



# IEEE Region 3 Newsletter

*Serving Over 30,000 Members in the Southeast*

Volume 12, Number 1

Winter 1997

## DIRECTOR'S MESSAGE

*Jim Beall*



Greetings for 1997. A prosperous New Year to all. Looks like another busy time this year.

This edition of the Region 3 Newsletter is a continuation of last year's sending of the newsletter to all the members in the region. You liked it so well we are doing it again.

Some of the Director goals for 1997 will be a continuation of the 1996 goals, to boost membership retention, continue employment assistance and greatly improve delivery of educational materials to our members. These are areas where you can help. Your Section Leaders can always use a hand in contacting members in arrears, and the unemployed member will always appreciate news of an employment opening. Education is going to be a big thing in a few years as more states require continuing education to renew P.E. registration.

I call the reports of the region's officers and committee chairs to your attention. They provide a good feel of what is happening in Region 3. These volunteers put a great amount of effort into the jobs they do for the Institute. If you have comments or suggestions con-

### Please look inside !!!

Special Pull Out Sections with Details

## Southcon '97

Electronics Show and Convention

March 25-27

*1st Time Ever In*

Raleigh, North Carolina

at the

Raleigh Convention Center

## IEEE Southeastcon '97

"Engineering the New Century"

Professional & Student Conferences and  
Region 3 Meetings

April 12-14

at

Virginia Tech and State University  
Blacksburg, VA

tact them. Their addresses and phone numbers are listed elsewhere in the newsletter.

Each year Region 3 sponsors two major conferences. Southcon, an Exposition and conference, being held in Raleigh, NC for the first time this year, on March 25-27 in the Raleigh Civic Center. The other is SoutheastCon our very successful Professional, Student and Annual region Meeting, being held this year in Blacksburg, VA at Virginia Tech, April 11-14. There are pull out sections on each conference in this newsletter.

The Southcon Exposition and Conference is an excellent chance to see and put your hands on the latest electronic hardware and components. I am informed that better than 250 booth have been contracted for the exposition. What is needed now is YOUR attendance. The vendors at this exposition as any other show depend on good viable leads from a steady stream of engineers and buyers through the show floor. I encourage you to attend. We need a good turn out from both Virginia and South Carolina and other surrounding states as well as North Carolina.

SoutheastCon is the region's Premier Technical Conference each year. It is held in various cities throughout the region in conjunction with a major University in the area. The conference proceedings are peer reviewed and published in a conference record available as part of the registration fee. At the same time and place students from the region are involved with a Hardware Contest, a Software Contest and the finals of a Technical Paper Contest. Oh yes, they have a good time too. So you all come and have a good time with us at Southeastcon in Blacksburg.

## DIRECTOR ELECT

*Dale Caston*

Here it is 1997 and soon it will be the next millennium, time does past faster the older one gets. As we look back on 1996, some highlights are remembered:

- Jim Beall started his first year as Director of Region 3.

- An ice storm in the northern part of the Region prevented many of the

EXCOM members (including myself) from attending the January meeting in Memphis.

- For the first time every Region 3 member received a special edition of the newsletter promoting SoutheastCon '96 and other Regional activities.

- While the attendance was down some, a successful SoutheastCon '96 was held in Tampa, sponsored by the Florida West Coast Section and Chaired by Jim Howard.

- The top event of the year was the Sections Congress in Denver. To my knowledge, no one lost his luggage at that airport. All IEEE Regions had excellent attendance at this informative and challenging meeting.

- The Atlanta EXCOM Meeting closed the year on a positive note. It was reported that the Electro-Technology Industry Database was expanded to include two additional regions.

- The revised Region 3 Awards Manual was placed on computer disk for the first time for ease of distribution.

- Numerous PACE and Student Activities happened during the year.

- The GOLD program was started to help retain young IEEE members.

There were many other events and committee projects that are too numerous to recount in this column. Thanks and appreciation are extended to all the good work accomplished by our Region 3 volunteers.

Looking forward to 1997, there are some encouraging signs:

- Continued technological advancements means engineers will be needed and in demand.

- Economy is forecast to remain stable with slow growth.

- Many Sections Congress recommendations will be implemented.

- A good SoutheastCon '97 is planned at Blacksburg, Virginia April 12-14th. It will be hosted by the Virginia Mountain Section and the Chair is Russell Churchill.

In closing, a quick word to our Section Officers, please have the end of year reports completed and mailed in a timely fashion, so that your sec-

tion will receive the 10% rebate bonus. And to all, have a great IEEE year 1997.

## TREASURER'S REPORT

*Reed Thompson*

Region 3 had another excellent financial year in 1996. Although some final figures are not yet in, the preliminary results are very good. Receipts exceeded budget by \$20,000 and disbursements were under budget by \$37,000. While we had budgeted for a net deficit year, the actual result was that we had a net surplus to add to our reserves of \$20,000. The total amount of funds available at the end of the year was \$185,000. The Region is financially well positioned to continue to provide excellent services to the members of Region 3.

A summary of the various accounts follows for your additional information. Account balances at the end of 1996 were as follows:

IEEE Long Term Savings Account	\$74,117.67
IEEE Concentration Account	88,010.25
Money Market Account	20,018.68
Checking Account	2,691.88
<b>TOTAL FUNDS</b>	<b>\$184,838.48</b>

## AREA 3 GEORGIA

*Bill Harrison, Jr.*

The Atlanta, Central Georgia and Savannah Sections are starting 1997 with technical and social activities which will be reported in the next Region 3 newsletter.

*Wally Read Visits Atlanta*

IEEE members are invited to attend the Atlanta Section's Annual Meeting & Banquet on Thursday, February 6, 1997. Wally Read, IEEE Past President, will be guest speaker. The meeting will be held

in the Floyd Room of the Sloppy Floyd Building, the twin-tower State of Georgia Office Building located near the State Capitol. The social activities begin at 6:00 P.M. and dinner will be served at 7:30. Awards, recognition of new fellows, and remarks by Wally Read will follow dinner. Contact John Buck, 1996 Section Chair, to reserve your place and to obtain directions (e-mail [john.buck@ee.gatech.edu](mailto:john.buck@ee.gatech.edu) or telephone 404-894-4705).

### *Sections Congress 2002*

The Atlanta Section Executive Committee has submitted a "letter of interest" requesting to be considered as the host Section for Sections Congress 2002.

## FLORIDA COUNCIL

### *Osama Mohammed*

In its final meeting of 1996 which was held in Orlando, Florida, the Florida Council elected me to serve for another term through 1997. Most of the Florida Council officers and committee chairs and liaison representatives have agreed to continue serving IEEE members in Florida for one more year.

During 1996, the council and its 12 member sections were involved in a variety of activities. We have had four good meetings during 1996; the first on January 12, 1996 in Orlando, the second on April 12, 1996 in Tampa, the third on August 24, 1996 in Tampa, and the fourth meeting was held on December 7, 1996 in Orlando. Most of the council meetings are held in a central location for easy access to all sections. All four council meetings held throughout the year were well attended. The first council meeting for 1997 will be held on February 15 in Orlando. Some of the activities of the Florida Council during 1996 and our plans for 1997 include:

The Florida Council has established a WEB site <http://www.flsig.org/fcieee/> and all Florida sections and student chapters are now encouraged to post their newsletters on this WEB site, for member review.

A Computer Society was formed at

the Jacksonville Section and they are using their web page to announce meetings. Also, petitions have been submitted to form a joint IAS/PES chapter in Jacksonville.

A Computer Society was formed at the Florida West Coast Section.

The Student Chapter at Embry Riddle Aeronautical University in the Daytona Beach Section was created and has finally become official.

The council continued its strong awards program by selecting from section nominations three awards for outstanding educator, outstanding engineer and outstanding educator. Other sections have also their own awards programs. An example include the Miami Section which honored two of its members for their distinguished engineering work in industry.

A discussion at the council level on how we could become more helpful to sections and members. Some of the ideas being considered include; retirement, education, job, ethics, qualifications of engineers. Several ideas will be generated during this year.

In an effort to conduct more efficient meetings, a more "standardized" section report format was approved. Section reports will follow the standard one page section report. A copy of this form was placed on the councils web site. Also, the concept of a paper-less meeting was discussed and the web site will be utilized towards this goal. One of the Florida Council Meetings during 1997 will be held via teleconferencing.

The council has an alternate funding committee that is looking at future funding mechanisms for the council. All sections are currently involved in ensuring the success of Southcon and enhancing its future.

The Florida Council has a committee that is also looking at training needs for new section officers. One of the council meetings will be extended to a second day for training.

