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LYNX***January 2012***Table of Contents**

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IEEE/Orange County Website:
www.ieee.org/ocs

With thanks to our sponsors:

**The Chair's Corner:****by Alvin Joseph**

Greetings and hope you all had a great holiday season!

I recently read in the current issue of IEEE Spectrum Tech alert an article about Life Technologies' (based in Carlsbad, CA) plans to introduce a machine that can map a person's entire genome for just \$1000. This highly affordable genome sequencing makes it very useful for medicine and drug discovery. The machine, the Ion Proton Sequencer, is based on a chip and puts into focus how far semiconductor technology and the computing it enables have enabled remarkable progress in biomedical sciences. To put that into cost perspective, the first human genome was sequenced at a cost of US \$3 billion!

Back to IEEE Orange County Section, we completed a very successful 2011. The chapters put on their usual high quality line up of seminars. I would like all the chapter/society/committee chairs and the extended ex-com for their active contribution to the section last year. Thanks to John Collins, Gary Stephens and Michael Perlongo who worked with me as section officers for 2011. Under John's leadership we launched our annual IEEE OC Section awards this year. Under Michael's leadership we launched our new wordpress website. I also like to thank Farhad Mafie for the extraordinary effort in putting together the highly successful annual job fair and student design contest. I also want to recognize Sam Karikalan for his leadership in creating the Components, Packaging and Manufacturing Technology (CPMT) Society and the great line up of events they were able to put together. Special thanks to Abdi Ahmed (CTO, Netserve Systems) for hosting the section Ex-Com meetings. Special thanks also to Western Digital Foundation for partnering with us on some of our key events and initiatives.

As announced by the nomination committee, we have a new slate of officers for 2012. Additional nominations by petitions are allowed till January 30th per the announcement. We plan to announce the new officers at our February Ex-Com meeting. I'd like to thank the nominating committee (Russell Hunter, John Gibson, R Sampath and Phil Wheeler) for their valuable assistance in the leadership selection process.

Here is the January 2012 Lynx OC section newsletter with updates on IEEE Orange County section activities and upcoming event information. It has been an honor to serve you in 2011 as Chairman of the IEEE Orange County Section and look forward to continue to serve you in another role in 2012. As always, feel free to drop me a line at alvin@ieee.org. Wishing all of you a wonderful 2012!

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

IEEE CPMT OC Chapter — Year 1 Summary

Greetings!

This first year of our IEEE CPMT OC Chapter has been a very good one, so far. With your fantastic support and participation, our chapter has already demonstrated that we are here to play a significant role for the CPMT Community and that Orange County will be a key center of action to shape our industry in future.

Here is a quick recap of what our baby chapter has accomplished in the very few months of our existence this year:

- 1) The All-Day Workshop on “3D Integrated Circuits” on Dec 9, 2011, was a huge success, with over 170 attendees, that included 11 expert speakers (two of them from Europe and one from Korea) and representatives of six sponsors and exhibitors. This event showed what we can accomplish together as a community - bringing world class technology to Orange County at a very affordable price for everyone.
- 2) The Tutorial on “Thermal Design and Modeling of IC Packages”, offered by Dr. Sam Zhao of Broadcom, on Nov 15, 2011 was another successful event. Over 30 attendees benefitted from Dr. Zhao’s expertise at this short course, that came with an unimaginable price tag.
- 3) The two monthly technical meetings in October and September, with talks by by Dr. John Lau and Prof. Chin C. Lee, respectively, both were attended by over 45 people, paving the way for a terrific beginning for our chapter.

I would like to take this opportunity to sincerely thank all the members and volunteers of the chapter, who contributed to such success. As I stated previously in my interview with ric Perfecto, CPMT’s Director of Membership and Chapters, I am blessed to have great teams in both the 2011 Executive Committee and the Workshop Committee, that have done abulous jobs in their respective areas.

