

# Region 3



<http://ewh.ieee.org/reg/3>

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## Message to Region 3 ...



*William Ratcliff  
Region 3 Director*

### Ratcliff's Ramblings...

During the past several years I have been writing to you about many subjects, topics, and themes with a few common threads:

- The human factor is a critical element to IEEE achieving its vision.
- An engaged, committed and skilled member will directly contribute to their own career, the growth of the profession and the solution of problems for the common good of humanity.
- We need each other at every stage of our lives to grow in our engagement, commitment and skills.
- IEEE is my "professional home" is it yours?

To those of you who are asking ...What do these things mean to me?

Well the times we are facing could really use the new model of cooperation and collaboration. If history is of any use in the current conditions of rapid change and uncertainty, then the following challenges are indeed possible:

- Many people will be faced with not just a job search but career direction changes...different industries, different skills, different locations... yes a radically different life.
- Support from each other in our individual network of relationships will be essential.
- IEEE, that is comprised of members (you and me), does provide support during the good times as well as the stressful time but only if accepted by the individual as their professional home.
- Families will be impacted by the changes taking place now.

I could continue saying all the things that have been discussed many times

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## Ratcliff's Ramblings... (cont.)

but it simply boils down to....

None of us gets through our lives alone  
=> We need each other!

Now is the time to put aside any doubts you may be harboring about getting involved in building, outfitting and living in your professional home. You'll find MYIEEE as a resource. Contact your Region, Section, Society / Chapter Leaders, etc and ask how you can help.

Welcome home!



William B. Ratcliff  
IEEE Region 3 Director 2008-2009  
[w.ratcliff@ieee.org](mailto:w.ratcliff@ieee.org)

## How Come Engineers Don't Have A Cool Uniform?

Jim Anderson

Chairman, IEEE Florida West Coast Section

Ah, the joy of Career Day! I'm the proud dad of two kids who are in grade school (kindergarten and 3rd grade). This is the time of year that the local schools send a note home with the kids asking parents to come to school and explain to the kids just what they do. I'm assuming that the purpose of this is to motivate the little folks into staying in school. Clearly this is no time to be telling kids about cube life, the joys of having to remember multiple passwords, nor exactly what "budgetary cutbacks" really mean. Instead it's my once-a-year chance to attempt to be the coolest dad in the whole school.

Engineering is a great profession. However, we do have a few strikes against us - Career

Day exposes our profession's weaknesses. I can't tell you just what a blow it was when I showed up for a Career Day a few years ago full of engineering excitement only to come face-to-face with: the policeman, the fireman, and the soldier. They have cool uniforms. They have cool utility belts. They have very cool tools. I had a sport coat, a belt to hold my pants up, and no tools whatsoever. The next year I came prepared: I had my box of science experiments that would show off a whole range of cool engineering stuff. However, the other dads had come prepared also: this time they brought their cool vehicles: the police car, the tow truck, and the 18-wheeler. I had, of course, brought only my Honda Accord.

I have eventually solved this problem. Reaching into my marketing bag of tricks I now give the same presentation trying to show different types of engineering. However, now in the end I finish up by handing out free giveaways. One year it was flashlights to show how electricity works. In the end it's what you leave behind that makes the biggest impression. Perhaps someday in the future a young engineer will come up to me and thank me for the flashlight and showing her just how cool engineering can be!

## Richmond Section Activities

John Cross [[j.r.cross@ieee.org](mailto:j.r.cross@ieee.org)]

On Monday, April 20, members of the Richmond Section presented the Electricity Demonstrator at a school in Fredericksburg, Virginia. The Electricity Demonstrator was developed by the Virginia Coordinating Council to provide an intuitive understanding of electricity, power conversion, magnetics, etc. to elementary students.

This Region 3 Newsletter is sent to the volunteers of Region 3. The information herein may be used in section and chapter newsletters. The opinions expressed, as well as the technical accuracy of authors, advertisers, or speakers published in this newsletter are those of the individual authors, advertisers, and speakers. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied.

Editor – William LaBelle  
6224 Glenrose Drive, Suffolk, VA 23435  
Voice: (757) 619-9050  
E-MAIL: [w.labelle@ieee.org](mailto:w.labelle@ieee.org)  
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## Engineering Accreditation And Industry/Government Engineers

Kenneth Cooper [[kcooper14@comcast.net](mailto:kcooper14@comcast.net)]

Engineering program accreditation in the United States is done by ABET. The process is to evaluate each program seeking accreditation against a published set of criteria. The programs document a self evaluation and a team identified by ABET uses the self evaluation as a basis to perform an independent evaluation. The evaluation teams are made up of volunteers from the engineering societies which are members of ABET.

At the present time, IEEE is the responsible society for evaluating more programs than any other ABET member society. Therefore, IEEE needs more volunteers than any other society to support the accreditation activity. The selection, training, evaluation, and management of the program evaluators is the responsibility of the IEEE Educational Activities Board.

The accreditation evaluation teams are made up of a team chair and a program evaluator for each program seeking accreditation. The IEEE is responsible for providing a program evaluator for each program for which it is designated the lead society. The IEEE is also responsible for providing a number of team chairs to support the accreditation evaluation visits.

The IEEE classifies program evaluators as either academic or industry/government. The committee responsible for selecting program evaluators has attempted, with a reasonable degree of success, to maintain a 50/50 split between academic and industrial/government program evaluators.

The participation of academia in program accreditation is obvious. The participation of industry/government is not and as a result recruiting industry/government engineers to be program evaluators has been difficult. The purpose of this article is to hopefully raise the interest level of industry/government engineers in program accreditation and thus make it easier to recruit them as program evalua-

tors.

