IEEE Region 3 Newsletter

DIRECTOR'S MESSAGE

Jim Beall

"Greetings from that engineering office down the street." That is from an article written 17 years ago when I was a Society President. It all came back when a fellow Director gave me a copy of that old IAS newsletter, while we were at the Institute Board meetings in mid February. Yes, the picture was younger and the hair darker.

The Institute and it's various entities are fine, in really good shape and doing the things they are expected to do. A big part of that is to look and plan ahead and act for our members on a global basis. To this end we are finally getting the revised bylaws in place. USAB has now chosen its candidates for the first ever popular election of a President of IEEE-USA, which comes into official being 1 January 1998. The candidates for IEEE-USA President 1998 are George F. McClure, Region 3 and John R. Reinert, Region 5.

Also on the ballot for IEEE-USA President Elect 1998 are Paul J. Kostek, Region 6 and Charles S. Lessard, Region 5.

Besides meetings of USAB, RAB, Institute Finance and the Big Board, I sat in on the Educational Activities Board (EAB) meeting. They are pushing ahead with plans to make educational material more easily available through the sections, see an article in the January '97 SCOOP. Dan Jackson will have more information available at SoutheastCon '97.

Getting back to that old society newsletter and what it had to say then is still valid today. Putting it into today's time frame it goes thusly: "As we look forward to the 21st Century, we find a continuing expansion of man's knowledge and desire. To meet this challenge it is going to need all the new ideas and young persons it can gather."

Toward this end I speak to both the senior engineer and the junior engineer just in the door. To the senior engineer I say help these new engineers in their work and encourage their participation in the Institute. To the junior engineer I say dive in - get involved in your work and the Institute. To all I say participate in your local Section and Chapters and in one or more of the many technical conferences held each year. Reach out to your fellow engineers and ask them to join you. To the managing

engineers of industry and commerce, I ask that you encourage active participation by your engineers interested in the activities of the Institute.

The IEEE is for all engineers at all levels. I encourage you to be an active participant in society.

What's Inside......

DIRECTOR-ELECT

Dale Caston

Here are some observations from the recent Region 3 Executive Committee meeting that was held in Columbia, South Carolina on February 1-2, 1997:

It was noted by Director Jim Beall that Region 3 money is available for sections to sponsor special projects. The section may make requests for special IEEE related project dollars that must be approved by the Director. It would be helpful to keep the Area/Council Chair informed on the status of each project.

Each year many sections have extra activities involving Engineer's Week. If your section has an interesting function during this year's Engineer's Week, please include this in your report at the Region Meeting at SoutheastCon. Speaking of SoutheastCon '97, which will be April 12-14 at Blacksburg, Virginia, try to have someone attend from each section. Also, remind the Section Chairs that an annual report is due at this meeting. It may be sent by e-mail to the ExCom at **reg03-excom97@ieee.org**. With this address, our Secretary, Cullen Wright will receive a copy of the section report for the Region files.

Sections Congress 1999 will be held in Minneapolis, Minnesota October 10-13, 1999. It is recommended that each section start this year setting aside some budget funds so that someone may attend from your section. Talk to the person who was at the last Sections Congress in Denver and you will understand the importance of each section having a representative.

As noted elsewhere in this Newsletter, four Engineers from our Region will receive the four major Region 3 Awards that will be presented at SoutheastCon. The Awards and Recognition Committee has done a good job of selecting these candidates. Each section needs a person designated as Awards

Chair with the responsibility to see that the outstanding engineers in your group are nominated for the awards. This is a good time to select such a person for your section so that nominations can be submitted in late 1997.

We were excited to have Wally Reed, Past IEEE President, with us at the EXCOM meeting to assist in presenting 25 year banners to the South Carolina Sections and Council. Congratulations to this group achieving 25 years of IEEE service.

Jim Beall and I along with other Committee Chairs/members will well represent Region 3 at the USAB/RAB/TAB and IEEE Board series of meeting in San Antonio that are scheduled February 9-16, 1997. Many good programs are happening in our region and reports will include these worthwhile programs at the series of Board meetings. Thanks go out to our volunteers that make these programs work. We are looking forward to seeing many of you at SoutheastCon '97 in Blacksburg.

SECRETARY

Cullen Wright

I am happy to announce that the reports for the permanent file for Region 3 are beginning to come through in greater quantity. If you are sending your report to the EXCOM address I will get it and download it to the disk. If you send your report only to the newsletter please tack my name on the address list. Members will be appreciative if you can get your report out 2-4 days in advance of the meeting so that they may read it prior to the meeting. But better still, you will not have to listen to the reports read at the meeting!!!! And, of course, the meeting will be shorter.

TREASURER

Reed Thompson

The financial condition of Region 3 is very sound. We began the year with funds on hand of $189,538. At the Executive Committee meeting February 2, a budget for 1997 was adopted showing planned receipts of $113,385 and planned disbursements of $149,400. This should leave the Region at the end of 1997 with funds on hand of $153,523.

The major items of disbursement are:

Professional Activities and Projects	$32,200
Student Activities	$21,300
Meetings Expense	$15,500
(Includes accounts payable for the Sections Congress held in 1996)	
Publications expense	$11,500
Travel expense - non-student	$40,000
Loans to SoutheastCon	$10,000
Miscellaneous	$18,900
TOTAL BUDGETED DISBURSEMENTS	**$149,400**

I would like to call your attention to the article on Prostate Cancer Information on page 18 of this Newsletter because of the high risk to our male members of contracting this disease and the advantages of early detection when a cure may be possible. Your support of the petition effort initiated by the National Prostate Cancer Coalition to increase research funding for this disease is also encouraged. Please reproduce the petition form as many times as you need to get signatures of family, friends, colleagues, etc. Then return the petition to the address at the bottom of the form.