The Florida Council and its sections continue to be active in major conference organization. Southcon and SoutheastCon '98 will be held in Orlando. Furthermore, the 1998 PES Winter meeting will be held in Tampa.

The Council participated in the Engineering and Science Fair with awards

carrying IEEE and the councils name. Many Florida IEEE Sections have programs to assist students and enhance membership.

We look forward to an exciting year and to reporting on our experience throughout the year.

## AREA 6 (AL AND MS)

### *Perry Wheless*

Mark Williams, Mississippi Section Chair, reports some very good recent meetings, with presentations on the Internet, cellular technology, and new integrated circuit designs. John Marshall attended the PACE conference in Phoenix, and reported his findings to the membership at the next section meeting. The University of Southern Mississippi student branch participated in one Mississippi Section meeting, and the Mississippi State University student branch brought their SoutheastCon Hardware Competition entry and made an excellent student presentation at another. The Mississippi Section is working with three officers this year, and the Northeast Mississippi Subsection remains short of nominations and volunteers. If you are reading this Newsletter as a resident of either, be aware that IEEE leadership opportunities are open and available in your local neighborhood! You may reach Mark at [Mark.M.Williams@bridge.bst.bls.com](mailto:Mark.M.Williams@bridge.bst.bls.com).

Rodney Johnson is now Mobile Section Chair. Since their September social meeting, average section meeting attendance has been 30+ for technical meetings featuring talks on pulsed power, Complex Programmable Logic Device (CPLD) architectures, advantages of In-System Reprogrammability (ISR), and VHDL as a design entry method for hardware designs. The January 21 topic is the Universal Serial Bus (USB) Interface, to be presented by Paul Peterson. USB has far reaching implications for plug-and-play extension, and Mr. Peterson will discuss Intel's USB microcontrollers for designing USB-compliant peripherals such as joysticks, digital cameras, and printers. This Newsletter hopefully will reach Mobile prior to

the January meeting, and additional details are available from Rodney by e-mail at [rodney@rd.qms.com](mailto:rodney@rd.qms.com).

The Alabama Section GOLD committee, headed by Kim Garing, begins its first formal membership drive on January 10. Graduates of the Last Decade in the area have been invited to attend a reception in Birmingham, where they will have the opportunity to see and hear some of the benefits of becoming IEEE members. Also, the Alabama Section will support the Engineering Council of Birmingham in several activities associated with observance of Engineering Week, including (1) provision of volunteers for MathCounts competitions, (2) project demonstrations for high school students, and (3) support of the ECOB Engineering Awards banquet.

A whole report could be devoted to an important pilot program for improving high school math and science education, which has been initiated with assistance of the Alabama Section and support from a demonstration project grant by the IEEE United States Activities Board (USAB). Dr. Mark Conner, whose degrees are all in engineering, has been hired as a full-time physical science teacher at Homewood High School and will direct the project. Mark's hiring, with the approval of the State of Alabama School Superintendent Dr. Ed Richardson, is itself part of a historic demonstration of the viability of introducing engineers into the secondary education environment. Dr. Conner will develop a set of experiments, or laboratory exercises, that will teach high school students fundamental principles from the field of electrical engineering. Dr. Conner will report to USAB on (1) details of the laboratory initiatives developed by the Alabama Section, (2) deployment experiences, and (3) recommendations that will assist other IEEE sections that desire to initiate a similar program. We will follow this project in future Area 6 reports. Meanwhile, interested readers may obtain more information from Don Parker, Alabama Section Chair, at [DONALD.M.PARKER@apc.com](mailto:DONALD.M.PARKER@apc.com), or Dr. David Conner at UAB at [daconner@eng.uab.edu](mailto:daconner@eng.uab.edu). The Alabama Section gratefully acknowledges the kind consideration and assistance of Joel Snyder, this year's IEEE Vice President

for Professional Activities, concerning their demonstration project grant proposal.

## AREA 8 KENTUCKY

*Don Hill*

The Lexington and Louisville Sections had a successful joint section meeting this fall. Members from each section enjoyed a fruitful exchange of ideas about section operations and plans.

The Paducah Sub-Section continues to struggle. Attempts are continuing to establish a viable e-mail contact in Paducah. We are also attempting to get a current list of all members in the Paducah Sub-Section.

Each Area 8 section has been invited to SEC 97 in Virginia.

All sections are making plans for the NEW 97 program in Feb.

## AREA 9 JAMAICA

*Dennis Hartley*

JamCon '97 will be held at the Jamaica Pegasus Hotel, New Kingston, Jamaica, on August 15 - 17, 1997. Call for Papers was sent out early December and it is expected to be published in the January issue of the SCOOP. Presenters are expected to be from the leading-edge technology capitals of the world.

Downsizing has now become a critical factor in the life of the Jamaican employee. Every effort is being made to educate our membership, regarding its devastating effect and how to prepare for it. We intend to have a presentation at a monthly meeting, as well as a column in our newsletter, which will be communicated by E-mail and fax.

Concern is being expressed about the lack of student activities at the University of the West Indies and the Student Chapter at the University of Technology. There have been some efforts in the past to get activities streamlined, but these have not increased membership. So, more

dynamic methods are in the pipeline.

The Section intends to have a presentation every month at our meetings and to invite student members, however, we are now being charged for the use of the meeting location. Consequently, a decision is to be taken regarding the number of meetings each year.

All efforts will be made to retain and increase our membership.

## AWARDS

*Charles Hickman*

Thanks to everyone who submitted nominations for the various Region 3 awards; Outstanding Engineer, Outstanding Service, Joseph M. Biedenbach Outstanding Engineering Educator and Professional Service. The nomination packages have been sent to Awards and Recognition Committee (ARC) members for evaluation to choose the winner in each category. Each candidate has served the Region well and is a "winner" by virtue of being nominated by his/her peers. The recipients of each award will be recognized at SoutheastCon '97 in Blacksburg, Virginia. We need more Sections to submit an application to be named as an Exemplary Section. We know that many Sections are serving their members in an outstanding manner.

Following approval at the Atlanta EXCOM meeting to proceed with developing complete specifications for a Region 3 Outstanding Student Branch Award, ARC members prepared appropriate documentation for submittal to IEEE Headquarters. Implementation is scheduled for SoutheastCon '97 in conjunction with the Exemplary Student Branch Award. Also, at the Atlanta EXCOM meeting, three students from the University of Alabama at Birmingham (UAB), Allen Baxter, Anthony Grieco and David Kujawski, were the first recipients of the Student Professional Activities Service Award. This award recognizes specific achievements and efforts in advancing the professional aims of IEEE in Region 3. The UAB students were recognized for their outstanding support of the ETI database.

The ARC continues to count on you to assist us in identifying and rewarding

deserving Region 3 IEEE members. If you have any questions on our awards and recognition program, please contact me.

## CONFERENCES

*David Green*

The next conference committee meeting will be in Columbia, SC as part of the February Region 3 EXCOM meeting. At this meeting we will be discussing our efforts this year including SoutheastCon '96 and the upcoming SoutheastCon '97 conference. Sections interested in bidding on SoutheastCon 2000 and beyond should be contacting the Conference committee regarding the schedule for bid processing as well as assistance if needed.

If anyone has any comments about the compressed conference format used in SoutheastCon '96 and '97 where most events are packed into a single weekend, please let the Conference Committee know so that it can properly plan future conferences taking this input into account. This input can be sent to the me at [d.green@ieee.org](mailto:d.green@ieee.org).

### *SoutheastCon '97*

SoutheastCon '97 will be held on the Virginia Tech campus at the Donaldson Brown Hotel and Conference Center and nearby buildings on April 12 through 14. The hosts for this conference are the Virginia Mountain Section and the Virginia Tech Student Branch. This conference will also follow the model of placing all three components (Region 3 meetings, technical conference and student conference) in parallel to occur mostly on a single weekend. It will feature technical sessions, tutorials, plenaries as well as an exciting student program. You can get more information about the conference visiting the conference web site at <http://www.vt.edu:10021/org/ieee/secon97/>.

### *SoutheastCon '98*

Conference Chair Parveen Wahid reports that efforts proceed on

SoutheastCon '98. A contract with the conference hotel has been signed and the conference committee has been named. Parveen's conference committee members attended SoutheastCon '96 in Tampa to observe activities and learn as much as possible from the 1996 efforts.

### *SoutheastCon '99*

Conference Chair Don Hill reports that contract negotiations are underway with the Hyatt Regency Hotel in downtown Lexington for SoutheastCon '99. He expects that a contract will be signed by the February meeting. The present SoutheastCon schedule is shown below.