The basis for the decision to involve industry/government engineers as program evaluators is that industry/government is, by a wide margin, the primary customer for all programs and that a strong representation of the customer base among the evaluators is an essential component for continued vitality in engineering accreditation.

Those of you who have a strong interest in engineering education should consider volunteering to be a program evaluator. As a program evaluator, you will get a broad view of engineering education. You will have the opportunity to see different approaches to meeting the accreditation criteria. You will gain familiarity with a wide range of program types and locations, as well as cross-disciplinary interactions. The people you meet and network with will broaden your understanding and appreciation of engineering education.

Through your participation, your company will have a better understanding of the accreditation criteria for engineering education and the implications of the criteria reflected in individual programs. Your familiarity with the wide range of program types offered, as well as the cross-disciplinary interactions involved in programs will help in targeting hiring to address specific needs. The company will have a better understanding of the expectations they should have of new graduates and thus be better able to identify the additional training required for new hires to be successful.

Your involvement as a program evaluator will require a time commitment on your part. The normal campus visit is from noon on Sunday until late afternoon on Tuesday. You will normally be asked to arrive on Saturday so that the team will be ready to go on Sunday. There may be a kickoff meeting on Sunday morning. Once the visit starts, you will be busy until the exit meeting on Tuesday afternoon.

There is preparation before the visit. In fact, the effort put in on preparing for the visit really determines the success of the visit. The preparation time takes between 20 and 40 hours over a two to three month period.

The time required after the visit is minimal.

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The maximum would be five hours over a four month period.

You will be well prepared before you go on a visit and well supported before, during and after the visit. ABET has a formal training program which consists on pre-work and a one and one-half day training session. For this training session, IEEE will provide a mentor to assist you through the process. In addition, IEEE provides experienced program evaluators to assist you in preparing for a visit and during the visit if necessary. Each visit team has a team chair assigned by ABET and they are also available to assist you with the visit. The evaluation process emphasizes team decisions, so you will also have the support of your evaluation team.

If you are interested, and we certainly hope many of you are, contact IEEE Educational Activities and they will get you started.

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## Simplify Website Event Updates – use Google Calendar

Susan Ronning, P.E. [[susan@ieee.org](mailto:susan@ieee.org)]

Many IEEE sections often find their website quickly become outdated due to lack of available volunteer time to keep it updated. The IEEE Memphis Section found themselves in the same dilemma, but recently employed the help of Google Calendar to solve their problem.

### What is Google Calendar?

Google calendar doesn't require users to have a Gmail account, but does require a Google Account – an account can be created by signing up for an email address with Gmail ([www.gmail.com](http://www.gmail.com)), or by using an existing address from another provider. The calendar enables users to view, add, and edit events, and drag and drop events from one date/time to another. Like all things Google, the calendar utilizes a simple user interface, and even provides an add-on that will allow users to sync their Google Calendar with their Outlook calendar. To see an example of what Google Calendar can do, see the IEEE Memphis Section Events page: <http://ieeememphis.org/events.html>

### Sharing calendars

In addition to a personal scheduling tool, Google Calendar allows *other calendars* to be viewed along with your own. These *other calendars* may be public calendars like "Phases of the Moon" or "Australian Holidays" or "IEEE Memphis Section". Or, *other calendars* may be private calendars maintained by your family, friends, or colleagues. The calendar owner invites whom can "see" his calendar and sets permissions to limit access settings; settings may allow full access "make changes and manage sharing" to very limited access "see only free/busy (hide details)".

### How do I overlay a public calendar with my own?

Public calendars are easily imported and shown along with your own calendar, in your choice of color. Most country's holiday schedules are available for integration. Once you have created your calendar, these settings can be found at "My calendars" à "Settings" à "Calendars" tab, find and select "Browse public calendars". For example, "Indian Holidays" is a simple import that overlays the holiday schedule with your own.

### How do I share my calendar with a friend?

Once you have created your calendar, you can share it with family, friends, and colleagues. To share your calendar, go to "My calendars" à "Settings" à "Calendars" tab. Find the "Sharing" column of *your calendar*, and then select "Share this Calendar". Simply enter the email address of those whom you would like to share your calendar with, and designate a permission setting from the drop down box.

### How do I create a public calendar (like the IEEE Memphis Section)?

A new calendar can be created by "My calendars" à "Settings" à "Calendars" tab à "Create new calendar" icon. A submission form allows you to name the calendar, provide a description and location (if desired), the calendar's time zone, and a check box under "Make this calendar public" allows it to be viewed by anybody, even those without a Google Account. Additionally, this calendar can be shared with other users, allowing quick integration with their own Google Calendar, simply by adding

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their email address and setting their permissions.

The IEEE Memphis Section allows the EXCOM members full access to add and edit events, so that each society and group can add their own events to the shared public calendar.

### **Embedding a public calendar into your Section's Website**

Once your new public calendar has been created, you can easily embed the calendar into your existing website. Simply go to "My calendars" à "Settings" à "Calendars" tab. Find and select your *new public calendar* à at "Calendar Details" tab, scroll down to "Embed this Calendar". Google provides the code for your webmaster to copy and paste into your existing events page.

Once completed, your webmaster is relieved of making constant updates to the Events section of your Section's website, and each Section and Society leader can quickly and easily manage events without requiring the use of HTML.

### **Conclusion**

Google has done an extraordinary job developing a simple tool that allows workgroups to easily share and edit events, while maintaining them in real time, on the World Wide Web.

