

the
LYNX

November 2009

Table of Contents

Calendar of Events	2
IEEE Electron Devices Society and the IEEE Reliability Society to Sponsor Reliability Physics Conference	2
The VI Southern Programmable Logic Conference - SPL2010, Call for Papers . 3	
Newsletter Inputs.	3
\$5,000 in Scholarship Awards to be Presented in 2009-10 IEEE-USA Online Engineering Video Competition on 'How Engineers Make a World of Difference'. 4	
IEEE Electron Devices Society/ Micro- wave Theory and Techniques Society Orange County Joint Chapter APS-EDS/MTT JOINT MEETING NOTICE: Thursday, Nov 5, 2009	
UWB Antennas and Channel Characteristics	5
Engineering for the benefit of humanity: Orange County IEEE Awards	6
Register Now for Free IEEE-USA Career Webinars	6
Advertising Section in the Newsletter. .6	
SoC: IEEE OC Student Design Contest. 7	
SoC: Tech Job Fair	8
IEEE-OC Entrepreneurs' Network Presents: Launching a Tech Startup in Turbulent Times.	9
2009 Orange County Section: Executive Officers.	10

IEEE/OC Website:
www.ieee.org/ocs

With thanks to our sponsors:



The Chair's Corner:

by **Sampath**

Greetings!

The IEEE Orange County Section has had an active year so far, with a few more events to come this month. Please see our calendar for more details.

The recent IEEE-OC Awards Banquet was most successful, with a nice mix of speakers, volunteer recognition and good energy. An opportunity for our IEEE volunteer family to get together and celebrate accomplishments.

Plans for 2010 are under way as we focus on initiatives that make a difference. In addition to our usual technical chapters and focus, specific areas include:

- Engineers-in-Transition: Jobs and Careers
- Corporate Relations: Engaging the Community
- Student Activities: Universities & Colleges
- Engineers-2-Educators: High School STEM
- PACE: Professional Development for IEEE Members
- Public Policy & Government Activities

Please join us to accomplish these and other goals. This is also a call for volunteers and nominations for a range of positions including the IEEE OC Section Officers, Committee Chairs and many other roles. Our current team of 30 looks forward to welcoming you.

Warm regards,

Sampath, Chair, IEEE Orange County Section

rsampath.at.ieee.org

www.ieee.org/ocs

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 300,000 individual members in 175 countries. The IEEE Orange County Section serves over 3,700 members in Orange County in addition to the local community.

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.

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

Calendar of Events

- **November 3: 6:00 PM.** IEEE-OC Section: ExCom Mtg
Location: NetServe Systems, Irvine
Contact: rsampath@ieee.org
- **November 4-5:** Community - Business: System-on-Chip (SoC) Conference, Technology & Entrepreneurship: Dreams, Realities & Opportunities
Location: Building: Radisson Hotel Newport Beach, 4545 MacArthur Blvd. Newport Beach, California
Contact: SoC@SoCconference.com or 949-851-1714
Details: <http://www.socconference.com>
- **November 4: 3:00 PM - 8:00 PM.** IEEE-OC Section: Job Fair
Location: Building: Radisson Hotel Newport Beach, 4545 MacArthur Blvd. Newport Beach, California
Contact: SoC@SoCconference.com or 949-851-1714
Details: www.socconference.com/job_fair.htm
- **November 4: 7:00 PM.** IEEE-OC Section: Student Design Contest
Location: Building: Radisson Hotel Newport Beach, 4545 MacArthur Blvd. Newport Beach, California
Contact: SoC@SoCconference.com or 949-851-1714
Details: www.socconference.com/students.htm
- **November 5: 6:15 PM.** IEEE-OC Section: APS-EDS/MTT Joint Meeting
Notice, Topic: UWB Antennas and Channel Characteristics
Speaker: Werner Wiesbeck, Universität Karlsruhe, Germany
Location: Northrop-Grumman Space Technology Building S Forum (cafeteria), Redondo Beach
Contact: J. Gianvittorio, 310 / 334-3109
- **November 7: 9:00 - 11:30 AM.** IEEE-OC Section: Launching A Tech Startup In Turbulent Times
Speaker: Gordon Watson
Location: KMOB, 2040 Main St., Irvine, CA. (Free parking)
- **February 2010:** Engineering Week

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
Newsletter content Newsletter
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letter content Newsletter content
Newsletter content Newsletter
content Newsletter content
+++++

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

The VI Southern Programmable Logic Conference - SPL2010

Call for Papers

The VI Southern Programmable Logic Conference - SPL2010

<http://www.splconf.org/spl10/index.html>

March 24th thru March 26th

Submission deadline: November 15th/2009

SPL is the austral meeting point for researchers and developers interested on reconfigurable logic technology and its applications. The 6th SPL continues the tradition of the previous edition and will be hosted by the Electronics and Systems Department, at the Federal University of Pernambuco.

