



IEEE BUENAVENTURA SECTION



The Buenaventura Section of the IEEE
Welcomes you to a presentation of...

Making Technology that makes the Movies



The Presenter, **Jonathan Erland**, has been awarded the John A. Bonner Medal of Commendation for his expertise in visual effects by the Academy Awards. Jonathan has been involved special effects on many films over the past films including Star Wars, Firefox, Star Trek and Spaceballs. Aside from his work on films, Erland holds patents for a number of visual effect techniques.

Jonathan will be presenting a "high-light reel" of film technology from the beginnings to today. There will be a 'sneak preview' technology demonstration as Jonathan's finale of the evening. Come join us for this extravaganza! All are welcome to attend.

Date: Wednesday October 23rd, 6:00 pm
Venue: Westlake Village Inn Provence Room
Complementary wine tasting provided by Sunland Vintage Winery

	Tickets purchased prior to Oct 10th	Tickets Purchased after Oct 10th
5:45 – 6:30 Hor 'doeuvres/cash bar - patio area		
6:30 – 8:30 Pres Jonathan - Provence Room		
8:30 – 9:30 Cash Bar – patio area		
	IEEE Members	\$20
	Non-Members	\$25
	Students	\$10

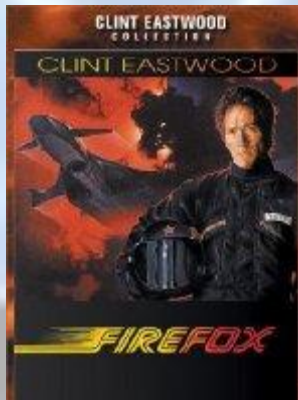
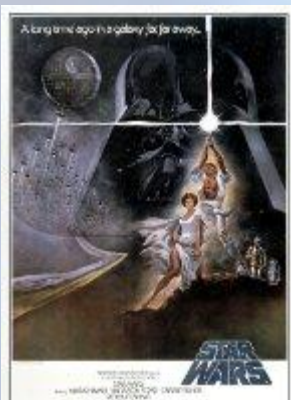
obtain

tickets, go to:

<http://www.eventbrite.com/event/8561249929>



To



October 2013 Newsletter

SECTION SPONSORS

**Wed
9 Oct.** **Computer** **A 3-D Inverted Pendulum Simulation Using Matlab**
Aaron Poley
6:30-8:00pm
Richter Hall, Ahmanson Science Center
Cal Lutheran University



**Wed
16 Oct.** **MTTS
COMSOC** **High Performance Digitally Programmable RF Front Ends**
Dr. Art Morris
6:30-8pm
Skyworks, Intersection of West Hillcrest Drive and Lawrence Drive, Newbury Park, CA 91320



Ciao Wireless, Inc.



**Wed
23 Oct.** **Featured
Presentati
on** **Making Technology that makes the Movies**
Jonathan Erland
6:30 – 8:30pm
Location: Westlake Village Inn , 31943 Agoura Rd,
Agoura Hills, CA 91301



**Wed
30 Oct** **EMC** **Basic EMC Requirements to meet CE Certification**
Ruby Hall, Compatible Electronics
Lecture starts at 6:00 pm
Thousand Oaks Library, Newbury Park Branch,
2231 Borchard Rd, Newbury park, CA 91320



Advanced Personnel Profiles

**Wed
30 Oct.** **EMBS** **Patient Privacy and Big Data – Irreconcilable Differences?**
Charlie Blanchard, Amgen
Lecture starts at 7 pm.
Location: California Lutheran University, 60 West Olson Road, Thousand Oaks

**Mon.
28th
Oct.** **OpCom** **Operating Committee Meeting**
6:30 pm
China Buffet, Thousand Oaks



The IEEE

Membership News

Please join me in welcoming our newest members to the IEEE:



- Harry Dellamano
- John R O'Brien
- Brian M Platt
- Gregory Simon
- Nick Lopez
- Rohan Sachdev
- Sajan Bhakta
- Andrew Bamwesigye
- Paul O Braatz
- Michael Anthony Baraghimian
- Nickolas Schiffer
- James A LeMay
- Robert Carl Schumacher
- Nisara Makaratad
- Christian

Members: please be sure to update and share your information at the IEEE Member Portal and set up your IEEE email alias. Please also introduce yourselves at meetings; networking starts here in the IEEE.