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## **Daytona Section activities**

**Roger Grubic, Section Chair**  
[\[r33grubic@aim.com\]](mailto:r33grubic@aim.com)

Activities report from the Daytona (FL) section for March 2009:

### **Exciting Things:**

1. Based upon an idea from one of our members to promote science and engineering and to enrich the experience at the Daytona Museum of Arts and Science for local school children, we proposed the purchase of a small radio telescope (SRT) to the Life Members Foundation. The objective is to integrate electrical engineering and radio astronomy into planetarium presentations at the museum. Thanks to funding from the Life Members fund, we have completed assembly, checkout of the software and are currently performing calibration tests. The Section's Life and academic members are participating in this effort. We

had a great presentation to the Life Members Committee in February 2009, demonstrating our progress. Our webmaster has included pictures of our progress on our website at <http://www.ewh.ieee.org/r3/daytona/SRTProgramPage1.html>. Most recently a member donated a 10 ft parabolic antenna dish and we replaced the purchased 6 ft parabolic dish with the more sensitive larger one. The next steps are to mount the antenna at the museum and interconnect it into the planetarium.

2. Thanks to the dedication of several members, we have started a Computer Society chapter associated with the Section. An organizational meeting was held last month and the first technical meeting is April 13, 2009, at Embry Riddle Aeronautical University in Daytona.

3. The student chapter at Embry Riddle Aeronautical University participated in the SoutheastCon robot competition. While we were disappointed with our showing, we view this as a learning experience for students and academic advisors and expect to do better next year.

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## **Why and how is the GOLD different?**

*Vijay Ramnath Jayaraman,*  
*Vice-Chair GOLD, Atlanta Section*  
Email: [vijay.j@ieee.org](mailto:vijay.j@ieee.org)

I recently renewed my IEEE membership and I realized that I belong to the Region 3 – Atlanta section. I have always been thinking of doing this for a longtime after a big gap from my undergrad studies. A friend of mine who is an active volunteer for the GOLD section in Texas insisted that I take up some volunteering positions with the section. I was considering a few specific groups like Engineering Management, EMBC, etc but then I finally decided upon GOLD after a long thought process. I thought of sharing this process with the Region 3 members because I was totally convinced that, there is no better stage to display our management and leadership skills than the GOLD.

GOLD is very unique. I say this with all certainty because I am also a part of a couple of

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other profession bodies like IIE, HIMSS and the SHS. All of these are very credible and extremely popular bodies like the IEEE in their own fields. However, after looking into their membership details and the kind of volunteering opportunities that one might get, I was surprised to find that there is no comparative group like what IEEE has by the name of GOLD. It cuts across all area specific groups in IEEE and thus could be used as a stepping stone for entering into the leadership roles in those groups.

I recently went through the list of issues which most of the IEEE leaders are concerned about. They talk about increasing memberships at the grass-root level and begin with the students. I think IEEE is very successful in targeting the students. There are already hundreds of members in all the schools I have been into. What IEEE needs to focus is on converting these student members into full members and I think the only answer to that is GOLD. The success or the failure of a GOLD group could be measured by this conversion rate. Lots of reasons like popularity could be attributed to this.

I was thinking about the ways to mobilize our GOLD section and I had a chance to discuss them with some current GOLD members. One of key reasons for unpopularity that we found out in our brainstorming session is the inability to provide the current student members with the incentives. We came up with a couple of ideas like below. Combining all the student events in the section with at least one GOLD sponsored event. This is going to showcase the importance of GOLD or IEEE in general and also improve awareness. Next, by providing them access to job fairs there is a big incentive for the current student members to renew their accounts even after they graduate. Job training workshops and panel discussions could be another thing that the students are going to be interested in. Lastly, I think the GOLD group leaders should be able to meet at least once a year in an "annual GOLD conference" and brainstorm ideas like how the current groups like Power Electronics, Engineering in Medicine & Biology, etc meets in their technical conferences. This way there is not only great visibility but also a chance to

talk to the other GOLD members about their problems and perhaps share ideas to solve them.

I am looking forward to hear a lot more from the current members and interested in what they think about the ideas. Please email me for any comments and discussion.

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## MGA Awards & Recognition Committee - Outstanding Large/Small Section Awards

Mary Ellen Randall

Region 3 Awards & Recognition Chair

[\[merandall@ieee.org\]](mailto:merandall@ieee.org)

Upcoming Awards Deadlines include:

EAB Awards - April 30th <http://www.ieee.org/web/education/awards/index.html>

Outstanding Large/Small Section Awards - May 15, 2009 (information below)

Medal of Honor - July 1 <http://www.ieee.org/portal/pages/about/awards/sums/mohsum.html>

Alexander Graham Bell Medal - July 1 <http://www.ieee.org/portal/pages/about/awards/sums/bellsum.html>

Edison Medal - July 1 <http://www.ieee.org/portal/pages/about/awards/sums/edisonsum.html>

Corporate Recognition - July 1 <http://www.ieee.org/portal/pages/about/awards/corprec.html>

Service Awards - July 1 <http://www.ieee.org/portal/pages/about/awards/service.html>

Prize Paper Awards - July 1 <http://www.ieee.org/portal/pages/about/awards/prize.html>

Honorary Membership - July 1 <http://www.ieee.org/portal/pages/about/awards/sums/honmemsum.html>

Award for Distinguished Ethical Practices - July 1 <http://www.ieee.org/web/aboutus/ethics/award.html>

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Standards Awards - May 31 <http://standards.ieee.org/sa/aw/index.html>

IEEE-USA Awards - July 31 <http://www.ieeeusa.org/volunteers/awards/index.html>

## 2009 IEEE Educational Activities Board (EAB) Awards- Call for Nominations

Mary Ellen Randall

Region 3 Awards & Recognition Chair

[\[merandall@ieee.org\]](mailto:merandall@ieee.org)

As a valuable representative of the IEEE, the Educational Activities Board is requesting your assistance in making the 2009 IEEE Educational Activities Board Awards the most successful year ever.