With the above updates on 2011, I am also pleased to announce the Chapter’s Executive Committee for 2012, with the following officers nominated and approved to serve. I am thankful for their time and effort for us:

Chairman: Sam Karikalan (Broadcom)

Vice-Chairman: Don Frye (Henkel)

Secretary: Jaydutt Joshi (Skyworks)

Treasurer: Tim Chaudhry (Broadcom)

Technical Program Chair: Weik Koh (Pacrim Technologies)

Technical Program Co-chair: Mehdi Saeidi (Broadcom)

Workshop Chair: Larry Williams (Ansys)

Tutorial Chair: Bob Warren (Conexant)

Membership Chair: Michael Alderete (DRS Sensors)

Publicity Chair: Melissa Lau (Broadcom)

With such broad based support from all the key corporate players in our region, I am sure, our chapter will continue to grow and keep our technical activities vibrant and useful in 2012 as well. At this time, I also would like to make a special mention of the contributions made by Jianjun Li (ExCom Secretary), Fan Yeung (ExCom Tutorial Chair) and Jianfeng Xu (ExCom Publicity Chair) in 2011, whose time will not be available for us in 2012. Thanks much for their service.

We are expecting 2012 to be a very busy year for us. Please stay tuned for more details on our events for 2012. If you have any inputs and feedback and/or are available to serve on any of our workshop committees, please feel free to write to me or contact any of our ExCom officers. If you or your colleagues are available to speak at our monthly technical meetings or workshop, please let us know as well.

Sam Karikalan,
Chairman - IEEE CPMT OC Chapter
samkarikalan@ieee.org

Nov 2011: IEEE-OC Job

(Sponsored by IEEE-OC SSCS Chapter)



Nov 2011: IEEE-OC Student Design Contest

(Sponsored by Western Digital & IEEE-OC SSCS Chapter)



The IEEE Orange County Upcoming Events

Jan 23

IEEE Orange County Computer Society (OCCS): Invention Ownership Issues - Who Owns Your IP - Employer, Employee, Contractor, Entrepreneur?

Brandman University
16355 Laguna Canyon Road
Irvine, CA 92618
1-949-753-4774

Oct 30-Nov 1

IEEE Global Humanitarian Technology Conference
Seattle, WA USA

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

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

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,

David Barber

PO Box 2097

Banner Elk NC 28604 USA

Ph : +1 828 898 7001

Fax: +1 828 898 6379

dbarbsta@aol.com

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

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

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.

Welcome New IEEE members in Orange County!

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

| Member | Grade | Member | Grade |
|----------------------------|-------------------------|----------------------------|----------------|
| | | THAIHOA T PHAN | Member |
| Michael Laur | Associate Member | Dawn Nahia Seute | Member |
| Patrick McLaughlin | Associate Member | David Kirk Switzer | Member |
| Peter Huang | Graduate Student Member | Wenting Wang | Member |
| Xin Jin | Graduate Student Member | Vladimir Baranek | Student Member |
| Sukrit Mukherjee | Graduate Student Member | Ivan Bravo | Student Member |
| Crystal Eunique Rapier | Graduate Student Member | Anh Cao | Student Member |
| Reetika Rastogi | Graduate Student Member | Carolyn Cocco | Student Member |
| Yongjin Ahn | Member | David Dinh | Student Member |
| Allison Auld | Member | Omeid John Eshraghi | Student Member |
| Michael Bell | Member | Daniel Richard Tran Esquer | Student Member |
| Marc Booth | Member | Christopher Michael Hurst | Student Member |
| Stephen Robert Boyer | Member | Aaron Wade Jones | Student Member |
| Cecilia Chung | Member | YOUNG MIN KIM | Student Member |
| chandra sekhar gatla | Member | Andrea Lawler | Student Member |
| Mohammad Kazemi | Member | Jordan Linford | Student Member |
| Jong Koo Kim | Member | Derek Ling En Meng | Student Member |
| Ibrahim Engin Pehlivanoglu | Member | Joshua Oliver Mims | Student Member |
| | | Andrew Q Ninh | Student Member |
| | | Yongwoo Noh | Student Member |
| | | Aaron Ray Paff | Student Member |
| | | Robert Puncel | Student Member |
| | | Nathaniel Burdick Ray | Student Member |
| | | Andrew Sather | Student Member |
| | | Jonathan Soliman | Student Member |
| | | Stephen Yang | Student Member |



IEEE Member Discounts
 Formerly IEEE Financial Advantage Program. Now, better than ever!
 Discover the advantage ▶



2012 Section Officer Candidate Slate

On behalf of the nominating committee (John Gibson, R Sampath, Phil Wheeler, Russell Hunter), I am very pleased to list the following 2012 Section Officer candidate slate for IEEE-OC.