--- Bridge Carney
IEEE Buenaventura Section Chair 2013-

Section News

Computer Society

The Computer Society Chapter is seeking new volunteers for officers and presentations. Please contact Craig Reinhart, CS Chapter Chair to volunteer or to speak at an upcoming meeting.

-- Craig Reinhart
CS Chair
craig@ieee-bv-cs.org

Job Opportunities



Systems Integration Test Engineer at Alfred Mann Foundation (www.aemf.org), Valencia

3+ years of automated system testing. Experience with C/C++, Java, MATLAB and good knowledge of testing equipment. Develop test automated test system for V & V.

Contact
Pat Jacobs
805-579-0630
pat.jacobs@advancedpersonnelprofiles.com

Quality Engineer at Second Sight, Sylmar

Quality Engineer with medical device and quality systems experience.

Contact
Pat Jacobs
805-579-0630
pat.jacobs@advancedpersonnelprofiles.com

Seeking Website Editor



Past Chair, current Secretary, and Newsletter/Website editor Karl Geiger has relocated to Redwood City in the Bay Area. Consequently, we're looking for assistance with the Website.

The website requires about 6-8 hours per month time commitment. Karl will train and guide the new editor through the end

of 2013.

Working with your fellow IEEE members to get the work out about Buenaventura, neighboring section, and sibling professional organizations is a great way to network. Contact Karl or Bridge about this role.

-- Bridge Carney
Chair, IEEE-Buenaventura 2013-

FIELD CLINICAL, CLINICAL RESEARCH ASSOCIATE & CLINICAL PROJECT MANAGER

Job openings at Bioness, Alfred Mann Foundation and Second Sight. Must have device experience.

Contact
Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com



Looking for Academic, Scientific, or Engineering Talent?

Advertise with the IEEE Buenaventura Section

Placement ads are \$25/month and appear in both newsletter and online.

Sponsorships available for website and Section.

Contact newsletter@ieee-bv.org or see our [Ad Placement information](#) to advertise or sponsor the Section.



Upcoming IEEE Buenaventura Section Events

IEEE Buenaventura Section - Computer Society Chapter

Presents:

A 3-D Inverted Pendulum Simulation using MATLAB

with Aaron Poley

ABSTRACT

Stabilizing a 2-D Inverted Pendulum is a classic problem of control theory, involving mathematical and computational challenges. MATLAB simplifies some of the complexities. This talk will present a simulation using MATLAB and extending the problem to three dimensions.

SPEAKER BIO

Aaron Poley received his Master of Science in Engineering degree from California State University, Northridge in 2003. He has since worked for Northrop Grumman, Raytheon, Rockwell-Collins and Exelis. He is a certified software test engineer, has programmed test systems for navigation and imaging systems and has tested radar systems. He has been involved in IEEE his whole career.

Date: Wednesday, October 9, 2013

Location: Richter Auditorium, Ahmanson
Science Center

Networking and Refreshments: 6:30 PM

Presentation: 7:00 PM

Partnered effort hosted by MTTs and COMSoc chapters

High Performance Digitally Programmable RF Front Ends

Dr. Art Morris

wiSpry , Inc.

