

Welcome to the Buenaventura IEEE Section for September 2009

We're back from summer break with a great line-up of events in September and October – we hope to see you there.

Our events are free and open to the public, and often have dinner available. All of these events are posted on the Section calendar, available on our site.

- September 08 ComSoc: CSI Division 27 Communications Project Management, Zachary Cohen, Briarwood Associates
- September 09 Computer: No Silver Bullet III: Business and Software Engineering in the Cloud, Karl Geiger, Convergent Informatics
- September 12 Section: Senior Member Elevation Clinic
- September 16 Fundamentals of Signal and Power Integrity at Chip, Board, and System Levels – Cosmin Iorga, NoiseCoupling.com
- September 30 EMBS: Translating Cardiac Stem Cell Science from the Laboratory to the Clinic, Olliver Foellmer, Capricor



Our Section's annual Senior Member Advancement Clinic will take place on September 12 from 10am to 2 pm at California Lutheran University. Interviewers will be on hand to review your credentials, write recommendations, and help you file your application.

Potential Senior Member candidates - if you haven't yet heard from us with an invitation to participate, please drop me a line.

Thanks to all of the current Senior Members and Fellows who have agreed to interview our Members!

Our Section will continue its new tradition of Dinner with the Experts in our presentation of **Frontiers in Digital Entertainment on Wednesday October 14th**. Please see the announcement, included here, and watch your e-mail for advance ticket purchase information.

Steve Johnson, 2009 Section Chair

2009 Section Officers

Would you like to volunteer? We have a number of Officer positions open.

<u>Section Office</u>	<u>Name</u>	<u>E-Mail</u>
Chair	Steve Johnson	sfjohnso@ieee.org
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Treasurer	Zac Cohen	zacc99@aol.com
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Section Webmaster	Steve Johnson	

IEEE BUENAVENTURA SECTION

2009 Chapter Officers

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ComSoc
Computer
EDCAS
EMBS
LMAG
MTTS
Robotics

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Craig Reinhart
David Viveiros
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Jerry Knotts
Chuck Seabury
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Skyworks - high performance analog and mixed signal semiconductors enabling mobile connectivity



Alfred Mann Institute at University of Southern California



California Lutheran University



Ciao Wireless, Inc.



IEEE Communications Society



ITT - Engineered for life



MTT-S



Vitesse - Making Next-Generation Networks a Reality

[Renew your IEEE Membership for 2009](#)



Co-Sponsored by ComSoc, LMAG, and AES Chapters

Date and Time: Tuesday, September 8, 2009

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 only if you plan to attend: Victor S. Lin, victor.s.lin@aero.org

***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 Right-To-Work documentation.*

CSI Division 27 Communications Project Management Speaker: Zachary Cohen

Division 27 of the Construction Specifications Institute (CSI) is the preferred method of Project Management for construction and growth projects within the Electronics, Telecommunications and Data Communications field. In the near future all construction, from the bid process through turnover, will have to be completed using Division 27 certified technicians and engineers. TIA/EIA, BICSI, IEEE and ITU specifications, requirements and standards have been included in the Division 27 documentation. Thousands of firms are now using Division 27 as their Project Management standard.

An understanding of Division 27 is important to all managers, engineers, consultants and technicians who are involved with installation procedures.

TAMPA, Fla., April 30 /PRNewswire/ -- BICSI, the association supporting the information transport systems (ITS) industry with information, education and knowledge assessment, recently signed an honorary friendship agreement with Construction Specifications Institute (CSI), in order to promote further growth and development of the ITS and telecommunications industries. The official agreement was signed on March 27, 2009, by BICSI President Edward J. Donelan, RCDD, NTS, TLT and CSI President Gilman K. M. Hu, FCSI, AIA.

