

IEEE BUENAVENTURA SECTION

Welcome to the Buenaventura IEEE Section for February, 2010

- Feb 9 *ComSoc* **10 Things About 10 Gigabit Ethernet**
Speaker: David Newman
ITT – Force Protection Systems,
3500 Willow Lane, Thousand Oaks, CA
6:30 reception, pizza, networking ,
7:00 p.m. presentation. RSVP (see flyer)
- Feb 10 *Computer* **Heterogeneous Sensor Networks:
A Bio-Inspired Overlay Architecture**
Jerry Burman, Sr. Research Scientist, Teledyne Scientific
Ahmanson Science Center, Cal Lutheran University
6:30 reception, pizza, & networking; 7:00 presentation
- Feb 17 *Microwave
Theory &
Techniques* **Non-Lethal Weapon Development:**
Active Denial Technology based on Directed
High-Power RF Energy, Dr. Daniel Gonzalez
Ciao Wireless, 4000 Via Pescador, Camarillo
6:30 reception & networking; 7:00 presentation
- Feb 18 *Section* **National Engineering Week Celebration Dinner & Awards Ceremony**
Reagan Presidential Library, Simi Valley
5:30 – 9:00 p.m. Tickets: \$65, reserved in advance only via RSVP
- Feb 24 *EMBS* **Entrepreneurship 101: The Essentials of Entrepreneurial Leadership**
Dr. Kathleen Allen, USC Marshall Center for Technology Commercialization
Ahmanson Science Center, Cal Lutheran University, Thousand Oaks, CA
6:00 reception and dinner, 7:00 p.m. presentation



We look forward to seeing you at our Speaker Events this month, and at the National Engineering Week Celebration Dinner & Awards Ceremony at the Reagan Presidential Library. As an attendee at IEEE speaker events, you are welcome to attend; tickets are \$65, payable in advance (please contact me if you're interested). Chapter officers and volunteers are particularly encouraged to attend.

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

Our Region and our neighbor sections also have events this month. IEEE-USA is focusing on legislation to improve STEM ("Science, Technology, Engineering, Mathematics") education in another event, the 2010 Career Fly-In, on February 8th and 9th. The Region Operating Committee meeting will take place at the end of the month, in San Francisco.

Officers of our Section are helping to organize the first annual AMA-IEEE Conference on Personalized Medicine, which will take place in Washington, D.C. at the end of March. A conference flyer is included for your reference.

We look forward to seeing you at our events this year!

Steve Johnson, 2010 Section Chair

Buenaventura Section

Date and Time: Tuesday, February 9, 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

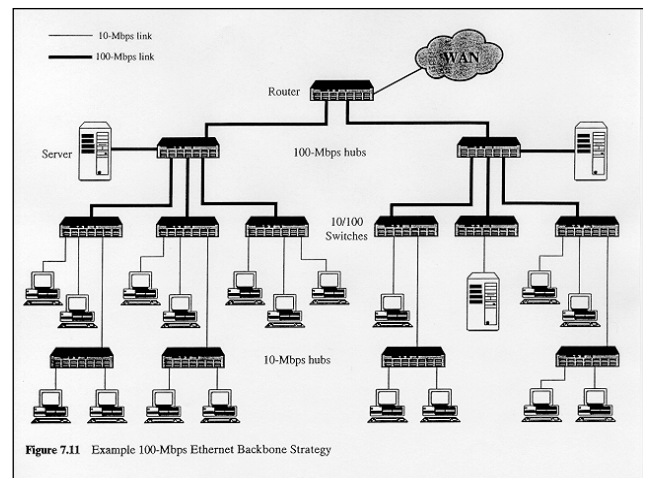
Agenda: 6:30 p.m. Reception, Pizza, & Networking
7:00 p.m. Meeting & Presentation

RSVP Requested only if you plan to attend: Doug Askegard, dougaskegard@ieee.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.

10 Things About 10 Gigabit Ethernet Speaker: David Newman

When product tester David Newman recently compared 10-gigabit data center switches from six leading vendors, he found that "switching" and "data center switching" are two very different things.



In this talk, Newman will highlight some of these differences, including new IEEE mechanisms to converge storage and data networks; new features to support not only virtual servers but also virtual network devices; and new redundancy protocols to boost uptime. Of course, high performance remains a key requirement. Test results reveal some surprises when it comes to moving both unicast and multicast traffic.