Date and Time: Wednesday, October 16th, 2013 (6:30PM)

Location : Skyworks, Intersection of West Hillcrest Drive and Lawrence Drive, Newbury Park, CA 91320 (not the main building, please use link below to green arrow that pinpoints building)

https://maps.google.com/maps?q=34.187542,-118.930994&num=1&t=h&vpsrc=0&ie=UTF8&z=18&iwloc=A** *

Agenda: 6:30PM Reception & Networking; 7PM Presentation



Abstract

Emerging air interface standards are accelerating the multiplication of modes and bands that must be supported in mobile terminals. While RF transceivers are able to leverage Moore's Law to provide rapid scaling in capability for wireless communications, the RF front-end has seen limited integration due to the diverse technologies required to meet the stringent performance requirements and poor scaling due to physical power and wavelength limitations. Programmable/tunable RF front-ends that could break this barrier have been considered for many years but the required technologies to provide sufficient performance at low cost were not yet available. Art will outline the requirements and present a tunable RF technology platform and early products based on that platform along with early design/prototyping efforts toward the realization of fully programmable RF front-ends.

About the Speaker

Dr. Art Morris is CTO and co-founder of wiSpry, Inc., a company fielding programmable RF circuits for commercial wireless applications. He is responsible for wiSpry's core technology, next generation product roadmap and IP portfolio. Art has focused on physical electronics and electromagnetic fields for over 30 years. Dr. Morris received a B.S. in Physics and a B.S. in Electrical Engineering from NCSU in 1983. He began his career advancing traveling wave tubes to unprecedented power densities and frequencies. He shifted back to solid state in graduate school, investigating the high frequency limits of heterojunction bipolar transistors. Art then led a consulting firm supporting commercial development in electron devices, communication systems, and high voltage instrumentation. This was absorbed into Raychem (now part of Tyco Electronics) to build a business around state-of-the-art broadband RF and optical components. In 1999, Art dove into MEMS and Microsystems at Coventor where he led RF and optical development. Dr. Morris co-founded wiSpry in 2002 spinning out core IP developed at Coventor. Art is a Fellow of the IEEE and is an adjunct professor at NCSU.

RSVP Requested : https://meetings.vtools.ieee.org/meeting_view/list_meeting/20653

Basic EMC requirements to meet CE certification

Presenter : Ruby Hall

Immunity and Emissions testing of new products can be challenging to many Engineers. The EMC Society will help demystify some of the Black Magic about radiated noise and susceptibility to high frequency signals. Ruby Hall of Compatible Electronics will discuss the Immunity Standard EN 61000-6-2 and Emissions Standard EN 61000-6-4. This will include a discussion of the Standards, what they mean and how to apply them to your product. If you have specific questions please forward them to mnicholls@a-m-c.com.

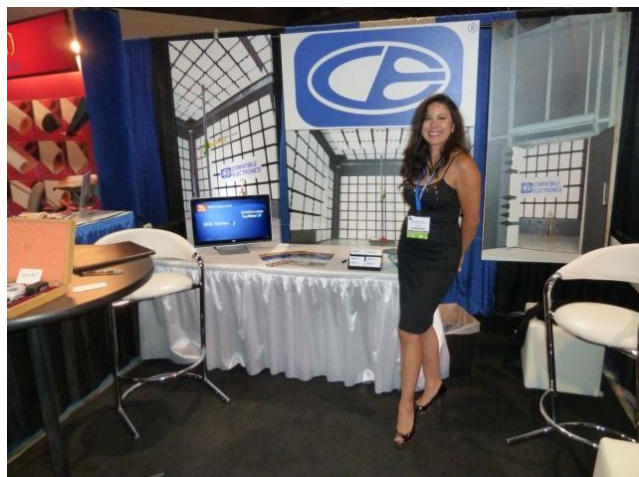
Date & Time **October 30 2013 6:00PM**

Location *Thousand Oaks Library*
Newbury Park Branch
2231 Borchard Rd
Newbury Park, Ca 91320

Ruby has worked in the field of electronics since 1982 starting out as an assembler for a computer graphics company that provided some of the first computer generated graphics equipment to such notable companies as Disney, NASA, ABC and others. Over the years positions included Quality Assurance, Engineering Change board member and consultant.