Chair: John Collins

Vice Chair: Alvin Joseph

Treasurer: Mario Manansala

Secretary: Shireesh Verma

Candidates:

Thank you again for willing to serve. To recap, you are expected to serve out your 1-year term, attend all the Ex-Com meetings, fulfill the duties of your role, and provide leadership across the many section activities.

Per Bylaws/Ops Manual: The nominations of the Nominating Committee shall be announced to the Section membership and, following this, a minimum of 28 days shall be allowed for additional nominations by petitions. To be valid, the petition must be signed by 15 or more voting members of the Section membership.

If only one nomination is made for each office, the election shall be declared by acclamation at a meeting of the Section general membership, or the Section Executive Committee. If additional nominations are made, election shall be by ballot, mailed or made available on the Internet to the membership with the vote counted by the Nominating Committee.

Note: Nomination by petition is open until Jan 30, 2012

Russell Hunter

Past Section Chair 2010

RussellH@Computer.org

IEEE CPMT Society Website

Greetings!

Hope you are enjoying a very good holiday season! I would like to share the following news on our IEEE CPMT Orange County Chapter, to end this 2011 on a high note for us.

The IEEE CPMT Society has a new website now at <http://cpmt.ieee.org>. Our Orange County Chapter has been featured as a Case Study at the "Form a CPMT Chapter" page at <http://cpmt.ieee.org/form-a-cpmt-chapter.html>. Please click on the "Read a Chapter Formation Case Study" link in the blue box at the top, to read the interview that was recently published in the CPMT newsletter on the formation of our Chapter. Thanks much all the members and volunteers of our chapter that have contributed to such recognition of our chapter by the CPMT Society.

It is time to renew our IEEE and CPMT memberships for 2012. If you are already a member of IEEE, but not the CPMT Society, please consider adding the CPMT Society to your affiliations, to show your support to our local activities and to participate in our chapter's committees. If you are not an IEEE member or has been inactive in the recent past, please consider joining / rejoining the IEEE and CPMT, for all the technical enrichment and networking benefits that can bring to you.

We also have a LinkedIn Group "IEEE CPMT OC Chapter" at www.linkedin.com/groups?home=&gid=3996387. If you are on LinkedIn, please consider joining this group to remain informed on our activities and to communicate with fellow group members.

Wish you a Very Happy and Prosperous New Year 2012!

Best Regards,

Sam Karikalan,

Chair - IEEE CPMT OC Chapter

samkarikalan@ieee.org

About the IEEE

The Institute of Electrical & Electronics Engineers [IEEE] is the leading organization for the advancement of technology. The IEEE is a 501(c)(3) non-profit, technical professional association of more than 390,000 individual members in over 175 countries. The IEEE Orange County Section serves over 3,700 members in Orange County in addition to the local community.

IEEE Orange County Section

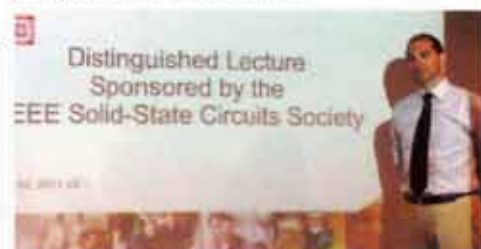
P.O.Box 15264, Irvine, CA 92623-5264

DL Andrea Baschiroto Educates SSCS-Orange County on Analog Baseband Filters for Telecom Receivers

Prof. Andrea Baschiroto, an IEEE-SSCS Distinguished Lecturer from the University of Milan-Bicocca, presented an outstanding talk on "Analog Baseband Filters for Telecom Receivers" to more than 40 engineers from Southern California companies and universities on Saturday, 16 July, at an IEEE-SSCS Orange County Chapter meeting in Irvine, California.

Digital Object Identifier 10.1109/MSSC.2011.942455

Date of publication: 8 November 2011



SSCS DL Andrea Baschiroto lecturing on analog baseband filters at SSCS-Orange County in July.



SSCS-Orange County Chair Farhad Mafie and SSCS DL Andrea Baschiroto.



Everyone participated with many excellent questions, and stayed until the end of the program!

