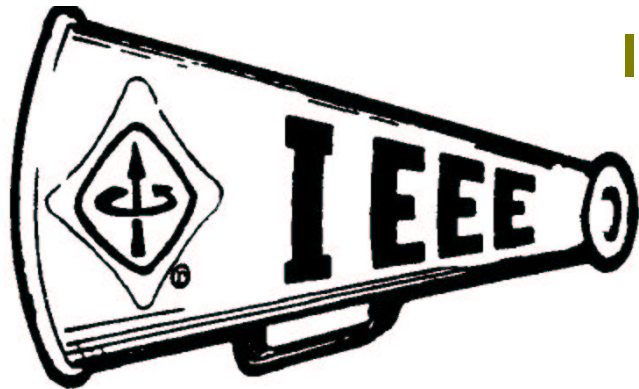


The Valley Megaphone



Newsletter of the
**IEEE – Institute of Electrical and
Electronics Engineers
Phoenix Section**
February 2003, Volume XVII, Number 2

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This Issue of Valley Megaphone Features:

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2003 Phoenix Section Banquet

The Section Awards Banquet took place on Saturday, Feb 1st 2003 at the Phoenix Airport Hilton. The program included: 6:00pm-7:00pm social hour followed by dinner, keynote presentation and award ceremony from 7:00pm-9:00pm. The IEEE Phoenix Section executive committee thanks all members for their cooperation and support of the section. Photographs from the banquet will be available for viewing on the section web page in a week and a detailed report is forthcoming

Executive Committee contd..

Awards

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The Valley Megaphone is the newsletter of the Phoenix Section of the Institute of Electrical and Electronics Engineers. Published Monthly, September through June. The publication reaches about 4000 members. Submit articles, advertisements, and announcements to Shamala Chickamenahalli at the above email address or by Fax to 480-554-7615. Deadline for announcements and advertisements is the third Friday of the month prior to publication.

Advertising Rates: Full page:\$200, 3/4page: \$125, 1/2 page: \$75, 1/3 page:\$50,1/4 page:\$25. Change of address/email? Call toll free 1-800-678-IEEE. Please allow 6-8 weeks. Section Web Page is: <http://www.ieee.org/phoenix>



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IEEE ANNOUNCEMENTS

Chapters & Branches

Contd.. from page 1

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PACN Meeting Announcement

The next meeting of the IEEE Phoenix Area Consultants Network will be held on February 13 at Monti's La Casa Vieja at the southwest corner of Mill Ave and Rio Salado Parkway in Tempe. Networking and the social hour begin at 6:30 with dinner starting about 7 PM. Ed Mischen, one of our members and a registered patent agent, will present the program. His talk is titled "Introduction to Trade Secrets and Copyrights". Ed has been in the semiconductor business for a long time in many capacities. Intellectual property is only one of his areas of expertise, but he really knows his stuff. He will continue this theme in April when he will talk about trademarks and patents. There is no charge for the program, and dinner is only \$10. Please let us know by sending an email to peverett@everettinfrared.com if you are planning to come so that we will make sure that Monti's sets aside a large enough room for us.

Power Engineering Society February and March Meetings

Date: February 13, 2003

Time: Registration 11:30, Lunch 12:00 Noon, Program 12:30 PM

Place: Wyndham Phoenix Airport, 427 N. 44th St., Phoenix.

Cost: \$ 12.00

Speaker: John Joyce, Siemens High Voltage Systems Group

Topic: Flexible AC Transmission Lines (FACTS) Application

Reservations Required: Please email Raja Ayyanar [rayyanar@asu.edu] or call Angela at 480-965-2896 or Raja Ayyanar at 480-727-7307.

March 13th Meeting:

Time: Registration: 11:30, Lunch 12:00 Noon, Program 12:30 PM

Place: Wyndham Phoenix Airport, 427 N 44th Street, Phoenix

Cost: \$12.00

Speaker: Paul Harrington, from the Office of License application and Strategy at the Yucca Mountain Project, DOE

Topic: The US Congress approved Yucca Mountain, Nevada as the first long-term geologic repository for spent nuclear fuel and high-level radioactive waste on July 8, 2002. Current work is transitioning from the site characterization phase to the preparation of the license application. Mr. Harrington will discuss the remaining process that needs to be accomplished before actual storage of nuclear waste products will begin coming to the repository.

For reservations please contact Raja Ayyanar or Angela at the above contact numbers before Noon, Monday March 10 2003.

Computer Society Meetings

The Computer Society is announcing speakers for their spring meetings. Please copy the attached fliers and post them at work, so more people can come to their meetings. More information will be posted on the [Phoenix IEEE Computer Society](#) web site.

