## *Message to Region 3 …*

Director's Message

William Ratcliff
Region 3 Director
2008-2009

Ratcliff's Remarks (star date2008.08)

In keeping with the Direction of Region 3 and the transformation to the new member paradigm, this installment of Ratcliff's Ramblings uh er Remarks is aimed at "engagement". Engage is a verb and involves a pledge, an obligation or agreement. The following rough graphic seems to reflect the concepts embodied in the type of engagement we are progressing toward in IEEE.

Bond   **Commit**
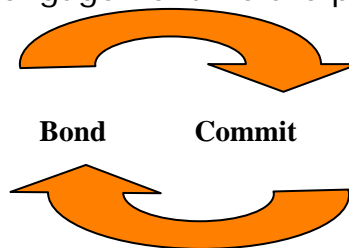
This model represents how engagement is strengthened once internalized by an individual member but which comes first the bond or the commitment? Otherwise this becomes a Catch 22.

Inside this issue of Region 3 Newsletter

Director's Message (cont.)

This is where you come into the picture. You and I have already made some commitments to IEEE and the members. So, it is up to us to engage the remainder of the members and develop the initial bond.

In the correspondence, discussion forums, blogs, etc that will follow we will unfold the mechanisms to accomplish engaging the members and begin the process of the growth and development of all members … yes including our growth and development too!

In the mean time if you have thoughts on engaging the imaginations, the spirit and the willingness to join in the work of IEEE drop me a line… w.ratcliff@ieee.org.

Remember …
    Engagement is not for spectators… it is a contact activity!

See you on the Net!

William Ratcliff
Director Region 3

Region 3 Employment Assistance
Message from the Director Elect

The economy continues to shed people at all levels. To support Region 3 members in case they need to make a career change, we have created a Region 3 Employment Assistance web page at,

www.ieee.org/r3jobs

This web page has career information and a growing base of links to information that can help you write a resume, prepare for an interview and find job openings. If you are not aware of potential companies in your area or an area that you would like to move to, the web site has a Company Directory download. To use this feature, enter your geographic query into the online form. The company directory will then be emailed to you within 24 hours. We can provide more company detail with a focused request such as a city, county or zip code. Please don't ask for an entire state.

We're making constant additional updates to the site. Please let me know of any additions you would like to see especially in the "Area" job link pages.

We also have a dedicated resource for working one-on-one with members. His name is Carl Hussey and can be reached at, c.hussey@ieee.org

Carl is the Region 3 Representative to the IEEE-USA Career & Employment Assistance Committee and can detail a full range of employment support for IEEE members.

The best way to find a new job is through "networking". Please be aware of what jobs are open within your company and bring that list to your next Section meeting. Remember, the person you help this year can help you in the years to come.

Thanks,

Lee Stogner, PMP
Region 3 Director Elect 2008 - 2009
Email: l.stogner@ieee.org

Region 3 Life Members

How does a member become a Life Member? When a member has reached the age of 65 or more and has been a member of IEEE for such a period that the sum of the member's age and years of membership equals or exceeds 100 the member becomes qualified for IEEE "Life "status. In the fourth quarter of the year that the member becomes qualified they will be notified that are qualified for Life status and that it will be effective 1 January of the following year. The benefits of Life Member are many, but the primary benefit is that they no longer are required to pay annual dues to remain an active member. However, Life Members are required to renew their membership on an annual base by mailing in their membership renewal form or using the on-line service.

Becoming a Life Member does not mean that you hang up your career or service to IEEE. Many of our Life Members continue to serve in leadership positions at the Institute, Regional, Section and Chapter level. Sections still receive the annual rebate for each active Life Fellow, Life Senior, and Life Member. When a Life Member becomes Inactive not only is it a financial loss to the Section but it is also a loss of a member who has been a member of IEEE for more than 35 years.

Based on a July 30, 2008 SAMIEEE report, Region 3 has 3,403 Active Life Members. In addition we have 772 Life Members who have become Inactive for a verity of reasons. We feel that one way to reduce the number of Inactive Life Members is to form a Life Member Affinity Group within each Region 3 Section. We have been pursuing this goal over the past few years and have made some progress. The following Sections have established Life Member Affinity Groups: Atlanta, Charlotte, Daytona, Florida West Coast, Louisville, Melbourne, Palm Beach, and Winston Salem. How will forming a Life Member Group reduce the loss of Life Members? Recently you have heard a lot about engaging the member. Through the formation of Life Member Groups Life Members have an opportunity for engagement with other Life Members and to develop programs and projects that are of particular interest to them that may or may not be of interest to others.

We recently sent a message to all Region 3 Section Chairs encouraging them to develop a Life Member Affinity Group within their section. For information on how to do it, we also gave the URL for the IEEE Life Member Groups web page as follows:

http://www.ieee.org/portal/pages/committee/lmc/lmchapters.html

Our Region 3 web site at URL: http://www.ewh.ieee.org/reg/3/ also gives links to additional Life Member information. (see: **IEEE Life Membership & Life Member Fund)**

If you are interested in forming a Life Member Group in your section or have questions please contact me.

David McLaren
Region 3 Life Member Coordinator
E-mail: d.mclaren@ieee.org
Phone: 727 531-1733

Woman of Distinction

Our own Tzawe Wang has been selected by the Girl Scout Commonwealth Council of VA, Inc. as the 2008 Science and Health honoree for the 8th Annual Women of Distinction dinner. The event will be held on Tuesday evening, September 23rd at Jepson Alumni Executive Center, 1119 Hanover Street, University of Mary Washington, Fredericksburg, 5:30 p.m.-8:00 p.m. Tzawe is a Systems Engineer at the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), designing radar and signal processing simulations. She is a member of the Girl Scout Commonwealth Council of VA, Inc. Board of Directors, as well as being a leader in the Richmond sections of the IEEE and WIE. Tzawe is an active volunteer with the IEEE GirlsGoEngineering.org Project. Region 3 Senior Member Lynn Simms was the 2004 honoree. Please join us in congratulating Tzawe!

Tzawe Wang (right) helping with a member from the GirlsGoEngineering.org Project.

