

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

With thanks to our sponsors:

**The Chair's Corner:**

On behalf of the IEEE Orange County Section (OCS) Executive Committee (ExCom), I would like to invite all current and future members to take the opportunity this year to become active within the Section. There are many activities to enhance your background, both professionally and personally, with a focus of promoting membership benefits. The ExCom and I are looking forward to providing a broad spectrum of member activities in 2012 (See 2012 Events Map page).

As you are all aware, the IEEE is a volunteer organization and we are always seeking new volunteers. If you are interested in becoming active, please take the time to consider volunteering in some capacity, the return on time invested is well worth it. Contact one of the individuals within the Section ExCom and/or attend one of our planning meetings. The ExCom meets the first Tuesday of the month, with the exception of a few summer months. We have many opportunities for you to contribute and to develop a larger network of professionals.

In this newsletter, we have introduced an OCS IEEE Fellow Profile Page. We hope this will motivate other Senior Members to achieve their professional goals and to get elevated to highest level of IEEE Fellow. We will continue to provide Orange County with Engineering programs arranged by IEEE and other Organizations. We are pleased to inform that we are in the process of starting a Consumer Electronics Society (CES) Chapter and an Aerospace & Electronic Systems (AES) Chapter. We will call upon the members to offer support to the formation and development of these chapters.

The IEEE by-laws do not allow any ExCom officers (Section or Chapter) to remain in a position for more than 2 years. As Chair of the Section, I would like to encourage the Chapters to be active in recruiting pertinent officers. I will request all section members to get involved with their respective Chapters. Moreover, several committee chair positions are vacant at the Section level (See ExCom Members page). We want to extend a special invitation to those who would like to volunteer at the Section or Chapter level. The Volunteer Night is planned for Feb 29th, 2012. This year we will introduce iDollars to benefit the volunteers (See Volunteer Night page).

As we have already started the year, we are looking forward to an exciting year in 2012 and, as always, we are looking for your feedback and comments.

Dr. John Collins
2012 IEEE Orange County Section Chairman
collins.AT.ieee.org

The IEEE Orange County Upcoming Events

Feb 18-22
Annual National Engineers
Week 2012
University of California, Irvine

Feb 19-25
Discovery Science Center Hosts
National Engineer's Week
See page 7 for more information

Feb 27
Windows 8 - Innovation in Metro Style
Applications
Venue: Brandman University
Speaker: Mark Bosley

Mar 26
What's New in the MERLOT Educa-
tional Technology System
Speaker: Dr. Sorel Reisman, 2011
Computer Society President

April 23
Machine Learning and
the Data Deluge
Speaker: Professor Max Welling, PhD
Associate Editor in Chief IEEE Transac-
tions 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
GameSIG Student Game Developers
– First Annual Student Showcase and
Review
Presented by UCI, CSUF, & Chapman
Universities

May 21
Introduction to iPad/iPhone
Programming
Speaker: Professor Michael Shafae
College of Engineering and Computer
Science
California State Univeristy - 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 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

To IEEE Orange County Chapters:

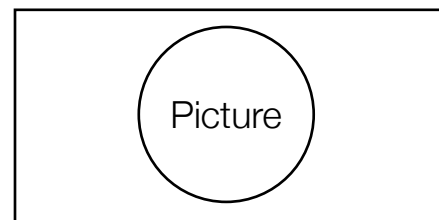
Newsletter Inputs

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

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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