IEEE

AREA 3
GEORGIA

Bill Harrison

Central Georgia Section

Recent Central Georgia Section meetings included the following presentations: Tom Bedics, a communications engineer with Southern Communications Services (a subsidiary of The Southern Company), spoke on the new Southern Link 800 MHZ digital radio/cellular phone system installed for the Southern Company and subsidiaries and for private use; Don McDowell, with the Air Logistics Center of Robins Air Force Base, made a presentation on the Center's laboratory which supports Air Force's GPS (global positioning system) equipment flown on its airplanes; Jean-Marc Guilloux made a presentation on two very large Adjustable Speed Drives of 100 MW and 50 MW used to control the speed on single synchronous motors. These units are used on wind tunnels for NASA and Boeing respectively.

A Mercer Engineering School design team and student members of IEEE/EMBS entered an international contest for student designs sponsored by the IEEE Engineering in Medicine and Biology Society. The team of Anada Kumar, George Hart, Gene Mercado, and Ryan Bolz designed a device to enable a local therapist to help disabled children improve their memories and writing skills. The device contained 28 infrared sensors & receivers, 28 LEDs, and a sound chip all controlled with a 8751 micro controller. The competition was held in Amsterdam this past October and the team won first place among the competing schools.

Savannah Section

The Savannah section continues to remain strong regarding involvement in the local schools. Ten members serve as judges in the middle and high school levels. We also encourage our members to participate in jobs fairs and mentoring, etc.

Overall, the section remains stable. Of course we are trying to improve our quantity and quality. As a section, we are meeting nine times a year with a break during the summer. Our executive committee meets twice in the summer as well as twice during the remainder of the year to help organize and direct the chapter.

We have found that a mix of technical meetings, plant tours, and non technical meetings work well. Like most sections, the Savannah section incorporates other areas outside are home base. To this end, we have consistently rotated the meeting sites and, when possible, involved other out-lying areas.

Future goals include:

(1) More Region 03 involvement.

(2) Increase (Improve?) our attendance at meetings.

(3) Increase our involvement with the local schools and colleges, especially regarding direct (hands-on) support, such as mentoring.

Some of our past meetings include: (1) Gulfstream Plant Tour (Private jet manufacturer), (2) Inter-marine Plant Tour (Fiberglass yacht manufacturer), (3) Internet updates (including live sessions and on-line vendors), and (4) Savannah River Site status and future planning seminar.

FLORIDA COUNCIL

Osama Mohammed

With the start of 1997, most of the Florida Council officers, 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. Our first meeting for 1997 is scheduled for February 22, 1997. This article is written before the meeting and therefore I will report on the Council's recent activities and future plans for 1997. 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 as well as a Power Engineering Society/Industry Applications Society Chapters were formed at the Jacksonville Section. Additionally, a Computer Society chapter 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. The winners were put as nominees for Region 3 awards. Several other sections have their own awards programs. An example includes the Miami Section which honored two of its members for their distinguished engineering work in industry in a ceremony held especially for this purpose. The council participated in the Engineering and Science Fair with awards carrying IEEE and the council's name. Many Florida IEEE Sections have programs to assist students and enhance membership. 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, and 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 council's 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. Furthermore, 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 next January. We look forward to an exciting year and to reporting on our experiences in future newsletters.

TENNESSEE COUNCIL

Billy Allen

The Tennessee Council consists of members of seven IEEE Sections — Tri-Cities, East Tennessee, Oak Ridge, Chattanooga, Nashville, Middle Tennessee, and Memphis. The Council will have its first meeting for 1997 during SouthEastCon at Virginia Tech in Blacksburg. Council goals to be implemented during 1997 include:

+ Assisting two of the Sections in soliciting volunteers and facilitating election of new officers (By April),

+ Completing start-up of Council Web Page and linking it to Sections currently on the Internet (By June),

+ Instituting the Council Awards Program (By August), and

+ Appointing Nominations Committee for identifying candidates for Council offices for 1998-99 term (By November).

The Sections in the Tennessee Council have had and continue to host several interesting and diverse activities. A brief sampling follows. The Chattanooga Section is averaging three meetings per month due to the active members

in the Computer and Power Engineering Chapters and because of the tremendous support from TVA. The East Tennessee and Oak Ridge Sections jointly sponsored the WATTEC'97 Conference in Knoxville during February 24-26 which included IEEE President Charles Alexander as one of the keynote speakers. The Memphis Section participated in several National Engineers Week activities and will be a sponsor of the Information Technology EXPO during April 29-30. The Nashville Section is in the preliminary planning stages for a conference in late 1997 on the potential commercialization of fuel cell technology.

AREA 6 (AL AND MS)

Perry Wheless

Disastrous weather hit the Huntsville Sections Computer Fair in 1996, but relatively balmy conditions boosted this years event (February, 1997) to an attendance level of nearly 25,000! The Section strives to achieve a balance in the Computer Fair between commercial and hobby, as well as between sales and education. Admission is free to the public. The Huntsville Section uses proceeds from the fair to support the UAH annual entry in the SoutheastCon hardware competition, and to promote engineering-related education in the local area, including several science fairs and other educational projects. Mark your calendar for the 1998 Computer Fair next February. It's an event you don't want to miss and remember, you heard about it here first!

Dr. Stephen Kowel of UAH has become the eighth member in the Huntsville Section to achieve the status of IEEE Fellow. Dr. James Wright is the Sections Outstanding Engineer for this year, and past Section Chair Donna Jean Barker has been rewarded with a major award for her many years of outstanding service to

the Huntsville Section. Our congratulations are extended to this deserving threesome.

There are two subsections in Area 6, one of which is Montgomery. The Montgomery Subsection has benefited from active member participation in selecting and arranging program presentations during the 1996-1997 year. Subjects have included militarized/ruggedized computer equipment (Ed Crowell, Miltope Corporation), the emerging information industry in Montgomery (Patricia Smith), Air Force space roles and missions and their integration into Air Force wargames (Capt. Brent Marley), and planned topics for the spring include the 911 system, SiGe research at Auburn University, GE Plastics, and a talk on contemporary television broadcasting. The Montgomery Subsection meetings have been standardized on the second Tuesday of the month at the Conestoga Steak House in Montgomery. Their report of increasing activity is certainly welcome news. Alan Smith and the Montgomery Subsection folks invite you to visit them whenever you can.

