



IEEE BUENAVENTURA SECTION

September 2011 Newsletter

Meetings and Events

- 13 Sep ComSoc** **A Discussion of the Relative Merits and Demerits of High Speed Digital Test Approaches**
Mr. Glen Broderick
6:30 p.m., ITT-Force Protection Systems, Thousand Oaks
Identification required; non-U.S. citizens must show INS documentation, i.e., H1B, 151, or passport
Web: <http://comsoc.ieee-bv.org/>
More info/RSVP:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/8023
- 14 Sep Computer** **Cloud Computing for Fun and Profit**
Mr. Karl Geiger
6:30pm, Nygreen 6, Cal Lutheran Univ., Thousand Oaks
7pm – presentation and discussion
Web: <http://www.ieee-bv-cs.org/>
More Info/RSVP: events@ieee-bv-cs.org
http://meetings.vtools.ieee.org/meeting_view/list_meeting/8107
- PES** **TBD**
Web: <http://pes.ieee-bv.org/>
- RAS** **TBD**
Web: <http://ras.ieee-bv.org/>
- 21 Sep Aerospace** **NASA's Remote Sensing Radar Missions for Earth Science**
LMAG
MTTS
Momin Quddus
6:30-8pm, Vitesse Semiconductor, Camarillo
RSVP: Sunil Pai, pasisunils@ieee.org
Web: <http://aes.ieee-bv.org/>
- 22 Sep ED/CAS** **Officer and Organization Meeting**
Karl Geiger, Section Chair
7pm, Snapper Jack's Taco Shack, Camarillo
More info/RSVP: Karl Geiger
http://meetings.vtools.ieee.org/meeting_view/list_meeting/8111
- 26 Sep Section** **Section Operating Committee Meeting (Section and Chapter Officers)**
6:30pm TBA
- 28 Sep EMBS** **Seeing Without Your Eyes**
Dr. Rogelia Nochebuena
6:00 dinner and networking in California Lutheran University 's Ahmanson Hall (ASC 100) (\$10 at door, no reservation)
7:00 presentation (no charge)

SECTION SPONSORS



The IEEE

Web: <http://www.ieee-bv-embs.org/>
More info/RSVP: Pat Jacobs
pat.jacobs@advancedpersonnelprofiles.com

Section Fall Event

Energy Efficiency Symposium

Get ready for this year's all-section Fall Event. The topic is energy efficiency in the home, industry, and the energy grid. Our major sponsor and presenter is [Southern California Edison](#), who will be discussing energy efficiency strategies for regional businesses and their upcoming smart consumer project for homes.



An EDISON INTERNATIONAL® Company

Other featured vendors and sponsors include [Quality Logic](#), who are designing software interoperability test suites for grid control software, [Titan LED](#), a maker of commercial LED lighting solutions, and [Maverick Angels](#) investment group.

Date:

Thursday 27 October

Time:

3-8pm

Where:

Westlake Village Inn.

Information and tickets

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

We still have sponsorships and tables available. If you have a company or know one that would be interested in sponsorship or in setting up a display area, please contact Bridge Carney at bcarney@ieee-bv.org.

- Bridge Carney, PES Chair, Section Vice Chair

Job Opportunities

Principal Quality Engineer, Sylmar CA

Second Sight (www.2-sight.com) in Sylmar, searching for a principal quality engineer, preferably with an EE. 4-6 years experience as Quality, Reliability or Software Quality Engineer.

One year experience as administrator of web-based Quality Management System application. Comprehensive knowledge of Quality Engineering, Quality System Management, Document Control and application of statistical techniques

Contact Pat Jacobs

pat.jacobs@advancedpersonnelprofiles.com



Membership Development - Please Welcome Our New Members

Please join me in welcoming our newest Section members:

- David Wagenbach
- Derek Hines
- Dorothy Inman-Zadeh
- James Wang
- Jim Jollota
- Priscilla Becker
- Thomas Glazier



Members can find and make contacts by [searching MemberNet](#) at the [IEEE Member Portal](#). For new members, please

- update and share your information at the portal to help connect you to everyone, and
- remember to set up your new IEEE email forwarding address.

– *Karl Geiger, Section Chair*

Section and Chapter News

2012 Membership

Qualified engineers are invited to join the IEEE or the IEEE Computer Society. Applications for enrollment start 16 August. New members may enroll now to have their memberships immediately active, good through December 2012. This means up to 16 months of membership and member benefits for the price of 12 months.