The conference committee is interested in working with sections to develop bids for future SoutheastCons. Interested section leaders should contact David Green, R3 Conference Chair.

### *Southcon*

Region 3 has a major electro-technology show with technical sessions and product exhibitions which it sponsors with the Florida Council and Electronic Representatives Association. Southcon/97 is scheduled to be in Raleigh, NC. This will be the first visit to this area for Southcon.

### *Other Items*

We continue to seek corresponding members for the conference committee in all areas and councils. The NC Council and Florida Council will be represented by the NCSE '96 Chair and the

Florida Council's senior representative respectfully. If you have an interest in serving, please contact the Region 3 Conference Committee Chair and/or your Area/Council Chair. Contact information for these people are elsewhere in the newsletter.

If your section has a conference please send information on this conference to the Region 3 Conference Committee chair. We would like to create a list of all the conferences that are planned in our region to enhance communication with, and service to, region members.

Finally, there are a couple of institute level opportunities with regards to conferences that are available. First, the Financial Department has prepared a collection of forms (both paper and electronic) and associated guides for use in managing conference finances. Electronic versions are available for use with Lotus 123 and Quicken. Second, the IEEE program called Book Broker desires to buy proceedings from IEEE-sponsored conferences. The program commits to purchasing conference proceedings prior to the conference. SoutheastCon and Southcon proceedings are both available through the Book Broker program but there are many Section conferences that are not yet participating.

## EDUCATIONAL ACTIVITIES

*Dan Jackson*

Almost all IEEE activities are edu-

### SoutheastCon Schedule

<u>Conference</u>	<u>Date</u>	<u>Host Section/Branch</u>	<u>Conf Chair</u>
Southeastcon '97	4/11-4/14	Virginia Mtn/VA Tech	Russell Churchill
Southeastcon '98	3/28-4/01	Orlando Section	Parveen Wahid
Southeastcon '99	3/25-3/29	Lexington/Univ. of KY	Donald Hill
Southeastcon '2000	<<to be decided at R3 meeting in Blacksburg, April 1997>>		

### SoutheastCon E-mail Contacts

<u>Conference</u>	<u>General Chair</u>	<u>Student Conference</u>
Southeastcon '97	<a href="mailto:arcova@bev.net">arcova@bev.net</a> (*)	<a href="mailto:vlearn@vt.edu">vlearn@vt.edu</a>
Southeastcon '98	<a href="mailto:pfw@engr.ucf.edu">pfw@engr.ucf.edu</a>	<a href="mailto:rfd@engr.ucf.edu">rfd@engr.ucf.edu</a>
Southeastcon '99	<a href="mailto:dhill@uklans.uky.edu">dhill@uklans.uky.edu</a>	<a href="mailto:sb.uky@ieee.org">sb.uky@ieee.org</a>

(\*) Be sure to mention that the e-mail is for Russell Churchill.

educational in nature but the Region 3 Educational Activities Committee will concentrate on specific activities to foster continuing education, professional development, and training opportunities for IEEE members in Region 3. In this regard, I call your attention to recent publications available from the IEEE Educational Activities Department.

1. IEEE Section Education Chairs Guide to Planning Successful Education Programs. This guide provides guidelines for organizing educational activities at the Section level and an overview of resources for planning educational and career development programs.

2. Special Programs for Sections. This brochure describes several new programs established by IEEE Educational Activities.

a. Educational Publication Consignment Program wherein a Section can offer IEEE educational publications WITH NO INITIAL INVESTMENT - NO RISK.

b. Career Asset Manager (CAM) - A mini-workshop.

c. "CAM on Consignment" - NO UP-FRONT RISK.

d. Educational Video Seminar Program - a pilot program.

3. IEEE Educational Activities Product Catalog 1997 listing videos, self-study (or group study) courses, selected readings, and audio tapes on technical and career development topics.

In addition I will be getting the Region 3 tape library in the next few weeks. At that time I will publish a new listing of all the available Region 3 video and audio tapes. If you wish additional information on any of the listed publications contact me, address in the Region 3 Directory in this newsletter, or Barbara Coburn, [b.coburn@ieee.org](mailto:b.coburn@ieee.org), 908-562-5498.

## MEMBERSHIP DEVELOPMENT

*Jim Howard*

### *MD Retreat*

Your Membership Development (MD) Committee has many plans for the

1997 year. First we will be attending the MD retreat January 17-19, 1997 in NY. All Region MD Chairs, along with all Society MD Chairs have been invited to attend this retreat. We will be hearing about the latest figures on membership, get updates on overall IEEE membership development plans, learn more about the SAMIEEE program and its uses for membership development. We hope to also hear about funding for Region/Society MD projects. Watch for the next edition of the newsletter for details of the retreat and information on special MD projects within Region 3.

### *MD Items*

Your Region MD committee still continues to have MD items to help with your recruiting. These items are being recognized around the Institute and we have supplied Region 2, members in Region 1, and others throughout the Institute with these special MD items. These items are used for give-aways with new memberships, door prizes at meetings, speaker gifts, student MD drives, etc. Refer to the complete list of items and prices elsewhere in this newsletter.

## PROFESSIONAL ACTIVITIES

*Dick Riddle*

### *Tools and Services For Job Longevity*

With the improvement in the job market for electronic engineers and computer professionals and with the success of the many employment assistance services within Region 3 such as the BBS, ETI database, and ACN, and the success of the IEEE-USA Job Listing Service and other services offered by the USA-Employment Assistance Committee (EAC), perhaps we should devote some effort to trying to help our members keep their jobs for longer periods than the forecaster three to five years. The EAC and the Career Maintenance & Development Committee (CMDC) will work together in 1997 to develop tools and services that

will help our members extend their employability. Issues such as why some professionals are retained and others are released and what can the IEEE do to help our members increase their value to an employer will be researched for possible tools and services development. I would appreciate any input you may have on this subject.

### *1997 Plans for PACE by Lee Stogner, PACE Chair*

1997 is shaping up to be a good year for PACE activities in Region 3. We will have a number of section, region and national events all happening within the Southeast. For starters, many sections are planning special projects during National Engineers Week. This will be a time to honor our profession and the engineers that have made both science and engineering a rewarding career. We can also use the occasion to visit schools to tell students about life as an engineer. If you can, try to involve the students in a learning experience that will remain with them and perhaps start their own engineering career.

In April, Region 3 will host SoutheastCon 1997. This will be a conference for students and working engineers. It will also be a time for PACE Representatives from all over the region to meet and share ideas about the important job that they have within their sections. If there is a particular topic that you would want to learn about during the PACE training, please contact Lee Stogner at [l.stogner@ieee.org](mailto:l.stogner@ieee.org). During Labor Day weekend, the National PACE Workshop will be held in St Petersburg, Florida. At this workshop, national PACE leaders and PACE Representatives from all over the country will gather to discuss important issues for individual engineers and the profession as a whole. If you want to attend as a PACE Representative, now is the time to coordinate with your local section for the privilege and the funding. Attending the PACE Workshop is an honor and we expect every PACE Representative to carry their new knowledge back to their sections and share with the local membership.

1997 is also a time to develop and deliver projects that can impact sections and the region. Past projects include



# IEEE & ERA Present Southcon

SPONSORED BY IEEE  AND THE ERA 

## Southcon Comes to Raleigh & The Research Triangle March 25-27, 1997

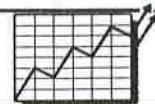
Southcon, the largest and most prestigious electronics show and convention in the Southeastern United States, will host its 17th year on March 25-27, 1997 at the Raleigh Convention Center. The focus is on Computers and Communications and all indications are we will have one of the best Southcon's ever.

**Expand your knowledge for today,  
tomorrow, and the future.**

Southcon, the largest and most prestigious OEM electronics show and convention in the Southeast U.S., will be held for the first time in the heart of Research Triangle.

Whether you're looking for new products, new ideas, or new sources of supply, Southcon/97 provides you with practical information you can use on the job today and offers insights into technical and business trends that will impact the industry in the near future. As an industry professional, you'll benefit from Southcon's unprecedented selection of the latest electronics innovations, technical knowledge, and industry services.

### What you will see at Southcon/97:



Hundreds of Exhibits featuring active and passive components / computer peripherals / board level products / connectors / manufacturing and test equipment / power sources / network equipment and software.

Applications Engineering Workshops - a timely series of "how-to" workshops will be presented by industry applications engineers.

Workshops will offer engineers training in a variety of today's important design tools and device technology applications. Each workshop will focus on tools, techniques and innovations that relate to the manufacture of today's electronic systems.