Presently, the IEEE Educational Activities Board is seeking nominations for the 2009 awards as follows:

### 2009 IEEE Educational Activities Board (EAB) Awards

IEEE Educational Activities Board (EAB) Awards recognize and honor individuals and companies for major contributions to engineering and technical education. Awards are given for meritorious activities in accreditation, continuing education, educational innovation, Pre-University education, service to the IEEE EAB, employee professional development, informal education systems, and related achievements that advance the practice of engineering and of engineering education.

Nomination Deadline - 30 April

Meritorious Achievement Award in Accreditation Activities Nominee must be a current IEEE Member. The award consists of US\$1000, a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Meritorious Achievement Award in Continuing Education

Nominee must be a current IEEE Member. The award consists of US\$1000, a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Meritorious Achievement Awards in Informal Education

Nominee must be a current IEEE Member. The award consists of US\$1000, a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Major Educational Innovation Award

Nominee must be a current IEEE Member.

The award consists of US\$1000, a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Pre-University Educator Award

Nominee must be a current Pre-University classroom teacher.

The award consists of US\$1000, a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Meritorious Service Citation

Nominee must be a current IEEE Member who is a past member of EAB or current or past member of an EAB Committee, but not a current voting member of the EAB Awards and Recognition Committee. The award consists of a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

### Employer Professional Development Award

Nominee must be an organization employing IEEE members. The award consists of a brass and walnut plaque.

### Society/Council Professional Development Award

Nominee must be a Society or Council whose contribution to continuing education and professional development is outstanding as evidenced by their quality, comprehensiveness, innovation or impact. The award consists of a brass and walnut plaque and up to US\$2000 in travel expenses to receive this award.

Visit EAB Awards Nominations web page:

<http://www.ieee.org/eab-awards> <<http://www.ieee.org/eab-awards>> For more information, Email: [eab-awards@ieee.org](mailto:eab-awards@ieee.org) <<mailto:eab-awards@ieee.org>>

We also invite you to distribute the attached 2009 IEEE EAB Awards flyer to help us spread the word about IEEE EAB Awards.

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# *SoutheastCon 2010*

*March 18-21, 2010, Charlotte-Concord, North Carolina*

<http://www.southeastcon.com/2010/>

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 2010 invites prospective authors to submit their technical work on all aspects of engineering, science, and technology of current interest, to the conference. The conference technical program includes, but is not limited to, the following technical categories:

- **Power and Energy**
- **Computer and Software Engineering**
- **Communications and Networking**
- **Embedded Systems**
- **Control and Automation**
- **Electromagnetics and Microwaves**
- **Nuclear Science and Engineering**
- **Circuits, Devices and Semiconductors**
- **Robotics and Computer Vision**
- **Optics and Optoelectronics**
- **Nanotechnology and Materials**
- **Bioengineering and Informatics**
- **Signal Processing and Image Processing**
- **Instrumentation, Measurement and Testing**
- **Geoscience and Ocean Technology**
- **Remote Sensing and Sensor Networks**
- **Military and Security Applications**
- **Topics on Sustainability**
- **Application and Interdisciplinary Topics**
- **Education**

SoutheastCon 2010 will feature presentations of technical papers, as well as tutorial sessions and workshops. Theoretical and applied topics are encouraged for all sessions. Program questions of a general nature should be directed to the Technical Program Chair, at [sec10tc@gmail.com](mailto:sec10tc@gmail.com).

**Technical Paper Timeline:** All papers (up to 4 pages) will be reviewed. Authors should indicate a preference for either an approximate 15 minute presentation format or a poster-session presentation format. All accepted papers with registration will appear in the conference proceedings and IEEE Xplore.

- Submission of full-length papers for review (in .pdf) is due by December 1, 2009 (firm).
- Review of submitted full-length papers will be completed by January 11, 2010.
- Paper certificate and copyright forms will be available to authors by January 18, 2010.
- Final submission of the accepted full-length reviewed papers is due in electronic form (.pdf) by February 1, 2010.



# *SoutheastCon 2010*

*March 18-21, 2010, Charlotte-Concord, North Carolina*

**Technical Paper Submission Information:** The submission and review of technical papers for IEEE SoutheastCon 2010 will be handled by the conference's Paper Submission and Review System, accessible from the IEEE SoutheastCon 2010 Website. The submitted papers must contain original work and not have been previously published or presented elsewhere. All full-length reviewed papers accepted for SoutheastCon 2010 will be published in the Proceedings of IEEE Southeast Conference 2010 on CD and IEEE Xplore. At least one author must pre-register for the conference, paying the full registration fee, in order to have their paper or abstract included on CD and IEEE Xplore. During the acceptance process, the corresponding author will identify the presenter of the paper. A total of 4 double-column printed pages are allowed to each full-length reviewed paper. A page charge of \$100.00 will be applied for each extra page (up to 4 pages for full-length reviewed papers) exceeding the page limit.