30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society

CW Optics presented the following four oral presentations at the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (embc2008.com) held in Vancouver, Canada (Aug. 20-24, 2008):

* Use of Relaxation Time as a Marker for Arterial Distensibility
* Measurement of Sublingual Blood Velocity as a Tool for Monitoring Sepsis
* Application of Raman Scattering to the Measurement of Ligament Tension
* Wireless Application in Intravenous Infiltration Detection System

Dr. Aftab Ahmad (Norfolk State U.), Dr. Anton Riedl (Christopher Newport U.), and Jason Naramore and Nee-Yin Chou of CW Optics are planning to submit a paper titled "Channel Access Comparison of IEEE 802.11-2007 and IEEE 802.15.4-2006" to the 27th IEEE International Performance Computing and Communications Conference" (ipccc.org\ipccc2008) to be held in Austin, Texas, Dec. 7-9, 2008.

Jason Naramore
Biomedical Engineer
CW Optics, Inc.
757-872-4000

IEEE – IEEE MISSISSIPPI SECTION

The Mississippi Section meeting notices are sent by U.S. mail on postcard and IEEE eNotice to the over 600 members. All IEEE members and guests are welcome. Meeting locations and details are shown on the Mississippi Section website http://ewh.ieee.org/r3/mississippi.

Thursday, September 18, 2008

Dr. Gordon Skelton, MS Section Chair and a faculty member at Jackson State University (JSU), Jackson, MS, will host a meeting for students form JSU, Mississippi State University (MSU), at Starkville and University of Southern Mississippi at Hattiesburg. IEEE Student Chapters will be presented with a $1,000 grant from the Section to promote electrical engineering disciplines.

Thursday, October 16, 2008

Chuck Weimer at Watthour Engineering chuck@watthour.com 601- 933- 0900 will be hosting a tour of their facility located in Pearl, MS. Watthour Engineering Co., Inc. (WECO™) was incorporated in the State of Mississippi in March of 1980. Initially it provided custom electric meter test and has expanded into full engineering services for the utility industry.

Thursday, November 13, 2008

Claude Kent Reeves, Raytheon Engineer located in Kansas City, KS (kent.reeves@raytheon.com office phone 785-549-3622) will be giving a presentation on the "P25 Advanced IP Radio System" that is used by electric utility companies and public safety agencies to provide communications in all conditions. This is an open architecture system that seamlessly bridges legacy and updated communications equipment. The P25 radio systems are made at Raytheon Company, JPS Communications,5800 Departure Drive, Raleigh, NC 27616 www.raytheon.com/JPS

Submitted by Ron Ogan, MS Section Vice-Chair (rtogan@ieee.org) and Catherine Anderson, MS Section Secretary on behalf of Dr. Gordon Skelton, MS Section Chair 8/23/2008

Using P25net, public safety agencies can benefit from a seamless, cost effective APCO P25 radio system without compromise. With the addition of the base station controller and RFSS network controller, the possibility of wide area calls and communications with any ISSI-enabled P25 system is obtainable regardless of operating frequency.

In addition, achieving interoperability with legacy systems has never been easier through our channel mapping. Channel mapping enables users on legacy conventional systems to be mapped directly to P25net analog or digital trunked radio talk groups ensuring reliable and efficient command and control.
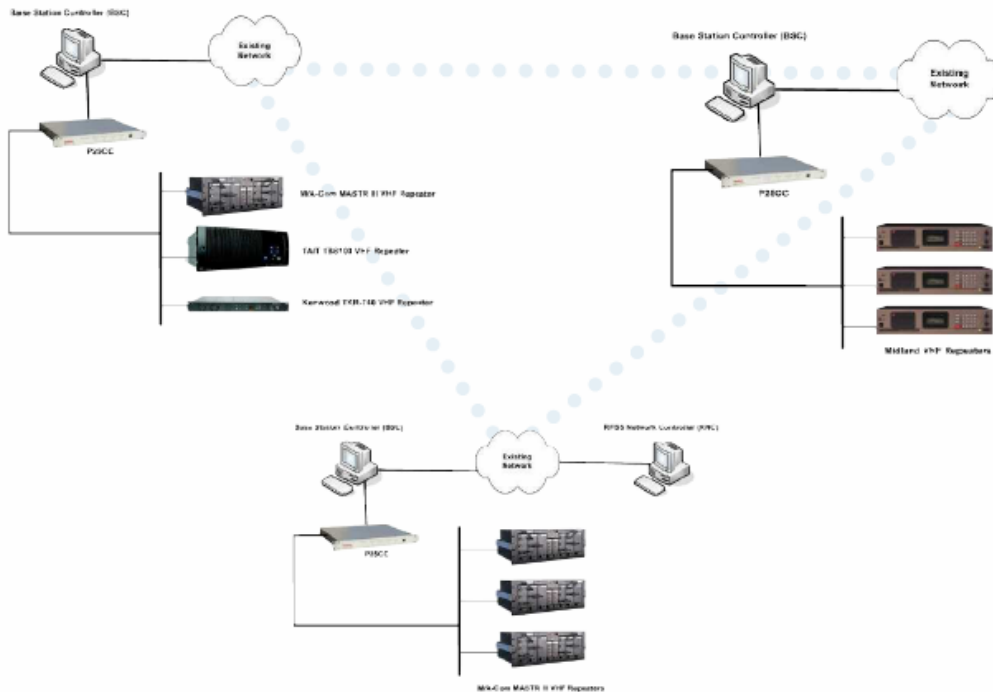
Summer Enrichment Programs Expose K-12 Students to ECE, Georgia Tech

Jackie Nemeth
School of Electrical and Computer Engineering at Georgia Tech

Almost 60 middle school and high school students took part in summer enrichment programs that were organized, implemented, and sponsored by the School of ECE. Those camps included HOT Days 1 & 2 @GT and the FIRST LEGO League Summer Camp. A third program—the Technology, Engineering, and Computing Camp—will be featured in the next issue of *ECE Highlights*.

Hands-On-Tech - HOT Days@GT

Thirty-three rising high school sophomores and juniors, mostly from metro Atlanta, participated in HOT Days@GT. Offered in two separate one-week long sessions, June 9-13 and June 16-20, HOT Days@GT introduced students to electrical and computer engineering concepts.