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
Michael Laur	Associate Member	Ibrahim Engin Pehlivanoglu	Member
Patrick McLaughlin	Associate Member	THAIHOA T PHAN	Member
Peter Huang	Graduate Student Member	Dawn Nahia Seute	Member
Xin Jin	Graduate Student Member	David Kirk Switzer	Member
Sukrit Mukherjee	Graduate Student Member	Wenting Wang	Member
Crystal Eunique Rapier	Graduate Student Member	Vladimir Baranek	Student Member
Reetika Rastogi	Graduate Student Member	Ivan Bravo	Student Member
Yongjin Ahn	Member	Anh Cao	Student Member
Allison Auld	Member	Carolyn Cocco	Student Member
Michael Bell	Member	David Dinh	Student Member
Marc Booth	Member	Omeid John Eshraghi	Student Member
Stephen Robert Boyer	Member	Daniel Richard Tran Esquer	Student Member
Cecilia Chung	Member	Christopher Michael Hurst	Student Member
chandra sekhar gatla	Member	Aaron Wade Jones	Student Member
Mohammad Kazemi	Member	YOUNG MIN KIM	Student Member
Jong Koo Kim	Member	Andrea Lawler	Student Member
		Jordan Linford	Student Member
		Derek Ling En Meng	Student 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 FELLOWS PROFILES

Jean-Luc Gaudiot

Professor, Department of Electrical Engineering and Computer Science, University of California - Irvine

Fellow, IEEE, 1999

Fellow, AAAS, 2007

Professor Jean-Luc Gaudiot received the *Diplôme d'Ingénieur* from the *École Supérieure d'Ingénieurs en Electronique et Electrotechnique*, Paris, France in 1976 and the M.S. and Ph.D. degrees in Computer Science from the University of California, Los Angeles in 1977 and 1982, respectively.

He is currently a Professor in the Electrical Engineering and Computer Science Department at the University of California, Irvine. He was Chair of the Department from 2003 to 2009. During his tenure, the department underwent significant changes. These include the hiring of twelve new faculty members (three senior professors) and the remarkable rise in the US News and World Report® rankings of the Computer Engineering program from 42 to 28 (46 to 36 for the Electrical Engineering program).

Prior to joining UCI in January 2002, he was a Professor of Electrical Engineering at the University of Southern California since 1982, where he served as Director of the Computer Engineering Division for three years. He has also designed distributed microprocessor systems at Teledyne Controls, Santa Monica, California (1979-1980) and performed research in innovative architectures at the TRW Technology Research Center, El Segundo, California (1980-1982). He frequently acts as consultant to companies that design high-performance computer architectures, and has served as an expert witness in patent infringement and product liability cases. His research interests include multithreaded architectures, fault-tolerant multiprocessors, and implementation of reconfigurable architectures. He has published over 200 journal and conference papers. His research has been sponsored by NSF, DoE, and DARPA, as well as a number of industrial organizations.

In January 2006, he became the first Editor-in-Chief of the IEEE Computer Architecture Letters, a new publication of the IEEE Computer Society, which he helped found to the end of facilitating short, fast turnaround of fundamental ideas in the Computer Architecture domain. From 1999 to 2002, he was the Editor-in-Chief of the IEEE Transactions on Computers. In June 2001, he was elected chair of the IEEE Technical

Committee on Computer Architecture, and re-elected in June 2003 for a second two-year term. In 2009, he was elected to the Board of Governors of the IEEE Computer Society for a 3-year-term. He is also currently the Chair of the IEEE Computer Society Publications Board Transactions Operations Committee.

Dr. Gaudiot is a member of AAAS, ACM, and IEEE. He has also chaired the IFIP Working Group 10.3 (Concurrent Systems). He was co-General Chairman of the 1992 International Symposium on Computer Architecture, Program Committee Chairman of the 1993 IFIP Working Conference on Architectures and Compilation Techniques for Fine and Medium Grain Parallelism, the 1993 IEEE Symposium on Parallel and Distributed Processing (Systems Track), the 1995 Parallel Architectures and Compilation Techniques Conference (PACT '95), the High Performance Computer Architecture conference in 1999 (HPCA-5), and the 2005 International Parallel and Distributed Processing Symposium.

In 1999, he became a Fellow of the IEEE, "*For Contributions to the Programmability and Reliability of Dataflow Architectures.*" He was elevated to the rank of AAAS Fellow in 2007, "*For Distinguished Contributions to the Design and Analysis of Highly Efficient Multiprocessor and Memory System Architectures.*"

In his spare time, Jean-Luc Gaudiot combines his passion for aviation with his love for teaching, and he is an active flight instructor (both primary and instrument).