**Technical Presentation Format:** Full-length papers may be presented in one of two technical presentation formats: a lecture presentation format, or a poster-session format. Authors should indicate preference for either the lecture presentation format or the poster-session format at the time of paper submission. Author preference for lecture or poster presentation format will be honored where possible. However, conference organizers cannot guarantee any presentation format and reserve the right to set the presentation, due to constraints on facilities and schedules. Notification of final presentation formats will be through publication of the advance technical program schedule on February 22, 2010.

**Tutorials and Workshops:** Proposals are also invited for tutorials and workshops to be pre-sented at SoutheastCon 2010. 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 Technical Program Chair by November 12, 2009. Tutorial and workshop presentation materials (in .pdf) and handouts (in .pdf) are due by February 1, 2010.

**Copyright Information:** Submission of a paper, an abstract or other material to the IEEE Southeast Conference 2010 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.

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## **IJCNN 2009 CALL FOR PARTICIPATION - RIGHT HERE IN IEEE REGION 3!!!**

2009 International Joint Conference on Neural Networks  
THE CENTURY OF BRAIN COMPUTATION!  
Neural Network Alliances with Cognitive Computing and Intelligent  
Machine Embodiments  
14-19 June 2009 in Atlanta, Georgia  
[www.ijcnn2009.com](http://www.ijcnn2009.com)

### **IT'S TIME TO FINALIZE YOUR TRAVEL PLANS TO THE TOP NEURAL NETWORK CONFERENCE!!**

Atlanta Georgia is the host of this year's IJCNN. This makes it a great opportunity for IEEE Region 3 members to participate. This is your chance to meet friends and to exchange ideas with the best in the world!

Register online, and don't forget the great selection of pre-conference tutorials and post-conference workshops. In addition to the high quality papers that IJCNN has become known for, we have presentations by top leaders in the field, as noted below.

### **INVITED TALKS**

The following top researchers have confirmed their Invited Talk at various Special Sessions at IJCNN2009. Their participation is in part sponsored by INNS Special Interest Groups Committee SIGCOM:  
Michael Arbib, Vladimir Cherkassky, Steven Grossberg, Peter Erdi, Nik Kasabov, Vladimir Vapnik, Paul Werbos, Jun Zhang

### **2009 IEEE FRANK ROSENBLATT AWARD**

John Hopfield is the recipient of this award and he will accept the it at a ceremony during IJCNN2009. He will also give a plenary talk on synchronization in neural systems, joining other speakers listed below.

### **PLENARY SPEAKERS**

IJCNN 2009 features world-renowned plenary speakers:  
Gail Carpenter (Boston University), Leon O. Chua (UC Berkeley),  
Robert Desimone (MIT, Cambridge), Eugene Izhikevich (NSI, San Diego),  
Edgar Koerner (Honda Research, Offenbach),  
John Taylor (King's College, London), Bernard Widrow (Stanford University)

### **SOCIAL AND FAMILY PROGRAMS**

Detailed information on for Social Programs is now available at:  
<http://www.mlpadgett.org/IJCNN2009/Activities/>

Atlanta!!! Come Early - Stay Late - Bring Family

Atlanta is full of great family entertainment!

There are a world of fantastic events, sights and educational activities for everyone coming to IJCNN 2009 to enjoy. Every morning of the conference, the Family Program will have a gathering place near the IJCNN registration desk from 9 AM to 10 AM. There we will compare interests and inclinations, look at available destinations, and form groups to go and explore!

Go City Kids: Atlanta, Georgia Aquarium, World of Coca-Cola, CNN tour, and more...

Day Trips: Pre- and Post-Conference - Before and/or after the conference, day trips to Callaway Gardens and Dahlonega.

We look forward to seeing you at IJCNN 2009 in Atlanta!!

IJCNN09 General Chair: Robeert Kozma, University of Memphis

IJCNN09 Program Chair: Kumar Venayagamoorthy, Missouri University of Science & Technology

Thank you for your assistance in making 2009 a banner year for IEEE EAB Awards.

IEEE - Celebrating 125 Years of Engineering the Future [www.ieee125.org](http://www.ieee125.org)

Keyana N. Tennant, MPA  
Program Manager, Women in Engineering  
Associate Editor, Women in Engineering Magazine  
IEEE Educational Activities  
Department  
445 Hoes Lane  
Piscataway, NJ 08854  
Tel: 732-981-3423 Fax: 732-981-1686  
E-mail: [keyana.tennant@ieee.org](mailto:keyana.tennant@ieee.org)

*(Ed. Note: Application form may be found on pages 16 -19.)*

## IEEE MEDIA EVENT MARKS KICKOFF OF 125TH ANNIVERSARY CELEBRATION

Francine Tardo

External Communications Manager

IEEE Corporate Strategy and Communications

[\[f.tardo@ieee.org\]](mailto:f.tardo@ieee.org)

On Tuesday 10 March, IEEE kicked off its 125th Anniversary celebration with an IEEE Media roundtable at the New Yorker Hotel in New York City. 2008 IEEE President Lew Terman served as the event's host, and Steve Lohr, technology writer for the New York Times, and Susan Hassler, editor of IEEE Spectrum, served as the program's facilitators.

A panel of top minds in human-technology interactions discussed how emerging technologies in biomedical engineering, biometrics, computing, robotics, telecommunications, wireless power and others have the potential to change the world. Review the list of panelists and access the full Web cast at <http://www.ieee125.org/engineering-the-future/media-roundtable.html>. Individual video clips of each presentation can be viewed on [ieeetv](http://www.ieee.org/ieeetv) ([www.ieee.org/ieeetv](http://www.ieee.org/ieeetv)), under IEEE 125th Anniversary Media Event.