With ECE faculty and students on hand to supervise, the camp attendees built computers, worked with robots, constructed a low pass filter, built simple digital logic circuits, constructed a speaker from common household parts, worked on electronics projects, and toured the GT Solar House. At the midpoint of each camp session, students went on a scavenger hunt that helped them to learn more about the Tech campus and its history and traditions. At the end of the week, students attended an admissions session and celebrated the end of the camp with a reception, where they received certificates of participation.

Students learn how to solder during HOT Days 2008.

Several students commented that they enjoyed everything about HOT Days@GT, particularly the robotics sessions, the electronics project which involved soldering components, and the opportunities to learn more about the campus. The 2008 sessions of HOT Days@GT were funded by the Motorola Foundation and the National Science Foundation. Faculty and staff involved in the camp were Leyla Conrad, George Riley, Doug Williams, Jeff Davis, Jill Auerbach, James Steinberg, and Kristen Anderson. Student TAs included Cyrus Harvesf, Jin Lee, Veronica Harley, Kathy Thomas, Marie Shinotsuka, and Chetan Devchand.

FIRST LEGO League Summer Camp

Twenty-four middle school-aged students attended the FIRST LEGO League (FLL) Summer Camp from July 7-11. This new camp introduced these students to FLL, an international robotics program that promotes the excitement of discovery,

FIRST LEGO League campers fine tune their robot before putting it to the test.

science, and technology by having teams of students use their intelligence and imagination to build robots that perform specific tasks and missions.

Hosted by the School of ECE, this camp encourages students to form and lead robotics teams for future FLL challenges. Their assignment for the week was Arctic Impact, where students worked in teams, addressing the challenges of data collection in the Arctic, and once there, how to survive the extreme weather, animals, and living conditions on ice. During the week, students built their robots to handle everyday challenges, conducted research about the environmental conditions in the Arctic, and created PowerPoint presentations summarizing their findings. At the end of the week, students presented their research findings to peers, camp staff, and family members and celebrated the end of the camp with a reception, where they received certificates of participation.

Funding for this camp was provided by the School of ECE. Faculty and staff involved in the coordination of this camp were Jeff Davis, Doug Williams, Bonnie Heck Ferri, Leyla Conrad, Jill Auerbach, Kristen Anderson, and Beverly Scheerer. Student TAs were Antidio Viguria, Michael Shaffer, Veronica Harley, Kathy Thomas, and Marie Shinotsuka.

(Ed. Note: according to Jackie Nemeth most of the students who volunteered with both camps are members of the GT IEEE Student Branch.)

A UNIQUE OPPORTUNITY FOR A SECTION/CHAPTER EVENT!
IEEE Expert Now Courses FREE for IEEE Sections and Chapters
(Until December 31, 2008)

IEEE Educational Activities (EA) has funded a pilot program to encourage Sections and Chapters to plan Section/Chapter events around Expert Now courses – free of charge until December 31, 2008. This program represents a unique opportunity for Sections and Chapters to offer a significant member benefit (the current cost of each Expert Now course is $69.95 for IEEE members) at no cost to the member while providing a refreshing change of pace from the typical Section or Chapter meeting. The Expert Now Section or Chapter event also represents an excellent opportunity to attract new members through effective publicity of the event and to conveniently provide continuing education units to those members who require them, such as professional engineers maintaining their license. The Region 3 Educational Activities Committee is encouraging ALL Region 3 Sections and Chapters to take advantage of this significant opportunity. Feel free to contact Pat Donohoe (Region

3 Educational Activities Chair) or Tara Gallus (Continuing Education and eLearning Program Manager) at the e-mail addresses given below should you have any questions.

Pat Donohoe
Region 3 Educational Activities Chair
p.donohoe@ieee.org

- ▪ bContact IEEE EA Staff about organizing a local event
  Tara Gallus, Continuing Education and eLearning Program Manager
  IEEE Educational Activities
  Phone: 732-562-5499
  Email: t.gallus@ieee.org
- ▪ Choose 1-3 IEEE Expert Now courses to be offered at the event.
- ▪ Courses are delivered online or on CD
- ▪ Courses can be offered simultaneously in multiple rooms and then re-run in second half of meeting.
- ▪ Local experts on topics of chosen courses are recruited to speak and answer questions at the event.
- ▪ Attendees can earn Continuing Education Units from IEEE for attending the event.
- ▪ IEEE Expert Now flyers provided to your Section/Chapter for distribution at the event.
- ▪ Engage student branches as an opportunity for students to network with working engineers.

▪ Engage local companies through sponsorship to cover any expenses (food, venue, etc.).

For more information on planning your Section/Chapter event, visit: http://www.ieee.org/web/education/Expert_Now_IEEE/sc_program.html
For the full listing of available IEEE Expert Now Courses, visit: http://www.ieee.org/web/education/Expert_Now_IEEE/modules.html

HFES Healthcare (UVA)

The University of Virginia has two **graduate fellowships** available for those seeking **to earn a Ph.D. in Systems and Information Engineering with a focus in Medical Informatics**, funded by the National Library of Medicine. Applicants must be U.S. citizens or permanent residents and must hold a B.S. or M.S. in Systems Engineering, Computer Science, Information Science or a related field. Applicants with other backgrounds and prerequisite coursework will also be considered. Fellows receive a generous stipend, health insurance and a travel allowance.

Mentored research opportunities are available in the following methodological areas:

- Human Factors
- Computational Statistics and Simulation
- Risk Management
- Systems Integration
- Optimization and Control

Research projects apply techniques and tools from these areas to problems related to healthcare, under the collaborative guidance of both systems engineering and healthcare or biological systems mentors. Core coursework is offered through the Department of Systems and Information Engineering and the Department of Public Health Sciences. Please access our website (www.sys.virginia.edu/healthcare) or

contact one of the directors listed below for more information.

University of Virginia is an equal opportunity employer. Minorities are especially encouraged to apply.

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<james.harrison@virginia.edu>

Section Publicity

David Bower, R3 Public Information Officer
d.bower@ieee.org

With the fall season approaching, it's time to start thinking about various publicity initiatives for section programs and other activities. A news release to your local newspaper is one good way to get the word out. Another is to post a meeting notice on the bulletin board at organizations employing engineers (but be sure to get permission first). Word of mouth is also good. And another is the use of a simple standup display. The standup display shown in the picture is one that will be used in the Region 3 exhibit at Sections Congress 2008 in Quebec City in September. It's a low-cost acrylic display stand available

from office supply stores and has a handy compartment at the bottom right for business cards to obtain more information.