He became an IEEE Fellow after pursuing his vision for highly programmable and reliable multiprocessors based on functional programming principles. His research demonstrated the power of dataflow models of execution in terms of easing the task of the parallel programmer and of utilizing the inherent redundancy of multiprocessors to enhance their reliability. His results are now validated by the applications they promise not only in the design of the next generation Exascale machines but also in the programming of modern multicore processors.

IEEE Volunteer Night

An IEEE Volunteer Night will be held on Feb 29th 2012 at the Wyndham Hotel. There will be free Food and Parking. A number of positions to volunteer to are available, including, Chapter-level ExCom Officers and Section-level Chairs for different committees. The schedule for the event is:

6:00-6:30 Networking

6:30-7:30 Dinner

7:30-8:00 Talk on Professional Management

8:00-8:30 Description on volunteer positions

8:30-9:00 Questions/Signup

The address of the event is:

Wyndham Orange County
3350 Avenue of the Arts
Costa Mesa, CA 92626
Phone: 714-751-5100

iDollar

In order to show our appreciation for our volunteers, we would like to offer IEEE/OCS Dollars (iDollar) to all the volunteers. These iDollars can be used towards food, registration and other services of IEEE Section or Chapter events. The iDollar has no cash value and will expire by the end of the year. Besides iDollars, the volunteers will also receive priceless networking and professional development opportunities.

Annual National Engineers Week 2012

The Henry Samueli School of Engineering at the University of California, Irvine invites students, faculty, alumni and members of the public to attend the campus' 35th celebration of National Engineers Week, or E-Week, Feb. 18-22, 2012. Established in 1951 by the National Society of Professional Engineers, E-Week is an annual event aimed at increasing public awareness and appreciation for the engineering profession.

The weeklong event provides an avenue for students to demonstrate inventiveness and imagination through a variety of events. Highlighting the festivities is a series of competitions allowing students to demonstrate innovation and creativity. Examples of contests include:

- Popsicle Bridge: (Feb. 19, 9:30 a.m., location: Engineering Gateway Upper Plaza) using just Popsicle sticks and Elmer's glue, competitors are required to design a bridge that will withstand the highest load. Score will be determined by taking the load to weight ratio.
- Catapult: (Feb. 19, 10:30 a.m., location: Engineering Gateway Upper Plaza) designers are challenged to create a device to toss, propel, kick, or fling a beanbag as far as possible.
- Egg Drop: (Feb. 21, 9:30 a.m., location: Engineering Tower) competitors build a contraption that holds eggs and will withstand the drop from the top of Engineering Tower.
- Castle Destruction: (Feb. 21, 12 p.m., location: Engineering Gateway Upper Plaza) teams will construct a fortress and catapult which will be used to protect their figurines as well as attack the opposing teams' fortresses.
- Rube Goldberg: (Feb. 21, 1 p.m., location: Engineering Gateway Upper Plaza) a fiercely competitive battle of wits, the Rube Goldberg contest is an attempt to create a machine to open a can of soda in an incredibly complex, wacky, and roundabout manner.

Additional E-Week activities include the EngiTECH Technical Career Fair held on Feb. 20, sponsored by more than 50 local companies; an alumni reception; a high school shadow day; a faculty and student barbecue; and, an awards banquet.

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

New IEEE Orange County, California, MTT-S/EDS-S Joint Chapter Group in LinkedIn

You are invited to join the IEEE OC MTT-S/EDS-S open group in LinkedIn. This group brings together members of the IEEE Microwave Theory and Techniques, and Electron Devices Societies, residing in Orange County. Its purpose is to serve as a medium for sharing information about: Topics of interest and announcements for future Talks, networking, etc, including firsthand information on new job opportunities in the RF/Microwave, RFIC, Semiconductor Devices and related fields.