Over 60 reporters from such prominent media outlets including The Wall Street Journal, The Associated Press, EE Times, NBC, and Forbes registered for the event. Of the 263 registrants for the webcast, 135 watched live. Live

updates were also reported on social networking sites Twitter and Facebook.

Over 250 media outlets have picked up the news story to date. These include AOL Money, Reuters, The Arizona Republic, The Miami Herald, Yahoo! UK and Ireland, The Houston Business Journal, The San Francisco Business Times, and Medinhandbuch (Germany), with additional stories in Scientific American, Popular Mechanics and Sina.com (China). View highlights at <http://www.ieee125.org/newsroom/media-coverage.html>.

**\*\*GLOBAL SERIES OF ANNIVERSARY CELEBRATIONS START IN APRIL\*\***

The global series of eight IEEE 125th anniversary celebrations launches on 27 April at the Technical University of Munich, with a program of keynotes and a reception hosted by the IEEE Germany Section. On 30 April in Austin, Texas, the Central Texas Section has teamed up with the Austin Chamber of Commerce for a party for the entire local technology community that will honor the IEEE anniversary. Find information about these and other anniversary activities at <http://www.ieee125.org>.

**\*\*MEMBER AND GEOGRAPHIC ACTIVITIES APPROVES NEW UNITS\*\***

The IEEE MGA Board recently approved the formation of the following units:

- IEEE Southwest Missouri Section in Region 5
- IEEE Medellin Subsection of the Colombia Section in Region 9
- IEEE Shandong Subsection of the Beijing Section in Region 10
- IEEE Tasmania Subsection of the Victorian Section in Region 10

There are currently 330 Sections and 38 Subsections.

**\*\*IEEE-USA CALL FOR NOMINATIONS\*\***

The IEEE-USA Nominations and Appointments (N&A) Committee is accepting nominations for the following: IEEE-USA President-Elect (2011); IEEE-USA Member-at-Large (2011-2012); IEEE-USA Secretary/Treasurer (2010); IEEE-USA Vice President - Career & Member Services (2010); IEEE-USA Vice President - Communications & Public Awareness; IEEE-

*(continued on next page)*

USA Vice President – Professional Activities (2010); and IEEE-USA Vice President - Government Relations (2010).

The board positions will direct IEEE-USA's day-to-day operations, provide leadership for volunteer committees, oversee financial performance and promote new activities. Nominees for these board positions must be senior or higher-grade members from IEEE Regions 1-6.

Nominations are also being accepted for the IEEE-USA N&A Committee (2010-2011). Eligible nominees include former IEEE-USA vice presidents, IEEE-USA secretary-treasurers, U.S. region directors who have completed their terms or who are serving in their second year of that term, or members who have had experience as an IEEE-USA committee chair.

To nominate candidates visit the nominations page at: [http://www.ieeeusa.org/volunteers/elections/onlineform\\_new.html](http://www.ieeeusa.org/volunteers/elections/onlineform_new.html). The deadline is 30 May 2009.

**\*\*myIEEE UNVEILS NEW LOOK\*\***

myIEEE, the personalized web portal for IEEE members, has undergone a recent redesign which incorporates new features. myIEEE 1.7 now incorporates streamlined alerts, member spotlights, access to Scitopia, IEEE-USA's Today's Engineer, and IEEE.tv gadgets across the Web site. The newly added "Who's Online" feature shows a list of all IEEE members currently logged in to myIEEE. Log in at <http://www.ieee.org/myieee>.

**\*\*SECOND LIFE VIRTUAL COMMUNITY NOW INCLUDES IEEE PRESENCE\*\***

Second LifeR, an online 3-D virtual world where residents are able to establish identities (avatars), explore, create and communicate, now includes an IEEE presence. Referred to as "inworld" by its residents, this interactive environment is designed to encourage social networking, collaboration and learning. IEEE has created a virtual infrastructure and presence to support its staff, volunteer and member needs within Second Life. This presence is spread across two islands and serves as a gateway for people to explore and participate in IEEE activities. Volunteers and members are encouraged to provide input and further de-

velop the islands. To view the IEEE in the Virtual World visit: <http://www.ieee.org/go/secondlife>. For more information, contact [secondlife@ieee.org](mailto:secondlife@ieee.org).

**\*\*CALL FOR 2009 IEEE EDUCATIONAL ACTIVITIES BOARD (EAB) AWARD NOMINATIONS\*\***

The IEEE Educational Activities Board (EAB) is seeking nominations to recognize and honor individuals, companies and IEEE Sections for their contributions to engineering and technical education. The deadline for the 2009 nominations is 30 April 2009. For a full listing and links to nomination forms, visit <http://www.ieee.org/web/education/awards/index.html>.

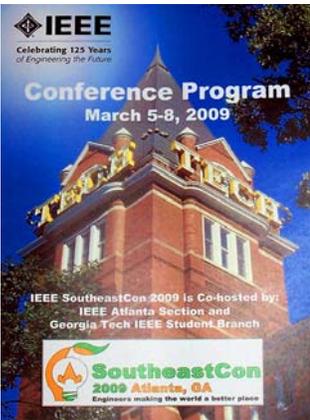
**IEEE Lasers and Electro-Optics Society (LEOS) Becomes IEEE Photonics Society**

The IEEE Lasers and Electro-Optics Society (LEOS), a leading global society in the field of photonics, lasers, and electro-optics, has officially changed its name to the IEEE Photonics Society. The new name reflects the expanding applications associated with the Society's field of interest and better represents its vision, mission and scope.