The conference will take place in the city of Ipojuca, Porto de Galinhas beach, State of Pernambuco, Brazil, from March 24th to 26th, 2010. Porto de Galinhas beach is located 60 km from Recife, capital of Pernambuco state.

Recife is 472 years old, and offer many touristic attractions, such as: the largest open theater in the world, where the Passion of Christ is held every year. The first synagogue of the Americas Kahal Zur Israel. Recife is also well known for its rhythms and Carnival.

Authors are invited to submit original and unpublished contributions up to 6 pages to be considered as regular papers. The page limit includes tables, figures and references. All contributions must be submitted electronically in PDF format.

The official language of the conference is English.

Guidelines and templates to prepare your papers are available in Downloads (IEEE format).

SPL 2010 organization has a pleasure to announce the IEEE Circuits and Systems Society (CAS) technical co-sponsorship. Accepted papers will appear in the IEEE Xplore electronic library, which provides excellent visibility and accessibility to its contents. On the other hand the conference editors will select the best papers whose authors will be invited to submit an extended version for publication in the International Journal of Reconfigurable Computing (ISSN: 1687-7195).

Please, feel free to publicize SPL 2010 by downloading and printing the conference POSTER .

Designer Forum

The goal of the Designer Forum is to give exposure to ongoing researches, academic experiences, and industrial designs in order to get feedback from experienced researchers and industrial partners. The accepted contributions to the Design Forum will not be included in the IEEE Database and SPL proceeding book. They will be published in a separate Designer Forum proceeding book, and these contributions will be presented in special poster sessions during the conference. Due to the regional scope of the Designer Forum, its papers can be written also in Spanish and Portuguese languages.

Authors interested in contributing to the Designer Forum are invited to submit 6-page papers.

continued on next page...

\$5,000 in Scholarship Awards to be Presented in 2009-10 IEEE-USA Online Engineering Video Competition on 'How Engineers Make a World of Difference'

IEEE-USA is launching the organization's third online engineering video competition for undergraduate students on "How Engineers Make a World of Difference." IEEE-USA will present four scholarship awards totaling \$5,000 to undergraduates who create the most effective 90-second video clips reinforcing for an 11-to-13-year-old audience how engineers improve the world. Entries must be submitted through YouTube by midnight Eastern Time on Friday, 15 January 2010. Winning entries will be announced and shown during Engineers Week, 14-20 February 2010.

For more information on how to enter the IEEE-USA Online Engineering Video Scholarship Competition and to upload an entry on YouTube, visit www.ieeeusa.org/communications/video_competition.

The VI Southern Programmable Logic Conference - SPL2010 Call for Papers, cont...

Conference Topics

The Program Committee cordially invites you to participate and submit your contribution to SPL 2010. The conference topics are within the scope of field reconfigurable logic and its applications. A non exclusive list of themes is:

Design Methodology

- Low-Power Design
- High-speed Techniques
- Physical Design
- Synchronization and Seft-timed Systems
- Dynamic and run-time reconfiguration
- Reconfigurable embedded systems
- Field-programmable analogue arrays
- Interconnects and NoCs

FPGA in Education

- Roadmap of programmable logic
- Teaching reconfigurable systems
- History and surveys of programmable logic
- Emerging device technologies
- Tutorials

Platform-based Design

- Embedded Processors
- Custom Computers
- IP Cores
- Java, Handel-C, System-C

Applications

- Robotics
- Artificial vision
- Communications/networking/cryptography
- Bioinformatics
- Application acceleration
- Evolvable and bio-inspired applications
- Rapid prototyping