To apply to join, see

- <http://www.ieee.org/join> or
- <http://www.computer.org/join>

– Bridge Carney, Section Vice Chair/Membership Development

Newsletters

If you have an event or news, IEEE or otherwise, that is of interest to IEEE members please send it to Zak Cohen, zcohen@ieee.org, so it can appear in the newsletter and the website.

If you wish to write for the newsletter or website, please contact Zak or a Chapter chair.

--Zak Cohen, Section Secretary

September Section Event Flyers



MEETING NOTICE

Buenaventura Section's ComSoc Chapter

Date and Time: Tuesday, September 13th, 2011

Location : ITT-Force Protection Systems, 3500 Willow Lane, Thousand Oaks, CA

Directions: take the Hampshire Rd. exit off Hwy 101, facility is east on the south side of 101
http://maps.yahoo.com/maps_result?addr=3500+Willow+Lane&csz=Thousand+Oaks%2C+CA&country=us&new=1&name=&qty=

Agenda: 6:30 p.m. Reception, Pizza, & Networking
7:00 p.m. Meeting & Presentation

RSVP Requested: http://meetings.vtools.ieee.org/meeting_view/list_meeting/8023

NOTE: *The presentation takes place in a company that is involved in Government work. Therefore, please note that you will be asked for Government issued picture ID (Drivers License or better). Non-US Citizens will need to bring INS documentation, i.e. H1B, 151, or passport.*

Title: A Discussion of the Relative Merits and Demerits of High Speed Digital Test Approaches

Speaker: Mr. Glen Broderick

Overview: Every year digital designs run faster, and the number of protocols and technologies increase. These factors increase the difficulty of testing the design. In order to assure interoperability we write standards and specifications. But, how do we know that our devices comply with these standards? How do we know that the standard is comprehensive and foresees all of the problems that can occur? In other words, even if we comply with the standards will our product work and will it interoperate with designs from other companies? In this session we will discuss the relative advantages and disadvantages of Protocol Analyzers, Logic Analyzers, Oscilloscopes and Router Testers for testing High Speed Serial Communication Designs above 1Gbps. We will discuss testing designs that protocols such as Ethernet, Fibre Channel, PCIe, SerialRapidIO, Thunderbolt, Lightning Peak, CPRI, OBSAI, sFPDP, and AFDX. High Speed Serial Communications can be found in systems as varied as datacom, telecom, and video. We will discuss the reasons for negative traffic testing, new types of negative traffic and new types of debugging technologies. Negative Traffic Testing goes a step beyond insuring that your device complies with a standard. It seeks to anticipate problems and test scenarios that are not covered by the standards. For instance, the standard says that you MUST NOT do something. We seek to know; what happens if you do? We will also discuss a new type of test technology called Dynamic Protocol Reconfiguration (DPR). DPR allows you to use the same tester on different projects even when the project changes technologies. This can all be accomplished with the same device.

Bio: Mr. Glen Broderick has worked in the Test and Measurement industry for the last 35 years. He has held technical, sales, or marketing positions with the USN, Fluke, Spirent Communications, Tektronix, and Absolute Analysis. As a technical salesperson, Glen has consulted on thousands of projects in the areas of Calibration, Data Acquisition, Vibration, Datacom, Radar, and Avionics Test. He currently works for Absolute Analysis and travels extensively within the US giving talks on digital test technology and solutions. You can find further information or contact Glen on LinkedIn.

Buenaventura ComSoc Chapter

IEEE BUENAVENTURA SECTION
Aerospace & Electronics Systems Chapter
&
Life Members Affinity Group



NASA's Remote Sensing Radar Missions for Earth Science

Date: Wednesday, Sept 21st, 2011

Time: 6:30 pm Refreshments and Networking,
7:00 pm Talk

Venue: Vitesse Semiconductor Corp.
741 Calle Plano,
Camarillo, CA 93012

Scientists have been studying Atmospheric and solid Earth processes for decades. These studies have been based on the data available from the airborne and ground sensors. In order to create global models of the Earth processes science data at a global scale is required. Most efficient and comprehensive data at global scale can only be acquired from space via Earth orbiting satellites. NASA is in the process of deploying several Earth orbiting satellites with remote sensing Radar instruments. These satellites will map the Earth's processes at relatively short time scales. This will allow scientists to model and study Earth's Atmospheric and solid processes.

In this talk a high level overview of NASA's current and planned Remote Sensing Radar missions will be provided. Detailed topics will be discussed based on the interest of the audience.

Please RSVP to Sunil Pai (paisunils@ieee.org) if you wish to attend this meeting.