Photonics has become widely used to describe the broad field of research and applications relating to the generation, control and detection of light, including optical fiber communications, lasers, CDs, DVDs, supermarket scanners and digital cameras.

Read the full press release at <http://www.ieee.org/web/aboutus/news/2009/9april.html>.

## SoutheastCon 2009 Remembered



To get you started you had to start here with registration.

Step into a council meeting (Virginia here). Hey, how did they get the President's room?



Attend the awards banquet.



Richard 'Dick' Riddle (right) receiving a long overdue award from Director Ratcliff.

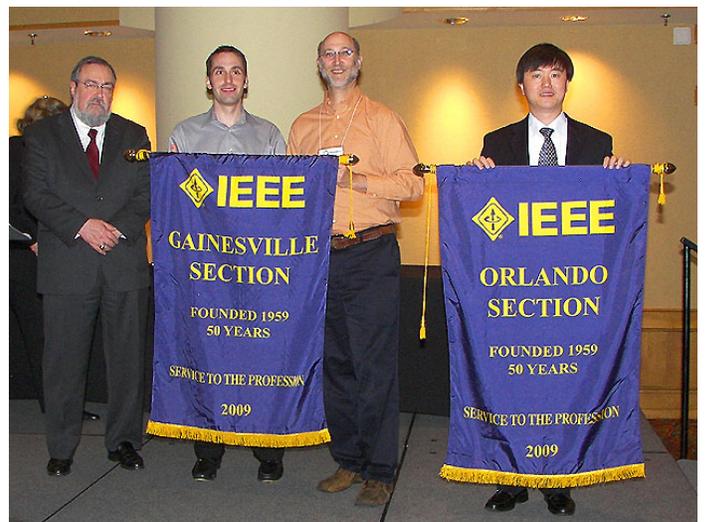
Participate in a breakout session



Gather for a meal and conversation.



50 year banners presented to the Orlando and Gainesville sections.



## SoutheastCon 2009 Remembered (cont.)

### Student Competitions Awards

#### WEB SITE COMPETITION

1st Place – Christian Brothers University  
2nd Place – Georgia Tech  
3rd Place – University of Miami

#### STUDENT HARDWARE COMPETITION

1st Place – Auburn University  
2nd Place – University of Tennessee Knoxville  
3rd Place – University of Central Florida

#### STUDENT PAPER COMPETITION

1st Place – North Carolina A&T State University  
“English to Spanish Translation of Signboard Images from Mobile Phone Camera”  
By: Adrian Canedo-Rodriguez

2nd Place – Christian Brothers University  
“Thermoelectric Light”  
By: Nicholas Brown and Amanda Taylor

3rd Place – University of Kentucky  
“Adding a Dimension to 2D Image Recognition”  
By: Michael Schmidt

#### SOFTWARE COMPETITION

1<sup>st</sup> Place – University of Florida  
2nd Place – University of Miami  
3rd Place – Duke University

#### DESIGN PRESENTATION COMPETITION

Best Looking – University of Alabama  
Best Electrical Design – Mississippi State  
Best Mechanical Design – Western Kentucky  
Most Entertaining – UNC Charlotte  
Use of Recycled Material – Mercer University  
Thinking Outside the Box – VMI

#### ETHICS COMPETITION

1st Place – University of Kentucky  
Bill Ellis, Nick Such and Sam Nicaise  
2nd Place – University of Tennessee  
Alex Melhorn, Chris Boyd, Benjamin Hady  
3rd Place – University of Florida  
Jim Martz, Clinton Rodgers, Yvette Tran

#### STUDENT T-SHIRT COMPETITION

1st Place – Christian Brothers University  
2nd Place – University of Memphis  
3rd Place – Georgia State University





## SoutheastCon 2009 Images

by David Bower, R3 PIO  
d.bower@ieee.org

The SoutheastCon 2009 Conference, hosted by the IEEE Atlanta Section and the Georgia Tech IEEE Student Branch, was held at the Crowne Plaza in Atlanta, GA March 5-8. The General Co-Chairs for the event were Amy Wilson, Bill Marshall and Mary Lynn Smith. The well organized Region 3 event had plenty of activities for all, as shown by some representative pictures with this article. A more extensive collection of pictures chronicles the conference on the Region 3 Web Page (<http://ewh.ieee.org/reg/3/>). Please refer to the "Photos from Various Events" link on the left side of the Web Page. Starting with "General Images Part 1" for Friday and continuing, the images capture activities through the Awards Ceremony on Saturday evening.

Part 1 covers Friday activities including a welcome by Co-Chair Mary Lynn Smith, the reception and dinner, Area Council and various meetings that followed, and other activities. Part 2 covers primarily Saturday (and some Sunday) activities including meetings, the Student Robotics Competition, exhibits and other areas of interest. Finally, images from the Saturday evening Awards Ceremony are presented.

Congratulations to all involved for a well organized and presented SoutheastCon 2009 conference.

If you'd like higher resolution electronic images for use in your newsletter or on your web page, please feel free to contact me. I'd also like to suggest these photos be used to publicize those receiving an award at SoutheastCon 2009 through your local media.

# MEMBER and GEOGRAPHIC ACTIVITIES (MGA) OUTSTANDING SECTION AWARD NOMINATION FORM

*Please check Large or Small Section and complete Section information.*

Large Section (> 500 members, inc. Students)

Small Section ( $\leq$  500 members, inc. Students)

Section Name: \_\_\_\_\_

Region: \_\_\_\_\_

Current Section Chair: \_\_\_\_\_

Section URL: \_\_\_\_\_

## ***Documentation that must be provided to qualify for award:***

- Completed (in English) this nomination form only, for the **previous calendar year (1 January through 31 December)**;
- Additional documentation may be submitted in support of the nomination, but may not be used for the evaluation;
- Nominator will be contacted if any required documentation is omitted.

