

ELECTRON

Institute Of Electrical & Electronics Engineers, Inc.

Volume 14, No. 3

THE IEEE CHARLOTTE SECTION NEWSLETTER

March 1997

IEEE COMPUTER SOCIETY MEETING NOTICE

PROGRAM: MMX TECHNOLOGY FOR MULTIMEDIA PCs

The volume and complexity of data processed by today's PC is increasing exponentially. The potential of the Internet, games, interactive video, 3D graphics, animation, audio and virtual reality motivated intel to develop mmx technology, or multimedia extensions, for the pentium microprocessors.

MMX technology delivers a 50 to 100% performance improvement for existing multimedia applications and will enable new applications such as MPEG2 full-motion-video software decoding. This presentation will demonstrate how this exciting new technology enhances multimedia performance.

DATE: Monday, March 17

TIME: 6:00 p.m. - Snack Meal (\$2.00, Reservations Required)
6:30 p.m. - Meeting and Presentation

PLACE: O. J. Miller Auditorium
Duke Power Electric Center
526 S. Church Street

PARKING: Park in the Duke Power employee lot directly behind the building. Push the button at the gate and advise the Security personnel that you are planning to attend the IEEE meeting.

Reservations are requested for the meal. No reservations are required for the meeting. Guests and spouses are cordially welcome. For reservations or additional information contact:

John Jacomino 595-4677

Tony Kombol 594-4870

Jon Tucker 594-2229

CHARLOTTE SECTION MEETINGS

Executive Committee Meeting
Wednesday, March 12

Computer Society Meeting
Monday, March 17

Executive Committee Meeting
Wednesday, April 16

UNCC Student Paper Contest
Thursday, April 24

Executive Committee Meeting
Wednesday, May 14

Communications Society Meeting
Tuesday, May 20

Executive Committee Meeting
Wednesday, June 11

Power Engineering Society
Annual Field Trip
Thursday, June 19

Executive Committee Meeting
Wednesday, August 13

Charlotte Section Annual Picnic
Thursday, August 21

Executive Committee Meeting
Wednesday, September 17

Computer Society Meeting
Monday, September 22

Executive Committee Meeting
Wednesday, October 15

Communications Society Meeting
Tuesday, October 21

Executive Committee Meeting
Wednesday, November 12

Charlotte Section Annual Banquet
Thursday, November 20

Executive Committee Meeting
Annual Planning Meeting
Wednesday, December 10

CATHY'S CHATS

Did you see that? Wow! I can't believe what these kids are doing! These are just some of the comments overheard at Discovery Place during *National Engineers Week*. Various contests and demonstrations brought engineers, their families, and students of all ages to Discovery Place that week. Thanks to the sponsoring engineering organizations and especially all of you who participated in this exciting event.

If you missed all the fun at Discovery Place in February, please plan to join us for our March meeting. Last year, the Computer Society taught us how to "surf the Internet." In keeping with their mission of latest technology presentations, the meeting on March 17 will focus on MMX Technology for Multimedia PCs. Practicing engineers as well as students should find this presentation enlightening.

Another event to remember this month is Southcon '97. Traditionally, this exhibition has been rotated between Florida and Atlanta. This year, the show is being held at the

Raleigh Civic Center on March 25-27 and will focus on computers, communications, and electronics. For more information, contact Carl Hussey, E-Mail Facilitator, at c.hussey@ieee.org. I hope to see many of you in Raleigh for this exciting show.

While thinking about traveling to Raleigh in March, consider making plans to attend Southeastcon in Blacksburg, Va. on April 11-13. There will be more details on this event in our April Electron.

Once again, any comments or suggestions you have on our meetings or the newsletter are welcome. We are still looking to fill a few key committee slots so give me a call if you are interested in getting more involved with the Section or any of the societies. See you soon!


Cathy Hope
Charlotte Section Chair

1996 SECTION AWARD



Each year the Charlotte Section recognizes one or more of its members in the areas of service, engineering, and education. In 1996, the Charlotte Section honored Steven N. Graham with the Outstanding Service Award. This award is generally given to an individual whose support to the Institute and the Charlotte Section is outstanding and visible to members of the local section.

Steve joined IEEE as a student member in 1984 and has been actively involved in the Charlotte Section and the Power Engineering Society since he began his career at Duke Power in 1987. His commitment to the Section started in 1988 when he agreed to serve as Arrangements Chairman. One of his most noteworthy contributions to the Section was when he led the registration committee for the 1993 Southeast Conference in Charlotte. He and this committee developed software for computerizing the registration process by developing the forms, arranging payment methods, and keeping track of all funds. While leading the registration effort, he provided input and support to other volunteers of the Southeast Conference Planning Committee.