As a suggestion, this would also be a good display to use with a IEEE membership promotion graphic at section meetings, along with business cards for those desiring more information about joining IEEE.

If you're attending Sections Congress, please stop by and visit the Region 3 exhibit (booth # 41).

Earn PDH Credits towards your PE requirements!

The tutorials presented at SoutheastCon 2009 (hosted by the Atlanta Section and the Georgia Tech Student Branch) will offer a wide selection of continuing education opportunities for engineers in several different disciplines/specialty areas. Certificates will be presented to attendees, identifying the course, number of classroom hours and PDHs earned. Tutorials will be offered on Thursday, March 5, 2009, from 8 am until 5 pm. Lunch and snacks will be provided. Currently planned tutorials include Alternative Energy, Basic Radar and Artificial Intelligence. More tutorials are in the works! Please be watching for more information, both here and at www.sec09.com. Please contact Jill Gostin, Tutorials Chair, if you have any questions. jgostin@ieee.org

IEEE 15288 Systems and Software Engineering Standard
John Clark
IEEE Hampton Roads Section

The IEEE recently issued ISO/IEC 15288-2008 jointly as IEEE 15288-2008, and ISO/IEC 12207-2008 jointly as IEEE 12207-2008. One benefit is that 15288 and 12207 are now "harmonized" (i.e., conflicts are removed). Another benefit is that these two ISO/IEC standards are available from IEEE at less cost than from ISO/IEC. One limitation is that the

guidance and figures that were in ISO/IEC 15288-2002 were moved into ISO/IEC TR 24748 which is yet to be released. ISO/IEC TR 24748 will contain guidance on how to apply both 15288 and 12207.

The 58th ANNUAL IEEE BROADCAST SYMPOSIUM

The Institute of Electrical and Electronic Engineers' Broadcast Technology Society (BTS) Broadcast Symposium will be held October 15-17 in beautiful and historical Alexandria, Virginia. This year's symposium is titled, "Managing the Transitions".

Be sure to attend the last BTS Symposium before the DTV transition and learn the latest from industry experts in the field of digital radio, television and more. Carefully selected presentations will make this an event that should not be missed.

Richard E. Wiley, partner at Wiley Rein, LLP and former FCC chairman, will address a Thursday luncheon as part of the event, and Peter M. Fannon, vice president of technology policy, government and regulation for the Panasonic Corp. of North America has been selected to speak at a Friday awards luncheon.

Registration is now open.
For complete information and registration visit the symposium web page at:
http://www.ieee.org/organizations/society/bt/ABS08/abs08index.html or contact
Kathy Colabaugh
Senior Administrator
IEEE Broadcast Technology Society
445 Hoes Lane
Piscataway, NJ 08854 USA
email: bts@ieee.org
ph: +1 732 562 3906

Keep in contact

David Green
Region 3 Secretary

One of the problems that IEEE has today (and had yesterday and the day before), is staying in touch with its members and leaders. Getting the right information to the right people at the right time as well being able to consult the right be at the right time depends on having communication channels that work. Often, it takes knowing an address to make communications work.

The Region 3 Web Site is http://ewh.ieee.org/reg/3/. The web site facilitates broadcasting information (to those who choose to visit the site) and serves as a potential library of information to search through when information is needed.

Webmaster Eric Ackermann tries to keep this site current and useful to the Region 3 Volunteers and Members.

Other forms of communication depend on being able to connect member to member or member to staff. These connections depend on knowing "addresses" of members.

Alas, you can not (generally) keep the address of who you want to communicate up to date.

Rather you have to keep your address information current and available for others to locate you.

If you are a Region 3 Volunteer, you should make sure

1) IEEE HQ has your correct mailing address, e-mail, and telephone numbers
2) You have an @ieee.org alias (see http://www.ieee.org/eleccomm)
3) Committees you belong to have your contact information

Committee	Contact
Region 3 ExCom	Secretary (d.green@ieee.org)
Region 3 Committee	IEEE HQ has you registered as Section Chair

(the other qualifying position) Your section e-mail alias includes your e-mail

Area/Council	Your Area/Council Chair has your contact information

Be please proactive and help with the "addressing" part of the communication problem and stay in touch.

The IEEE Institute Newspaper Wants Your News

Hello, this is your occasional reminder to send me your society, section, and region news items in an effort to broaden the publication's coverage and help you publicize your activities.

And as always, please send me your:

Obituaries on members
Recognitions that members receive such as promotions, appointments, awards, or honors from their community or government
Recognition that members receive from an IEEE society, such as an award
Interesting jobs or hobbies for member profile pieces,
News about IEEE student members, student branches, student activities, and competitions
New products, services, or activities that your society, section, region or student branch is offering
Successful social or technical events or meetings

If you're not sure whether it's newsworthy, send it to us anyway with the "who, what, when, where, and how" of the information, and we'll take it from there.

We also would like your suggestions for topics to write about, whether it's IEEE related or something about the engineering field.

Email your news to: institute@ieee.org.

Regards,
Kathy Kowalenko
Editor, "The Institute"
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www.ieee.org/theinstitute

SoutheastCon 2009

March 5-8, 2009, Atlanta, Georgia

SoutheastCon is the annual IEEE Region 3 Technical, Professional, and Student Conference. It brings together electrical, computer and other engineering and science professionals, faculty and students to share the latest information through technical sessions, tutorials, and exhibits. Attendance and technical program participation from areas outside IEEE Region 3 are also cordially encouraged and welcomed.