Bio: Network Test founder David Newman has more than 20 years' experience with network design and performance benchmarking. He is a frequent speaker at industry conferences and an active participant in the IETF (Internet Engineering Task Force). Newman has conducted numerous tests of network infrastructure and security devices for equipment makers, large enterprises and trade publications such as Network World and Light Reading. Newman is the author of RFCs 2647 and 3511, the IETF specifications for firewall performance testing, as well as RFC 4814 on the contents of test traffic. Prior to founding Network Test, Newman served for nearly 10 years as director of lab testing for Data Communications magazine. Newman is a graduate of The Johns Hopkins University and New York University.

Heterogeneous Sensor Networks: A Bio-Inspired Overlay Architecture

Jerry Burman, Sr. Research Scientist,
Teledyne Scientific Company



The Army currently employs heterogeneous unattended ground sensors (UGSs) using a sparse deployment to maximize coverage, minimize pilferage and to monitor terrain bottlenecks. A team consisting of Teledyne Scientific Company, the University of California at Santa Barbara and the Army Research Laboratory (ARL) is developing technologies in support of automated data exfiltration from heterogeneous battlefield sensor networks as part of a US Army contract with the Institute for Collaborative Biotechnologies (ICB).

The ICB program is developing a new system consisting of novel bio-inspired software algorithms for autonomous operations that will leverage proven research to monitor sensor networks from extended ranges, that will collect data in a timely fashion, that will collaboratively control the motion of a sparse network of collectors (e.g. unmanned aerial vehicles) using bio-inspired sampling, that will accurately detect and localize field events and will fuse and classify sensed data. A new bio-inspired event discovery technique will enable fusion of sensor observations at low signal-to-noise ratio without requiring a prior model for the event signature; this is a first step towards sensor networks that are capable of learning.

Jerry Burman works as a senior research scientist at Teledyne Scientific Company in Thousand Oaks, CA in the Information Science Division. He is the program manager and contributing scientist for a team of researchers in support of the development of advanced bio-inspired systems and sensor networks used to support US Army Research Labs through the Institute of Collaborative Biotechnologies at UCSB. Jerry is a graduate from UCLA with advanced degrees in Mathematics, System Science Engineering and attended a PhD program at Stanford University. He has over a dozen publications and six patents in image and information processing.

Date	Wednesday, February 10, 2010
Location	Richter Lecture Hall, Ahmanson Science Center, California Lutheran University 60 West Olsen Road, Thousand Oaks, CA 91360
Parking	Free parking in lot at corner of Olsen and Montclef
Time	6:30 p.m. Reception, Pizza, & Networking, 7:00 p.m. Meeting & Presentation
Contact	Karl Geiger, kgeiger@computer.org , 805-876-4271, or Craig Reinhart, reinhart@callutheran.edu , (805) 493-3320



You are invited

Date/Time: February 17th at Ciao Wireless
6:30 P.M. Pizza and networking
7:00 P.M. Presentation
Speaker: Dr. Daniel Gonzalez,
CPI Malibu Div.

Non-Lethal Weapon Development – “Active Denial Technology” Based on Directed High Power RF Energy



Active Denial Technology

To support governmental and the scientific goals of developing non-lethal weapon technologies, Dr Gonzalez will speak about Active Denial Technology (ADT). This non-lethal weapon transmits very high power W-Band Radio Frequency (RF) energy at a specific person or personnel causing a pain sensation when illuminated. Upon removal of the incident beam the pain immediately dissipates with no physical after effects. This weapon has significant range, operates at the speed of light, and has been shown effective in numerous scenarios of asset protection and crowd control. This weapon is the first step toward the development of the Star Trek Phaser “set on stun”.

The design of the weapon is predicated upon achieving the necessary microwave power densities on target to stimulate the nerves just below the skin level. At long ranges this requires very high transmit powers in conjunction with a directive antenna having a very narrow beam width. The high power is accomplished with W-Band gyrotrons developed for nuclear fusion programs. The narrow beam widths are accomplished with antennas approximately 1000 wavelengths in extent. Antenna efficiency is the dominant design feature so surface accuracies (epsilon) better than $\lambda/40$ are necessary. This results in a diameter to surface accuracy ratio of approximately 40,000:1 which was unheard of in a fielded, tactical, ruggedized system. To achieve these performance levels, CPI-Malibu implemented a flat reflector technology (FLAPS™) that is part of the currently fielded systems.

This talk will present some of the original theory behind the human effects of the active denial systems as well as the system designs considerations of the fielded systems. The theory of operation of the FLAPS™ reflector will be covered as well as the high power feeding techniques. The talk will culminate in a short video showing the ADT system in operation.