I hope Area 6 will be well represented at IEEE SoutheastCon 1997 at Blacksburg, VA, in April. SoutheastCon and the associated Region 3 activities are important and influential regional events which merit your support and participation. See you there!

SOUTH CAROLINA COUNCIL

Richard Coleman

The SC Council started 1997 with a new slate of officers who began their term of office as of January 1st. January also saw the SC Council hold its first meeting of the year. The Council plans to hold 6 meetings this year with the schedule for the remaining 5 to be March 4th, April 11th, at SoutheastCon, June, September, and November. The exact dates of the last three will be published at a later date.

The Winter Region 3 EXCOM meeting was held in Columbia, SC on Feb. 1 and 2, 1997. The SC Council was instrumental in the preliminary prepara-

tion for this meeting by being the coordinator for acquiring the meeting site and planning for the meeting rooms, meals, etc.

During SoutheastCon '97, Dave Hulett, Past Chair, will be presenting to Region 3 a proposal for the SC Council's Piedmont Section to host SoutheastCon 2000. It has been several years since SoutheastCon has been held in South Carolina and this proposal is an effort to return SoutheastCon to the state.

In February, the council presented 3 awards for outstanding engineering achievement in the State of SC. These awards are:

The *J. W. Lathrop Outstanding Electrical Engineering Educator Award* which is presented to the individual chosen as the most outstanding electrical engineering educator in the State of SC. This year's recipient was Professor Emeritus Joseph S. Byrd of the University Of South Carolina.

The *Wilbur B. Smith Outstanding Electrical Engineer Award* which is presented to the engineer who has provided the greatest contribution to electrical engineering in the State of SC. This year's recipient was Mr. Hernan E. Peña, Jr., an employee with the City of Charleston's Transportation and Traffic Department.

The *Joe Biedenbach Outstanding Industry Award* which is presented to the SC industry chosen as having provided through electrical engineering the greatest benefit to the State of SC. This year's recipient was the West Union, SC Plant of the Schlumberger Electricity and Gas Co.

March 4, 1997 will see the SC Council participating in the Joint Engineering Societies' Joint Engineering Conference at the Swearingen Center at the University of SC. This conference is sponsored by the SC affiliates of the ASCE, SCSPLS, and the IEEE. The conference will be a seminar in which each society will concurrently make four ninety minute presentations. Two of the IEEE presenters will be SC Council members, Lee Stogner and Danny Lee.

Again this year, the SC Council will participate in the CECA Electrical Career EXPO in Columbia, SC. This event will be held in October and is sponsored by the Carolinas Electrical Contractors Association. Its purpose is to enhance the awareness of electrical related careers among high school students.

The Piedmont Section has established a WEB page on the internet. Anyone interested in what is going on in the Piedmont Section can access this page at the address **http://www.carol.net/ieee** The Piedmont Section's newsletter can be obtained via e-mail for those who request it. The SC Council will be pursuing the establishment of a WEB page also.

The closing of the Charleston Naval Shipyard has been the concern of the Coastal SC Section. It has resulted in many engineers losing their jobs. The Coastal Section has responded to this by organizing a "Transition Seminar for Defense Professionals" to aid electrical engineers in seeking new jobs. The downsizing at the Savannah River Site has also resulted in many engineers losing their jobs and relocating to other cities and states. This has caused considerable problems with the loss of many of the active membership of the Savannah River Section. The Section is now in a rebuilding mode and the SC Council is providing any help it can in this effort.

AREA 8
KY/S. IL

Don Hill

The Sections within Area 8 participated in National Engineers Week. The Lexington Section met jointly with the Kentucky Society for Professional Engineers and participated in the lively events at the Engineer's Day at the University of Kentucky. Louisville and Evansville-Owensboro had E-Week events to match.

Our Paducah Sub-Section has made some headway. James Weatherly, professor at Murry State University, has agreed to serve as E-mail contact for Paducah. Through James and a recent newsletter to members in the area, we hope to find enough interest to establish a viable sub-section.

Each section and sub-section has been invited to attend SEC 97 in Blacksburg, VA. We are looking forward to seeing our section leaders at SEC 97 and becoming more informed about how to serve their membership. Of course, attendees will also 'drink' from the fountain of technical knowledge at the conference.

Lexington Section continues to plan for SEC 99. The Hyatt Regency Hotel in downtown Lexington will host the conference. The conference committee continues to plan for the event. Our students and their advisor plan to deliver a working model of the SEC 99 hardware contest at the SEC 98 in Orlando. All future student contestants will get a look at the criteria for the event.

See you in Blacksburg, VA.

AREA 9
JAMAICA

Dennis Hartley

The international conference JamCon 97, which was scheduled for Kingston Jamaica in August, did not gain sufficient response. As a result this conference will be canceled. The Section will now focus its attention on a one day seminar at the Jamaica Pegasus Hotel, in August. It is projected that a Call For Papers will be sent out regarding JamCon 98 and the location and topics of interest will be the same.

There is some success in our effort to recruit students, but the Student Branch at University of Technology (formally C. A. S. T.) is still not up to speed. Plans are in the works to make presentations at this campus, as well as University of the West Indies, Mona.

We are currently participating in the Recognized Educational Programme (REP) and we expect that this effort will assist in the processing of membership applications from the Jamaica Section.

Down-sizing is now a reality in Jamaica and so we continue to forward information to the membership, which can prepare them for this dilemma.

CONFERENCES

David Green

The next conference committee meeting will be in Blacksburg Virginia as part of the Region 3 meetings portion of SoutheastCon '97. At this meeting we will be reviewing the bids submitted for SoutheastCon 2000 and making a recommendation to the Region We also expect to receive the final report on SoutheastCon '96, a report on Southcon '97, as well as discussion on other conferences and committee business.

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. Russell Churchill and his conference committee are planning a great program for attendees. 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. We thank Director Beall who recently traveled to Blacksburg VA to interact with the SoutheastCon '97 Conference Committee.