Speaker: Momin Quddus, Jet Propulsion Laboratory

Momin Quddus works at Jet Propulsion Laboratory where he is involved in the development of a Radar instrument for a current mission. He is also involved in the formulation of a future remote sensing radar mission. Prior to JPL, Momin designed and developed Satellite receiver for Direct Broadcasting system. He also designed CDMA and TDMA mobile phones at Motorola and NEC. Prior to that, he worked for an avionics equipment manufacturer where he designed antennas and subsystems for Military and commercial aircrafts. Momin received his MSEE degree from FAU and BSEE degree from University of Texas. He received his PE certification in the State of Florida. Momin has a patent on an antenna design for wireless devices. He serves as an Officer in MTTTS Chapter and IEEE Buenaventura Section.

Momin enjoys playing field hockey, tennis and soccer. He coaches youth soccer, basketball and track & field teams.

Neighboring Section News and Special Announcements

NOMINATIONS ARE BEING SOUGHT FOR Region 6 Director/Delegate Elect Candidates

In early 2012 the Region will need to select candidates for Director-elect to go forward to the IEEE Ballot.

The Region N&A committee is seeking nominations (including self-nominations) for prospective candidates for the posts of Region Director-elect and who will also be a Delegate to and serve on the IEEE Board of Directors, the MGA Board and IEEE-USA Board for two years.

The potential candidates will be those who will become Director/Delegate – elect 2013-14 and then serve on the Boards in 2015-16, with a further two year term as past-Director. This position in leading the Region and being a part of the IEEE Leadership is a significant opportunity, and responsibility. The individual who is nominated must be at least a Senior Member and reside in Region 6. Given the time commitment although not formerly required it is also highly desirable that a candidate have the support of their employer. The position descriptions for both the Region and Board responsibilities are found at the URL: http://www.ieee.org/about/corporate/position_descriptions.html Details of the activities for the IEEE Board, MGA Board and IEEE-USA Boards are to be found on the IEEE web site.

To nominate an individual or to be considered as a candidate, please send a SHORT (one-page) resume, that includes IEEE experience, and a 150 word position statement to Leonard Bond (Chair N&A Committee) no later than NOVEMBER 15, 2011.

The candidates selected by the N&A committee will have the opportunity to speak at the February 2012 Region meeting, which will make the final selection for candidates to go forward to the IEEE ballot. These candidates will then the opportunity to speak at each of the five Region 6 Area meetings.

If you have questions or require additional information please send me an e-mail, I will be happy to set up a time to talk.

Regards

Leonard J. Bond

Chair Region 6 N&A Committee

Past-Director IEEE Region 6

e-mail lj.bond@ieee.org

Electric Vehicles (EV's) and Power Grids; AC Propulsion's V2G (Vehicle to Grid) Experience

IEEE PES L.A. Metro (LAC) Chapter, Sept. 6, 2011 Meeting

Overview: AC Propulsion designed and built an EV (AC Propulsion eBox) that has successfully performed Frequency Regulation service in the PJM power market. AC Propulsion and their partners connected an eBox EV to a power control system (PJM's AGC) for grid dispatch & operation. This is an early successful collaboration across the transportation and power industries. This is also a tangible glimpse into a future Smart Grid enabled world of distributed resources, including plug-in vehicles, participating as operating assets on power systems. Take advantage of this unique chance to hear firsthand experience from a national leader in electrified transportation, and interfacing these assets to power systems

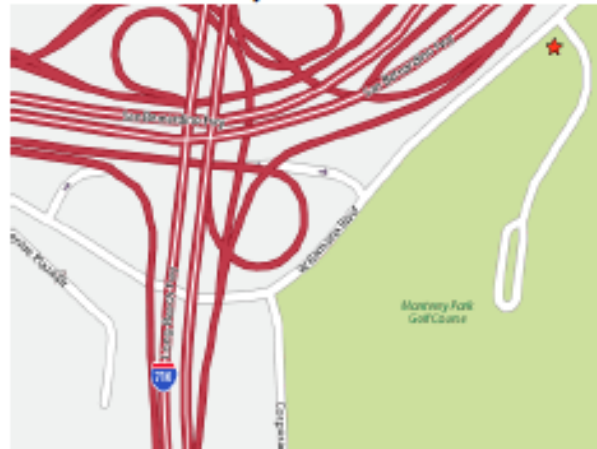
Speaker: Thomas B. Gage, CEO, AC Propulsion (San Dimas, CA)
Mr. Gage joined AC Propulsion in 1996, directing strategy and market planning, business development, and communications. He also manages production of prototype vehicles for automotive customers. He has conducted research projects on topics such as the future of the automobile and automotive transportation, electric vehicle commercialization, intelligent transportation systems, and neighborhood vehicles. He holds a B.S. degree in Mechanical Engineering from Stanford University, and an M.B.A. from Carnegie Mellon University. He drives an electric car.

