGIATE COMPUTER GAME SHOWCASE!**

Student teams will compete for recognition and prizes!

Microsoft will award an XBox 360

Western Digital is giving away
25 My Pocket Essential 500GB drives

ALL ATTENDEES 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

SO, **BRING YOUR RESUME!**

LAST YEAR THE JUDGES INCLUDED THESE INDUSTRY LEADERS

David Perry (Gaikai)

Matt Findley (inXile)

Kevin Martens (Blizzard)

Brian Fargo (inXile)

William Fisher (Quicksilver)

Robert Rose (SpaceX)

2-4 p.m.

Finalists pitch & demo their games, awards presentation

4-6 p.m.

Reception, job fair, play the finalists' & semi-finalists' games



Join the FREE event & cheer for your favorite team!

DUE TO LIMITED SEATING, REGISTRATION IS REQUIRED!

Register at <http://gamesig.eventbrite.com>

More information at <http://gamesig.org/showcase>

**SATURDAY
APRIL 27, 2013
DONALD BREN HALL
U.C. IRVINE**

UCIRVINE



EUROPEAN MICROWAVE WEEK

NCC NUREMBERG, GERMANY 6-11 OCTOBER 2013

EXHIBITION HOURS:
TUE 9.30-17.30 WED 9.30-17.30 THU 9.30-16.30

Updates

The Premier Microwave, RF, Wireless and Radar Event in Europe

Nuremberg Convention Center, Nuremberg, Germany

6th October - 11th October 2013

Call for Papers

- Visit Munich Oktoberfest
- Online submission possible from 15th December 2012
- Deadline for submission of papers: 17th February 2013

Visit Munich Oktoberfest

The Munich Oktoberfest, the world famous Bavarian beer festival, will take place in 2013 from September 21st to October 6th, and thus will overlap with the beginning of EuMW 2013. You may easily combine your stay in Nuremberg with a visit to the Oktoberfest since the ICE high speed trains run frequently from Nuremberg to Munich, taking just one hour. During Oktoberfest time, the hotels in Munich will be pretty expensive whereas the hotels in Nuremberg will have normal rates. So commuting from your Nuremberg hotel to Munich and back from Munich might be an excellent idea.

For a limited number of people, on Sunday, 6th October, 2013, 11 to 16 hrs, a special lounge has been reserved at the famous Schottenhamel beer hall for those visiting the EuMW 2013 and who like to experience the spectacle of Oktoberfest in this famous beer tent. The Schottenhamel beer hall is the oldest and most traditional tent, with the Schottenhamel family being represented at the Oktoberfest since 1867. Annually at noon of the first day of the Oktoberfest, the mayor of Munich traditionally taps the first Oktoberfest-barrel. According to his skills, he mostly only needs three hits, before he can call out the famous words "O'zapft is".

We have pre-booked all the hotels for the EuMW 2013 in or very near to Nuremberg's lovely Old Town. All the hotels are within comfortable walking distance to the

main railway station, so you may conveniently visit the Oktoberfest by public transportation. The online registration for Oktoberfest will be available on a first-come/first-served base together with the conference registration from June 2013.

Online registration will be available from June 2013

The Conference

European Microwave Week is truly the premier event of its kind in Europe and its conferences are set to be even more cutting edge and ground breaking in 2013 than in previous years. The European Microwave Week consists of three conferences:

- The European Microwave Conference (EuMC)
- The European Radar Conference (EuRAD)
- The European Microwave Integrated Circuits Conference (EuMIC)

The conferences encompass a wide range of subject areas including:

Microwave components • systems and subsystems for telecommunications • satellite and aerospace • defence/homeland security • radar • automotive • high frequency applications • emerging technologies

This year's event will also see a special event on Defence, Security and Space.

Visit us at www.eumweek.com

The City Of Nuremberg

Located in the south of Germany, Nuremberg boasts a unique mixture of tradition and modern times. Its 500,000 inhabitants appreciate the extraordinary quality of life that this modern city offers. Nuremberg is the centre of a pros

continued...



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

Advertising Rates

- \$1000/full page
- \$500/half page
- \$250/ quarter page

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

European Microwave Week continued...

pering European metropolitan region with 2.5 million inhabitants incorporating cities like Fuerth, Erlangen, Bamberg, Bayreuth, and Wuerzburg. Today in the Nuremberg cityscape its nearly 1000 year history is reflected.

Nuremberg Airport offers numerous direct flights from nearly all major European cities; more than 50 European direct connections are available. From overseas, Nuremberg Airport is easily reached by international flights via Frankfurt or Munich. Within Germany, Nuremberg is excellently connected by national flights as well as through the high speed train network. E.g, the ICE trains from Frankfurt to Nuremberg take 2 hours, from Munich to Nuremberg only 1 hour.



For detailed information please visit www.eumweek.com where you can also submit your paper on-line.

Submissions by hard copy, fax or email cannot be accepted.

The deadline for the submission of preliminary papers is 17th February 2013.

Late submissions will not be considered.

Newsletter Inputs

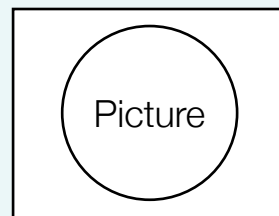
We will publish IEEE Orange County Section Newsletter in the beginning of every month. Please provide any Orange County news, engineering conference details, expert view on engineering in Orange County, engineering article or engineering success story to info@nanomems-research.com no later than the 15th 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 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



2013



IEEE Broadcast Symposium

9-11 October 2013

San Diego, CA USA

Call for Papers

Final deadline for abstracts:
15 April 2013



Please mark your calendar to attend the **2013 IEEE Broadcast Symposium** to be held in San Diego, CA on 9-11 October 2013 (exact venue TBA). This Symposium is produced by the IEEE Broadcast Technology Society.