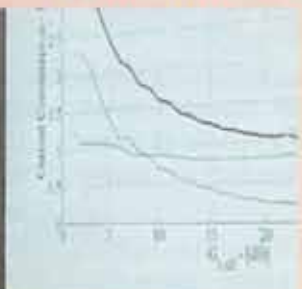
Summary

Analog baseband filters play a significant role in the telecommunications market from performance to power consumption. Prof. Baschiroto described typical filter realizations, such as active-RC and gm-C, as well as new proposed filter topologies such as active-gm-RC, source-follower-based, and gm-gm-C. He also described results with silicon examples realized in scaled CMOS technology (up to the recently proposed analog filter for a 60-GHz receiver).

—Farhad Mafie
IEEE-SSCS Orange County Chair



BASCHIROTO AT SSCS-BOSTON IN AUGUST



About 60 students and faculty from MIT, Tufts, and Boston University and engineers from local industry and research departments attended Prof. Baschiroto's lecture at MIT on 1 August 2011. According to SSCS-Boston Chair Bruce Hecht, "This was an unusual summer chapter meeting and was a great occasion to come inside for some fresh thoughts on high frequency circuits and get together for light refreshments."



Prof. Tomas Palacios of MIT hosted Prof. Baschiroto's talk.

IEEE Orange County Computer Society (OCCS) Presents

Invention Ownership Issues - Who Owns Your IP - Employer, Employee, Contractor, Entrepreneur?

Did you know there is a new Patent Law? Its now "first to file", not "first to invent". What else has changed? Are you protected or endangered? These are a critical issues for any creative Engineer, whether an Independent, an Employee or an Employer. See the ABSTRACT below for details.

Date: January 23, 2012 (Usual 4th Monday)

Topic: Invention Ownership Issues - Who Owns Your IP - Employer, Employee, Contractor, Entrepreneur?

Speaker:

Al Gess, Attorney & Partner, Law Offices of Snell & Wilmer

Time:

Social Hour: 6:00 p.m.

Presentation: 7:00 p.m.

Location:

Note New Venue in Irvine!!! Brandman University
16355 Laguna Canyon Road, Irvine, CA 92618
1-949-753-4774

We're hosting a Pizza Talk presentation model this month. \$10.00 admission fee includes refreshments.

Cost: Cost of dinner: w/ RSVP

All attendees \$10.00

RSVP

- RSVP online (<http://012312occsieee.eventbrite.com/>) - prepay online or pay at door
- RSVP is required either online or by REPLY to this post w/ number of attendees.
- Questions to Event Coordinator Frank Austin Nothaft at [fnothaft \(at\) ieee \(dot\) org](mailto:fnothaft@ieee.org).

ABSTRACT

Invention ownership issues associated with patents in employer-employee relationships, marital relationships, partnerships, consulting arrangements, and researcher-university arrangements.

Topics include consideration of licensing issues including the transfer or assignment of patents. The presentation will focus on common issues or pitfalls to be aware of in employment relationships.

Common scenarios in the corporate or other employment settings will be discussed to practically highlight the considerations behind effective protection of your ownership interests in intellectual property. In addition, the presentation will touch upon inventions made under Government contracts and how patent ownership can be affected in such situations when a university, non-profit, or small business are a party to the contract.

The speaker will entertain questions on issues concerning obtaining and enforcing patent protection for computer software, and the recently passed America Invents Act.

BIOGRAPHY

Al Gess, Esq., is a partner at the Law Firm of Snell & Wilmer in Orange County, CA. His practice is concentrated in litigation and transactional work in the areas of patent, trademark, trade secret, unfair competition, copyright, and related contract law. He received his Electrical Engineering degree from the University of Detroit in 1966 and his juris doctorate from American University, Washington College of Law in 1971. Mr. Gess has worked in a variety of professional capacities throughout his career, including:

- Price and Gess, Founding Partner
- Jackson, Jones & Price, Partner
- Burroughs Corporation, Senior Patent Attorney
- Office of Naval Research, Patent Advisor
- United States Patent and Trademark Office, Patent Examiner

Mr. Gess is and has been involved in a variety of professional and local memberships and activities. These activities include the State Bar of California, the American Bar Association (Patent Enforcement Section, Patent Trademark

IEEE-USA eBook Offered Free as Special Benefit to IEEE Members

As a special benefit of IEEE membership, for the month of January, IEEE-USA is offering a free eBook, The Best of IEEE-USA Today's Engineer: On Consulting, Volume 1.