The Technical Program consists of 89 contributed papers, 15 invited papers comprising three half-day mini-symposia and eight tutorials. The mini-symposia will be on Wireless Communications, Fiber Optics and Power electronics and are included in the professional registration fee. The conference will also have exhibits by major communications service and equipment providers, information about Virginia Tech campus communications, and tours of Virginia Tech research laboratories. It should be a great conference — publicize it to your con-stituencies and make plans to participate!

You can get more information about the conference visiting the conference web site at **http://www.vt.edu:10021/ org/ieee/secon97/** and information elsewhere in this newsletter.

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 complete with the Hyatt Regency Hotel in downtown Lexington for SoutheastCon '99. Following final approval by the Region, SoutheastCon '99 will have its site under contract. The committee's next actions are to revise its budget and obtain conference insurance.

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 on March 25-27, 1997. This will be the first visit to this area for Southcon and this show represents a major investment in effort by IEEE and ERA volunteers in the area.

Other Items

At the Winter meeting of the Region 3 ExCom, SoutheastCon Chair Charles Lord presented the region with a final financial report on the conference and a check for the remainder of the surplus due the Region from the conference. Charles and his crew are to be congratulated for their efforts on this fine conference. Also at this meeting, Charles Lord on behalf of the Eastern North Carolina Section and NCSE '93 submitted a check which was accepted by the Region as repayment of the loan related to NCSE '93.

When planning a conference event, remember that these conferences are a benefit for members of IEEE. Strongly consider the price differential between non-member and member attendance charges to reflect the benefits of IEEE membership. IEEE policy is that a registration fee for non-members should be significantly more (25-50%) than the registration fee for IEEE members. Members of the Founding Societies (in Engineering Areas, write me for a list) have a reciprocal agreement entitling their members to the member registration fee at IEEE conferences. You may allow (with the approval of your conference committee) the application of the fee differential towards IEEE membership enrollment.

SoutheastCon Schedule

Conference	Date	Host Section/Branch	Conf Chair
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	Lexinton/Univ. of KY	Donald Hill
Southeastcon '2000	<<to be decided at R3 meeting in Blacksburg, April 1997>>		

SoutheastCon E-mail Contacts

Conference	General Chair	Student Conference
Southeastcon '97	arcova@bev.net(*)	vlearn@vt.edu
Southeastcon '98	pfw@engr.ucf.edu	rfd@engr.ucf.edu
Southeastcon '99	dhill@uklans.uky.edu	sb.uky@ieee.org

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

If you take this option, consult the IEEE Membership Services Department for details.

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 '97 Chair and the Florida Council's senior representative respectfully. Dave Hulett has been appointed as the corresponding member from the South Carolina Council and William Harrison represents Area 3. 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

What Educational activity, in addition to section and chapter meetings, has your section held in the past year to bring continuing education and professional development opportunities to your members? These programs can be technical in nature or non-technical such as management or personal development. There is an IEEE Section Education Chairs Guide to Planning Successful Educational Programs with guidelines for organizing the activity and an overview of available resources. One of the most recent programs is a workshop on the CAREER ASSET MANAGER (CAM) which engages participants in the CAM Planning process. A section can obtain copies of CAM on consignment and make them available to its members at no financial risk to the section. Also available are materials to run half day, full day, or multi-day seminars on many topics. A check of the IEEE Educational Products Catalog 1997, the 1997 IEEE Catalog, or the 1997 Standards Products Catalog will uncover many products which could be used for your members' life long learning programs. Now is the time to take ideas to your Section executive committee to

get a seminar into the schedule for the 1997-98 year. You can earn additional income for your section in addition to the service to your members. If you have questions about getting started contact Dan Jackson, **d.jackson@ieee.org**, (540)774-0484, or Barbara Coburn, **b.coburn@ieee.org**, (908)562-5498.

MEMBERSHIP DEVELOPMENT

Jim Howard

SAMIEEE

Hopefully all Sections have renewed their request for their membership diskettes for 1997. If you have not renewed your subscription to the SAMIEEE program please contact the SAMIEEE coordinator at 908-463-9359 or email at **samieee@ieee.org**

With the updates for March, these diskettes will prove to be very helpful in your membership drives. Your MD Section Chair can use this information to determine the members that have gone into arrears and contact them to determine why they may not have renewed their membership. It may be as simple as an oversight or as complicated at a loss of job, etc. Remember to share with them these key factors:

+ 1/2 price dues for loss of job,
+ only cost $10 or less per month to be a member,
+ largest professional organization in the world,
+ you WANT them as members of your Section!!!

MD Items

Don't forget to check out the MD item listing, elsewhere in this newsletter, for use in MD drives, speaker gifts, and many other uses.

IEEE

PROFESSIONAL ACTIVITIES

Dick Riddle

In my view, the move to make USA a stand alone entity within IEEE has prompted the various USA Councils and Committees to start establishing common projects to provide additional and improved benefits and services to our US members and to focusing on making the IEEE membership within the United States aware of what the USA entity is providing to and for the US member.

There is no doubt in my mind that layoffs and downsizing will continue for many years. Recently we have been informed that a major telephone and communications company is in the process of out-sourcing many of the engineering functions to outside contractors. This action may create some contract jobs for those engineers that are caught in the layoff but you can bet that they will be hired at reduced benefits and salary. In that regard, I have proposed that a quick response team be created by IEEE-USA PACE, Career Maintenance & Development Committee (CM&DC), and Employment Assistance Committee (EAC) to assist and provide services to our members who may be effected by such actions. What I envision is that our local PACE people will alert the team that a layoff or downsizing is pending within his/her area and start negotiations with the effected company by making them aware of the services that IEEE USA can provide. The next step is to provide a two day on-site workshop. The first day will be conducted by the CM & DC who will cover the emotional issues of career transition. The second day will be conducted by the EAC who will deal with resume and job search techniques. The local PACE representatives will be identified as the key contact point for IEEE-USA during and following the workshop. Some

of the benefits from such a venture could be an increase in the awareness of the value of membership in IEEE-USA by both the member and the effected company. I feel the resulting positive PR benefits within the electrotechnology industries will be invaluable. With the proven positive results this concept could be marketed as an outplacement function and could produce a revenue for USA.