Bio: Zachary L. Cohen, Principal Consultant, Briarwood Associates has spent over 40 years been in the data and telecommunications industries, and founded Briarwood Associates in 1985. Zak is internationally known for his unique training style and in-depth expertise. He has trained thousands of craft and management personnel in most of the Fortune 500 companies in data communications engineering, installation, troubleshooting and Project Management techniques. He is a senior member and Regional Officer of the Institute of Electrical and Electronic Engineers (IEEE)



IEEE MEETING NOTICE **Buenaventura MTT-S Chapter**

Date and Time: Wednesday, Sept 16th, 2009 (6:30PM)

Location : Ciao Wireless

4000 Via Pescador, Camarillo, CA 93012

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



Fundamentals of Signal and Power Integrity at Chip, Board, and System Levels

Cosmin Iorga, Ph.D

This talk discusses fundamental principles and practical approaches to understand and analyze the signal and power integrity in electronic systems. The presentation material has been created specifically for engineers and designers who work on high-speed digital designs at chip, board, and system levels. The signal integrity topics cover from the basic concepts of signal delivery through transmission lines to advanced issues related to waveform degradation, inter-symbol interference, edge trail modulation, random jitter, and deterministic jitter. During this talk attendees will learn the physical mechanisms of signal reflections, crosstalk, ground bounce, and techniques for minimizing the effects of discontinuities, selecting the best termination strategy, and designing optimum via transitions in multi-layer printed circuits boards. The power distribution topics cover physical mechanisms that degrade the power integrity in chip, package, and PCB co-designs, and techniques for designing robust and efficient power distribution networks. Attendees will learn how to reduce the power distribution impedance, eliminate the power distribution resonance peaks, select the right decoupling capacitors, and design the optimum physical layout placement and routing. The effects of power integrity on high-speed signal degradation are also discussed.

BIOGRAPHY

Dr. Cosmin Iorga is the founder and president of NoiseCoupling.com, a company that focuses on consulting, teaching, and mentoring services covering signal integrity, power integrity, and noise coupling in electronic systems. Dr. Cosmin Iorga has earned his Ph.D. in Electrical Engineering from Stanford University. Dr. Cosmin Iorga has accumulated over 20 years of experience in high-speed circuit design and troubleshooting at system, board, and integrated circuit levels, with emphasis on signal integrity and noise coupling reduction. Dr. Cosmin Iorga has filed more than 10 patents with 7 granted so far, covering innovative solutions in noise coupling reduction and signal integrity. Dr. Cosmin Iorga is the author of the book "Noise Coupling in Integrated Circuits: A Practical Approach to Analysis, Modeling, and Suppression". Dr. Cosmin Iorga teaches all the technical courses and team mentoring offered by NoiseCoupling.com and participates directly in all consulting activities.



A Case Study for Translating Cardiac Stem Cell Science from the Laboratory to the Clinic

Olliver Foellmer, B.S., MBA
President and CEO of Capricor, Inc.



Wednesday, September 30, 2009 7 PM
CLU - Richter Hall, Ahmanson Science Building

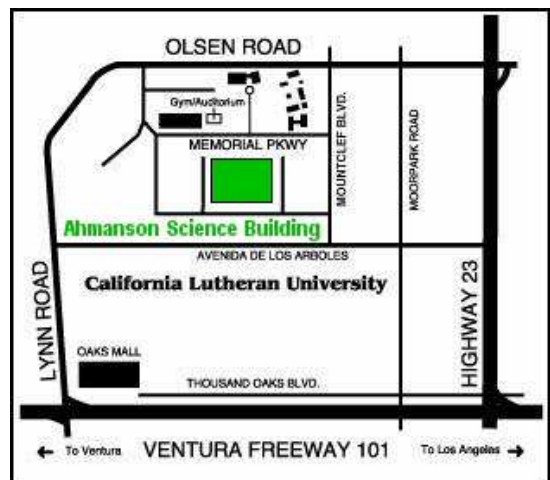
Mr. Foellmer has over 15 years experience in biotechnology and managing research and development. He has directed business development at AmCyte Inc., an adult stem cell company focused on regenerated islets for the treatment of diabetes. In 2007 publicly traded ReNeuron Group PLC successfully acquired AmCyte. Previously, Mr. Foellmer directed an HIV clinical trial project management group at Consolidated Laboratory Services Inc., and submitted HIV laboratory data pivotal to the approval of two new medications in the HIV field. Prior to this, Mr. Foellmer worked in business development at Genaissance Pharmaceuticals. He joined the founders of Genaissance in development and fundraising efforts that included two rounds of VC financing, preceding a successful IPO in August of 1999. Mr. Foellmer is also founder and chairman of SentiaTech Inc., a California start-up, which is developing computer speech-science technology. Mr. Foellmer received his BS in Chemistry from Yale University and his MBA from the University of Southern California Marshall School of Business.