Signal Processing

- Computer Arithmetics
- Digital Signal Processing
- Software Radio

EDA Tools

- Logic and Architectural
- Synthesis
- Modelling and Simulation
- Emulation
- Formal Methods in System Design
- CAD for reconfigurable architectures
- System-level design methods
- Testing, verification and benchmarking
- Hardware/software co-design

High Reliability Embedded

Applications

- Design verification and validation
- Reliability and fault tolerance
- FIT rates analysis
- Qualification process
- Device obsolescence
- High reliability processor cores
- Noise, radiation effects and EMC
- Experiences and lessons learned

IEEE Electron Devices Society/ Microwave Theory and Techniques Society Orange County Joint Chapter, APS-EDS/MTT JOINT MEETING NOTICE: Thursday, Nov 5, 2009

UWB Antennas and Channel Characteristics



Speaker: Werner Wiesbeck,
Universität Karlsruhe, Germany

Abstract: Spectrum is presently one of the most valuable goods worldwide as the demand is permanently increasing and it can be traded only locally. Since the United States FCC has opened the spectrum from 3.1 GHz to 10.6 GHz, i.e. a bandwidth of 7.5 GHz, for unlicensed use with up to - 41.25 dBm/MHz EIRP, numerous applications in communications and sensor areas are showing up. All these applications have in common that they spread the necessary energy over a wide frequency range in this unlicensed band in order to radiate below the limit. The results are ultra wideband systems. These new devices exhibit especially at the air interface, the antenna, quite surprising behaviors. This talk presents an insight into design, evaluation and measurement procedures for Ultra Wide Band (UWB-) antennas as well as into the characteristics of the UWB radio channel as a whole. UWB antenna basics and principles of wideband radiators, transient antenna characterization and UWB antenna quality measures, derived from the antenna impulse response, are topics. EM simulations and measurements of transient antenna properties in frequency domain and in time domain are included. Different antennas, based on different UWB principles, will be presented. Depending on the interest there are: ridged horn antenna, Vivaldi antenna, logarithmic periodic antenna, mono cone antenna, spiral antenna, aperture coupled bowtie antennas, multimode antennas, sinus antenna and impulse radiating antennas. The channel characterization comprises ray-tracing tools for deterministic indoor UWB channel modeling and measurements. The advantages and drawbacks of the UWB transmission will be discussed, depending on interest. The radiation from different antennas will be demonstrated by movies with a pulse excitation.

When: Thursday, Nov 5, 2009

Social 6:15 pm

Meeting 6:30 pm

Where: NORTHROP-GRUMMAN
SPACE TECHNOLOGY Building S
Forum (cafeteria),
Redondo Beach



Directions: From the 405, exit onto Rosecrans-West. Turn LEFT onto Aviation (3rd stoplight).

Turn LEFT on Marine (2nd stoplight). Turn RIGHT at the next stoplight. Parking lot and Building S are on the RIGHT at end of driveway. The meeting is in the basement.

Information: J. Gianvittorio, 310 / 334-3109

Biography: Werner Wiesbeck (SM 87, F 94)

For the Carl Cranz Series for Scientific Education he serves as a permanent lecturer for radarsystem engineering, wave propagation and mobile communication network planning. He is a member of an advisory committee of the EU - Joint Research Centre (Ispra/Italy) and he is an advisor to the German Research Council (DFG), to the Federal German Ministry for Research (BMBF), and to industry in Germany.

He is the recipient of a number of awards, lately the IEEE Millennium Award, the IEEE GRS Distinguished Achievement Award, the Honorary Doctorate (Dr.h.c.) from the University Budapest/Hungary, and the Honorary Doctorate (Dr.-Ing. E.h.) from the University Duisburg/Germany. He is a Fellow of IEEE, an Honorary Life Member of IEEE GRS-S, a member of the Heidelberger Academy of Sciences and a member of acatech (German Academy of Engineering and Technology).

Sponsors: Northrop Grumman Space Technology
IEEE Coastal LA Section

Register Now for Free IEEE-USA Career Webinars

IEEE-USA is offering two free career webinars in October. The first webinar (22 Oct.) will examine current employment market data and the latest hiring trends during this challenging economy; the second webinar (29 Oct.) covers what HR professionals are looking for in an applicant's resumé. IEEE-USA also has an archive of webinars that you can watch. Visit <http://www.ieeeusa.org/careers/webinars/default.asp> to register and view the webinars.