Scope of the Technical Program: SoutheastCon 2009 invites prospective authors to submit their technical work on all aspects of engineering, science, and technology of current interest, to the conference. The conference's technical program includes, but is not limited to, the following technical categories (for additional details, please see Sections 4.9 through 4.52 for the IEEE Field of Interest statements for each IEEE Society at http://www.ieee.org/portal/pages/tab/tabopman/section4.html):

- **Application Areas**
- **Circuit and Devices**
- **Communication and Information**
- **Computer Engineering**
- **Control and Automation**
- **Electromagnetics**
- **General Interest**

- **Geoscience, Ocean Technology and Remote Sensing**
- **Instrumentation, Measurement and Testing**
- **Interdisciplinary**
- **Nuclear and Plasma Science**
- **Optics and Optoelectronics**
- **Power and Energy**
- **Signal Processing**

SoutheastCon 2009 will feature the presentations of technical papers as well as tutorial sessions, and workshops for which topics of both theory and applications are encouraged. Program questions of a general nature should be directed to the Technical Program Chair, **Jeff Kemp** at sec09tc@ieee-atlanta.org.

Technical Paper Timeline: Two types of technical papers are solicited: (1) full-length reviewed papers and (2) extended abstracts of non-reviewed papers. The following deadlines are provided and are not expected to be extended.

- Submissions of full-length papers for review (in .pdf) are due by October 31, 2008.
- Submissions of extended abstracts of non-reviewed papers (in .pdf) are due by October 31, 2008.
- Review of submitted full-length papers and extended abstracts will be a completed by December 5, 2008.
- Paper certificate and copyright forms will be available to authors by January 18, 2009.
- Final submission of the accepted full-length reviewed papers and extended abstracts is due in electronic form (.pdf) by January 15, 2009.

Engineers Making the World a Better Place

Technical Paper Submission Information: The submission and review of technical papers for IEEE SoutheastCon 2009 will be handled by the conference's Paper Submission and Review System, accessible from the IEEE SoutheastCon 2009 Website. The submitted papers must contain original work and not have been previously published or presented elsewhere. All full-length reviewed papers and extended abstracts of non-reviewed papers accepted for SoutheastCon 2009 will be published in the Proceedings of IEEE Southeast Conference 2009 on CD. Each accepted paper or abstract must have one full, non-refundable registration fee paid in order for the paper to be included on the Proceedings CD. During the acceptance process, the corresponding author will identify the presenter of the paper. A total of 6 double-column printed pages are allowed to each full-length reviewed paper, and 1 page is allowed for each extended abstract. A page charge of $50.00 will be applied for each extra page (up to 2 pages for full-length reviewed papers and 1 page for extended abstracts) exceeding the page limit.

Posters: Extended abstracts of non-reviewed papers accepted for SoutheastCon 2009 may have the opportunity to be displayed as posters. (Note: Accepted extended abstracts will be given presentation time during the conference on the basis of early notification to the Technical Program Chair.). Authors of accepted extended abstracts who wish to display their extended abstracts as posters should notify the Technical Program Chair by February 15, 2009. Notification to authors that their extended abstracts may be displayed as posters will be by February 22, 2009.

Tutorials and Workshops: Proposals are also invited for tutorials and workshops to be presented at SoutheastCon 2009. The proposal should include the tutorial or workshop objectives, a brief description (500 words), an outline, proposed length (one-hour, two-hour, or four-hour) and, a short professional resume of the instructor. Please send proposals for tutorials and workshops to the Tutorial Chair, **Jill Gostin** at sec09pt@ieee-atlanta.org by July 31, 2008. Tutorial and workshop presentation materials (in .pdf) and handouts (in .pdf) are due by February 1, 2009.

Copyright Information: Submission of a paper, an abstract or other material to the IEEE SoutheastCon 2009 represents the author's agreement to allow IEEE to publish the paper, abstract or other materials in any written or electronic format for distribution to all interested parties in perpetuity with or without compensation to IEEE and without compensation to the author. The parties understand that the author is granting a nonexclusive license and all copyrights remain the property of the author. A copyright form must be signed by the author for each accepted paper or abstract to be published in the conference proceedings.

Engineers Making the World a Better Place

SouthEastCon 2009
Call for Reviewers

SoutheastCon is the annual IEEE Region 3 Technical, Professional, and Student Conference. It brings together electrical, computer and other engineering and science professionals, faculty and students to share the latest information through technical sessions, tutorials, and exhibits.

On March 5-8, 2009, SouthEastCon 2009 will be held in Atlanta, GA. We are soliciting the Atlanta Section, in particular the chapters within the Section, to find members to serve as reviewers for the Technical Program. The conference's technical program includes, but is not limited to, the following technical categories.

- **Application Areas**
- **Circuit and Devices**
- **Communication and Information**
- **Computer Engineering**
- **Control and Automation**
- **Electromagnetics**
- **General Interest**
- **Geoscience, Ocean Technology and Remote Sensing**
- **Instrumentation, Measurement and Testing**
- **Interdisciplinary**
- **Nuclear and Plasma Science**
- **Optics and Optoelectronics**
- **Power and Energy**
- **Signal Processing**

If you are willing to serve as a reviewer, please contact Jeff Kemp at sec09tc@ieee-atlanta.org. The following are the deadlines of interest for the reviewers.

- Submissions of full-length papers for review (in .pdf) are due by October 31, 2008.
- Submissions of extended abstracts of non-reviewed papers (in .pdf) are due by October 31, 2008.
- Review of submitted full-length papers and extended abstracts will be completed by December 5, 2008.

Engineers Making the World a Better Place

Charleston, SC USA

Embassy Suites
Convention Center
Charleston

Put Carolina on your mind!

**IEEE International Symposium
on Antennas and Propagation
and USNC/URSI National Radio
Science Meeting**

June 1-5, 2009

◈ **IEEE** Ⓐℙ︎Ⓢ ◇URSI◇

The **2009 IEEE International Symposium on Antennas and Propagation** and the **2009 USNC/URSI National Radio Science meeting** will be held jointly on June 1-5, 2009, at the Embassy Suites Convention Center in North Charleston, SC. The symposium and meeting are co-sponsored by the IEEE Antennas and Propagation Society (AP-S) and the U.S. National Committee of the International Union of Radio Science (USNC/URSI) Commissions A, B, C, D, E, F, and K. The technical sessions, workshops, and short courses will be coordinated between the two groups to provide a comprehensive and well-balanced program. This meeting is intended to provide an international forum for the exchange of information on state-of-the-art research in antennas, propagation, electromagnetic engineering, and radio science. Please note that technical sessions are held over five days from June 1 to 5, with workshops and short courses on May 31 and June 6, 2009. Visit the meeting website at **www.apsursi2009.org** for more information.