Hector J. De Los Santos, Ph.D.
Chairman, IEEE OC MTT-S/EDS-S Joint Chapter

News from UCI Students Chapter

Consumer Electronics Show

UC Irvine's student branch of IEEE had a group of 25 students attend the Consumer Electronics Show (CES) in Las Vegas, NV. It was a great experience for us to share together; all the students left CES with lasting impressions and appreciations for what advance technology has to offer for rising engineers and the world. Other student chapters from UCLA and UCSD also attended. We had the opportunity to get together as we shared our CES experiences over dinner.

Teradata Info Session

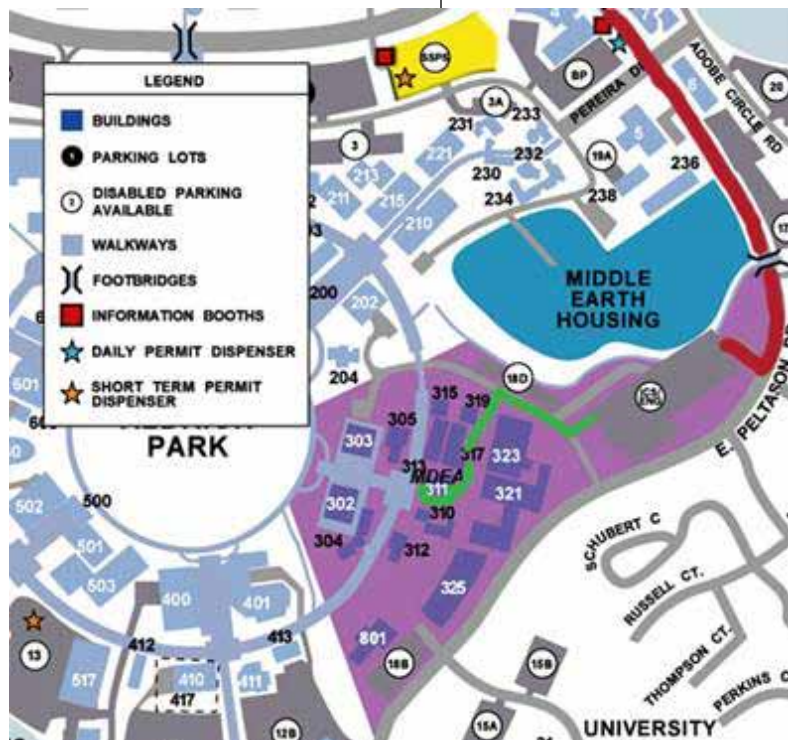
IEEE was fortunate to have Teradata present a technical overview on their parallel data base systems among other technologies used to advance forward in the computer industry. About 25 students were in attendance for the engaging presentation. Not only were the representatives helpful in offering advice for the pursuit of electrical engineering degrees to our members, but they also mentioned open internship opportunities listed on their website. This is a chance for our members to have experience in the work field as a student. Food was served from Stonefire Grill during the remainder of the event.

Southern California Edison Info Session

Southern California Edison's (SCE) University Recruiter representative presented an overview of the company's values as well as information for what human resources look for in new hires. Ranging from entry level positions to internship opportunities, SCE provided us information on how to have a successful chance at being considered for open positions. A brief overview on how SCE technology transitioned towards the present development of ongoing projects was presented. About 12 people attended the event with pizza served towards the end.

Please visit our website for more information on our past and future events:

<http://ieeeng.uci.edu/blog/category/events/>



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If you or your company has a job to advertise, please send an email to shireesh@ieeee.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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Engineering Seminars at UC Irvine

