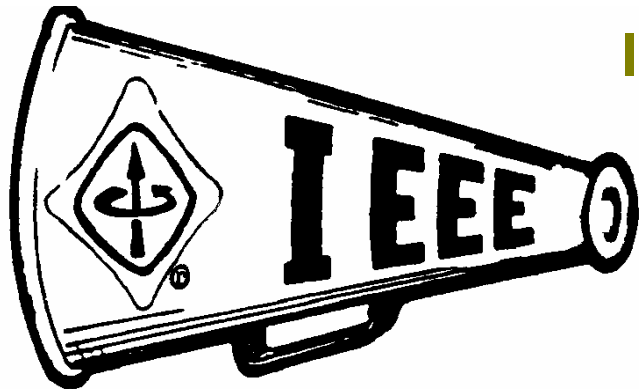


The Valley Megaphone



Newsletter of the
**IEEE – Institute of Electrical and
Electronics Engineers, Inc.
Phoenix Section**
July 2004, Volume XVIII, Number 7

Executive Committee

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This Issue of Valley Megaphone Features: Contacts and Links

Executive Committee (page 1)

Chapters and Branches (pages 1 and 2)

Student Branches (page 2)

*The contacts are being updated this month: new
conference chair and student chapter chairs and
advisors.*

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- 1. IEEE Senior Member and Fellow Grades: page 2**
- 2. IEEE Phoenix Section Gold Chapter: page 2**
- 3. Microelectronics Packaging Program at ASU:
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Semiconductors: page 3**
- 5. PACN July Meeting: page 4**
- 6. IEEE Phoenix Section Scholarship Application:
page 4 to page 8**

**IEEE Phoenix Section Executive Committee meeting
minutes can be found at: <http://www.ieee.org/phoenix>**

Executive Committee contd..

Awards

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vpatluri@ieee.org

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m.andrews@ieee.org

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cdas@ieee.org

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Comm & Signal Processing

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cihan@asu.edu

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Bob.Bianca@Computer.org

Consultants Network (PACN)

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CPMT Society

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Eric.c.palmer@intel.com

EMC Society

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Power Engineering Society

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The Valley Megaphone is the newsletter of the Phoenix Section of the Institute of Electrical and Electronics Engineers. It is published monthly, usually September through June. The publication reaches about 4000 members. Submit articles, advertisements, and announcements to Dongming He at the above email address. 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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Contd.. from page 1

Waves & Devices Society

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GOLD

Vasu Atluri, 480-554-0360
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Student Branches

ASU Main, Engineering

Chair: Rouzbeh Brumand
Rouzbeh.Brumand@asu.edu
Advisor: Cihan Tepedelenioglu, (480) 965-6623
Cihan@asu.edu

ASU Main, Computer Society

Chair: Bob NcCornaghy
afterdrk@asu.edu
Advisor: Joseph Urban, 480-965-3374,
joseph.urban@asu.edu

ASU East, Technology

Chair: Curtis Ritter
emceei@aol.com
Advisor: Dr. Raji Sundararajan, 480-727-1507
Raji@asu.edu

DeVry, Phoenix

Chair: Val Shulfer
VShulfer@cox.net
Advisor: Dion Benes
Phone: (602) 870-9222

DeVry, Computer Society

Chair: Mike Lewis
Mike_Lewis@ieee.org
Advisors: Terri Barnes, 602-870-9222
tbarnes@devry-phx.edu, Diane Smith
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NAU, Engineering

Chair: Cari Fischer
cdf5@dana.ucc.nau.edu
Advisor: Peter Blakey, 928-523-3493
Peter.Blakey@nau.edu

NAU, Computer Society

Chair: Jamie Warnke
jmw46@dana.ucc.nau.edu
Advisor: Phil Mlsna, 928-523-2112
Phillip.Mlsna@nau.edu

Embry-Riddle, Prescott

Advisor: Chuck Cone
conec@erau.edu

Embry-Riddle Computer Society

Advisor: Susan Gerhart, (928) 777-3882
gerharts@erau.edu

IEEE Senior Member and Fellow Grades

All IEEE Phoenix Section Members interested in getting nominated to Senior Member or Fellow Grade, please contact Vasu Atluri by telephone at (480)554-0360 or by email at vpatluri@ieee.org. Please refer to www.ieee.org for more information related to senior member and fellow grades.