On Thursday February 27, Dr. Robert N. Smith will discuss Network Security: Firewalls, Intrusion Detection, Encryption, and Common Criteria Evaluation. After a virus practical shut down the entire internet this weekend, it is certain everyone wants to learn more about how networks are secured and how to evaluate your network's security.

On Tuesday March 25, Randy Brown will discuss Communication Trends and Technologies. The core of the telephone network is constantly evolving. Network bandwidth has increased exponentially and cost has dropped likewise. But, the "last mile" between your home or business and the telephone company's central office, has barely changed in a hundred years. It is the bottleneck that limits how much of the network's capacity can be delivered to you. Well, telephone companies are beginning to change out the "last mile" and dramatically increasing the services they can provide. Randy is a leader in providing those changes and will us all about the new technologies.

On Tuesday April 22, Rajeev Arora will discuss Java and E-collaboration. Electronic communications today are based on a two way voice telephone system that was started in the late 1800s and one way television broadcasts that were started in the late 1940s. E-mail is the web analog of telephone and HTTP is the web analog for TV. Rajeev sees totally new paradigms. He will talk about "Instant Meeting" a collection of new technologies for sharing: whiteboards, documents, voice, and notes over vast distances.

We are sure you agree the Computer Society meetings will have an exciting set of speakers this spring. The meetings are grouped around the theme of communications: how communication networks are protected, delivering more bandwidth and services, and new paradigms for using our communication networks. Diane and Bob look forward to seeing you at every meeting. Their basic agenda is:

- 6:00 - 7:00 Networking / Light Meal (e.g., sandwiches or pizza).
- 7:00 - 7:20 Business Meeting
- 7:20 - 8:30 Main Speaker
- 8:30 - 8:50 Informal Discussion / Snack

Well, it seems like they just finished putting together the spring schedule. But, it is already time to begin planning the fall schedule and deciding if there is interest in programs over the summer. They need to hear from you. Are you willing to be a speaker? Do you know someone willing or who would be a great speaker? What topics do you want to hear about at their meetings? Are you interested in attending and/or working something other than monthly meetings (e.g., conferences, tutorials, social activities ...)? Please come up and say "Hello" at a meeting, or by e-mail: Bob Bianca (Bob.Bianca@computer.org) or Diane Smith (Diane@fuseki.com). They need to know how to make the Phoenix IEEE Computer Society better you're your personal, professional growth, and business needs. Finally, as with any other non-profit group, they are run by volunteers and always have opportunities for more volunteers.



IEEE ANNOUNCEMENTS

Networking the World™

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS EMC CHAPTER

Thursday, February 27 2003

Place: Garcia's Mexican Restaurant at Embassy Suites Hotel

Address: 4400 South Rural Road, Tempe, Arizona

Address: Just South of U.S. 60 on West side of Rural Rd.

Time: 5:30PM Social, 6PM Dinner (order off menu), 7PM Meeting and Presentation

Title: Lightning Electric and Magnetic Fields in Buildings.... and How to Keep Them Out

Speaker: Dr. Mike Stringfellow, [PowerCET](#)

Abstract: Lightning striking the ground up to a few hundred meters from a facility creates strong electric and magnetic fields. These fields may penetrate the structure directly or may induce currents on the building itself that produce fields inside it. The fields inside the building induce currents on communication and data lines that may be large enough to cause damage or disruption to systems. The currents induced on the building also flow into the ground electrodes of the structure unequally, resulting in transient equalization currents in the ground grid.

Dr. Stringfellow will present his latest measurements of lightning electric and magnetic fields and ground grid currents inside buildings of different construction, including a shielded computer room. Possible shielding techniques to minimize these fields or their effects will also be discussed.

About the speaker: Michael F. Stringfellow, Ph.D., P.E. is Chief Scientist for PowerCET Corporation. Prior to joining PowerCET he held the positions of Chief Scientist and Director of Research for EFI Corporation. Other experiences include 9 years with the Electric Supply Commission (Eskom) in South Africa, and work with Kearney National and Atlantic Scientific Corporation. His research has focused on lightning surges and their impact on commercial and industrial facilities, and utility transmission and distribution systems. Dr. Stringfellow has published numerous articles and research papers during his distinguished career. He is a member of the IEEE and is an active member on several committees. He earned a B.S. Honors Degree in Physics from the University of London and his Ph.D. in Atmospheric Electricity from University of Durham.

RESERVATIONS: Please call Daryl or Mary at Kimmel Gerke Associates in Mesa AZ at 480-755-0080. (If no answer, please leave a voice mail.) You may also register by email at dgerke@emiguru.com. There is no charge for meetings, but you pay for your own meal and drinks.