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

Engineering for the benefit of humanity: Orange County IEEE Awards

Engineers talked about the benefits of technology for humanity during the Orange County IEEE chapter awards banquet, Saturday night October 24 at the Radisson on MacArthur Boulevard.

This year is the 125th celebration of the Institute of Electrical and Electronics Engineers (www.ieee.org), an international organization. The Orange County chapter has 3,400 members.

Highlights included a presentation on the dangers of multi-tasking from Mike Sanders, Project Manager, Southern California Edison.

Other speakers were:

Lisa Kalustian, Chief Deputy Director, Governor Schwarzenegger's office, who said environmental issues are driving investment opportunities in technology today;

Dr. Marco Racanelli, Senior VP, Jazz Semiconductor, who said the semiconductor industry is not in a maturing stage and there are tremendous innovations for the future;

Dr. Peter Kurzhals, Director, Boeing who spoke on collaboration in Personal Development tools between Dale Carnegie, Boeing and National Management Association;

Dr. R. Unnikrishnan, Dean, Cal State Fullerton, Engineering and Computer Science, who highlighted how Kodak and Xerox could not predict the technological future;

Dr. William Tang, Associate Dean, UC Irvine, Henry Samueli School of Engineering, who urged attendees to see technology as a tool to reduce pain and improve health by diagnosing disease earlier.

Awards were given to volunteers in 7 different categories, including the recognition of students involved with IEEE.

The event was moderated by Alvin Joseph.

An upcoming related event is the OC Technology Career and Job Fair at the Radisson Hotel in Newport Beach. For details, log on to www.ieee.org/ocs





IEEE Orange County Presents

IEEE OC Student Design Contest

7th International System-on-Chip (SoC)

Conference, Exhibits & Workshops

November 4 & 5, 2009 - Radisson Hotel Newport Beach

www.SoCconference.com/students.htm



Sponsored by
Western Digital Corp.



Dear Engineering & Computer Science Students:

You are cordially invited to participate in the IEEE OC Section Student Design Contest that will be held on November 4, 2009, at the 7th International System-on-Chip (SoC) Conference at the Radisson Hotel Newport Beach. This targeted event enables dialogue among peers and experts in our field and it is an outstanding networking opportunity for graduating students seeking new opportunities in the high-tech industry.

Project Proposal:

The Student Design Contest is designed to encourage engineering and computer science students attending the Southern California Universities & Colleges (undergraduates & graduates) to work on a new design (paper design is also accepted) and present their work at the 7th International System-on-Chip (SoC) Conference via a poster display (poster size: 24x36 or slightly larger).

The design project could be a chip-level design, a board-level design (microprocessor or microcontroller based, etc.), a software project, or a detailed technology analysis/research. Each project will be judged based on its overall complexity, originality, and completion of the work. "Wild and Crazy" design projects are also welcomed! We look forward to hearing from you.

To Participate:

Monday, October 19, 2009: Deadline for submission of your Design Contest Proposal (1-2 paragraphs in MS Word & your biography.) Submit to: SoC@SoCconference.com

Wednesday, October 28, 2009: Deadline for submission of your Final Report (in MS Word or PowerPoint). Submit to: SoC@SoCconference.com

Wednesday, November 4, 2009: Projects will be reviewed and winner will be announced at the 7th International SoC Conference Exhibit reception at 7:00 PM.

Prizes:

- **The FIRST 20 STUDENTS** that submit their FINAL report/papers will receive a Portable WD Hard Drive, 320 GB!
- First Prize: \$500.00
- Second Prize: \$300.00
- Third Prize: \$200.00
- Other prizes from sponsoring organizations! Don't Miss Out!
- All participating students (who have submitted their Final Report) will receive a full-conference pass.
- Names and pictures of the winners will be displayed on the SoC Conference and IEEE OC Section websites.

Questions: Please send your questions to: SoC@SoCconference.com

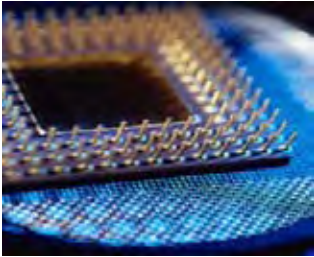
www.ieee.org/ocs



Tech Job Fair

November 4, 2009
Radisson Hotel Newport Beach

www.SoCconference.com/job_fair.htm



Wednesday, November 4, 2009 • 3:00 P.M. – 8:00 P.M.