Graduate of Last Decade (GOLD) Phoenix Chapter

IEEE Graduate of Last Decade (GOLD) Phoenix Chapter is seeking volunteers to serve as officers. To serve as an officer, you have to be a member of IEEE and should have graduated within last decade. If you are interested, please contact Vasu Atluri at vpatluri@ieee.org or (480) 554-0360.

Microelectronics Packaging Program at Arizona State University

Ira A. Fulton School of Engineering, Arizona State University, Center for Professional Development is offering a Master of Engineering as well as an Introductory Certification in Microelectronics Packaging starting in Fall Semester, 2004. Through an innovative collaboration between Intel Corporation and ASU Fulton School of Engineering, students learn packaging principles and analysis tools through direct interaction with experts from Intel Corporation and renowned ASU faculty. For additional Information, please refer to the following web links:

Online Master of Engineering Area of Study in Microelectronics Packaging

http://asuengineeringonline.com/online/?page=online_mp

Online Introductory Certification in Microelectronics Packaging

http://asuengineeringonline.com/certmgt/?page=cert_mpc

Schedule for Fall Semester, 2004, Online Graduate Courses:

<http://asuengineeringonline.com/online/>

Arizona State University is currently accepting registrations and applications for admission.



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27th International Conference on the Physics of Semiconductors July 26-30, 2004 • Flagstaff, Arizona, USA

TOPICAL AREAS

- Growth and characterization
- Electronic structure and lattice dynamics
- Transport phenomena
- Defects and impurities
- Surfaces, interfaces and low-dimensional systems

THRUST AREAS

- Quantum phenomena
- Spintronics and quantum computing
- Wide-gap semiconductors
- Ultra-high frequency and terahertz devices
- Organic semiconductors
- Atomic-scale electronics

TUTORIAL SESSIONS (Sunday, July 25th, 10:00 am – 3:00 pm)

- Epitaxial Growth
Klaus Ploog, Derek Houghton, M. Asif Khan, and Gerhard Abstreiter
- Characterization of Semiconductors and Heterostructures
Harland Tompkins, Václav Holý, D. Cherns, and Michael Thewalt
- Semiconductor Device Physics and Quantum Computing
Alain C. Diebold, Sanjay Banerjee, Michael Shur, and B. E. Kane
- Conference registration not required to attend, but must register in advance (\$75, \$35 for students)
- Complete abstracts and biographical sketches of speakers available on the web site

TECHNICAL EXHIBITION

- Vendors exhibiting equipment, instrumentation, publications and services related to semiconductor physics and technology
- Additional booths are still available for exhibitors; see web site for details

Preregistration deadline: June 11, 2004
(Abstract submission is closed)

For the complete program, invited and plenary speakers, sponsorship opportunities, registration information, and the most up-to-date information visit

www.icps2004.org

Sponsored by IUPAP (International Union of Pure and Applied Physics)



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IEEE PACN JULY MEETING

Lane Garrett
The H₂ Economy

The next meeting of the IEEE Phoenix Area Consultants Network will be held on Thursday, July 8th. Again we will be at the Arthur and Louise Price Community Room at the Chandler Fashion Center. The Price Community Room is just off the food court on the mall's south side. It is a generous room in a quiet location and works quite well for our meetings. As usual this will be a dinner meeting, and each person can get what he or she wants at any of the Fashion Center's establishments, any of the regular restaurants or the food court. Networking and general socializing will start at 6:30 PM with dinner at 7-8. The program will start a bit after 8. Come at anytime, and everyone is welcome.

Lane Garrett, P.E., C.E.M., who will present this month's program, is president of ETA Engineering, Inc. and is one of the leaders in the renewable energy field. For many years ETA Engineering has been designing, manufacturing and distributing solar and wind powered energy systems around the world. Systems have now become cost effective locally, and the first photovoltaic/hydrogen home is going up in Scottsdale, using 9 kW of PV power. The industry is expanding very rapidly and may reach a 50% growth rate in some areas this year. Renewable energy, of course, has many environmental advantages but must be economically competitive to gain widespread use. This is the subject that Lane will address on Thursday evening. Bring your hard questions for him to answer.