Jim Robertson, IEEE San Francisco PACE Chairman has proposed that the IEEE USA develop a special program for the over 50 job seeker. He has challenged several committees in the Career Policy Council and the EAC to work together and tailor a program that meets the needs of our over 50 members that are finding it more and more difficult to remain employed and to find employment. I feel that the results of a recent survey conducted by USA-EAC supports that concern. A survey of IEEE members who reported they were unemployed in 1995 and found employment in 1996, indicated that 48% felt that age had become an employment liability. Only 10% or less felt that their education, ethnicity, sex, or disability had been a barrier to employment. Another interesting finding is the close relation between age, years of experience, and duration of unemployment. Each additional year of age adds 1.6 additional weeks of unemployment; and each additional year of experience is associated with 1 additional week of unemployment.

What does all of this have to do with Region 3's Professional Activities Operations Committee (PAOC)? In Region 3, the PAOC was created to be and is the focal point for working with the various USA committees which should address these issues. Over the next few weeks each PAOC member will be asked to contribute to the solution of these issues. The meetings and workshops at SoutheastCon will be our test-bed. Lee Stogner is developing an interesting and informative agenda for the PACE workshops. Don Hill and I are working on the PAOC meeting agenda which should cover a few exciting issues. Vernon Powers, Dave Green, and Pat Donohoe are working on a major national publicity campaign to let every student and professional know about our ETI database.

PUBLIC INFORMATION

Bob Duggan

Don't forget to order your 23-page "Publicity Guide for IEEE Sections, Chapters, and Branches" from IEEE Corporate Communications. R3 entities desiring a copy should address their request to **corporate_communications@ieee.org** or to (908)562-6820.

Most importantly, though, your P.I. Committee is willing to advise and assist Region 3 Sections, Committees, and Conferences in enhancing our external relations for the benefit of our region.

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 presented a time-line for annual 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
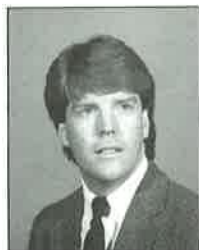
at the Fall ExCom meeting in the odd years. This updated Strategic Plan along with the Director's specific G&Os will be sent by the Regional Director to the Executive Committee including all Standing and Ad Hoc Committee Chairs for their use in generating Specific Committee G&Os by the dates given in this timeline (which concept was approved by the Executive Committee at the Winter ExCom in Columbia). This time line will be sent out with the minutes of this meeting and will be discussed fully at the Committee Chair and Vice-Chair training session at SECon '97 in Blacksburg.

2. Strengthening our volunteer and committee structure for Region 3 operation - The SPC has proposed a program for improving our committee operations. This involves having 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.

This training manual will be used in our first training session for committee chairs and vice-chairs of all Region 3 ExCom standing and ad-hoc committees at SECon '97 in Blacksburg on Friday night April 11, at 7:30 PM. Thanks to Vernon Powers for his extraordinary efforts in pulling this outstanding training manual together in a very short time.

STUDENT ACTIVITIES

Pat Donohoe

SoutheastCon '97 is just around the corner (April 12-14) in Blacksburg, Virginia. The Virginia Tech Student Branch has put together a Region 3 Student Conference program which covers a broad spectrum and has something for all students. The Student Conference program includes a student paper competition, a student hardware competition and a student software competition. In addition to these competitions, for the first time there will be an IEEE Region 3 Webpage Competition in conjunction with SoutheastCon '97. Each IEEE Student Branch registered for SoutheastCon '97 may submit one page for their student branch. The entries will be judged by an outside source during the weeks prior to the conference and the winner and other entries will be displayed at the conference. The judging criteria and associated scoring weights are (1) user friendliness = 10%, (2) links =10%, (3) content = 25 %, (4) creativity = 25% and (5) technical merit = 30%. The webpage competition allows students who are not able to travel to the conference to participate and develop Internet resources within individual student branches.

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 a head-to-head competition where each team gains points by collecting balls located at polar coordinate intersections on the playing board. The playing board will contain three different types of balls with different point values. The software competition is a short-term project which does not require extensive pre- conference preparation on the part of the Student Branches who compete. This 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. For more information on these contests, consult the SoutheastCon '97 webpage at **http://www.vt.edu:10021/org/ieee/secon97/**

The various Region 3 Student Awards will be presented during the SoutheastCon '97 Awards Luncheon. In addition to awards for the SoutheastCon

Region 3 Email Addresses
Send your messages to listname@ieee.org

Listname	Description
coun-florida	Florida Council
coun-northcarolina	North Carolina Council
coun-southcarolina	South Carolina Council
coun-tennessee	Tennessee Council
coun-virginia	Virginia Council
reg03-area3	Region 3 Area 3
reg03-area6	Region 3 Area 6
reg03-area8	Region 3 Area 8
reg03-area9	Region 3 Area 9
reg03-awards	Region 3 Awards
reg03-communications	Region 3 Communications
reg03-conf	Region 3 Conferences
reg03-eac	Region 3 Educational Activities
reg03-excom97	Region 3 ExCom 1997
reg03-mdc	Region 3 Membership Development
reg03-pace	Region 3 PACE List
reg03-pao	Region 3 Professional Activities Operation
reg03-secon97	SouthEastCon '97
reg03-spc	Region 3 Strategic Planning
sec-r03	Region 3 Email Liaisons

student competition winners, other awards to be presented include the Larry K. Wilson Regional Student Activities Award, the Region 3 Outstanding Branch Counselor / Advisor Award, and the Exemplary Student Branch Awards. For the first time, Region 3 will select a single "Outstanding Region 3 Student Branch" from the Exemplary Student Branch Award winners.