Short Courses focusing on critical issues involving the application of electronics technology.

#### Topics include:

- Understanding and Using SMT
- Trouble Shooting the SMT Process
- Basic Electronics Part I and Part II
- MPEG Standards
- Do It Right The First Time and Develop Your Products In Half The Time

<b>Exhibit Hours</b> Tues., Mar. 25 - 10:00 to 6:00 Weds., Mar. 26 - 10:00 to 6:00 Thurs., Mar. 27 - 10:00 to 3:00
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<b>Conference Hours</b> Tues., Mar. 25 - 9:00 to Noon & 1:00 to 4:00 Weds., Mar. 26 - 9:00 to Noon & 1:00 to 4:00 Thurs., Exhibits Only
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## Workshops and Short Courses

	Electronics Technology	Quality/Standards	Surface Mount Technology	System Engineering/Product Development	Computer and Communications Technologies	
<b>TUESDAY</b>	<b>SC1</b>  Basic Electronics - Module A <i>Schuneman</i>  Full Day \$150 (\$200 after 3/14/97)	<b>SC2</b>  ISO 9000 <i>Wyble</i>  Full Day \$250 (\$300 after 3/14/97)	<b>SC3</b>  Understanding and Using SMT - Module A <i>Hutchins</i>  Full Day \$250 (\$300 after 3/14/97)	<b>SC4</b>  Do It Right the First Time and Develop Your Product in Half the Time <i>Kopelman</i>  Full Day \$250 (\$300 after 3/14/97)	<b>SC5</b>  The Navstar Global Positioning Systems: Theory and Applications <i>Logsdon</i>  Half Day \$150 (\$200 after 3/14/97)	<b>WS1</b>  Introduction to Microcontrollers <i>Bannatyne/Viot</i>  Half Day \$150 (\$200 after 3/14/97)
					<b>SC6</b>  Mobile Communication Satellite Constellations <i>Logsdon</i>  Half Day \$150 (\$200 after 3/14/97)	<b>WS2</b>  Structuring Fuzzy in C <i>Viot</i>  Half Day \$150 (\$200 after 3/14/97)
<b>WEDNESDAY</b>	<b>SC7</b>  Basic Electronics - Module B <i>Schuneman</i>  Full Day \$150 (\$200 after 3/14/97)	<b>SC8</b>  MPEG Standards <i>Nijim/Ramaswamy</i>  Full Day \$250 (\$300 after 3/14/97)	<b>SC9</b>  Troubleshooting the SMT Process - Module B <i>Hutchins</i>  Full Day \$250 (\$300 after 3/14/97)	<b>SC10</b>  EMC Systems Engineering - Module A <i>Brewer</i>  Half Day \$150 (\$200 after 3/14/97)	<b>SC11</b>  Wireless Communications <i>Sobol</i>  Half Day \$150 (\$200 after 3/14/97)	<b>WS3</b>  Using Electronic Engrg. Databases & the WWW to Dramatically Reduce the Concept-to-Delivery Cycle <i>Fullerton</i>  Half Day \$75 (\$100 after 3/14/97)
				<b>SC12</b>  PCB EMC Design Fundamentals - Module B <i>Brewer</i>  Half Day \$150 (\$200 after 3/14/97)	<b>SC13</b>  Neural Networks in Computer Communications <i>Jeffries</i>  Half Day \$150 (\$200 after 3/14/97)	<b>SC14</b>  Evaluating, Selecting, and Installing a Wireless LAN <i>Kegley</i>  Half Day \$150 (\$200 after 3/14/97)

Program subject to change. For final dates, times and place, call (800) 877-2668 or (310) 215-3976. Visit Southcon's website at <http://www.southcon.com> for complete details and registration form.



# Southcon '97 to Offer Over 350 State-of-the-Art Exhibits

## Some of the many exhibitors who have already reserved booths include:

Aavid Thermal Technologies, Inc.	EDN Products Edition	Microwave Components, Inc.	Sigma Electronics
Advanced Components Industries, Inc.	The Electronics Source Book	Minco Products, Inc.	Singapore Resources, Inc.
Advanced Interconnections	Elmec Manufacturing	Mouser Electronics	SK America*
Advanced Power Technology	Equipto Electronics Corporation*	Multi-Contact USA	Soja/Heavy-Duty Electric
Advanced Quick Circuits	E-T-A Circuit Breakers	National Wire & Cable	Southeastern Metal Products, Inc.
Aero-Motive*	Everbouquet Internation Co., Inc.	Newark Electronics	Spectrol Electronics Corporation
AGA Chemicals, Inc.	Evergreen Batteries*	New England Electric Wire Corp.	Standard Inserts**
Airtechnics, Inc.	EvoxRifa*	NMB Technology Inc.	Stetek Corporation
A.J. Knott Tool & Mfg. Corporation	Fab Source	Noritake Co., Inc.	Stelmack Power Specialists &
All-State, Inc.	Fair-Rite Products Corp.	North American Capacitor Co.	Components/Cabtron Systems, Inc.
American Elect. Cable Co.	Far East Enterprises/	NRT Contract Manufacturing	Surmount Inc.
American Precision Inc. Delevan Div.	Singapore Resources, Inc.	Ohmite*	Taitron Components Inc.
Arthur, Harris & Associates, Inc.	Fastbolt	Omron Electronics Inc.	Tamura Corporation
Atlanta Hardware Specialty Co., Inc.	Filter Concepts, Inc.	Otto Controls*	Tapecon, Inc.
Avalon Enterprises	Gerome Manufacturing Co.	P-Tec	Taracorp Imaco, Inc.
B&K Precision*	GM Nameplate	Pace, Incorporated	Tajjo Yuden*
Berg Electronics, Inc.	Goguen Industries, Inc.	Panduit	TDI Batteries
Bivar**	Gowanda Electronics Corp.	Panel Components Corp.	TDK Corporation of America
Brel International Products	Guardian Electric Manufacturing Co.	PAT Associates	Tech-Etch, Inc.
Buckeye Stamping Company	GWS, Inc.	Pelican Products*	Techdyne, Inc.
Bud Industries, Inc.	H. A. Guden**	Penn Engineering**	Technical Materials, Inc. (TMI)
Bulova Technologies	Hallmark Technologies, Inc.	Phoenix Contact	Technical Sales & Applications, Inc.
Bumper Specialties**	Hammond Electronics, Inc.	Pinnacle Marketing, Inc.	TEK-REP Marketing, Inc.
Bussmann Circuit Components	Hartwell**	Pneumafil Corp.	Teltone Corporation
Busmann Division/Cooper Industries	Harwin, Inc.	Philway Products	Thermalloy, Inc.
C&K Compenents Inc.	Hisco Inc.	POP Fasteners**	Thomson Passive Components*
Cabtron Systems, Inc.*	Hoffman Engineering Company	Potrans International, Inc.	Tocos America
Cal-Chip Electronics, Inc.	Hurst Mfg. Div., Emerson Electric Co.	Power-Sonic Corp.	Topflight Corporation
Cal Crystal Lab. Inc.	Hyundai*	Power-Ten*	Toroid Corporation of Maryland
California Switch & Signal, Inc.	Illinois Lock Company	Praegitzer Industries	Tompeter Electronics*
Capital Electronics, Inc.	Inductor Supply, Inc.	Precision Custom Products, Inc.	Trillium Industries, Inc.
CCI	Information Handling Services	Pro Fasteners & Components	Tropic Fasteners, Inc.
Cartwright & Bean	Interconnect Systems, Inc.	Projects Unlimited	TTI, Inc.
Central Semiconductor, Corp.	Intermark (USA), Inc.	Prototype Express/Plynetic	Ulveco, Inc.
Century Fasteners Corp.	International Electric Res. Corp. (IERC)	ProTronics, Inc.	Unitech*
Cincinnati Sub-Zero Products, Inc.	International Power Devices	QA Technology*	United States Crystal Corp.
CommCon Connectors, Inc.	International Rectifier	RAF Electronic Hardware	Unitrack Industries, Inc.
CompuLink Cable Assemblies	ITT Pomona*	Raltron*	U. S. Tech
Conec Corporation	JAN Crystals	RA Sales	Vahalla Scientific*
Control Design Supply	Jet/Western Abrasives**	R. C. Dudek & Company, Inc.	Ventronics
Corpcom Corporation*	Johnson Components, Inc.	The Resource Center for	Vishay
Cosel U.S.A. Inc.	JSC U.S., Inc.*	Organizational Effectiveness	Wago Corporation
CPF Atlantic Inc.	Kingstate Electronics Corporation	Resource Electronics	Warren G-V
Crane Connectors*	Knurr USA Inc.	RIA Electronic, Inc.	Wayne-Kerr Electronics
Crydom Corporation*	KOA-Speer Electronics Inc.	Richo**	Weeco Electric Connectors
CTS Corporation	Hycon Inc.	Robert G. Allen Company, Inc.	Weames Hollingsworth Corporation
Decimal Engineering, Inc.	Lamons Sales/P-Tec	Rod-L Electronics, Inc.*	Westak
Details, Inc.	LMR Plastics*	RSA Power	Weidmuller, Inc.
Dexter Magnetic Materials Div.	Low Key Corporation	Sager Electronics	Wes-Garde Components Group
Dolch Computer Systems	Magnetics, Div. of Spang	Samtec, Inc.	Winpoint America*
Dyna-Graphics Corporation	Mallory Controls	Sanrex Corporation, UPS Division	WPO Temiflex, Inc.
EAO Switch Corporation*	Manhattan/CDT	Sanyo Denki America, Inc.	Wyle Electronic Enclosures*
E-A-R Specialty Composites	Marquardt Switches*	Saronix	Yokogawa Corporation of America
Electro Assemblies Corporation	Max Visions, Inc.	Seastrom Manufacturing Co., Inc.	The Zippertubing Co.
ebm/Papst Industries	Mega Electronics*	SEC/Potter & Brumfield	Zucker Associates
Ecliptek Corporation	Melcher*	SEI Electronics, Inc.	
ECN Magazine/Chilton Co.	Meritek Electronics Corporation	Shindengen America, Inc.	
EDAC Inc.	Micro Care Corp	Sicon International*	