When: September 6, 2011

11:15pm Social and Registration
11:30am Lunch (Luminarias Famous Buffet)
11:50pm IEEE P2030 Stds Intro
12:00pm Introduction of Speaker
12:05pm Presentation
1:00pm Adjourn

Where: Luminarias Restaurant

3500 Ramona Blvd. Monterey Park, CA
(323) 268-4177
On the Monterey Park Golf Course Grounds



Details: Make your advance reservation by 2pm on August 31, 2011; IEEE Members \$20.00, Non-IEEE Members \$30.00, All Students \$15.00. Payment by check or cash only. No Charge Cards will be taken at the door. After lunch, attendance for the presentation is free.

Make your reservation by sending an email to: Henry.Khoo@sce.com
Questions? Call Charlie Vartanian (626) 818-5230



Deadline extended

CALL FOR 1 PAGE ABSTRACT

The American Medical Association (AMA) and the IEEE Engineering in Medicine and Biology (EMB) Society are pleased to announce the **Second AMA-IEEE Medical Technology Conference: Health Information Technology - Delivering on the Promise of Cost Effective Quality Healthcare**, in Boston, MA, on **October 16-18, 2011** at the **Boston Park Plaza Hotel and Towers**. The meeting will take place just before the **Connected Health Symposium** (for more information visit www.connected-health.org).

The 2011 conference will be devoted to **Healthcare IT**, a discipline at the intersection of information and computer science, engineering, and healthcare. The conference will examine resources, devices and methods required to optimize the acquisition, storage, retrieval, display, and use of information in health and biomedicine including healthcare informatics applications such as clinical decision support.

Please visit <http://ama-ieee.embs.org/> for more information. **Accepted papers may be considered for publication in PULSE or other EMB Transaction Publications.**

Important Dates

August 29, 2011 – **SEPTEMBER 6, 2011** – new abstract deadline -*please see our website for details*

September 18, 2011 - Notification of acceptance; registration deadline for authors

September 23 – Papers loaded on the website

October 7 - Online PPT presentations due

4 Main Themes (a list of keywords for each theme are located on our website under "themes")

- Health IT Adoption and Healthcare Reform
- Workflow (administrative & clinical) and Health IT
- Clinical Decision Support and Individualized Medicine
- Improving the Outcomes and Quality



IEEE Medical Technology Conference:

Health Information Technology
*Delivering on the Promise of Cost
Effective Quality Healthcare*

Preliminary Agenda

Sunday – October 16, 2011

- | | |
|---------------|--|
| 16:30-18:30 | Registration |
| 18:30 – 19:30 | Michael Hodgkins, MD, AMA CMIO - Welcome and Keynote Speaker |
| 19:30 – 21:30 | Reception |

Monday – October 17, 2011

- | | |
|---------------|--|
| 8:00 – 10:00 | Morning Poster Session, Coffee, Exhibitors |
| 10:00 – 10:15 | General Session/Welcome |
| 10:15 – 11:00 | David W. Bates, MD, MSc - Plenary Speaker |
| 11:00 – 12:30 | Morning Parallel Tracks of 4 themes and Breakout Session |
| 12:30 – 13:30 | Lunch (<i>on own</i>) |
| 13:30– 15:00 | Afternoon Parallel Tracks of 4 themes and Breakout Session |
| 15:00 – 17:00 | Afternoon Poster Session, Coffee Break, Exhibitors |
| 17:00 – 18:00 | Informal Social Networking/Free time |

Tuesday – October 18, 2011

- | | |
|---------------|--|
| 8:00 – 10:00 | Morning Poster Session, Coffee, Exhibitors |
| 10:00 – 10:15 | General Session |
| 10:15 – 11:00 | Plenary Speaker |
| 11:00 – 12:30 | Morning Parallel Tracks of 4 themes and Breakout Session |
| 12:30 – 13:30 | Lunch (<i>on own</i>) |
| 13:30– 15:00 | Afternoon Parallel Tracks of 4 themes and Breakout Session |
| 15:00 – 17:00 | Afternoon Poster Session, Coffee Break, Exhibitors |
| 17:00 – 18:00 | Synopsis of the 4 themes workshop |
| 18:00-18:05 | Closing Remarks |



WELCOMES YOU TO ATTEND THE DISTINGUISHED LECTURER TOUR ON :
Protocol Engineering for Vehicular Communications

Date: Wednesday, September 14, 2011

Time:
6:00 PM – Social Networking + Refreshments
6:30 PM – Dinner
7:00 PM – Presentation

Location:
Lombardo Room
Maggiano's Little Italy
6100 Topanga Canyon Blvd
Woodland Hills, CA 91367

Cost: RSVP before 08/30/11 to receive the early RSVP discount!