C A L L   F O R   P A P E R S
Submission Deadline – January 16, 2009

Paper Submission: Authors are invited to submit contributions for review and possible presentation in the symposium on topics of interest to AP-S and URSI including advancements and innovations in the fields of electromagnetics, antennas, and wave propagation. Suggested topics and general information are listed in this call. In addition to regularly scheduled sessions for oral and poster presentations, there will be a student paper competition as well as special sessions, workshops, and short courses that will address timely topics and state-of-the-art advancements in these fields. All paper submissions are due **January 16th, 2009**.

**Plan your visit to the
Spoleto Festival early at
www.spoletousa.org**

Steering Committee Contacts

General Chair
Anthony Martin
Clemson University
anthony.martin@ces.clemson.edu

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Instructions for AP-S and URSI Authors

Submission Information
All paper and abstract submissions must be received in PDF format via the symposium website by no later than **January 16, 2009**. Only electronic submissions in PDF format will be accepted. Please consult symposium website at **www.apsursi2009.org** for the latest instructions, templates, and format examples. Address all AP-S and URSI correspondence, including inquiries concerning papers, abstracts, the technical program, and copyright forms to **Gianluca Lazzi** at **lazzi@eos.ncsu.edu**.

Manuscript Preparation
The language of the symposium is English. The text should be formatted single-spaced and sized for 21.5 × 28 cm (8.5 × 11 inch) paper. The title should be centered 1 inch from the top of the first page. The author's (or authors') name and complete organizational affiliation should be two lines below the title. If there are multiple authors, the presenter is to be indicated with an asterisk. The text should start three lines below the last name. Left- and right-hand margins should be 4 cm (1.5 inches). A 2.5 cm (1 inch) margin should be at the top and bottom of all pages. Paragraphs are to be separated with one blank line. Submissions must withstand a linear reduction to 70% of original size and maintain readability. Only the author who submits the paper will receive an acknowledgement of the submission. Please do not include page numbers on submitted documents.

Additional Instructions for AP-S Authors
The paper must be limited to four pages including text, references, and figures. The introduction should indicate clearly how the submission relates to previous work and the unique aspects of the current submission. Footnotes should not be used except for credits to sponsoring agencies. A signed IEEE copyright form is necessary with all AP-S submissions. Missing copyright forms will make it necessary to reject the paper. Instructions for submitting the copyright forms are on the symposium website at **www.apsursi2009.org**.

Additional Instructions for URSI Authors
URSI abstract submission must consist of at least 250 words and must be limited to one page, including figures. Do not include a list of references. However, a few open-literature references may be included parenthetically, for example: (R. L. Lewis and J. R. Johler, Radio Sci., 2, 75-81, 1976). Acknowledgement of financial support is not appropriate. Also, please identify the Commission and session topic for the paper.

AP-S Student Paper Competition
A student must be the first author of the paper. The student's advisor should attach a statement that his/her contribution is primarily advisory. In addition, the transmittal letter should clearly indicate "student paper submission" and conform to all other submission requirements and instructions for authors as described in this call. For additional information contact **Caicheng Lu** at **cclu@engr.uky.edu.**

Special Sessions
Requests to organize special sessions should be submitted to **Susan Hagness** at **hagness@engr.wisc.edu** no later than **October 13, 2008**. Special sessions will be selected and finalized by the end of November. At that time, additional instructions will be provided to the organizers of the special sessions chosen for inclusion in the symposium and/or meeting. The associated papers or abstracts will be due on **January 16, 2009**. A list of special sessions will be posted on the symposium website in December 2008.

Exhibits
Industrial exhibits will be open **June 2-4, 2009**. If you wish to display an exhibit, please contact **Jay Kralovec** at **jay.kralovec@ieee.org**.

Short Courses/Workshops
Individuals desiring to organize a short course or workshop, should contact **Dev Palmer** at **dev.palmer@us.army.mil**.

AP-S General Topics
1. Adaptive, active, and smart antennas
2. Analysis for multi-scale problems
3. Biomedical applications
4. Broadband antennas
5. Chaotic systems structures
6. Complex media
7. Dielectric resonator antennas
8. Digital beamforming
9. Electromagnetic bandgap materials
10. Electromagnetics education
11. Electromagnetic properties of materials
12. Electromagnetic theory
13. EM measurement
14. FEM methods
15. FDTD methods
16. Frequency-selective surfaces
17. High frequency and asymptotic methods
18. Indoor and urban propagation models
19. Integral equation methods
20. Inverse scattering
21. Manufacturing techniques
22. Measurement techniques
23. Metamaterials
24. Microstrip antennas, arrays, and circuits
25. Military applications
26. Mobile and PCS antennas
27. Monolithic array techniques
28. Multi-frequency antennas
29. Nano-electromagnetics
30. Non-linear electromagnetics
31. Numerical methods
32. Optimization methods in EM design
33. Phased-array antennas
34. Photonics in antenna systems
35. Propagation
36. Propagation in rough enclosures
37. Quasi-optical techniques
38. Radar imagery
39. Random media and rough surfaces
40. Reconfigurable antennas and arrays
41. Reflector antennas
42. Remote sensing
43. Scattering, diffraction, and RCS
44. Transients and time-domain techniques
45. Ultra wideband systems
46. Vehicular antennas
47. Vehicular electromagnetics

Commission A
Electromagnetic Metrology
O. Kilic: **kilic@cua.edu**

A1. Microwave to sub-millimeter measurements/standards
A2. Quantum metrology and fundamental concepts
A3. Time and frequency
A4. Time-domain metrology, EM-field metrology
A5. EMC and EM pollution
A6. Noise
A7. Materials
A8. Bioeffects and medical applications
A9. Antennas
A10. Impulse radar
A11. Interconnects and packaging

Commission B
Fields and Waves
N. Engheta: **engheta@ee.upenn.edu**

B1. Antenna arrays
B2. Antenna theory, design, & measurements
B3. Complex, novel, or specialized media
B3.1 Electromagnetic bandgap (EBG) structures
B3.2 Biological media
B3.3 Geophysical media
B3.4 Metamaterials
B4. Educational methods and tools
B5. Electromagnetic interaction and coupling
B6. Guided waves & wave-guiding structures
B7. High-frequency techniques
B8. Imaging, inverse scattering & remote sensing
B9. Microstrip antennas and printed devices
B10. Nanoscale electromagnetics
B11. Nonlinear electromagnetics
B12. Numerical Methods
B12.1 Fast Methods
B12.2 FDTD