During the planning stages of Southeastcon, Steve was

called upon to help improve the efficiency of the Charlotte Section. He volunteered to help convert the Section's existing financial records to the financial planning program developed by IEEE headquarters. In 1992, he was elected Treasurer of the Charlotte Section.

For the next three years, he served on the Executive Committee as Secretary, Vice-Chair, and Chair in 1995. Throughout the years, he has remained active and supports the Section and the Power Engineering Society.

In addition to providing support with the IEEE, Steve is active in other community activities such as serving as a judge in the Mecklenburg Science Fair competition. He is involved in his church where he has served as Youth Director, Chairman of the Stewardship Committee, and a member of the nominating committee.

DID YOU KNOW THAT ...

Coca-Cola was first served on March 3, 1886?

The laser was patented by Schawlow and Townes in 1960?

Albert Einstein's birthday was March 13, 1879?

Alexander Graham Bell received the patent for the telephone on March 7, 1876 and transmitted the first telephone message on March 10, 1876.

COMMUNICATION IS A KEY TO THE FUTURE!!!

IEEE is encouraging all members to get an IEEE e-mail alias. If you want an alias, please send an e-mail message to aliases@ieee.org that contains the following information:

1. your e-mail address
2. your LAST name
3. your FIRST name
4. your day-time phone number
5. your FAX number (if available)
6. your IEEE member number
7. your current major IEEE volunteer activity involvement (if applicable)

IEEE TO NETWORK THE WORLD WITH NEW SLOGAN

The Institute of Electrical and Electronics Engineers, Inc. (IEEE) is introducing a slogan to help provide a stronger identity for the Institute among its members and customers. "IEEE: Networking the WorldSM" will soon begin appearing on many communications from the Institute. The slogan was approved by the IEEE Board of Directors in December.

The new slogan underscores the ability of the Institute's members to share technical and professional information by virtue of their bond as colleagues in the world's largest technical professional society. This bond includes activities such as developing standards, taking advantage of opportunities for career enhancement, and building professional and personal relationships with others in their chosen field.

"Networking the World' captures the essence of the IEEE," said 1997 President Charles Alexander. "With more than 300,000 members in 150 countries, the Institute has become a vast global network of people, conferences and technical meetings, print and electronic publications, standards, and many other activities that enable members to work even more effectively in an increasingly borderless engineering community.

"Through this network," he continued, "engineers worldwide can easily exchange technical information, develop professional interests and expand skills to help ensure themselves a long and vital engineering career."

The IEEE Corporate Communications and Creative Services departments will

soon release guidelines on the proper use of the new slogan for presentations, publications, Internet pages, letterhead and other materials. The guidelines will be distributed to key entities and volunteers, as well as to staff. The use of "IEEE: Networking The World" will be encouraged wherever appropriate and as quickly as economically feasible within the corporate IEEE infrastructure. Plans call for its inclusion on the IEEE Web site, in IEEE Spectrum, The Institute, Staff Circuit and other publications, on corporate letterhead and envelopes as well as the postage indicia, among other places.

For additional information contact Terry Burns, IEEE Marketing, 908-562-5520 and Helen Horwitz, IEEE Corporate Communications, 908-562-6821.

IEEE-USA LAUNCHES NEW PROFESSIONAL MAGAZINE

IEEE-USA will begin publishing *TODAY'S ENGINEER*, a new, non-technical IEEE professional magazine for all engineering disciplines. The 48-page quarterly will provide engineers with information that advances their learning opportunities for career satisfaction and advancement, encourages a business perspective, promotes high standards of professionalism and ethical performance, prepares them for technical and general management, and raises the stature of the engineering profession in society. The first two issues will appear in August and November.

PRESIDENT ISSUES NATIONAL ENGINEERS WEEK PROCLAMATION

In honor of the nation's engineering work force, President Clinton offered the following words during National Engineers Week 1997, celebrated Feb. 16-22.

"In our rapidly changing world, we look to America's engineers for the creativity and innovation to meet the increasingly complex technological challenges that lie before us. With outstanding skill and vision, these dedicated professionals strive every day to improve the lives of all of our citizens. Thanks to their determination and ingenuity, they are truly making a world of difference in almost every aspect of human experience. From health care to the environment to the global economy, engineers have made invaluable contributions and promise us a future of even greater health and prosperity.