\* Manufacturer exhibiting with Rep

\*\* Manufacturer exhibiting with distributor

## Southcon/97 Registration

cut, fold, tape and mail

### COMPLETE ALL QUESTIONS FOR COMPLIMENTARY REGISTRATION.

Persons under 18 years of age not admitted.

Students 18 or older admitted Thursday, March 27, only.

**1. General Information**

First Name _____		Last Name _____	
Job Title _____			
Company _____		Division _____	
Mailing Address _____		Dept. or M/S _____	
City _____		State _____	Zip _____
Country _____		e-Mail _____	
Telephone _____		Fax _____	

7-90127

- GA** I would like to receive updates/special offers via E-mail. (I've provided my e-mail address above)

**2. Principal Job Responsibility (check only one)**

- AA** Engineering Management  
 **AB** Management other than Engineering  
 **AC** Engineering  
 **AD** Buyer, Purchasing Agent  
 **AE** Other \_\_\_\_\_

**3. Principal Job Function (check only one)**

- BA** General & Corporate Management  
 **BB** Design & Dvlp. Engineering (circuits, components, equipment, systems)  
 **BC** Engineering Services (evaluation, quality control, reliability, standards, test)  
 **BD** Basic Research  
 **BE** Manufacturing & Production  
 **BF** Engineering Assistants (draftsman, lab assistant, technician)

- BG** Purchasing and Procurement  
 **BH** Marketing including Sales  
 **BI** Advertising, Media or Public Relations  
 **BJ** Other \_\_\_\_\_

**4. What type of design are you involved in? (check all that apply)**

- CA** Analog Design  
 **CB** Digital Design  
 **CC** Software Design  
 **CD** Test and Evaluation  
 **CE** Systems Design  
 **CF** Circuit Design  
 **CG** Component Design  
 **CH** Microprocessors for Embedded Systems  
 **CI** Other Design \_\_\_\_\_

**5. What is the primary end product (or services) at this location? (check only one)**

- DA** Computers, Systems, Peripherals  
 **DB** Communication Systems  
 **DC** Controls, Test, Medical Equipment

- DD** Avionics, Government & Military Electronics  
 **DE** Automotive, Consumer Electronics & Appliances  
 **DF** ICs and Semiconductors  
 **DG** Components (other than ICs)  
 **DH** Other \_\_\_\_\_

**6. Which of the following products and/or services do you specify, recommend, approve, purchase or influence the purchase of? (check all that apply)**

- EA** Standard ICs  
 **EB** ASICs, PLDs, FPGAs  
 **EC** Design Automation, Engineering Software  
 **ED** Test Equipment & Development Tools  
 **EE** System Boards  
 **EF** Computers/Software  
 **EG** Computer Peripherals  
 **EH** Components (other than ICs)  
 **EI** Interconnection, Production/Packaging Equipment & Supplies

- EJ** Power Sources  
 **EK** Services (Contract Assembly, IC Foundry, Design Services, Test Services, Etc.)

**7. Size of your organization**

- |               | At this location                   | In entire company                  |
|---------------|------------------------------------|------------------------------------|
| 5,000 or more | <input type="checkbox"/> <b>FA</b> | <input type="checkbox"/> <b>FB</b> |
| 1,000-4,999   | <input type="checkbox"/> <b>FC</b> | <input type="checkbox"/> <b>FD</b> |
| 500-999       | <input type="checkbox"/> <b>FE</b> | <input type="checkbox"/> <b>FF</b> |
| 100-499       | <input type="checkbox"/> <b>FG</b> | <input type="checkbox"/> <b>FH</b> |
| 50-99         | <input type="checkbox"/> <b>FI</b> | <input type="checkbox"/> <b>FJ</b> |
| 20-49         | <input type="checkbox"/> <b>FK</b> | <input type="checkbox"/> <b>FL</b> |
| 6-19          | <input type="checkbox"/> <b>FM</b> | <input type="checkbox"/> <b>FN</b> |
| 1-5           | <input type="checkbox"/> <b>FO</b> | <input type="checkbox"/> <b>FP</b> |

**Four Ways to Register:**

**MAIL** this completed form by March 7 to:  
 Southcon Registration  
 8110 Airport Blvd.,  
 Los Angeles, CA 90045-3194.  
**Do Not Both Fax and Mail.  
 YOUR BADGE WILL BE MAILED  
 3 WEEKS PRIOR TO THE SHOW.**

**FAX** after March 7, but before March 17, to  
 (310) 641-5117.

**Do Not Both Mail and Fax.  
 BADGES WILL BE HELD FOR PICK-UP AT  
 THE ADVANCE REGISTRATION COUNTER.**

**ELECTRONICALLY** <http://www.southcon.com>  
**AFTER MARCH 7, BADGES WILL BE  
 HELD FOR PICK-UP AT THE ADVANCE  
 REGISTRATION COUNTER.**

**ON-SITE** after March 17, bring this form with  
 you to Southcon/97 for **FREE** Admittance.  
**Save \$10.**

Bring Your Colleagues. This Form may be Duplicated

[www.southcon.com](http://www.southcon.com)

ANNOUNCEMENT & REGISTRATION FORM

# IEEE Southeastcon '97

“Engineering the New Century”



Virginia Polytechnic Institute and State University  
Blacksburg, Virginia  
April 12-14, 1997

## ABOUT THE CONFERENCE

SOUTHEASTCON '97 will bring together science and engineering professionals and students from the southeastern United States and from around the world. This conference provides the ideal forum for meeting a broad range of technical specialists and for discovering new ideas and innovations for the purpose of enhancing the partnership between education, science and technology.



You can get the latest information about SOUTHEASTCON '97 and the Blacksburg region by visiting our World Wide Web page:  
<http://www.vt.edu:10021/org/ieee/secon97>

## ABOUT THE CONFERENCE LOCATION

Located in the scenic Blue Ridge mountains of Virginia, Blacksburg is accessible from I-81 and US 460. The Donaldson Brown Hotel and Conference Center is a short 40-minute drive from the Roanoke, Virginia, airport. Blacksburg provides a unique backdrop for SOUTHEASTCON '97. The tri-cities area, comprising Blacksburg, Christiansburg and Radford, offers a wide variety of cultural sites and events, including the Smithfield Plantation Home on the Virginia Tech campus and the 17<sup>th</sup> International Bartok-Kabalevsky Piano Competition with world-famous pianist Gyorgy Sandor (April 11-13) on the Radford University campus in Radford, Virginia. Blacksburg will also be hosting several art exhibitions, concerts, and recitals during these dates, including a solo viola recital by Doris Lederer of the Audobon Quartet (April 12, at Virginia Tech's Squires recital salon). *Best of all, living is very inexpensive in Southwest Virginia. Hotels, restaurants and even the registration fees are considerably lower than those of recent conferences!*

## GENERAL INFORMATION

SOUTHEASTCON is the annual IEEE Region 3 Technical Conference. The Conference brings together Electrical and Computer Engineering professionals with students for the purpose of sharing information through personal contacts and through the presentation of professional and student technical papers. SOUTHEASTCON is the most influential outlet for promoting awareness of technical contributions made by our profession to the advancement of engineering science and society.