Commission B Topics - Continued
B12.3 Frequency-Domain methods
B12.4 Hybrid methods
B12.5 Integral equations and the moment method
B12.6 Time-Domain methods
B13 Optimization techniques
B14. Propagation phenomena and effects
B15. Rough surfaces and random media
B16. Scattering and diffraction
B17. Theoretical electromagnetics
B18. Transient fields, effects, and systems
B19. Ultra-wideband electromagnetics
B20. Wireless communications

Commission C
Signals and Systems
D. Palmer: **dev.palmer@us.army.mil**

C1. Sensor array processing
C2. Physics-based signal processing
C3. Signal processing for radar remote sensing
C4. Synthetic aperture and space-time processing
C5. Distributed sensor networks
C6. Computational imaging and inverse methods
C7. Statistical signal processing of waves in random media
C8. Radar target detection, localization, and tracking
C9. Sensor array calibration

Commission D
Electronics and Photonics
L. W. Pearson: **pearson@ces.clemson.edu**

D1. Metamaterials containing lumped or active components
D2. Electronic devices and applications
D3. Photonic devices and applications
D4. Physics, materials, CAD, technology and reliability of electronic and photonic devices, with particular reference to radio science and telecommunications

Commission E
Electromagnetic Noise and Interference
C. Ropiak: **cropiak@earthlink.net**

E1. High-power electromagnetics
E2. Effects of transients on electronic systems
E3. Spectrum management and utilization
E4. Communication in the presence of noise

Commission F
Wave Propagation and Remote Sensing
R. Lang: **lang@gwu.edu**

F1. Indoor/outdoor wireless propagation effects
F2. Propagation over terrain and sea surfaces
F3. Random and deterministic terrain models
F4. Remote sensing of land, sea and atmosphere
F5. Propagation measurements and models
F6. Passive and active remote sensing

Commission K
Electromagnetics in Biology and Medicine
S. Hagness: **hagness@engr.wisc.edu**

K1. Biological effects
K2. Biomedical applications
K3. Dosimetry
K4. Exposure assessment
K5. Applications of RF/Microwaves to medicine

Charleston, SC USA

IEEE AP-S International Symposium &
USNC/URSI National Radio
Science Meeting

June 2009

SYSTEMS THINKING? …. THINK OF *THE IEEE SYSTEMS JOURNAL*!

The *IEEE Systems Journal* publishes peer-reviewed technical papers dealing with many shared aspects and attributes of systems and system-of-systems across the many domains and applications, in particular: complexity, dynamics, integration, interoperability, adaptability, completeness, effectiveness, modeling, analysis, simulation, engineering, science, human factors, management, operations, communications, applications, ethics, education, and much more. The journal seeks papers which address solution to problems of national and global significance.

Typical domains include: disaster response, energy, environmental monitoring and control, exploratory exploration (space, terrestrial, underwater), global earth observation & prediction, Earth science, human health and life science, medical systems and applications, autonomous vehicles and systems, intermodal transportation systems, logistics, manufacturing and factory automation, agricultural systems, biological applications, communications, national defenses security, organizational internal, privacy & security, social and political systems, socio-economic (including trade & banking systems), educational systems, and many others in which the system perspective is fundamental.

Typical disciplines, processes, and skills include: automation & control, decision making and optimization, management of large-scale systems, control and automation, mission assurance, modeling and simulation, nanotechnology in system-of-systems, self-configuration and adaptation, product life cycle, regulatory compliance, reliability & availability, safety maintainability, quality, risk management, scholarship of systems engineering, systems engineering processes, systems-of-systems, and many other related to the analysis, design, implementation, and maintenance of complex systems.

The *IEEE Systems Journal* in intended to stimulate awareness, appreciation and utilization of systems thinking and the supporting systems engineering disciplines. This journal aims to be an archival publication for professional from industry, researchers, educators, and students, who are sharing a strong interest in complex systems and the system thinking perspective.

This journal will publish also special issues on hot topics with the systems thinking perspective. The following special issues are in progress: GEOSS: Creating a Global System of Systems, Grid Resource Management, Resilience Engineering, System Research on Service Systems, and Biometric Systems.

http://www.systemsjournal.org

Editor-in-Chief: Prof. Mo Jamshidi, the University of Texas, San Antonio, TX, USA, isj@wacong.org

IEEE Systems Journal
Special Issue on "Biometrics Systems"

Guest Editors:
Vincenzo Piuri, University of Milan, Italy
Jie Tian, Chinese Academy of Sciences, China
Evangelia Micheli-Tzanakou, Rutgers University, USA

Biometrics is nowadays an important application area receiving continuously growing interest, due to the criticality and the social impact of the applications themselves. The increasing needs for security as well as medical diagnosis make biometrics more and more valuable world-wide, both as theory, technologies, design methodologies, and applications are concerned. This field is of growing interest both for the academy, the industry, the government, and the general public.

Biometrics is a narrow scientific and technological field which, however, is highly interdisciplinary since encompasses various aspects in different disciplines (e.g., physiology, biology, medicine, psychology, sociology, chemistry, physics, material sciences, computer science, computer engineering, electronics, system automation, telecommunications, and economics). Inter-disciplinary and synergetic interactions among disciplines are key aspects of this area. To create a biometric system various issues need to be studied in an integrated way: from sensing to measurement procedures, from signal analysis and interpretation to quality assessment, from feature extraction to classification and analysis, from knowledge creation to extraction, from algorithms to data structure, from computational complexity to system performance, from system engineering to software engineering, from privacy to social implications, and much more. Integration and cooperative combination are another key aspects if biometrics systems and applications.

