

IEEE BUENAVENTURA SECTION

Welcome to the Buena Ventura IEEE Section for August, 2009.

Our events are free and open to the public, and often have dinner available.

Most chapters are enjoying some time off during the summer, but we have one speaker event late in the month, plus a line-up of events in September and October that should be very engaging.



August 27: **AES / LMAG: The Voyager Mission to the Outer Planets and Interstellar Space**, presented by Alan Cummings, Senior Scientist, CalTech, at Vitesse Semiconductor in Camarillo

Our Section's annual **Senior Member Advancement** event will take place on September 12 at California Lutheran University. Interviewers will be on hand to review your credentials, write recommendations, and 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 candidates!

Our Section will continue its new October tradition of Dinner with the Experts in our presentation of **Frontiers in Digital Entertainment** – please see the announcement, included here.

Steve Johnson, 2009 Section Chair

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 (zakc@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).

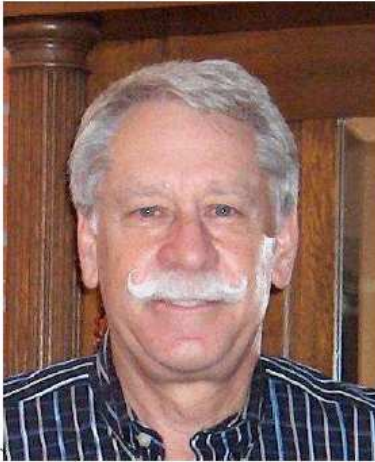
Announcements: Announcement of elevation can be made in Section/Society and/or local newsletters, newspapers and notices.

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.

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



The Voyager Mission to the Outer Planets and Interstellar Space

Date: Thursday, August 27, 2009

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

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

Launched in 1977, the twin Voyager spacecraft were assigned an ambitious mission: to explore the giant outer planets. Both spacecraft flew by Jupiter in 1979 and Saturn in 1981. Voyager 1's flight path at Saturn bent away from the ecliptic plane, while Voyager 2 continued on to encounter Uranus (1986) and Neptune (1989). Both Voyagers are now heading out of the solar system, with enough onboard resources to continue sending data until at least 2020. In 1998, Voyager 1 became the most distant human-made object in space. In December 2004, Voyager 1 crossed into a region at the outer edge of our solar system and Voyager 2 followed suit in 2007. Both spacecraft could cross into interstellar space, beyond the Sun's domain, within the next 10 years.

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

Speaker: ALAN C. CUMMINGS, Caltech
(Senior Scientist, Member of the Professional Staff)

RESEARCH AREA: COSMIC RAYS, **RELEVANT EXPERIENCE:** 1973 TO PRESENT

EDUCATION: B.A., RICE UNIVERSITY, 1966
Churchill Scholar, Cambridge University, 1967
Ph.D., California Institute of Technology, 1973

Alan Cummings graduated from Rice University with a B.A. in Physics in 1966. He attended Churchill College, Cambridge, England during 1966-67 as a United States Winston Churchill Foundation Fellow and received a Ph.D. in Physics from the California Institute of Technology (Caltech) in 1973. Since that time he has been employed in the Space Radiation Laboratory of Caltech, where he is presently a Senior Scientist and Member of the Professional Staff. His research interests have recently centered on studies of the anomalous cosmic ray (ACR) component. He has used data from a variety of spacecraft to study ACR composition and radial and latitudinal gradients. Currently, he is analyzing data returned from the Voyager 1 and 2 spacecraft, which are beyond the solar wind termination shock. He is the author or co-author of more than 70 publications in refereed journals.

He is a Co-Investigator on the Voyager Cosmic Ray Subsystem experiment and on the Advanced Composition Explorer (ACE) mission. He has been the Instrument Manager for five instruments: two on the SAMPEX (Solar, Anomalous, and Magnetospheric Particle Explorer) mission launched in 1992, two on ACE, which was launched in 1997, and one on STEREO (Solar Terrestrial Relations Observatory), which was launched 25 October 2006.



IEEE

Buenaventura Section
Celebrating 125 Years
of Engineering the Future

A composite image of a space shuttle launch, showing the shuttle ascending from the left and the orbiter separating from the external tank and boosters on the right. The background is a starry space with a grid overlay.

***Frontiers in
Digital
Entertainment***

**Dinner / Panel Discussion
with New Leaders in the
Entertainment Industry**

**Palm Garden Hotel
101 & Ventu Park Road
Newbury Park, California
Wednesday, October 14, 2009
6:30 p.m. – 9:30 p.m.**

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



Celebrating 125 Years
of Engineering the Future

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.

2009 Buenaventura Section IEEE Officers

We welcome your involvement –We have several positions open!

Section Office

	Name	E-Mail
Chair	Steve Johnson	sfjohnso@ieee.org
Vice-Chair	Momin Quddus	mominq7@yahoo.com
Treasurer	Zak Cohen	zakc99@aol.com
Secretary	Jerry Knotts	jeknotts@roadrunner.com
Award Officer	Doug Askegard	dougaskegard@ieee.org
Past Chair	Nathalie Gosset	gosset@usc.edu
Sr. Representative, LA Council	Geoff Lenart	glengator2004@yahoo.com
Jr. Representative, LA Council	Albert Wolfkiel	awolfkiel@ieee.org
Section Webmasters	Alex Lancaster	alexlancaster@ieee.org
	Steve Johnson	sfjohnso@ieee.org

Chapter

	Chair	E-Mail
Aerospace	Sunil Pai	paisunils@ieee.org
ComSoc	Mihai Pucchiu	MPucchiu@ixiacom.com
Computer	Craig Reinhart	reinhart@callutheran.edu
EDCAS	David Viveiros	david.viveiros@ieee.org
EMBS	Mike Shaw	mcshaw@clunet.edu
LMAG	Jerry Knotts	jeknotts@roadrunner.com
MTTS	Chuck Seabury	cseabury@pacbell.net
Robotics	Karl Meier	karlmeier@ieee.org



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This Monthly Newsletter is distributed electronically to 2200+ IEEE members and friends of IEEE and then posted on our website:

WWW.IEEE-BUENAVENTURA.ORG

If you need to reach individuals or companies with a technical background in Ventura County and beyond, this newsletter is an ideal vehicle. We can advertise your job openings, consulting services, or conferences and events.

Please contact Steve Johnson, sfjohnso@ieee.org

OUR MONTHLY RATES

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\$20 for business card

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