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. This newsletter has several columns on our present projects, including the Region 3 Bulletin Board System. Region 3 has a Home Page at

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

R3 Web Site:
http://sandbox.ieee.org/r03/

ETI Web Site:
http://sandbox.ieee.org/r03/eti/eti.html

ETI Authorization:
eti-info@eng.uab.edu

Region 3 BBS:
1-800-555-REG3

Region 3 BBS in Atlanta:
1-770-446-0740

CALL FOR NOMINATIONS for 1998 REGION 3 EXECUTIVE COMMITTEE (EXCOM) and POSITIONS SUPPORTING THE 1998 REGION 3 EXCOM

During 1997, the Region 3 Nominations Committee has the responsibility of assisting Delegate/Director-Elect Dale C. Caston in developing a list of candidates to fill (a) the appointed positions on the 1998 Region 3 Executive Committee (EXCOM) and (b) the numerous appointed positions within the Region that support EXCOM activity. The following 15 positions are to be filled by appointment on the 1998 Region 3 EXCOM.

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 R3 Director) Student Activities Chair
Regional Student Representative

Supporting positions to be filled by appointment include (1) Committee Vice Chairs; (2) Sub-Committee Chairs in the areas of Awards and Recognitions, Communications, and Professional Activities; and (3) Chairs for special activities such as Leadership Development, the Nominations Committee (must be recent Past Region 3 Directors), and special review committees.

Each nomination should contain the following information.
　　Name
　　Professional Affiliation and Title
　　Business Address, Telephone, FAX Number, and E-Mail Address
　　Residence Address, Telephone, FAX Number, and E-Mail Address
　　List of Nominee's Activities at the Region Level Pertinent to the Position for
　　　Which the Nomination is Being Made
　　List of All Service by the Nominee (Including Dates)
　　　On the Regional Level,
　　　At the Area/Council Level,
　　　At the Section Level,
　　To the Engineering Profession through Non-IEEE Activities and Organizations, and In the Community That is Related to the Position for Which the Nomination is Being Made
　　Nominator's Signature and Date

Nominations should be mailed to the following address.
Dr. David A. Conner, P.E.
4605 Summit Cove
Hoover, AL 35226-4207

Questions should be directed to the Nominations Committee Chair via E-Mail to **d.conner@ieee.org**.

http://sandbox.ieee.org/r03/

I want to express my appreciation for all the hard work David Lee has done with the Region 3 homepage. He has invested many hours getting the site going several years ago, and many more maintaining it. I have heard lots of positive comments from Region 3 members regarding the homepage. Brian Swail is now maintaining the site, and he may be reached at **b.swail@ieee.org**

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.

LEADERSHIP TRAINING

Cullen Wright

The training sessions went well for 1996 and I expect even better this year.

So far for 1997 we have sessions lined up at Southcon and SoutheastCon. For the first time we are inserting disks into the manual to replace hard copies of much of the IEEE material such as the IEEE *Constitution*, *Bylaws*, the *Policies and Procedures*, and other documents. The vehicle will be via the ROOT'96 format for Windows in two disks. Also, we are including two disks for the new "Region 3 Awards and Recognition Manual" , one disk for Word 6.0 (Windows) and one disk for WordPerfect 6.1 (Windows). The disks are meant to complement rather than supplement the voluminous material available through IEEE. Use of the disks will reduce the size of the present manual.

Groups are reminded to consider setting up training sessions dates when there will be a significant number of members present - such as Area or Council meetings.

IEEE

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 19.

NAME_____ Date_____

Member #_____Section_____

SHIP TO: _____

_____

_____

IEEE

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		$_____

BELUR V. DASARATHY, PH.D., TO RECEIVE OUTSTANDING ENGINEER AWARD

Dr. Belur V. Dasarathy is Senior Principal Engineer Staff to the Executive Vice President of Dynetics, Inc., an engineering research and development company in Huntsville, Alabama. His current major responsibilities are in research, development, task/project management and marketing activities in the area of intelligent decision system applications. Belur has served both as principal investigator and project manager on several Dynetics contracts. For many years prior to his employment with Dynetics, Belur served Intergraph Corporation in Huntsville as a Senior System Consultant/Senior Technical Manager.

Dr. Dasarathy's fellow engineers have benefitted from his knowledge through his publications. Within the past six years, he has authored three books, all of which were published by the IEEE Computer Society Press. In addition, he has published more than 150 technical papers. Dasarathy has made fundamental contributions to the fields of pattern recognition, image processing, decision theory and sensor fusion by developing innovative concepts and computationally efficient algorithms for design of automated intelligent decision systems in the context of numerous defense, civilian and commercial applications. Examples include target recognition systems for the Department of Defense, remotely-sensed data processing systems for NASA and commercial use, symbol/character recognition subsystems for commercial map/drawing scanning systems, and others.

Belur has been an IEEE member since 1969, attaining senior member level in 1976. He was instrumental in initiating the Computer Society chapter within the IEEE Huntsville Section in the mid 70s. Dr. Dasarathy chaired and helped organize one of the first IEEE-sponsored Computer Fairs in Huntsville during the early 80s. This Fair has become a professionally organized annual event. He has served the IEEE Huntsville Section in various capacities, including Chair, Vice-Chair and Editor of the Section Newsletter. He is a reviewer for several IEEE non-IEEE journals. Additionally, he is Guest Editor of a Special Issue series on Sensor Fusion which is published by SPIE. Belur was recently appointed to the IEEE Computer Society Technical Advisory Board.

Belur V. Dasarathy is being presented the Region 3 Outstanding Engineer Award for his contributions and achievements in artificial intelligence technologies, most notably in the areas of pattern recognition and learning, decision theory, image analysis, sensor fusion and fuzzy logic.

DAVID G. GREEN TO RECEIVE JOSEPH M. BIEDENBACH OUTSTANDING ENGINEERING EDUCATOR AWARD

David G. Green is an Instructional Associate Professor of Electrical and Computer Engineering at the University of Alabama at Birmingham (UAB), where he has been employed since 1981. From 1976-1981, Dave was with the Department of Electrical Engineering at the University of Alabama in Huntsville (UAH). Engineering education has been his passion, as well as his profession, for more than 20 years.