Ruby began a career in Electromagnetic Compatibility in 1992, when she joined Compatible Electronics, Inc. She is currently the Lab Manager for the Los Angeles Division located in Agoura and also act as assistant Q.A. manager for the entire company. Compatible Electronics has been helping manufacturers and developers of electronic equipment meet their market window since 1983. From its beginnings in FCC and VDE testing and a single lab in Brea, California, Compatible Electronics has evolved into one of the biggest and most experienced testing and consulting companies in California. All this experience has made Ruby keenly aware of our clients EMC and EMI needs. Compatible Electronics' staff of NARTE certified EMC Engineers and Accredited Test Lab Engineers have experience solving compliance problems for a vast number of product variants, from simple consumer electronic devices, to more complex avionics and military electronic equipment.

Specialties: Telecommunications Certification Body (TCB), EU Notified Body, APEC/TEL MRA CAB, VCCI Member, ISO 17025 and Guide 65 Quality Assurance



October 30: Patient Privacy and Big Data - Irreconcilable Differences? Charlie Blanchard, Amgen

Healthcare organizations in the United States now have the charter to efficiently share patient information in order to improve the quality of healthcare delivery. Big Data offers the promise of further advances in healthcare, through the availability of minute detail of patients' lives, and the processing power to develop valuable inferences from them. However, pharmaceutical, biotech, and medical device companies are prohibited, in most situations, from doing so. This becomes even more complicated when complying with wildly differing privacy regulations in the United States, Europe, and the rest of the world.



Charlie Blanchard is Director, Global Privacy & Information Systems Integration at Amgen. He has been involved with some of the most innovative and challenging programs since his arrival at Amgen in 2012.

Prior to Amgen, Charlie was Senior Manager - Security & Privacy Services at Deloitte & Touche LLP. Charlie is a licensed and certified Information Privacy Professional in Europe and the United States, as well as a certified Information Security Manager and Auditor. He is a Fellow of the British Computer Society.

Location:	California Lutheran University 60 West Olson Road, Thousand Oaks
Dinner:	In the Atrium of the Ahmanson Science Building, available at 6 p.m. for \$10 payable at the door, no RSVP needed.
Lecture:	Nearby, at 7 p.m. Come to Ahmanson beforehand for directions. Meetings are free, open to the public
Parking:	In general, visitor Parking is no longer permitted before 7 p.m. on Memorial Parkway and adjacent streets. However, CLU Public Safety has provided us with parking passes to download and use.
Contact:	Steve Johnson, sfjohnso@ieee.org



Upcoming IEEE Nearby Events

The IEEE Foothill Section invites you to a Presentation on An Introduction to Software Defined Radio for Microwave Engineers

Without a doubt, you have heard of Software Defined Radio (SDR). As the Wireless Innovation Forum defines SDR, in the simplest wording possible, this is a radio system, which transmits and receives electromagnetic energy, with some functions in the physical layer generated and controlled by software. So, we expect that there will be some hardware components involved. On the transmit side, this would mean antenna, power amplifier, digital-to-analog convertor; on the receive side, antenna, low-noise amplifier, analog-to-digital convertor. This leaves a large engineering problem to specify, design, and develop the software that will make the SDR system actually function as an integrated system. This subject should be of immediate interest to all our IEEE Foothill engineers interested in RF, Microwaves, communications systems, and of course, software engineers.

Today, the IEEE Foothill Section will sponsor a technical presentation with a summary, demonstration, and prognosis of the state-of-the-art in SDR. We will welcome our guest speaker, Dr Jeffrey Pawlan, IEEE Microwave Theory and Techniques Society Distinguished Lecturer, to fill us in on the status of current IEEE topic.