This special issue is directed to collect original papers that address any aspect of the design, implementation and application of biometrics systems. Research areas of relevance to this issue would therefore include, but not be limited to, the following topics at system level:

- Biometrics sensing systems
- Multi-sensor multi-modal analysis, fusion and features extraction for biometrics systems applications
- Biometrics systems engineering
- Networking biometrics systems and applications
- Privacy, anonymity and security in biometrics systems
- Biometrics, Public Key Infrastructure and Identity Base Encryption
- Biometric knowledge systems
- Integration and interoperability in biometrics systems
- Adaptable biometrics systems
- Reliability, availability and dependability of biometrics systems
- Human factors in complex biometrics systems
- Biometrics systems for security applications (e.g., authentication, surveillance, computer security, national defense, transportation)
- Biometrics systems for secure applications (e.g., e-commerce, e-banking, e-government)
- Biometrics systems for medical applications
- Management and operations of biometrics systems
- Social implications of biometrics systems

This special issue will focus on the system-level issues of biometrics environments and applications. Papers addressing only a specific technology or a specific aspect of a biometric system will not be considered.

Submission and Review Process
Questions about the special issue should be directed to Prof. Vincenzo Piuri (vincenzo.piuri@unimi.it).
All manuscripts for this special issue should be submitted electronically to the IEEE Systems Journal website (http://www.systemsjournal.org/login.php). Authors should indicate that their manuscript is being submitted for the Special Issue on Biometrics Systems. A copy of the manuscript should be emailed in PDF format to Prof. Vincenzo Piuri.

Schedule:
Submission Deadline: January 15, 2009   Acceptance Notification: Apr. 15, 2009   Target Publication: August 2009

IEEE Transactions on Instrumentation and Measurement
Special Issue on "Biometric Instrumentation and Measurement"

Biometrics is a growing and important applications area receiving significant interest as a result of the criticality and the social impact of its applications. In addition, the increasing worldwide interest in security makes biometrics even more valuable and desirable, from many perspectives including its theory, technologies, design methodologies, and applications. The constituencies that may benefit from this ever growing field include academia, industry, government, and the general public.

Biometrics is a narrow scientific and technological field, which is highly interdisciplinary since it encompasses various aspects of several different disciplines (e.g., physiology, biology, medicine, psychology, sociology, chemistry, physics, material sciences, computer science, computer engineering, electronics, system automation, telecommunications, and economics). Interdisciplinary and synergistic interactions among these various disciplines are key aspects of this area. To create a biometric system various issues need to be studied in a comprehensive and integrated way: from sensing to measurement procedures, from signal analysis and interpretation to quality assessment, from feature extraction to classification and analysis, from knowledge creation to extraction, and much more. Integration and cooperative combination are other key aspects of biometrics applications.

This special issue is focused on publishing original papers that address instrumentation and measurement aspects of the design, implementation and applications of biometrics. Research areas with relevance to this special issue would therefore include, but are not limited to, the following fields:

- Biometrics sensors
- Measurement procedures and systems for biometric applications
- Distributed biometric measurement systems
- Biometric sensor networks
- Multi-sensor multi-modal signal and image analysis for biometric applications
- Biometric sensor data fusion
- Biometric sensor features extraction
- Adaptable flexible biometric sensor systems
- Reliability, availability and dependability of biometrics devices
- Biometrics quality characterization and assessment
- Biometrics measurements for security applications (e.g., authentication, surveillance, computer security, national defense, transportation)
- Biometrics measurements for secure applications (e.g., e-commerce, e-banking, e-government)
- Management and operations of biometric measurement systems

Guest Editors
Fabio Scotti, University of Milan, Italy
David Zhang, The Hong Kong Polytechnic University, Hong Kong
Evangelia Micheli-Tzanakou, Rutgers University, USA

Important dates:
Submission Period: February 15 - March 1, 2009
Notification of Final Acceptance: June 30, 2009
Target Publication: December 2009

Submission and Review Process
Manuscripts should be submitted electronically to the IEEE Transactions on Instrumentation and Measurement website (tim.allentrack.net), by indicating that they are to be considered for the Special Issue on "Biometrics 2009".
Questions about this special issue should be directed to Dr. Fabio Scotti (fabio.scotti@unimi.it).

POWER SYSTEMS CONFERENCE 2009

Advanced Metering, Protection, Control, Communication and Distributed Resources

March 10-13, 2009
Clemson University, Clemson, SC

http://www.ces.clemson.edu/powsys2009

The 2009 Power Systems Conference "PSC09" will be held on March 10-13 at Clemson University Conference Center. The focus of the 8th annual conference is power system issues associated with Advanced Metering, Protection and Control, Communication and Distributed Resources. The program includes a number of tutorials by power industry's leading companies in protection, control, communications, automation and metering. All tutorials are available to all registered attendees at no additional cost. Advanced registration is required to attend tutorials, panel discussions and technical paper sessions.

The conference preferred topics are:

- Advanced Metering: Automated Meter Reading with a focus on practical utility applications and new technologies, Metering System Reliability, Metering Applications in Power Quality Monitoring, Metering Applications in SCADA systems, BPL applications in Metering
- Distributed Generation: Interconnection, Protection and Control
- Renewable Energy Sources: Wind, Solar Applications and Implementations
- Power Systems Wide Area: Monitoring, Control and Protection
- Power Systems Communication: Applications in Control and Monitoring
- Power Systems Security: SCADA and EMS cyber security, physical security for facilities, cyber security for protective relaying, regulatory compliance
- Emerging technology in industrial systems

Advanced registration is required by January 1, 2009. The Conference Center has one of the best golf courses in the southeast. So golf is planned for Tuesday, March 10 at 1:30 – dark. So golfers need to mark the registration for the golf. The golf will then be followed by an evening reception.

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http://www.ewh.ieee.org/reg/3/comp.html
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Upcoming Region 3 meetings and conferences

Region 3 2008 Excom Schedule:

- 8 Sep 2008 9:00PM-11:00PM E-conference
- 18 Sep 2008 Sections Congress 2008 , Quebec City, Canada
- 27 Oct 2008 9:00PM - 11:00PM E-conference
- 8 December 2008 9:00PM - 11:00PM E-conference

Future SoutheastCon will be held in:
SoutheastCon 09 – Atlanta;
SoutheastCon 10 – North Carolina;
SoutheastCon 11: open
SoutheastCon 12: open

Sections considering holding a SoutheastCon: Orlando, Birmingham, Jacksonville

You are invited to submit a bid for a future SoutheastCon. For more information contact Don Hill (d.w.hill@ieee.org).