Mr. Green has been active in IEEE on many levels: national, regional, sectional, chapter, and student branch. A few of his activities include: member of Regional Activities Board (RAB) and Educational Activities Board (EAB), RAB and Region 3 Student Activities Committee Chair, Region 3 Conference Chair and Treasurer, Alabama Section Prize Paper Committee, Huntsville Section Chair and Industrial Applications Society Chapter Chair. Dave received the Region 3 Outstanding Service Award in 1995.

Dave's teaching abilities were recognized by UAB when he was chosen to receive the President's Award for Excellence in Classroom Teaching in 1991 and in 1996. The University of Alabama in Huntsville selected Mr. Green for its Outstanding Faculty Member Award in 1980. As a teacher, Dave remains abreast of the changing technical content of the courses he teaches. He illustrates course concepts with examples of real world applications. His method of teaching is clear and concise. In short, Mr. Green is able to maintain his students' interest without sacrificing content. He has interacted with students as a Branch Counselor for many years, UAH (1976-81) and UAB(1982-present), and was recognized as an IEEE Outstanding Branch Counselor in 1981.

Beyond his full-time teaching duties at UAB and his generous donation of time and effort to IEEE pursuits, Dave has developed and delivered courses and course materials for such customers as BellSouth, NASA Marshall Space Flight Center and Universal Data Systems. In addition, since 1983, he has reviewed textbooks in the areas of industrial control, software, electronics, and digital systems. Mr. Green has also published 17 technical papers since 1980.

David G. Green is being presented the Region 3 Joseph M. Biedenbach Outstanding Engineering Educator Award for his dedication to furthering engineering knowledge through education.

DEBORAH M. POWERS TO RECEIVE OUTSTANDING SERVICE AWARD

Ms. Deborah M. Powers is employed by EMS Technologies, a division of Electromagnetic Sciences, Inc. in Atlanta, Georgia. She is a Staff Engineer responsible for commercial and defense electronic manufacturing.

Debbie joined IEEE as a student member in 1977, became affiliated with a Section upon graduation, became a senior member in 1993, and has been tireless in her support of IEEE pursuits since day one. Ms. Powers has served on many Region 3 committees and has held numerous offices, including Director in 1994-95.

Ms. Powers' greatest contributions to the Region have been in the area of communications. From 1986-92, Debbie served as the Region 3 Editor. As such, she transformed the newsletter from a "one-page Xerox" format into a multi-page, professionally produced and printed newsletter of which all members can be proud. The quality of this "redesigned" newsletter, as well as its broad distribution, not only to its regional members but also to the Institute level, represented another "First for Region 3."

Having put paper to its proper use, a newsletter for posterity, Ms. Powers set out, as Director, to abolish the unnecessary use of paper. She supported the development of and provided the project management for the customization of the Bulletin Board System (BBS) hardware and software for Region 3. The BBS represents the only single-point source where all available Institute information is archived and made available to IEEE members.

Debbie identified a need for the creation of a committee to oversee all forms of communication within Region 3. Accordingly, in 1995, the Region 3 Communications Committee was established. Initiatives sponsored by this committee have resulted in Region 3 being recognized by the Institute as the most progressive and innovative Region in communicating with its membership. It is, in large part, due to Powers' guidance, insight and expertise that Region 3 has become a part of the "information super highway," while preserving the past through its excellent newsletter.

In recognition of her many and varied contributions to IEEE, Deborah M. Powers is being presented the Region 3 Outstanding Service Award.

CLARENCE "LEE" STOGNER TO RECEIVE PROFESSIONAL LEADERSHIP AWARD

Mr. Lee Stogner is the Principal Consultant of Fluor Daniel Consulting in Greenville, South Carolina. Lee has been active in IEEE since 1974. While he has served IEEE in many positions at several levels, Lee has focused his activities on professional leadership. Through his tireless efforts, the Professional Activities Committee for Engineers (PACE) has served engineers at the Piedmont Section, South Carolina Council, Region 3 and national levels. Lee currently serves as the Pace Editor of IEEE Perspectives.

Perhaps Lee's most enduring and innovative contribution has been to enlighten IEEE members to the value of the Internet. The Internet is more than a static reference tool. Mr. Stogner has developed and presented Internet training courses at Southeastcon and the PACE National Workshop for the past three years. An integral part of this training is guidance on establishing a Web page. More importantly, PACE officers can use these materials to conduct training sessions in their section, area/council or region. Lee is currently developing an IEEE video network which will allow interactive conferencing.

Lee's Internet training does not end when his course does. He has provided many hours of support via E-mail and the telephone for members as they begin to use the Internet. There is inestimable value in being able to pick up the phone and ask someone who both understands and can answer your question on the spot. In view of his technical and teaching abilities, Lee has been asked to develop ways to improve communications between the United States Activities Board (USAB) and its members.

Mr. Lee Stogner is being presented the Professional Leadership Award in recognition of his service to IEEE, his technical knowledge, his ability to convey that knowledge, and his willingness to share it with IEEE members at all levels.

Southcon®/97

March 25-27, 1997 • Raleigh Civic & Convention Center • Raleigh, NC

Exhibit Hours
Tues., Mar. 25 - 10:00 to 6:00
Weds., Mar. 26 - 10:00 to 6:00
Thurs., Mar. 27 - 10:00 to 3:00

Conference Hours
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

Workshops and Short Courses

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

7-90114

☐ **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	☐ FA	☐ FB
1,000-4,999	☐ FC	☐ FD
500-999	☐ FE	☐ FF
100-499	☐ FG	☐ FH
50-99	☐ FI	☐ FJ
20-49	☐ FK	☐ FL
6-19	☐ FM	☐ FN
1-5	☐ FO	☐ FP

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

TIME IS RUNNING OUT!
JOIN ALL OF YOUR FRIENDS AT
IEEE Southeastcon '97
REGISTER TODAY AND SAVE

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 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.

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. *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!*

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

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

YES, I would like more information about Southeastcon '97 and a registration form!