Engineers Week / February 14-20, 2010

2010 Engineers Week Committee

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ASHRAE, ASME, ASPE, ASQ,
ITEA, NACE SEC, SAME, SHPE,
SME, SOLE, SPE

**National Engineers Week Dinner
Ventura and Santa Barbara Counties**

Thursday, February 18, 2010

5:30 –9:00 PM

The Ronald Reagan Presidential Library

Alan C. Cummings

Caltech, Senior Scientist

Member of the Professional Staff

*“The Voyager Mission to the Outer
Planets and Interstellar Space”*



Evening Program Also Includes:

**The Ronald Reagan Presidential Library Tour
Dinner**

**Employee and Project of the Year Awards
Scholarship Awards to Local Engineering Students
Teacher Recognition Award**

How to contribute and show your support:

Reserve a Table Now for \$650 (seats 10)

Contribute to the Scholarship Fund

Place an Advertisement in the Banquet Program

Look for More Details on our Website:

<http://www.newc-vsrb.org>



Entrepreneurship 101: The Essentials of Entrepreneurial Leadership

Wednesday, February 24 2010 - 7 PM CLU - Ahmanson Science Building

Dr. Kathleen Allen

Director of the USC Marshall Center for Technology Commercialization

Entrepreneurship is much more than merely starting a new business. One of the most popular topics in business today is entrepreneurial leadership. In a time where rapid change is the norm, where innovation is a process that every business must undertake to grow, and where uncertainty is an everyday reality, the ability to think and act like an entrepreneur gives you a competitive advantage that more traditional leadership styles don't afford you. Using real-life examples, Dr. Allen will focus on what it takes to become an effective entrepreneurial leader and how to turn innovative ideas into successful companies.

Dr. Allen is the author of more than 15 books in the field of entrepreneurship and technology commercialization. As a professor of entrepreneurship and the Director of the University of Southern California Marshall Center for Technology Commercialization, which she co-founded, Allen has worked with scientists and engineers to help them identify markets and applications for their technologies and to prepare them to seek funding. Her personal entrepreneurial endeavors include four successful companies including two in the real estate industry and two technology ventures. She is co-founder and CEO of N2TEC Institute, a non-profit organization focused on technology entrepreneurship and bringing the wealth creation process to rural America, and she serves as a consultant to the aerospace industry on commercial markets for aerospace technologies. She is also director of a NYSE company and serves on the boards of several private companies. Allen holds a Ph.D. with a focus in entrepreneurship from USC, an MBA, and an MA in Romance languages. She also has a degree in music.

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.
Visitor Parking is no longer permitted before 7 p.m. on Memorial Pkwy and adjacent street without a pass, downloadable from the EMBS web site.

Contact: Harry Croner, croner@earthlink.net

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





IEEE

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.



January 5, 2010

IEEE Members:

IEEE has an unique opportunity to change the way science, engineering and technology are taught in the United States - if we act quickly.

A bill will soon be introduced into Congress that would help states add engineering to their basic science curriculums at the K-12 level. If passed, the bill would be a significant reform to our STEM education system. The bill will introduce all students to engineering and technology much earlier in their academic careers than we do currently. It will also encourage students to continue their science educations through high-school, a time when many American students abandon the hard sciences.

While the bill has support in Congress, it needs more. We need to explain to our elected officials exactly what the bill is and what it does. Most importantly, we need to convince Congress that this issue is important enough for them to focus on it.

To do this, IEEE-USA is inviting all IEEE members to come to Washington on February 8 and 9 to discuss the bill with your elected leaders.

Full details are here: <http://www.ieeeusa.org/policy/careerflyin/default.asp>

If you are interested in education reform, concerned about how America is educating our future engineers and technologists, or worried about the declining number of American students who are majoring in STEM fields, this is your opportunity to make a difference. Please join IEEE-USA on February 8 and 9 to explain this problem, and this solution, with Congress.

Register today!

Russell T. Harrison
Senior Legislative Representative - Grassroots Affairs
IEEE-USA
(202) 530-8326

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IEEE-USA
2001 L Street, NW
Washington, DC 20036
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IEEE - Fostering technological Innovation and Excellence for the Benefit of Humanity.