Saturday October 5, 2013, starting at 9:30 AM with Continental Breakfast, Presentation at 10:00 AM; concluding at 12:00PM

DeVry University, Pomona Campus, 901 Corporate Center Drive, Pomona CA , Room 204

Please RSVP to eesdevry@gmail.com. For further information, please contact IEEE Foothill Section MTT Chair Max Cherubin, or IEEE Foothill Section Chair Frank G Freyne at fgfreyne@ieee.org

For more Information: <http://foothill.ieee-bv.org/2013/08/first-notice-software-defined-radio-presentation-set-for-october-5-2013/>

Other Events

3-D Printing: The Future of Advanced Manufacturing

Duration: 60 minutes

Event Date & Time: October 16, 2013 at 02:00 PM Eastern Daylight Time

From construction and bioengineering to aerospace and defense, 3-D printing is revolutionizing manufacturing and has the potential to transform several industries. Join Hod Lipson, professor of engineering at Cornell University and co-author of the book *Fabricated: The New World of 3D printing* and Bill Buel, director of mechanical engineering at MakerBot Industries, as they discuss the current status and future outlook for 3-D printing and how it impacts engineers.

Speakers:



Hod Lipson
Cornell University

Hod Lipson is a professor of engineering at Cornell University and a co-author of the recent book *Fabricated: The New World of 3D printing*. His work on self-aware and self-replicating robots, food printing, and bio-printing has received widespread media coverage. Lipson has co-authored over 200 papers and speaks frequently at high-profile venues such as TED and the National Academies. He directs the Creative Machines Lab, which pioneers new ways to make machines that create, and machines that are creative.



Bill Buel
MakerBot Industries

Bill Buel is the director of engineering at MakerBot, enabling disruptive technology for the masses and productizing through innovative simplifications and economies of scale. He is responsible for leading product development teams at MakerBot including industrial design, mechanical engineering, and R&D. Buel holds a BS in physics and an MS in manufacturing systems engineering, and believes that you don't have to be an engineer to be creative or inventive: 3-D printing bridges the gap between our ideas and empowers all of us with the ability to improve our world.

Moderator:



Chitra Sethi
Managing Editor, ASME.org

Chitra Sethi is the managing editor of ASME.org, where she writes about a wide variety of science and engineering-related topics including aerospace, bioengineering, nanotechnology, robotics, and STEM education. Sethi has over 10 years of experience in technical and online publishing and focuses on emerging technologies and how they impact the society.

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Buenaventura Section and Chapter Info

<u>Section Office 2012</u>	<u>Name</u>	<u>E-Mail</u>
Chair	Bridgeman Carney	bcarney@ieee-bv.org
Vice-Chair	Albert Wolfkiel	awolfkiel@ieee-bv.org
Treasurer	Zak Cohen	zcohen@ieee.org
Secretary	Karl Geiger	karl@ieee-bv.org
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Past Chair	Karl Geiger	karl@ieee-bv.org
Sr. Representative, LA Council	Bridgeman Carney	bcarney@ieee-bv.org
Representative, LA Council	John Wright	j.wright@ieee.org
Section Webmaster	Karl Geiger	webmaster@ieee-bv.org
Newsletter	Zak Cohen Karl Geiger Gaurav Mahajan	newsletter@ieee-bv.org

<u>Chapter</u>	<u>2013 Chair</u>	<u>E-Mail</u>
Aerospace	Momin Quddus	moming7@yahoo.com
Communications	David Pehlke	chair@comsoc.ieee-bv.org
Computer	Craig Reinhart	reinhart@callutheran.edu
Electron Dev./Circuits and Systems	Sunil Pai	chair@edcas.ieee-bv.org
Engineering in Medicine and Biology	Bob Rumer	chair@embs.ieee-bv.org
Life Members Affinity Group	Jerry Knotts	chair@lmag.ieee-bv.org
Microwave Technology and Techniques	Tom Campbell	chair@mtts.ieee-bv.org
Power and Energy	Bridge Carney	bcarney@ieee-bv.org
Robotics	Bob Rumer	rrumer@callutheran.edu

Be sure to check the Section's websites for the latest updates, meeting flyers, and newsletters. Some event details may change. Sites:

<http://www.ieee-bv.org/>

<http://comsoc.ieee-bv.org/>

<http://www.ieee-bv-cs.org/>

<http://www.ieee-bv-embs.org/>

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