"During National Engineers Week, engineers across the nation are making a special effort to help millions of students discover practical applications of math, science, and technology through hands-on activities. I encourage all Americans to take advantage of this unique opportunity to learn about the engineering profession and to recognize the countless contributions our nation's engineers make to the quality of our lives."

NEW PENSIONS COALITION AIMS FOR PORTABILITY BY YEAR 2000

Vowing that "You CAN take it with you!," participants in the Dec. 12, 1996, IEEE-USA Pension Portability Forum in Washington established an organizational framework for a Pension Portability Coalition that will seek to achieve full portability of pension benefits by the turn of the century. The day-long gathering, organized by our Engineering Employment Benefits Committee, offered a broad spectrum of organizations interested in pensions issues an opportunity to hear current perspectives from pension-policy analysts, including Ellen Seidman, a special assistant to the President for economic policy; to discuss appropriate directions for needed reforms; and to develop a common vision for positive change.

IEEE-USA's Engineering Employment Benefits Committee Chair Mona K. Draper moderated the coalition-building process, which resulted in a common vision statement by forum participants. In addition to setting a four-year goal for the realiza-

tion of the coalition's objectives, the group defined pension portability as having as its key elements accelerated vesting, centralized vehicles, transferability of benefits, benefit parity for all employees regardless of tenure, preservation, and universal access.

During the first months of 1997, forum participants will be invited to enlist their organizations' support for the new coalition and meet again to develop specific goals and objectives for common action during the 105th Congress.

ADMINISTRATION MODIFIES STANCE ON INTELLECTUAL-PROPRIETARY TREATIES

Following strong criticism from IEEE-USA and other groups, the Clinton Administration has backed away from some controversial provisions in two new treaties pending in the World Intellectual Property Organization (WIPO). Proposed language — which would have bound the United States to intellectual-property laws not yet codified by U.S. legislation — was changed in one treaty and postponed for later consideration in another.

In a Nov. 25, 1996, letter to the White House Office of Science and Technology Policy, IEEE-USA asserted that "new intellectual-property domestic and/or international laws may be needed to keep up with the rapid changes in technology — but not at the expense of allowing international treaties to adversely dictate U.S. domestic policy in an industry where the United States is the world leader."

IEEE CHARLOTTE SECTION EXECUTIVE COMMITTEE

SECTION OFFICERS & DIRECTORS

Chair
Cathy Hope Duke Power 704/382-8560
Fax 704/382-6542
cxh3378@dukepower.com

Vice Chair
John Tannery Duke Power 704/382-9867
Fax 704/382-5418
j.tannery@ieee.org

Secretary
Kale Meade Duke Power 704/382-0331
kmm9195@dukepower.com

Treasurer
Natalie Little Sayles Duke Power 704/382-4895
nal2856@dukepower.com

Past Chair
Randy Groves Duke Power 704/382-9176
Fax 704/382-3105
rcgroves@dpcmail.dukepower.com

Directors
Becky Harrison Duke Power 704/382-0954
Fax 704/382-5601
bsh8650@dukepower.com

Carol Mullis Retired-Duke Power 704/537-0538
Trip Doggett Duke Engr. 704/382-6535
bdoggett@dpcmail.dukepower.com

Roscoe White

SECTION STANDING COMMITTEES

Archives
Sokha Chhak Duke Power 704/329-2808
snc8383 @ dukepower.com

Arrangements
Tom Teeter 704/365-4861

Auditor
(open)

Awards & Nominating
Trip Doggett Duke Engr. 704/382-6535
hbdoggett@dpcmail.dukepower.com

Bill Whitlock Duke Power 704/875-4869
Fax 704/875-5664
cww8383@dukepower.com

Steve Graham Duke Power 704/382-3731
Fax 704/382-3993
s.graham@ieee.org

Randy Groves Duke Power 704/382-9176
rcgroves@dpcmail.dukepower.com

Continuing Education
Teresa Dahlberg 704/547-4389
Fax 704/547-2352
tdahlber@uncc.edu

Membership/Attendance
Tracy Blackmon Duke Power 704/382-5692
Fax 704/382-3993
trb2429@dukepower.com

Membership Database
Paul Colaianni Duke Power 704/382-5632
p.colaianni@ieee.org

Newsletter Editor

Paul Colaianni Duke Power 704/382-5632
Fax 704/382-0368
p.colaianni@ieee.org

PACE

Carol Mullis Retired-Duke Power 704/537-0538

Programs

Cathy Hope Duke Power 704/382-8560
Fax 704/382-6542
cxh3378@dukepower.com

Publicity

(open)