Title	Location	Date
Advanced SiGe and CMOS Phased Arrays: Chips, Packaging, Built-In-Self-Test and Wafer-Scale Integration with High-...	Calit2 Auditorium	Feb 15 2012 3:00pm
Henry Samueli, Ph.D., Co-founder and Chief Technical Officer, Broadcom Corporation on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Feb 16 2012 5:30pm
Learning from Biology: Viral-Templated Materials and Devices	McDonnell Douglas Engineering Auditorium	Feb 17 2012 4:00pm
Robert A. Kleist, Founder and Chairman, Printronix, Inc. on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Feb 21 2012 5:00pm
<u>Neil Sahota, IBM Certified Consultant and Senior Project Manager, IBM - Global Business Services on Entrepreneurship</u>	McDonnell Douglas Engineering Auditorium	Feb 21 2012 6:00pm
C. Craig Carlson & Jan P. Weir, Attorneys at Law, Stradling Yocca Carlson & Rauth on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Feb 23 2012 5:00pm
Judy Greenspon, President, NPI Services, Inc. on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Feb 23 2012 6:00pm
Bioengineering and Stem Cells in Articular Cartilage Regeneration	Natural Sciences II 3201	Feb 24 2012 3:30pm
Photocurrent And Noise Analysis as Alternative Approaches to Understanding OFET Behavior	McDonnell Douglas Engineering Auditorium	Feb 24 2012 4:00pm
Kenneth "Ken" A. Charhut, President and CEO, MindFrame, Inc. on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Feb 28 2012 6:00pm
James V. Mazzo, President, Abbott Medical Optics, Inc. on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Mar 1 2012 6:00pm
Sydney Edwards, Ph.D., Senior Director, Portfolio Management & Strategic Planning, Allergan on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Mar 6 2012 6:00pm
Frank Peters, Host, "The Frank Peters Show" and Chairman Emeritus, Tech Coast Angels on Entrepreneurship	McDonnell Douglas Engineering Auditorium	Mar 8 2012 6:00pm
Atomistic Simulation of Nanostructured Materials	McDonnell Douglas Engineering Auditorium	Mar 9 2012 4:00pm
Towards Reversing Retinitis Pigmentosa: Re-engineering Photoreceptor Mosaics	Natural Sciences II 3201	Apr 20 2012 3:30pm

Discovery Science Center Hosts National Engineer's Week [Feb. 19 - 25]



Discovery Science Center and Future Scientists and Engineers of America partner to bring exciting hands-on exhibits, demonstrations and presentations to celebrate National Engineers Week

Discovery Science Center (DSC) and Future Scientists and Engineers of America (FSEA) partner to bring exciting hands-on exhibits, demonstrations and presentations to celebrate National Engineer's Week February 19th – 25th.

The week kicks off on Sunday, February 19th with special presentations from Raytheon, Orange County Sheriff's Department and the R2D2 Club that you won't want to miss. Also, participate in hands-on learning stations and find out how you can use your engineering skills at DSC's annual Rocket Launch in May. Engineering themed exhibits, hands-on activity stations and stage demonstrations will be available at DSC's Engineers Corner throughout the week.

DSC and FSEA's National Engineer's Week will end with a bang on Saturday, February 25th. Put what you've learned to the test and participate in the Egg Drop Invention Competition for your chance to win an Ipad Touch, Ipod Nano and other great prizes! All ages are welcome and all competitors receive free general admission to Discovery Science Center. Closing day festivities also include activity stations, exciting speakers and displays

from California State University Fullerton (CSUF) Engineering Group.

National Engineer's Week Programming includes: Engineers Corner exhibits and demonstrations

Sunday, Feb. 19: "Robots, Droids and Us"

- Raytheon "Math Moves You": Hoverboard Demonstration
- Orange County Sheriff's Department: Bomb Squad and Robot Diffusing Dog Demonstration
- R2D2 Club: What's the Difference between a Droid and Robot Presentation
- Table top activities

Monday, Feb. 20:

Learn how to design and test a hoop glider in this engaging hands-on activity! Plus, we will have learning stations and activities throughout the Center to help kick-off Engineers Week.

Saturday, Feb. 25: "You Be the Engineer"

- Egg Drop Invention Competition
- Presenters/Speakers
- CSUF Engineering Group video and cement canoe display

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 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

2012 IEEE Orange County Section — Executive Committee

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Vacant

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Vacant

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