IEEE Member Early RSVP: \$10 (\$15 after 08/30/11)
Non-member Early RSVP: \$15 (\$20 after 08/30/11)

RSVP at http://meetings.vtools.ieee.org/meeting_view/list_meeting/7837 by September 9, 2011

Information: Mr. Jack Sun, jack.sun@ieee.org

This is a special event from IEEE Communications Society's Distinguished Lecturer Tour (DLT)!

Speaker: Dr. Falko Dressler



Professor, Institute of Computer Science,
University of Innsbruck, Austria

Abstract

Much progress can be observed in the domain of Inter-Vehicular Communication (IVC). First, an introduction to recent developments in the field of IVC protocols with emphasis on IVC based on flooding, peer-to-peer techniques, and periodic beaconing. From previous work, it can be observed that centralized solutions and flooding based approaches each show the effects on performance as a function of traffic density, penetration, network utilization, and other parameters. This observation is in line with findings about intelligent transportation systems that have been developed for specific settings. To overcome performance limitations, beaconing has been investigated as a key communication paradigm that is also used in the upcoming DSRC/WAVE standards based on IEEE 802.11p. Most recently, the Adaptive Traffic Beacon (ATB) protocol has been presented, which is adaptive in two dimensions. ATB supports the exchange of delay-sensitive traffic information in a wide range of scenarios by flexibly adapting to the availability of infrastructure elements as well as to the network load. In addition, the evolution and utilization of simulation techniques will be discussed, showing how recent advances in bidirectional coupling of road traffic microsimulation and network simulation lead to more realistic results at comparably low computational cost. There will also be a discussion on a realistic model for the physical layer modeling, and the simulation of the vehicles' mobility as a function of network and road traffic parameters that support human driver behavior.

Speaker Biography

Dr. Falko Dressler is a professor in the Computer Science Department at the Institute of Computer Science, University of Innsbruck, and Head of the Computer and Communication Systems Group. He teaches network security, self-organizing sensor and actor networks, and communication systems. Dr. Dressler received his M.Sc. and Ph.D. degree from the Department of Computer Science, University of Erlangen in 1998 and 2003, respectively. He has authored the textbook on Self-Organization in Sensor and Actor Networks, published by Wiley in 2007. He is also an Editor for many journal publications, including IEEE journals in Communication topics such as Ad Hoc Networks, ACM/Springer Wireless Networks (WINET), Autonomic Networking, and Nano Communication Networks. Dr. Dressler has chaired numerous conferences, and regularly acts in the TPC of leading networking conferences such as IEEE INFOCOM, IEEE ICC, IEEE GlobeCom, IEEE WCNC, and IEEE MASS. He is an IEEE Distinguished Lecturer in the fields of inter-vehicular communication, self-organization and bio-inspired networking. Also, Dr. Dressler is a Senior Member of the IEEE (COMSOC, CS, and VTS) as well as a Senior Member of ACM (SIGMOBILE).

For the complete abstract and biography, please visit the RSVP webpage.

For SFV Section News, visit: <http://ewh.ieee.org/r6/sfv/>

Section and Chapter Info

Section Office 2011	Name	E-Mail
Chair	Karl Geiger	karl@ieee-bv-cs.org
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Secretary	Zak Cohen	zcohen@ieee.org
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PACE Events Chair	Jim Leatham	jleatham@alum.mit.edu
Past Chair	Steve Johnson	sfjohnso@ieee.org
Sr. Representative, LA Council	Bridgeman Carney	bcarney@ieee-bv.org
Jr. Representative, LA Council	Karl Geiger Momin Quddus	karl@ieee-bv-cs.org moming7@yahoo.com
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Chapter	2011 Chair	E-Mail
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Electronic Devices, Circuits and Systems	David Viveiros	david.viveiros@ieee.org
Engineering in Medicine and Biology	Abigail Corrin	abigailacorrin@hotmail.com
Life Members Affinity Group	Jerry Knotts	jeknotts@ccvf.org
Microwave Technology and Techniques	Momin Quddus	moming7@yahoo.com
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/> Aerospace, Life Members, Microwave, Power and Energy, Robotics, Section
- <http://comsoc.ieee-bv.org/> Communications
- <http://www.ieee-bv-cs.org/> Computer
- <http://www.ieee-bv-embs.org/> Engineering in Medicine and Biology