*(Clip and send to: **Southeastcon '97 Registration Information, Electrical Engineering Department, Virginia Tech, 340 Whittemore Hall, Attn: Dr. Ira Jacobs, Blacksburg, VA 24061-0111**)*

Name: _____

Address: _____

City: _____ State/Zip: _____

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 e-mail 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 or BBS Sysop, Vernon Powers at v.powers@ieee.org .

UAB takes the lead on ETI Database Phase 5

The University of Alabama at Birmingham (UAB) Student Branch has taken the lead in updating the database which now includes over 35,000 companies in 50 states. The ETI Database Phase 5, approved by the Region 3 Executive Committee at their February 2, 1997 meeting in Columbia, SC. will consist of three primary tasks: continuous system improvement, expansion of database, and public information initiatives. If you require additional information please contact the Region 3 Special Projects Coordinator Vernon Powers at v.powers@ieee.org or PAOC Chair, Dick Riddle at r.riddle@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; Region 3 Special Projects Coordinator Vernon Powers at v.powers@ieee.org or PAOC Chair, Dick Riddle at r.riddle@ieee.org

Region Special Projects to be Demonstrated at SECON '97

For those members interested, the Region 3 Bulletin Board System (BBS), Electro-Technology Industry (ETI) Database and the Automated ConsultantsÆ Network (ACN) will be demonstrated during the Professional Activities Operation Committee meeting on Saturday, April 12, 1997, at SoutheastCon '97. There will also be discussions addressing the merit, sustaining activities and system enhancements for the projects as well as new initiatives Region 3 should consider developing. Check your SoutheastCon '97 Program for time and meeting room location.

Prostate Cancer Information

1. Incidence: In 1996 an estimated 317,000 new prostate cancer (PC) cases were discovered in the USA and an estimated 41,400 men died from the disease. Autopsy studies have shown that PC is present in 15% to 30% of men over age 50 and in 60% to 70% of men over age 80. It is prudent to assume you will have this disease and that you monitor yourself to avoid progression to incurability.

2. Cause: Age is the predominate risk factor. The actual cause of PC is unknown. Progression of the disease seems to be related to a high fat diet. Men with one first degree relative (father, brother, son) who has the disease are at 2.5 times greater risk.

3. Screening: The American Cancer Society recommends that every man over 50 have an annual Digital Rectal Exam (DRE) and a Prostate Specific Antigen (PSA) blood test. Those with a diagnosed first degree relative should start screening at age 40. Routine screening is estimated to be able to raise the potentially curable PC found from the present 40% to more than 95%. PSA Reference Ranges are (Age/Range): 40-49/0.0 - 2.5; 50-59/0.0 - 3.5; 60-69/0.0 - 4.5; 70-79/0.0 - 6.5.

4. Diagnosis: High PSA may be caused by prostate infections, benign prostate hyperplasia (BPH), or PC. Tests are available to rule out infections and BPH. If they are not present, a TRUS guided prostate biopsy is recommended to obtain samples of the prostate cells for pathological examination. If cancer cells are found, the pathologist will grade the cells on a Gleason scale from 1 to 5 with 5 being the most aggressive, least differentiated cells. It is customary to grade the most prevalent population of cells and the second most prevalent population and to add these two grades together for a Gleason score, for example: $2 + 3 = 5$. Gleason scores of 2 to 4 relate to the least aggressive cancers, scores of 5 to 7 relate to moderately aggressive cancers, and scores of 8 to 10 relate to most aggressive cancers. The urologist can combine the diagnostic information into a clinical staging specification using either the Whitmore-Jewett scale (A,B,C,D) or the TNM scale.

5. Treatment: There is no consensus in the medical community about the most effective treatment. It is therefore prudent for each man diagnosed to take an active role together with the physicians in deciding on and monitoring the specific treatment for himself. This will require learning about the treatments available, the potential side effects and the long term outlooks.

Treatment options are different for organ confined disease and metastatic disease. You or your urologist can calculate the probability of organ confined disease using the Partin Tables. Organ confined disease is potentially curable. Surgery to remove the prostate, external beam radiation to the prostate, or implanting of radioactive seeds in the prostate (brachytherapy) are most often suggested as the choices. Many advanced doctors suggest a 6 to 8 month course of hormone therapy prior to and immediately following these procedures to improve the outcomes. Cryosurgery is being done by some doctors. It is important to select an "artist" to perform any of these procedures. Older men with the least aggressive cancers and/or comorbidities may do "Watchful Waiting".

Metastatic disease is not curable by any presently known technique. Disease progress can be slowed in about 75% of men by use of hormone therapy which consists usually of either an orchiectomy or an LH-RH agonist combined with an antiandrogen. This treatment is usually effective for 2 to 10 years after which the cancer becomes refractory. Various chemotherapy treatments are being evaluated but, so far, none has demonstrated a high success rate.

6. Comparative Research Funding by the US government in 1996 for three diseases is reported as:

	Prostate Cancer	Breast Cancer	AIDS
New Cases	317,000	184,000	72,000
Federal Funding	$80M	$550M	$1,620M
Deaths	41,400	45,000	51,000
$/death	$1.93k	$12.22k	$31.76k

Additional information is available at **http://rattler.cameron.edu/prostate** or write Johns Hopkins White Paper - Prostate Disorders, P. O. Box 420083, Palm Coast, FL 32142 (about $20 cost).

PETITION TO THE PRESIDENT OF THE UNITED STATES
and The Members of the United States Congress

From the National Prostate Cancer Coalition

We join with the National Prostate Cancer Coalition and call upon the President of the United States and Members of the United States Congress to commit to eradicating prostate cancer, the leading form of cancer in men by increasing funding for research and making prostate cancer a national priority.

It's time to eradicate prostate cancer. Please sign below.

Name   Signature
Address
City   State   ZIP

Add your personal message here:
Please check: __I am a survivor ___I am a supporter
__ Send me information about the National Prostate Cancer Coalition and what more I can do to help.

Name   Signature
Address
City   State   ZIP

Add your personal message here:
Please check: __I am a survivor ___I am a supporter
__ Send me information about the National Prostate Cancer Coalition and what more I can do to help.

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