**FEATURES INCLUDE THE FOLLOWING: APROXIMATELY 100 TECHNICAL PAPERS PRESENTED BY AUTHORS FROM AROUND THE WORLD • EIGHT TUTORIALS • NATIONAL AND LOCAL EXHIBITORS, INCLUDING TEST EQUIPMENT PROVIDERS, SOFTWARE PROVIDERS, AND TEXTBOOK PUBLISHERS • DEMONSTRATIONS IN THE EXHIBIT HALL • STUDENT HARDWARE, SOFTWARE, PAPER AND WEB PAGE COMPETITIONS • HALF-DAY SYMPOSIA ON WIRELESS COMMUNICATIONS, FIBER OPTICS AND POWER ELECTRONICS • IEEE REGION 3 COMMITTEE MEETINGS • SOCIAL ACTIVITIES FOR PARTICIPANTS AND SPOUSES**

### **SUMMARY OF TECHNICAL PROGRAM**

Tutorials and technical sessions will take place all day Saturday and Sunday, April 12-13, and will continue until 1:00 PM on Monday, April 14. Please refer to the Southeastcon '97 web page for schedule information.

#### **TUTORIALS:**

- EMC Systems Design by Ronald Brewer of Instrument Specialities Co., Inc.
- PCB EMC Design Practices by Ronald Brewer of Instrument Specialities Co., Inc.
- How to Apply Interconnect Cables Without Creating Electromagnetic Interference Problems by Thomas Jerse of The Citadel
- ATM Networking and Switching: Principles, Operations, Architectures, and Switching by Mohsen Guizani of KFUPM, Saudi Arabia
- Desktop Videoconferencing: Technology and Applications by Scott Midkiff of Virginia Tech
- Personal Positioning for Professionals by Paul Kostek of TekSci
- Optical Fiber Communication Technology and System Overview by Ira Jacobs of Virginia Tech
- Time Domain Measurement Techniques and RF and Microwave Applications by Sedki Riad of Virginia Tech

#### **SESSION TOPICS:**

Image Processing  
 Digital Design  
 Communications  
 Computer Networks  
 Controls  
 Education

Neural Networks and Intelligent Systems  
 Digital Signal Processing and Speech  
 Photonics and Guided-Wave Optics  
 Electromagnetic Fields and Applications  
 Electronic Circuits and Devices  
 Electronic Materials and Microelectronics  
 Power Distribution and Energy

#### **HALF-DAY SYMPOSIA:**

Wireless Communications  
 Fiber Optics  
 Power Electronics

#### **LABORATORY TOURS:**

Tours will be conducted by research groups at Virginia Tech

## STUDENT ACTIVITIES

This year's student conference will consist of several rewarding and exciting events, including the traditional hardware and short-term competitions, student paper presentations, student social activities, and the first ever student web page competition.

The *hardware competition* is appropriately named 'Hokie Hunt' (after the Virginia Tech mascot). This competition will test student designs in a rugged search and retrieve mission. Vehicles will be pitted in head-to-head competition requiring both game strategy and good design practice.

The *short-term (software) competition* will require rapid programming of software to control a device through a parallel port. Students will bring their own controlling device, allowing maximum flexibility of programming platforms and languages.

The *student web page competition* allows students who are not able to travel to the conference, to participate and develop Internet resources within individual student branches.

Students, don't forget that Southeastcon '97 offers you a reduced registration fee. A current school ID and IEEE student membership are required. To find out more about conference registration, contact your student branch chair or advisor. Remember, more information about any of the competitions or registration may be found at the Southeastcon '97 web page.

## IT'S A BARGAIN

See the attached registration form for a complete description of registration categories and fees. Note that the fee for tutorials is only about 1/4 of that charged for similar tutorial sessions at other professional meetings—a real bargain! For additional information refer to the Southeastcon '97 web page (<http://www.vt.edu:10021/org/ieec/secon97>) or contact one of the following:

### *Conference General Chair:*

**Dr. Russell J. Churchill**  
American Research Corporation of Virginia  
Phone 540-731-0655  
Fax 540-731-0836  
e-mail: [arcova@swva.net](mailto:arcova@swva.net)

### *Conference Vice Chair:*

**Dr. Ira Jacobs**  
Virginia Tech  
Phone 540-231-5620  
Fax 540-231-3362  
e-mail: [ijacobs@vt.edu](mailto:ijacobs@vt.edu)

## TRAVEL ARRANGEMENTS

Upon arrival at the Roanoke Regional Airport, claim your baggage at the airport's lower level. Rental car check-out is located beside the baggage claim area. In addition, Blacksburg Limousine Service (540-951-3973) provides transportation to Blacksburg from the airport—the information desk is located near the baggage claim area. If you are driving from the airport, take the exit to I-581 North (Bristol), get in the left-hand lane and exit left onto I-81 South (Bristol). Follow I-81 to the Christiansburg/Virginia Tech exit and get onto US-460. Stay on US-460 to Blacksburg.

## ACCOMMODATIONS

A block of rooms has been reserved at the Donaldson Brown Center for Continuing Education, located on the Virginia Tech campus in Blacksburg (phone 540-231-5156). The room rate is \$66 (single) or \$74 (double), plus tax, per night. Additional accommodations are available at hotels in the surrounding area; please refer to the Southeastcon Web page for further information.

Sponsored By:  
 IEEE Region 3  
 IEEE Virginia Mountain Section  
 The Bradley Dept. of Electrical Engineering  
 and IEEE Student Branch, Virginia Tech

**IEEE SOUTHEASTCON '97**  
 Donaldson Brown Center  
 Blacksburg, Virginia  
 April 11-14, 1997

Please Print All Information  
 and Return with Payment by  
 March 21, 1997

**REGISTRATION FORM**

> \_\_\_\_\_  
 Last Name                      First Name                      Middle Initial                      SSN  
 > \_\_\_\_\_  
 Telephone Number              FAX Number                      E-Mail Address  
 > \_\_\_\_\_  
 Company/Organization/University              FID# (needed for company refunds)  
 > \_\_\_\_\_  
 Mailing Address  
 > \_\_\_\_\_  
 City                                  Province/State                      Country                                  Zip/Postal Code  
 > \_\_\_\_\_  
 IEEE Membership Number/Grade                      Guest/Spouse (if attending)

Send completed form and payment to:  
 IEEE SOUTHEASTCON '97  
 Conference Registrar  
 Division of Continuing Education  
 Virginia Tech  
 Blacksburg, VA 24061-0104  
 (540) 231-5182  
 Make checks payable to:  
 Treasurer, Virginia Tech(CE)

Session Chair               Speaker                       Region 3 ExCom               Student                       Participant  
 Admission to all conference social functions will be through Name Tag identification. Name Tags must be worn for all conference sessions, exhibits, and social functions, as well as all student technical and social functions.

**CONFERENCE FEES:**

		By 3/21/97	After 3/21/97	
<b>IEEE Member</b>	Sessions, Exhibits, Reception, Proceedings, Awards Luncheon, Banquet	\$175	\$220	\$ _____
<b>Non-Member</b>	Sessions, Exhibits, Reception, Proceedings, Awards Luncheon, Banquet	\$220	\$265	\$ _____
<b>Life Member/Retired</b>	Sessions, Exhibits, Reception	\$15	\$20	\$ _____
<b>Student Basic</b>	Sessions, Exhibits, Reception	\$15	\$20	\$ _____
<b>Student Package</b>	Sessions, Exhibits, Reception, Proceedings, Awards Luncheon	\$60	\$70	\$ _____
<b>Region 3 EXCOM</b>	Refreshments, Exhibits, Reception, Region Executive Meeting	\$15	\$20	\$ _____
<b>GUEST/SPOUSE</b>	Registration, Reception	\$20	\$25	\$ _____
				\$ _____

**SEMINARS AND TUTORIALS:** (Includes course materials and refreshments. DOES NOT include conference registration or social functions).

Category	By 3/21/97	After 3/21/97	
Student	\$20	\$30	<input type="checkbox"/> EMC Systems Design <input type="checkbox"/> Personal Positioning for Professionals
Member	\$50	\$75	<input type="checkbox"/> PCB EMC Design Practices <input type="checkbox"/> Desktop Video Conferencing: Technology and Applications
Non-Member	\$100	\$125	<input type="checkbox"/> How To Apply Interconnect Cables without Creating EMI Problems
			<input type="checkbox"/> ATM Networking and Switching: Principles, Operations, Architectures, Switching
			<input type="checkbox"/> Time-Domain Measurement Techniques and RF and Microwave Applications
			<input type="checkbox"/> Optical Fiber Communication Technology and System Overview

TOURS: Please check if interested in spouse tours .....