Meeting Site: California Lutheran University
100 Ahmanson Science Building,
60 West Olson Road, Thousand Oaks
Meetings are free, open to the public

Dinner: Available at 6 p.m. for \$10 payable at the door,
no RSVP needed.

Parking (Changed): In general, visitor Parking is no longer permitted before 7 p.m. on Memorial Pkwy and adjacent street. However, CLU Public Safety has provided us with **parking passes** to download and use.
See bv-embs-chapter.com to download.



Contact: Mike Shaw, mshaw@clunet.edu

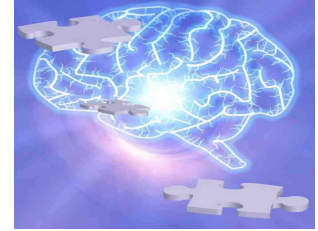
Our **California Lutheran University, IEEE EMB Society, Alfred Mann Institute,**
Sponsors: **MicroJoining Solutions, IEEE Buenaventura Section, Amgen Foundation**



IEEE

BUENAVENTURA COMPUTER SOCIETY

Wednesday 9 September 2009



No Silver Bullet III: Business and Software Engineering in the Cloud

Karl Geiger, Convergent Informatics, Inc.

Life in the cloud is heady, but few remember to bring ladders and parachutes.

Cloud computing and software as a service (SaaS) have received much press as the next “silver bullet” for business systems. Although they can lower technical, software development, and support costs, Cloud projects run like any other systems development/deployment effort. They require clear goals, well-defined requirements with testable endpoints, and diligent project oversight. This talk highlights how good software engineering practices applied to two projects: Convergent Informatics’s eCompany-in-a-Box™ and the resuscitation of an ecommerce company. It covers what works, what to beware, and where technical folks can have lots of fun.

About the Speaker

Karl Geiger is one of the founders and principals at Convergent Informatics, Inc., “The Virtual CIO Company”. Formerly he worked as Director of Enterprise Architecture at Amgen, Inc., where he and his staff guided development and set standards for infrastructure and global systems such ERP. Karl also did extensive work in clinical development and on research information retrieval systems. Prior to Amgen, he developed library systems and supported mainframes at the University of Southern California. He holds BA in Classics (Latin and Greek) from USC and an MS in Computer Science from California Lutheran University. Karl belongs to the IEEE, the ACM, and the AAAS.

*IEEE BV CS meetings are open to the general public.
Please RSVP to the addresses below as space is limited.*

Where	Ahmanson Science Center, Holm Atrium/Richter Lecture Hall California Lutheran University
When	Wednesday, 9 September 2009 6:30pm networking, 7pm presentation
Directions	60 West Olsen Road, Thousand Oaks, CA 91360 Free parking in the lot at the corner of Olsen and Mountclef
Contact	Craig Reinhart, reinhart@callutheran.edu Karl Geiger, kgeiger@computer.org
Telephone	Karl Geiger 888-753-7311 x 25

IEEE Buenaventura Section

Senior Member Elevation Clinic

Saturday, September 12

The IEEE Buenaventura Section will be holding a Senior Member Elevation Clinic on Saturday, September 12th in Thousand Oaks. If you have not yet been contacted and are interested in applying for Senior Member grade, please contact Steve Johnson (sfjohnso@ieee.org) or Zak Cohen (zack@ieee.org) for more information.

Senior Member Grade

Senior Member is the highest grade for which IEEE members can apply. To be eligible for application, candidates must:

- be engineers, scientists, educators, technical executives, or originators in IEEE designated fields;
- have experience reflecting professional maturity;
- have been in professional practice for at least ten years;
- show "significant performance" over a period of at least five of their years in professional practice.