**Radisson Hotel Newport Beach
4545 MacArthur Blvd.
Newport Beach, CA 92660-2022**

Free Admission & Free Parking

Meet the Participating Employers

Free Resume Critique

Free Mock Interviews and Job Search Counseling

Free Pass to SoC Conference Exhibit (Going on in Parallel)

Networking Opportunity & Much More . . .

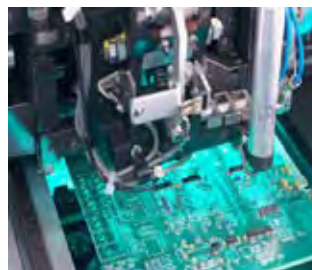
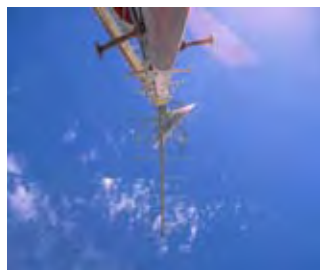
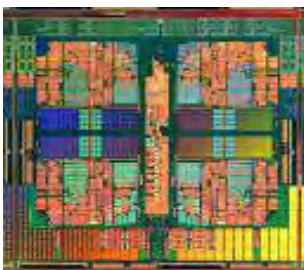
Don't Miss Out!

To Save Time, Register in Advance: http://www.SoCconference.com/job_fair.htm

If you have any questions, please contact:

SoC@SoCconference.com or 949-851-1714

www.ieee.org/ocs



IEEE'S ORANGE COUNTY ENTREPRENEURS' NETWORK (OCEN) PRESENTS:

“LAUNCHING A TECH STARTUP IN TURBULENT TIMES”

Summary: The 90 minute presentation by Gordon Watson, will fly by as he explores with you his views on how to prepare and execute a tech start-up plan during these very investment-poor and turbulent business times. Gordon's lecture is filled with experiences that cover his half-century of hands-on tech experience as he examines how a new entrepreneur might deal with the three critical legs of the successful start-up stool: (the IDEA, the Invested CA\$H, and the generated \$ALES).

Biography: Mr. Watson has over 51 years experience in the computer industry (software, hardware and professional services). His diverse background includes: Start-up CEO, and CEO coach, management consultant, board member (public and private companies), angel investor, direct field sales and sales management (VP level), and many years in technical development (processors and operating systems) and management as director of engineering for TRW, and chief engineer for Varian Data Machines and for Computer Automation. Mr. Watson has also been a successful consultant for many years, as well as managing professional services for three different companies including Western Regional Director for Lotus Consulting (Business Unit of IBM). He has also held positions of General Manager for Locus Computing, and Computer Automation; and as President for Local Data Corporation and Troy Check Printing Systems. He has a B.S. in Electrical Engineering from UCLA and has taught technical courses in the School of Engineering Extension, and currently guest lecturers in the Graduate School of Management and the Graduate School of Engineering at the University of California, Irvine. He has also nationally (tour) lectured on technology. His company is: www.watson-consulting.com

Day: Saturday, November 7, 2009

Time: 9:00 am – 11:30 am

Fee: This event is Free for all the IEEE and OCEN members as well as those who are exploring to join IEEE & OCEN!

Address: **KMOB**, 2040 Main St., Irvine, CA. (Free parking)

Address information:

Knobbe, Martens, Olson & Bear (KMOB) Bldg, 2040 Main St., Irvine 92614, First Floor Conference Room. For Directions and Maps see the KMOB web site at http://www.kmob.com/offices_irvine_map.htm#map. The building entrance and parking structure are on the back side of the building, follow signs to the 2040 entrance (there is no parking on Main St.). For GPS, or Google Map junkies, the GPS coordinates [33.682383, -117.852565] will get you nearby. The tall KMOB building markings are quite visible.

Map Link:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=2040+main+st,+irvine,+ca&sll=37.0625,-95.677068&sspn=48.77566,79.013672&ie=UTF8&ll=33.682479,-117.852573&spn=0.006303,0.009645&t=h&z=17

2009 IEEE Orange County Section — Executive Committee

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