ADDITIONAL TICKETS	By 3/21/97	After 3/21/97	
— Reception on Friday, April 11, 1997	QTY _____ @ \$20	QTY _____ @ \$25	\$ _____
— Banquet on Saturday, April 12, 1997	QTY _____ @ \$25	QTY _____ @ \$30	\$ _____
— Awards Luncheon on Sunday, April 13, 1997	QTY _____ @ \$20	QTY _____ @ \$25	\$ _____

ADDITIONAL PROCEEDINGS              QTY \_\_\_\_\_ @ \$30              QTY \_\_\_\_\_ @ \$35              \$ \_\_\_\_\_

**TOTAL REMITTANCE (US Dollars Only)**              \$ \_\_\_\_\_

Make Checks/Bank Drafts (US Dollars Only) and drawn on a US bank payable to **Treasurer, VA Tech-CE**, or enter Credit Card Information

Check No. (US Bank) \_\_\_\_\_               Cash (On-Site only)               Visa               Master Card  
 Credit Card Account No. \_\_\_\_\_              Expiration Date \_\_\_\_\_  
 Signature: \_\_\_\_\_

**IMPORTANT:** No refund after March 21, 1997. Cancellation requests shall be in writing and are subject to a \$25 cancellation fee. There is a \$25 fee for returned checks.

## REGION 3 EXPANDS ETI DATABASE

In an effort to enhance employment services to Region 3 members who may have to seek employment outside of Region 3, the ET Database has now been expanded. The database was previously limited to electro-technology companies within the geographic boundaries of Region 3 (Southeast USA). The University of Alabama at Birmingham (UAB) Student Branch has taken the lead in updating the database. It now includes over 35,000 companies in 50 states. The database updating and expansion activity is part of the Region 3 Special Project, ET Database Phase 5. 1997 funding was approved as part of the proposed 1997 Budget by the Region 3 EXCOM at their November meeting in Atlanta.

### ELECTRO-TECHNOLOGY INDUSTRY (ETI) DATABASE

Want to know who hires IEEE members? Region 3 maintains a national database of electro-technology companies, and it's available to IEEE members. All you need to do is send an internet e-mail message to [empaccess.r03@eng.uab.edu](mailto:empaccess.r03@eng.uab.edu). Use the exact wording below. An auto-response file will be sent to you by return e-mail with instructions on how to access the ETI Database.

REQUIRED FORMAT\* for "access" e-mail message:

NAMELINE: [IEEE Member Number] [Last Name, First Name M.I.]  
ADDRESS1: [Address Line #1]  
ADDRESS2: [address Line #2]  
ADDRESS3: [Address Line #3]  
SECTNAME: [Section Name]  
STBRANCH: [Student Branch Name]  
HOMENMBR: [Home Phone Number]  
WORKNMBR: [Work Phone Number]  
EMPLOYER: [Employer]  
EMAILADR: [E-Mail Address]

\*Note: Do not type brackets!

For Membership information contact [j.howard@ieee.org](mailto:j.howard@ieee.org).

For Employment Assistance Information contact [r.riddle@ieee.org](mailto:r.riddle@ieee.org).

### NEW SERVICE AVAILABLE - THE AUTOMATED CONSULTANT'S NETWORK

The Automated Consultants' Network (ACN) is scheduled to start its "Pilot" Program February 1, 1997. A 4-6 month Region 3 pilot program, (part of 1997 Phase 3) will be used to make system improvements, incorporate enhancements and generate publicity. The Region 3 ACN system is a free service to clients, employers and IEEE members during Phase 3, and the system is accessible by a direct dial phone number (770) 446-9721. IEEE consultants interested in being in the Region 3 ACN Directory can register either by downloading the consultants' template, completing the template off-line, and uploading the template to the ACN system, or registering online.

The DeVry Student Branch is the system Administrator for the ACN and the points-of-contact are Mr. John Blake, Branch Chair at (770) 978-3461 or e-mail: [tazmax@mindspring.com](mailto:tazmax@mindspring.com), and the Region 3 Special Project Coordinator, Vernon Powers at (770) 449-6161 or e-mail: [v.powers@ieee.org](mailto:v.powers@ieee.org)

### Student Branch Volunteers Needed - Special Project Support

If your Region 3 Student Branch is interested in supporting a Region member services Special Project, contact the Region 3 Regional Student Representative, David Lee at [d.c.lee@ieee.org](mailto:d.c.lee@ieee.org); Region 3 Special Projects Coordinator Vernon Powers at [v.powers@ieee.org](mailto:v.powers@ieee.org) or PAOC Chair, Dick Riddle at [r.riddle@ieee.org](mailto:r.riddle@ieee.org)

high school career days, employment workshops and the Electrotechnology Industry Database. If you want to start a PACE Special Project, consult your PACE Leaders Handbook and generate interest within your section. If you need help from Region 3, please let us know.

It takes an active organization to support the important needs of our membership. If your section doesn't have a PACE Representative, find that special volunteer and let us know who they are. We'll take care of the training materials and add a lot of inspiration. Subject: IEEE Region 3 Newsletter Article

## PUBLIC INFORMATION

*Bob Duggan*

The P.I. Committee has also been in touch with IEEE HQ (Corporate Communications), and their support has been assured. Their 23-page "Publicity Guide for IEEE Sections, Chapters, and Branches" provides useful suggestions for publicizing IEEE activities and for dealing with the various media.

Region 3 officers desiring a copy should address their request to [corporate\\_communications@ieee.org](mailto:corporate_communications@ieee.org) or to (908)-562-6820.

Most importantly, though, your P.I. Committee is willing to work with Region 3 Sections and Committees to enhance our external relations for our internal benefit.

## STRATEGIC PLANNING

*Roy Harris*

The Strategic Planning Committee (SPC) will concentrate on two special areas this year which will involve all EXCOM members.

1. Region 3 Strategic Plan and Annual Goals & Objectives - The SPC is developing procedures and time-lines for setting and reporting on goals and objectives in each area of region activities. In order to provide periodic updates to our

Region 3 Strategic Plan, the SPC will seek the Director-Elect's personal goals and emphasis for Region 3 during his/her two-year term. These inputs will be sought in early fall prior to his/her taking office in January. This will permit us to present an updated Strategic Plan for consideration at the Fall EXCOM meeting in the odd years.

2. Strengthening our volunteer and committee structure for Region 3 operation - The SPC will develop and recommend a program for improving our committee operations. This will involve recommending better training programs for committee chairs and vice-chairs. We need strong vice-chairs for each committee so that we have continuity of leadership as well as a process for on-the-job training. We are in the process of developing a Committee Chair Training Manual to assist in this important endeavor.

## STUDENT ACTIVITIES

*Pat Donohoe*

The deadline for nominations for the Larry K. Wilson Regional Student Activities Award is January 31, 1997. The purpose of this award is to recognize annually, in each Region of the IEEE, the student most responsible for an extraordinary accomplishment associated with IEEE student activities. If your Section knows of a deserving student in the Student Branch(s) in your area, please nominate that person. The nominations should be sent to me at the address given at the back of this newsletter.

Be sure and mark your calendars for SoutheastCon '97 which will be held in Blacksburg, Virginia on April 12-14, 1997 (See the SECON '97 webpage at <http://www.vt.edu:10021/org/ieee/secon97/>). The Virginia Tech Student Branch has been working hard in preparation for the student portion of this conference. Please encourage the Student Branches in your area to participate in the student paper competition, the hardware competition ("Hokie Hunt"), the software competition, and the webpage competition. Details concerning each of

these competitions can be found on the SECON 97 webpage. The "Hokie Hunt" consists of two robots from opposing teams going head-to-head on a playing board, trying to collect the most points as fast as possible. The robots gain points by collecting balls and returning them to their "nest." The balls will be of three different basic types: steel (3 point), brass (8 points), and nylon (-2 points). The nests are square-shaped bins surrounded by boundary walls, located at opposing corners of the playing board. In order for the vehicles to guide themselves, a white polar coordinate system will be painted on the black board. Centered on the board will be a circular pit which vehicles should avoid. Balls will be located at predetermined intersections of certain polar coordinate lines. A map of these locations will be given out prior to the beginning of each round of competition so that the teams may program their robots accordingly.