First AMA-IEEE Medical Technology Conference on Individualized Healthcare

21-23 March 2010

Renaissance Mayflower Hotel, Washington, DC



The American Medical Association (AMA) and the IEEE Engineering in Medicine and Biology (EMB) Society invite you to participate in the First AMA-IEEE Conference on Medical Technology devoted to Individualized Healthcare. Individualized Healthcare is a broad term that encompasses what is known as personalized medicine based on genomically-determined patient profiles and technologies to deliver individualized treatment plans. Individualizing medical care benefits patients and engages healthcare providers, challenges engineers and demands that innovators develop low-cost and effective technologies. We invite participation by healthcare providers, engineers and innovators, industrial leaders, government agencies and policy makers. The conference will be inaugurated by a keynote lecture at the evening reception on March 21. The following two days will feature plenary and poster presentations focusing on grand challenges and the innovative technological solutions necessary to realize the practical application of Individualized Healthcare for improving the quality of patient care.

Important Dates

November 6, 2009
Call for Abstracts

February 12, 2010
Abstract Submission

February 19, 2010
Notification of Acceptance

Topic Areas

**Personalized Medicine
in the Delivery of Care**

Connected Health

**Electronic Medical Records
and Personal Health Records**

Point-of-Care Technology

AMA and IEEE have arranged for a special group rate of \$239.00 single or double occupancy, excluding taxes (14.5%), for participating attendees at the Renaissance Mayflower Hotel. Attendees can call the Renaissance Mayflower reservations direct (1-800-468-3571 or 1-202-776-9251) and request the AMA-IEEE Medical Technology Conference block. **Online reservations can be made directly through this [link](#).** Rooms are limited at this rate and the deadline for making reservations is 7 March 2010.



SFV-CCC Software Seminar

Announcing Request for Information & Participation

IEEE-XXX Software Seminar Event Chairs: Leonard J. Reder & Dr. Narisa Chu

Submission Deadline: March 15, 2010

IEEE-SFV CCC Software Seminar Event: September 18, 2010 or TBD

(Note: this date is subject to change depending on results of this solicitation)

The IEEE San Fernando Valley Section Computer and Communications Chapter (IEEECCC) in conjunction with many local IEEE Sections in Southern California and the IEEE SFV Professional Activities Committees for Engineers (PACE) are planning one-day software seminar events to be held once a year in September. The first such event was held at the Jet Propulsion Laboratory on June 13, 2009 and show-cased JPL's flight/instrument software research work and the facility. The IEEE-CCC is spear-heading similar events for 2010, 2011 and 2012, and is seeking input and ideas for contributions from interested parties.

The motivation for these seminars is envisioned as follows:

1. To present and explore new and exciting software practices and technologies
2. To bridge the gap between commercial, government, aerospace and academia use of software techniques and tools to gain productivity, lower development costs and enhance capability.

Common software challenges exist in the commercial and aerospace/military software engineering domains. The IEEE-CCC is interested in organizations willing to share knowledge of state-of-the-art software engineering topics as a means to infuse new software practices into local industries. We are seeking, with our software seminar event, to present innovative ideas that, via repurposing of processes, techniques, and implementations from one industry area to another can make software development more productive, cost effective and efficient for a wide variety of industries. The intent of the event is to present both tutorial and implementation talks that will have a broad appeal to most of the Southern California IEEE membership. Demonstrations to support the program talks are encouraged. The most important goal for these events is to share software techniques and technology information in a technically correct and responsible way that will benefit the local IEEE membership and their employers.

Our focus is local, however, the software subject matter we will endorse will be topnotch practice and technology delivered from industry, academia and research organizations. We are interested in hearing from a wide variety of organizations located at various Southern California venues. These events will carry the name "IEEE-XXX Software Seminar" where the XXX will be replaced by the organization name (or names) as appropriate. For example, the first Seminar is named IEEE-JPL Software Seminar.

SFV-CCC Software Seminar RFI (Continued)

We are seeking information from companies or organizations interested in presenting a program and possibly hosting the event at their facility. We would like to hear from small, medium or large technology companies or research organizations about ideas for presenting your work at these events. This event is a great way to gain visibility with tens of thousands of IEEE professional members in Southern California and it can attract potential clients or new employees to your operation. The academic research community will find this to be an opportunity to share your results and achievements with local IEEE membership from industry and academia. Local university research groups interested in presenting informative technology briefings are encouraged to submit and perhaps collaborate with private industry.