The Symposium Committee seeks timely and relevant technical papers relating to all aspects of broadcast technology, in particular on the following topics (**new topics for 2013 shown in RED**):

- | | |
|---|---|
| <ul style="list-style-type: none"> ● Digital radio and television systems: terrestrial, cable, satellite, Internet, wireless ● Mobile DTV systems (all aspects) ● Cellular broadcast technologies ● Streaming delivery of broadcast content ● Non-real time (NRT) broadcast services ● "Second screen" technology and services ● Transmission, propagation, reception, re-distribution of broadcast signals ● AM, FM, and TV transmitter and antenna systems ● Broadcast tests and measurements including: co-site interference practices; prediction, measurements and mitigation ● Cable, satellite interconnect w/ terrestrial broadcast | <ul style="list-style-type: none"> ● Transport stream issues ● Translator issues ● Broadcast audio including: CALM act ● Regulatory issues ● Ancillary services ● Unlicensed device operation in TV white spaces ● Next-gen broadcast platforms including: ATSC 3.0, FoBTV ● Reception issues for digital TV & radio ● ATSC & other broadcast standards developments ● Broadcast spectrum issues – re-packing, sharing ● Broadcast studio design & construction including: IT requirements for broadcast, redundancy & survivability |
|---|---|

Call for Tutorials: proposals for half-day tutorials are also solicited based on the topics listed above.

Call for Panels: proposals are solicited for panels on technology, application, business, and policy-related issues and opportunities for the broadcasting industry.

Prospective presenters are invited to submit extended abstracts of 500-1000 words by e-mail to bts@ieee.org. Please indicate that the abstract is submitted to the *2013 IEEE Broadcast Symposium*, and include the corresponding author's full name and contact information including: affiliation, address, e-mail, and phone number. **Final deadline for abstracts is 15 April 2013.**

For more information about the IEEE Broadcast Technology Society, visit our web site: bts.ieee.org.

Dr. Jie Chang, IEEE Fellow

Division Chief Engineer, Power Electronics, ES&C, Eaton Aerospace Group

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Dr. Jie Chang is the Division Chief Engineer (ES&C), Power Electronics, Eaton Aerospace Group. He is specialized in advanced power electronics and embedded electronics & control for aircraft and industrial control systems. He was the founding manager of Department of Control & Power Technology at Rockwell Science Center (RSC). At RSC, he founded the Power Conversion Laboratory and Power & Control programs, extensively supported **Boeing and Rockwell's** new product development and business needs. Rockwell International was a world leading industrial electronics company and is well known in aerospace industry and global market.

Dr. Chang has over 28 years experience in new product development, with rich experience in Aircraft product design and development. He pioneered and advanced the technologies in many fronts of high-performance AC drive systems, **VF-input (PWM) power converters, digital cockpit panels systems**, embedded control systems and low EMI converters. His works not only provide significant literature value, but also result in many important advancements, and unprecedented capabilities and performances for industrial products, improving modern industry automation. He has proven track record for the development of complex embedded control systems and experience in managing electronics full-cycle development programs to regulatory standards.

At Rockwell, Dr. Chang led his team/department and won 12 large contractual research awards valued (total) over 14 million dollars for Rockwell and Boeing. He also served as Program Managers (PM) & Principal Investigators (PI) for several large contractual research programs of Boeing, Rockwell and the U.S. Government (US Air Force, Navy and Army) in his fields. He also served Vice President of Engineering, Electrical South Inc, and Tasc Drives Inc. (USA). He has successfully developed world-leading electronics and power electronics products in full cycles for Rockwell, Westinghouse, etc. Dr. Chang has also played a key role for Eaton's technology development for COMAC C919 digital controlled cockpit panel systems and lighting program.



Dr. Chang is an elected IEEE Fellow. He is **highly recognized in power electronics, AC motor controls/drives, advanced cockpit panels systems, aircraft power conversion and distribution, DSP control systems**, high power conversion systems, embedded electronics, EMI/EMC, and industrial control community worldwide. He has over 100 peer-reviewed technical publications, including Trans. IEEE Aerospace and Electronic Systems, SAE Transactions and major SAE international conferences. He has 8 patents, with 7 additional patents pending.

Dr. Chang serves as a guest professor of two universities. He was a tenured professor of Florida State University (FSU), USA and **Associate Director** of Florida Advanced Power Research Institute. His professional services also include the Guest Associate Editor for Transactions PESL, Panelist of Panel Discussion Sessions, and a number of Technical Committee members and Session Chairs of IEEE sponsored international conferences, etc. He is also an Editor Committee Member of Transactions of China Electrotechnical Society. He is listed in Who's Who in Science and Engineering, Who's Who in the World, and Who's Who in America, Marquis.

2013 IEEE Orange County Section — Executive Committee

Section Officers:

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dblack.at.ieee.org

Vice-Chair

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Treasurer

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Mr. Noah Flaum
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Microwave Theory Techniques / Electron Devices Joint Society(MTT/ED)

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Solid-State Circuits Society (SSCS)

Mr. Farhad Mafie
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