The Best of IEEE-USA Today's Engineer: On Consulting, Volume 1, has 65 pages of content for consultants, on how to start a local consultants network, how to make sure consultants get paid for their work; how to make the transition from marketing to paid consulting; and a sample consulting contract.

The Best of IEEE-USA Today's Engineer: On Consulting, Volume 1 can be downloaded for FREE through 31 January 2012. Non-member price is US\$5.99.

In addition to the free January eBook, IEEE-USA has published a new eBook you might consider purchasing: Telecommunications History Highlights. Written by the staff of the IEEE History Center, these articles highlight some of the triumphs, events and people of note in telecommunications history.

Telecommunications History Highlights can be downloaded at www.ieeeusa.org/communications/ebooks for the member price of US\$4.79. To purchase IEEE members-only products and receive the member discount on eligible products, members must login with their IEEE Web Account.

Con't... Invention Ownership Issues - Who Owns Your IP - Employer, Employee, Contractor, Entrepreneur?

and Copyright Law Section), the Federal Bar Association, the Orange County Bar Association, the Orange County Patent Law Association (President - 1990), the Los Angeles Intellectual Property Law Association, the American Intellectual Property Law Association, the Licensing Executive Society, and the International Trademark Association. Professional recognitions and awards for his intellectual property work and expertise include:

- The Best Lawyers in America, Intellectual Property Law (2007-2011)
- Southern California Super Lawyers, Intellectual Property (2007-2011)
- Super Lawyers, Intellectual Property - Business Edition (2011)
- Super Lawyers, Intellectual Property - Corporate Counsel Edition (2010)
- Who's Who Worldwide
- Fellow, Institute for the Advancement of Engineering
- IEEE Third Millennium Medal

In addition, Mr. Gess is heavily involved in local community organization and groups. He is a senior lifetime member of the IEEE and has served in officer positions and as a board member. These positions include Treasurer of the Orange County Computer Society, Board Member of the LA Council, and Chair and Treasurer of the OC Section. Mr. Gess served on the Board of advisors at the College of Engineering and Science at the University of Detroit and was involved in the John Sherman Myers Society at American University. Mr. Gess has also served as a Board Member for the Canyon Acres Children and Family Services.

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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 Global Humanitarian Technology Conference

Seattle, WA USA

October 30 - November 1, 2012

www.ieeeghtc.org

Dear IEEE Members,

On behalf of the organizing committee, I am pleased to announce the 2012 IEEE Global Humanitarian Technology Conference (GHTC) on 21 to 24 October 2012, in Seattle, Washington.

This 2nd annual premier conference provides the perfect venue for anyone involved in humanitarian projects to join their peers in Seattle. The audience for this conference will include technologists, representatives from NGOs, governments, academe, funders and industry. This will provide an opportunity to share your work, meet others involved in humanitarian technology, create new projects and meet with funders. Our sessions will address a wide range of topics and we hope you'll submit a paper and plan to join us in Seattle.

Home to a growing medical and biotech industry along with world leading software companies and a host of foundations you'll find the conference can offer a wealth of opportunities to improve your knowledge, increase your network and expand your reach. We look forward to seeing you in Seattle.

Call for Papers

- Full Paper Submission: April 20, 2012
- Acceptance Papers Final Version Submission: August 6, 2012

Technical Sessions:

- Health, Medical Technology and Telemedicine
- Disaster Warning and Response
- Water Planning, Availability and Quality
- Power for Off-Grid Users
- Power Infrastructure / Renewable / Sustainable Energy
- Connectivity and Communications Technologies for Remote Locations
- Educational Technologies
- Agricultural Technologies
- Humanitarian Challenges and Opportunities

Conference Program include welcome reception, tutorial sessions, poster sessions, social networking.

Best Regards,

Paul Kostek, Chair 2012 GHTC

Photos from GHTC 2011



Remarks by IEEE President
- Dr Moshe Kam



What Works, What Doesn't Panel



Keynote Speaker
- Dr Lawrence Friedl from NASA



Networking During Breaks



Closing Keynote Speaker
- Dr. Mike North from Reallocate.org



Exhibit Booths and Prototype Displays

2011 IEEE Orange County Section — Executive Committee

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Electromagnetic Compatibility Society (EMC)

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

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Product Safety Engineering Society (PSES)

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Robotics & Automation Society (RAS)

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SIG Entrepreneurs Network

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UCI Student Chapter

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Volunteer Coordinator Chair

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