Areas of Interest

The seminar topics of interest are diverse and intended to attract academic and industry practitioners as well as government experts. Half day and whole day session tracts are solicited in the following topic areas, but are not limited to those listed below:

1. Open source software projects (share your applications or usage)
2. Data management and workflow practices and technologies
3. Science software applications and analysis technologies
4. Software modeling and abstraction
5. Parallel Distributed Programming
6. State of the Art Digital Signal Processing and Software Defined Radio
7. State of the Art Digital Signal Processing applied to Image Analysis
(Military, Biomedical and Commercial Applications)
8. Simulation and Virtual Worlds
9. The Semantic Web and Web 2.0 Technologies
10. Cloud Computing
11. Virtualization
12. Embedded software issues, solutions and techniques
13. Reliable software formal methods (verification and testing)
14. Computer Graphics Software for Animation, Games, Special Effects and Military Scientific Simulation
15. Security, Privacy and Digital Rights Management
16. Digital Forensics and Cybercrime
17. Media compression and workflow solutions
18. Internet wired and wireless protocols
19. Software architectures and frameworks
20. Formal methods applied to test generation and improved software reliability
21. Software modeling and analysis utilizing UML
22. Technological innovations



SFV-CCC Software Seminar RFI (Continued)

Interested parties are asked to submit a short abstract describing their topic area and a description of the organization. Please indicate if your organization is interested in presenting a whole day or half day event. Are you willing to present with other similar organizations? Do you have a facility where this event can be held? Will there be any kind of tour of the facility or demonstration you are interested to conduct?

Please email submission as plain text, Microsoft Word or PDF document file to Leonard J. Reder (reder@ieee.org) by 15 March 2010. Please provide name of organization, a contact to represent the organization with their email and phone number. If you are offering a facility, please provide the full address. The subject line of your message should read "IEEE-SW-Seminar-Submit". Expect a confirmation reply within 7 business days. The form on page 4 of this solicitation is provided for ease of submission.

You are all welcome to work with our Program Review Committee that is in place to facilitate technical selection and prioritization of submitted materials. Our local sections will provide logistical support for this event. The event will be advertised a few months in advance via IEEE local email lists, the SFV IEEE local events web page, and posters. The SFV Section will help with developing a printed program, making a DVD of event materials, arranging and providing catering; and if as needed, it can also provide some venues to use for the event. Interested organizations that submit will be advised of our plans no later than May 1, 2010 for the 2010 IEEE-XXX Software Seminar scheduled for September 2010. We treasure the potential opportunity to work together and welcome your responses.

Questions concerning this request or participation on our Program Review Committee, should be sent to Leonard J. Reder (reder@ieee.org), Narisa Chu (narisa.chu@ieee.org), and Irena Kageorgis (irenakageorgis@ieee.org).



IEEE-CCC Software Symposium

Call for Sponsorship for the Seminar Event

IEEE-XXX Software Seminar Event Chairs: Leonard J. Reder & Dr. Narisa Chu

Submission Deadline: March 15, 2010 Event Date (tentative): Sept 18, 2010

(Note: this date is subject to change depending on results of this solicitation)

Please use the submission form below to sponsor IEEE-XXX 2010 Software Seminar. Deadline: March 15, 2010.

E-mail the submission form to Leonard J. Reder (reder@ieee.org) with subject line: "IEEE-SW-Seminar-Submit". Cut and paste into a blank document and complete.

Please make sure to include the following information at a minimum as outlined in the attachment form:

1. Company information

- a. Company or Organization Name: _____
- b. Contact Name: _____
- c. Contact Telephone: _____
- d. Contact Email: _____
- e. Brief Description of Company or Organization: _____

2. Presentation information

- a. Topic(s) for Presentation: _____
- b. Abstract (please attach ½ to 1 full page)

3. Venue

- a. Can your location be used to host an event (yes, no, maybe): _____
- b. Location Street, City and Zip Code Address: _____
- c. Will there be a facility tour given, simple description: _____
- d. Any Joint Sponsorship – other Company Name(s): _____

4. Any security requirements (e.g. U.S. Citizenship, etc., list them): _____

5. Sponsorship Status Tracking (Program Review Committee Use Only)

Sponsor's Signature: _____

Date: _____

CCC Chair Concurrence: _____

Date: _____

Review Committee Approval: _____

Date: _____

Notification to Selected Sponsor: _____

Date: _____

Buenaventura Section IEEE Officers

We welcome your involvement – We have several positions open!

Section Office –2010

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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

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\$62.50 for ¼ page

\$20 for business card

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IEEE Microwave Theory and
Techniques Society



Vitesse- Making Next-
Generation Networks a
Reality