Programs for the rest of the year include:

August - Christopher Sheen, *Analog Gate Arrays*;

September – John Snodgrass, *SBIR Basics*;

October – Ed Koch, *Manufacture in China and Market in the United States*;

November – Jack Stewart; *Direct Satellite Communication* or *Home Automation* (topic to be determined);

December – annual business meeting and roundtable discussion

PACN meeting are always on the second Thursday of the month.

IEEE Phoenix Section Scholarship Application

Please see page 5 to page 8 for IEEE Phoenix section scholarship application. Application deadline is October 15th, 2004. For official application form in word format that you need to fill in or further information, please contact:

Dr. Xuezhen (Susan) Wang
Xuezhen.Wang@motorola.com
(480) 650-8593



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IEEE PHOENIX SECTION SCHOLARSHIPS

Applications Due: October 15, 2004
Awardees Announced: December 2004

Institute of Electrical & Electronics Engineers

Entering Freshman Scholarship	IEEE Student Member Scholarship
<ul style="list-style-type: none"> • Four \$250 Scholarships per year • For incoming college freshmen who enroll electrical engineering related fields: approved majors are Electrical Engineering, Computer Systems Engr., Electr. Engr. Technology, Computer Engr. Technology, or Computer Science • Must attend a university in the Phoenix Section (<i>i.e.</i>, ASU, DeVry, Embry-Riddle, or NAU) during 2004-05 and join IEEE <p>Scholarship Application Requirements</p> <ul style="list-style-type: none"> • Application form (attached) with general information and qualifications including: <ul style="list-style-type: none"> ○ financial aid statement, and ○ one-page personal statement of attainments, interests and goals • Official transcripts of all high school work • SAT and/or ACT scores • Recommendation letters (optional, but helpful) 	<ul style="list-style-type: none"> • Two \$1,000 Scholarships per year • For full-time undergraduates who are members of IEEE: approved majors are Electrical Engineering, Computer Systems Engr., Electr. Engr. Technology, Computer Engr. Technology, or Computer Science • Must attend a university in the Phoenix Section during 2004-05 (<i>i.e.</i>, ASU, DeVry, Embry-Riddle, or NAU) <p>Scholarship Application Requirement</p> <ul style="list-style-type: none"> • Application form (attached) with general information and qualifications including: <ul style="list-style-type: none"> ○ financial aid statement, and ○ one-page personal statement of attainments, interests and goals • Official transcripts of all college work • Recommendation letters (optional, but helpful)

For Application Forms or Further Information Please Contact:

Dr. Xuezhen (Susan) Wang
Xuezhen.Wang@motorola.com
(480) 650-8593

Send Completed Application Materials to:

Dr. Xuezhen Wang
2900 S. Diablo Way
Motorola, Mail Drop TCG1
Tempe, AZ 85282



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IEEE PHOENIX SECTION SCHOLARSHIP FINANCIAL AID STATEMENT

Name _____

Marital Status: Married _____ Single _____

Can anyone claim you as a dependent? Yes _____ No _____

Number of dependents you are able to claim _____

Who sponsors your education? Yourself _____ Other _____ (please specify) _____

Projected College Costs and Financial Resources (for the 2004-05 School year)

Projected Expenses

Tuition and Fees:	\$ _____
Books and Supplies:	\$ _____
Transportation (Car/Bus/Insurance)	\$ _____
Room & Board (Dorm/Apt/Food/Utilities/Phone)	\$ _____
Personal (Clothes/Insurance/Recreation)	\$ _____
Total Expenses:	\$ _____

Projected Financial Resources

Education Loans	\$ _____
Government Grants	\$ _____
Federal Benefits (GI Bill/Social Security/etc)	\$ _____
Scholarships	\$ _____
Parent and/or Spouse Support	\$ _____
Employment (your job income)	\$ _____
Total Resources:	\$ _____

Signature

Date



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IEEE PHOENIX SECTION SCHOLARSHIP PERSONAL STATEMENT

Name _____

Please provide a one-page statement summarizing your interests, academic accomplishments, school & athletic activities, community service, education and career goals, and employment history (position, company, dates).