Region 3 is currently soliciting papers from students for the 1997 IEEE Region 3 Professional Issues Student Paper Contest. Papers will be judged by a Regional committee. The six Regional winners from the six IEEE-USA Regions will be provided travel expenses to the 1997 PACE Conference and Workshop to be held in St. Petersburg, Florida (August 29 - September 1, 1997). The six Regional winners will present their papers at the conference and the most outstanding will be recognized with an award of \$200. The runner-up will receive \$100. All six papers will be eligible for publication in an appropriate IEEE publication, including the Proceedings of the PACE conference itself.

## COMMUNICATIONS

*Brian Skelton*

The Communications Committee was established to facilitate the Region's move toward more effective communications with members and a more cohesive operation at the Region level. The committee is composed of the Newsletter Editor, E-Mail Coordinator, BBS SysOp, Public Information Chair, and any other chair of a special Region 3 communications related project, including the Re-



gion 3 Bulletin Board System. This newsletter has several columns on our present projects. Region 3 has a Home Page on the WWW <http://sandbox.ieee.org/r03/>.

It is a busy time in the Communications area in Region 3. I welcome comments on what this committee can do to serve our membership better.

## E-MAIL

*Brian Swail*

The new year brings many officer changes throughout Region 3 and provides me with the task of updating our email lists. You can help me out by sending me any email changes. If you are a new chair, please send me a note. I would like to get our lists corrected well before Southeastcon.

A goal for the coming year is to improve our electronic communication with the student branches. You can help me reach this goal by sending an email contact for the student branch(es) in your

section.

## World Wide Web

If you have a web site for your section (or other Region 3 entity), please send me your URL and a link will be placed on the Region 3 web site.

## NOMINATIONS

*David Conner*

For 1997, the Region 3 Nominations Committee has been tasked with the responsibility of assisting Delegate/Director-Elect Dale Caston in developing a list of candidates to fill (a) the appointed positions on the Region 3 Executive Committee (EXCOM) for 1998 and (b) the numerous positions within the Region that support EXCOM activity. The Region 3 EXCOM, for example, is composed of 23 members, 15 of which are appointed by the Region 3 Delegate/Director: Secretary, Treasurer, Area 3 (Georgia) Chair, Area 6 (Alabama and Mississippi) Chair, Area 8 (Kentucky) Chair,

Area 9 (Jamaica) Chair, Awards and Recognitions Committee Chair, Communications Committee Chair, Conference Committee Chair, Education Activities Chair, Membership Development Chair, Professional Activities Operations Chair, Strategic Planning Chair (must be a Past Region 3 Director), Student Activities Chair, and Regional Student Representative. Supporting positions include (1) Sub-Committee Chairs in the areas of Awards and Recognitions, Communications, and Professional Activities and (2) Chairs for special activities such as Leadership Development, the Nominations Committee (must be a recent Past Region 3 Director), and special review committees.

The Nominations Committee needs your help! We need to hear your suggestions of individuals that you feel should be considered for service within Region 3. If you have a suggestion or if you have a personal interest in serving in a particular EXCOM or EXCOM-support position, please E-Mail me at [d.conner@ieee.org](mailto:d.conner@ieee.org) concerning your suggestion or personal interest.

### Your Region 3 Membership Development Committee Presents Membership Development Tools for Sections and Student Branches

These items are being provided by the R3 MD Committee at or near cost to allow all Sections and Student Branches to take advantage of the bulk prices.

Use for Awards, Prizes, Give Aways, New Member Incentives, etc.

Complete the following and send to the R3 MD Chair at the address in the R3 Directory on Page 11.

NAME \_\_\_\_\_ Date \_\_\_\_\_  
 Member # \_\_\_\_\_ Section \_\_\_\_\_  
 SHIP TO: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



#### ITEMS (All with IEEE Logos):

ITEMS (All with IEEE Logos):	Cost Each	Quantity
Flyers (Frisbees)	\$1.00	_____
Can Coolers (Koozies)	\$1.00	_____
Pens (Black/Silver)	\$10.00	_____
Coasters (Wood)	\$7.00	_____
Post-It Note Dispenser (Wood)	\$15.00	_____
Key Chain Flashlight	\$1.00	_____
Mouse Pad	\$2.00	_____
Pens (Ball Point)	\$1.00	_____
Magnetic Screwdriver	\$1.00	_____

Total Amount of Order

\$ \_\_\_\_\_

# Southcon/97

Thousands of electronics and communications professionals from the Southeast are preparing for the 17th annual Southcon, the region's largest OEM electronics conference and exhibition.

Southcon/97 is taking place March 25-27, 1997, at the Raleigh Civic & Convention Center in Raleigh, North Carolina.

Tentative show hours are as follows:

Tuesday, March 25	10:00 a.m. - 6:00 p.m.
Wednesday, March 26	10:00 a.m. - 6:00 p.m.
Thursday, March 27	10:00 a.m. - 3:00 p.m.

Engineers and corporate managers will find an unprecedented selection of new and emerging electronics and communications technologies and products from many of the world's leading manufacturers at Southcon/97. The goal for the technical conference is to provide attendees with state-of-the-art information as well as identify future trends in the electronics industry. With the emphasis that has been put forward by industry and government in the Research Triangle Park area with regard to both Computers and Communications technology, it is only fitting that these areas become the focus of the Conference technical sessions. Additionally, sessions are planned for product development / manufacturing and education.

For specific information regarding Southcon/97 contact: Deb Powers at (770) 263-9200 or e-mail: [d.powers@ieee.org](mailto:d.powers@ieee.org) or Jim Howard at (813) 228-4653 or e-mail: [j.howard@ieee.org](mailto:j.howard@ieee.org)

Southcon is sponsored by Region 3 and Florida Council, IEEE and Sunshine Chapter, ERA.

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## *Deborah Powers to receive RAB Leadership Award*

Past Region 3 Director, Deborah Powers has been selected by the Regional Activities Board (RAB) to be the recipient of the RAB "Leadership Award". Deb was selected for her significant contribution and innovative effort in the development and production of the Region 3 Leadership Development Training (LDT) Manual - "The first formal regional training manual". The LDT Manual has been used for nine (9) years in training Region Areas/Area-Councils, Sections, Subsections and Chapters in Region 3. During this period there have been more than fifty (50) separate training sessions, including eight major training sessions held at Region 3 conferences and the Region training program continues to expand each year. The LDT Manual has been used on numerous occasions by other Regions outside Region 3.

Deb developed the LDT Manual in 1988 while serving as the Region 3 Newsletter Editor. Deb realized there was a member need for a more synergistic training program where the volunteers could review the forms and reports a volunteer has to complete while in office and receive a general orientation on the Institute organization. The addition of the LDT Manual to the Region 3 training program has resulted in Region 3 being recognized as an Institute leader in volunteer training and training resources. Deb has definitely accomplished many "Firsts for Region 3" and many of her contributions like the LDT Manual are living testaments - congratulations!

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# THE REGION 3 BULLETIN BOARD SYSTEM STARTS THIRD YEAR OF OPERATION

Did you know, Region 3 is the only IEEE Region which has an electronic Bulletin Board System (BBS) available to its membership? The BBS went operational in January 1995 and is starting its third year of operation. To date, the BBS has averaged over 100 calls per month with approximately 20% of the calls being outside the geographic boundaries of Region 3. When you have a few minutes, log-on and browse the BBS, you will be pleasantly surprised at the breadth of information available.

The primary basis for the BBS is to make information available to those of our members who have a computer and a modem, but not necessarily email or internet access. Region 3 has a toll free number (1-800-555-REG3) for those members living within Region 3 (area code 404 and 770 use 770-446-0740), and members from outside the region are welcome to access it at 770-446-0740.

The Region has allocated menu space to all Region 3 entities so they can have their own remote BBS on toll free phone lines. If your area, council, section, subsection or chapter is interested in utilizing this unique Region 3 resource contact Director Beall at [j.beall@ieee.org](mailto:j.beall@ieee.org) or BBS Sysop, Vernon Powers at [v.powers@ieee.org](mailto:v.powers@ieee.org).

## *Important Addresses and Phone Numbers to Know.....*

R3 Web Site:	<a href="http://sandbox.ieee.org/r03/">http://sandbox.ieee.org/r03/</a>
ETI Web Site:	<a href="http://sandbox.ieee.org/r03/eti/eti.html">http://sandbox.ieee.org/r03/eti/eti.html</a>
ETI Authorization:	<a href="mailto:empaccess.r03@eng.uab.edu">empaccess.r03@eng.uab.edu</a>
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