Student Activities

Chris Clippinger 704/382-9333
Fax 704/382-9843
ckc8383@dukepower.com

HICKORY SUBSECTION

Chair
R. (Kris) Ranjan General Electric 704/462-3118
Fax 704/462-3391
ranjanra@pdc03.sch.ge.com

Vice Chair

John Leach Hi-Tech Fuses, Inc. 704/322-2860
Fax 704/322-2376

Secretary

Ken Dunn Siecor Corp. 704/327-5682
Fax 704/327-5082
ken_dunn@siecor.com

Treasurer

Paul Waldon Retired-Gen. Elec. 704/324-8652

Past Chair

Albert Lee Retired-Gen. Elec. 704/256-2398

POWER ENGINEERING SOCIETY (PES)

Chair
Simon Shealy Duke Power 803/831-4119
scs0896@dukepower.com

Vice Chair

Chris Fallon Duke Power 704/382-9248
Fax 704/382-9248
cmf0315@dukepower.com

Secretary

Bill Quaintance Duke Power 704/382-4576
whq5520@dukepower.com

Treasurer

Chuck Richardson Duke Power 704/382-9249
lcr4941@dukepower.com

COMPUTER SOCIETY

Chair
Tony Kombol IBM Corp. 704/594-4870

Vice Chair

John Jacomino IBM Corp. 704/595-4677

Secretary

Jon Tucker IBM Corp. 704/594-2229
jont@vnet.ibm.com

Treasurer

Bill Wright Enteg Systems 704/588-7428

COMMUNICATIONS SOCIETY

Chair
Mark Ragusa VideoServer, Inc. 704/344
Fax 704/338
mragusa@videoserver.

UNC CHARLOTTE STUDENT BRANCH

Faculty Advisor
Dr. Yogendra Kakad 704/547-4146
kakad@uncc.edu

Chair

Brian L. Fesperman blfesper@uncc.edu

Vice Chair

David W. Vines dwvines@uncc.edu

Treasurer

James Keith Ballard jkballar@uncc.edu

Secretary

David M. Matusik dmmatusi@uncc.edu

Home Page

<http://www.coe.uncc.edu/~ieeesb>

YORK TECH STUDENT BRANCH

Faculty Advisor
Joe Avampato 803/327-8019
avampato@york.tec.sc.us

Chair

Jack D. Davis

Vice Chair

Clif Guffey

Secretary

Willie Brown

Treasurer

Cornelia Crawford

GASTON COLLEGE STUDENT BRANCH

Faculty Advisor
Myers Hambright 704/922-6302

Chair

Matthew Holland 704/825-3242

Vice Chair

Raymond Osborne 704/263-5708

Secretary

Michael Chad 704/584-

Treasurer

Bo Osborne 704/263-5708

CPCG STUDENT BRANCH

Faculty Advisor
Don Jessep 704/330-6922
donald_jessep @ cpcg.cc.nc.us

Chair

George Kent 704/289-2607
george_kent@juno.com

Vice Chair

Mike Markland

Secretary

Martin Nichols

Treasurer

Leah Campbell 704/335-7349

Funding for publication of the *ELECTRON* is provided by Duke Power.

ELECTRON

Institute Of Electrical & Electronics Engineers, Inc.

ADDRESS CHANGES — 1800-678-IEEE

Dial the IEEE Service Center (8 a.m.-4 p.m.) for address changes, IEEE publication orders, membership applications, standards seminars information, and other student and member services.

ELECTRON ARTICLES & COMMENTS

Send articles for publication and newsletter comments and corrections to me at Duke Power Co.-EC12R, P.O. Box 1006, Charlotte NC 28201-1006, p.colaianni@ieee.org or 704/382-5632/-0368 Fax. —R. Paul Colaianni, *ELECTRON* Editor

IEEE-UNITED STATES ACTIVITIES

Further information on IEEE-USA issue positions and publications are available from IEEE-USA, 1828 L Street NW Suite 1202, Washington DC 20036-5104, ieeeusa@ieee.org, or 202/785-0017/-0835 Fax. IEEE-USA Hotline recording 202/785-2180.

NONPROFIT ORG.
U. S. POSTAGE
PAID
CHARLOTTE, NC
PERMIT NO. 1361

TIME SENSITIVE
MATERIAL