You can review complete Senior Member requirements here:

<http://www.ieee.org/web/membership/senior-members/requirements.html>

Benefits of Senior Membership

Recognition: The professional recognition of your peers for technical and professional excellence.

Senior Member Plaque: All newly elevated Senior Members have received an engraved Senior Member plaque to be proudly displayed for colleagues, clients and employers to see. The plaque, an attractive fine wood with bronze engraving, is sent within six to eight weeks after elevation.

US\$25 Coupon: IEEE will recognize all newly elevated Senior Members with a coupon worth up to US\$25. This coupon can be used to join one new IEEE Society. The coupon expires on 31 December of the year in which it is received.

Letter of Commendation: A letter of commendation will be sent to your employer on the achievement of Senior member grade (upon the request of the newly elected Senior Member).

Announcements: Announcement of elevation can be made at your request in Section/Society and/or local newsletters, newspapers and notices.

Leadership Eligibility: Senior Members are eligible to hold executive IEEE volunteer positions.

Ability to Refer Other Candidates: Senior Members can serve as a reference for other applicants for Senior Membership.

Review Panel: Senior Members are invited to be on the panel to review Senior Member applications.

Buenaventura Section Profile

The Buenaventura Section is one of the most active in the western United States, with over 100 speaker events in the last two years, and global recognition for our Chapters and Affinity Groups. We welcome your attendance and participation in Section events!

EMBS: Chapter of the Year 2006 and 2008

LMAG: Life Member Affinity Group of the Year 2009

Buenaventura Section Chapters

Aerospace Chapter provides speaker events to members interested in the design, integration, test, and analysis of large, complex systems consisting of major subsystems that contain dissimilar electronic devices. Most of our members work on sensor systems (radar, Sonar, optics, and navigation), communications systems, command and control centers, avionics, space systems, military systems, digital signal processing simulators, and software development. Some members work on robotics, energy, and transportation systems

Communication Society Chapter a community comprised of a diverse group of industry professionals with a common interest in advancing all communications technologies.

Computer Society Chapter chapter's vision is to be the leading provider of technical information, community services, and personalized services to the ventura county's computing professionals.

Electronic Devices Circuits and Systems chapter places its interest in all aspects of the physics, engineering, theory and phenomena of electron and ion devices as well as looks at the theory, the analysis, the design (computer aided design), the practical implementation of circuits, and the application of circuit theoretic techniques to systems and to signal processing.

Engineering in Medicine and Biology Society chapter serving the needs of biomedical engineers in ventura county. Its leadership is striving to develop new ways to serve its members with modern information from remarkable speakers.

Life Member Affinity Group IEEE "Life" status is an automatic process which is based on an individual's membership record and age. The member must be at least 65 years of age and has been a member of IEEE or one of its predecessor societies such that the sum of age and years of membership equals or exceeds 100. The Buenaventura Section has the only Life Member Affinity Group in Southern California.

Microwave Theory and Techniques Society chapter promotes the theory and applications of RF, Microwave, Millimeter-wave, and Terahertz technologies.

Robotics chapter interested in both applied and theoretical issues in robotics and automation, including intelligent machines and systems used, for example, in space exploration, human services, or manufacturing, and the use of automated methods in factory, office, home, laboratory automation, transportation, and other systems to improve performance and productivity.



IEEE

Buenaventura Section
Celebrating 125 Years
of Engineering the Future

Frontiers in Digital Entertainment

Dinner / Panel Discussion
with Leaders in the Technology
of the Entertainment Industry

Palm Garden Hotel

101 & Ventu Park Road, Newbury Park

Wednesday, October 14, 2009

6:30 p.m. – 9:30 p.m.

\$75 in advance / \$99 at the door

Watch your e-mail for Advanced Ticket Reservation Information

eBooks

Animation

Augmented Reality

Digital Projection Systems

Location-Aware Entertainment

High Performance Computing

Advanced Camera Systems

Virtual Collaboration

Gaming

Motion Capture

Digital Compositing

Digital Rights Management

Buenaventura Section