## ***Verification needed to qualify for award (MGA Awards & Recognition Committee will verify with IEEE):***

- Financial report (L50) of the Section has been submitted and approved by IEEE Operations Center;
- Current officer reporting has been submitted to IEEE/MGA;
- Adequate number of meeting reports has been submitted to IEEE/MGA - Section (5), Chapter (2), Affinity Group (2);
- Section has not received this award in the last three years.

## **SECTION ACTIVITY/ORGANIZATION EVALUATION CRITERIA**

***Please complete the following questions. Each box will expand as needed. Please do not exceed listed word limits.***

### **Section Information**

1. List the names and titles of all Section officers from last year (not Chapter/Affinity Group officers).

2. List Chapters in the Section. List individual and joint Chapters by applicable IEEE Society code(s).

3. List Affinity Groups in the Section (e.g., GOLD, WIE, Consultants Network, Life Members).

4. List Student Branches in the Section (include the college/university name).

- 4a. Are all Student Branches within the Section active/have the minimum membership requirement (12)? If not, list the Student Branches and what steps the Section has made in an effort to revitalize its under-performing Student Branches? *(not more than 250 words)*

5. Of those Chapters, Affinity Groups, and/or Student Branches listed above, please list which were newly formed during the previous year.

### **Member Engagement**

***Please provide examples of the following types of programs/activities/efforts in which the Section\* participated, including the benefit/impact to IEEE members and/or the public. Please do not exceed 250 words per area.***

6. Community Service Projects that projected positive visibility to IEEE

7. Technical Programs

8. Professional Programs

9. Educational Programs

10. Other Programs

11. Programs co-sponsored with other professional/technical organizations

12. Student Branch Programs benefiting IEEE Student members

13. Programs/efforts that facilitated interface between Higher Grade IEEE members and IEEE Student Branch members

14. Programs/Efforts that facilitated improved industrial relations

15. Programs/Efforts that facilitated improved government relations

### **Awards**

16. Provide examples of awards presented by the Section\* to recognize IEEE members, non-members, firms, etc. Include how the recipient was impacted and the goal that was achieved. *(not more than 250 words)*

17. Provide examples of awards presented to the Section\* to recognize individual IEEE members or the Section, Chapters, or Affinity Groups. Include how the recipient was impacted and the goal that was achieved. *(not more than 250 words)*

### **Member Recruitment & Communication**

18. Compare statistics for Higher Grade membership and Student membership in the Section\* from this year to the previous year. *(not more than 250 words)*

19. Describe the methods used to communicate with the general Section membership and the number of times that each method was used last year. (e.g., electronic newsletter, hardcopy newsletter, postcard, E-Notice, Section website). *(not more than 250 words)*

20. Detail efforts conducted by the Section\* to recruit new IEEE members and new Section\* volunteers. *(not more than 250 words)*

21. List any Section governing documents and the last year they were updated (e.g., bylaws, operations manual, guides). Provide web link(s) to governing documents, if applicable.

\*\* Has the Region Director been informed of this award nomination? If yes, please indicate the date and how they were notified (i.e., via e-mail on 9 June 2007). \_\_\_\_\_

**NOMINATOR CONTACT INFORMATION**

Name: \_\_\_\_\_

Member #: \_\_\_\_\_

Email: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**REGION AWARDS COMMITTEE CHAIR CONTACT INFORMATION**

Name: \_\_\_\_\_

Member #: \_\_\_\_\_

Email: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**PLEASE EMAIL COMPLETED NOMINATION FORMS to [mga-awards@ieee.org](mailto:mga-awards@ieee.org)**

Questions? Contact Gail Sheedy at [g.sheedy@ieee.org](mailto:g.sheedy@ieee.org) or +1 732 562 6044

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## IEEE Region 3 Executive Committee – 2009

Director  
*William (Bill) Ratcliff*

Director Elect  
*Lee Stogner*

Secretary  
*David G. Green*  
*Gregg L. Vaughn, Ph.D., P.E.*  
(Assistant Secretary)

Treasurer  
*Charles E. Hickman, Ph.D., P.E.*  
*Donald W. Hill*  
(Assistant Treasurer)

Past Director  
*George McClure*

Area 1 Virginia Council  
*William Clayton*

Area 2 North Carolina Council  
*James Conrad*

Area 3 Georgia  
*Curtis Lee*

Area 4 Florida Council  
*Quang Tang*

Area 5 Tennessee Council  
*Tim Bigelow*

Area 6 Alabama/Mississippi  
*Keith Jadus*

Area 7 South Carolina Council  
*Brent Baker*

Area 8 Kentucky & Indiana  
*John Parr*

Area 9 Jamaica  
*Devon Gayle*

### **Standing Committees**

Awards & Recognition  
*Mary Ellen Randall*

Audit  
*Dale Caston*

Communications  
*Bill Clayton*

Conference  
*Sean Haynes*  
*Donald W. Hill*

Educational Activities  
*Bruce Walcott*

Finance Committee  
*Charles E. Hickman, Ph.D., P.E.*

Leadership Development and  
Regional Support  
*Charles J. Lord, P.E.*

Membership Development and  
Life Cycle Management  
*Charles J. Lord, P.E.*

Nominations & Appointments  
*George McClure*

Professional Activities  
*Adeeb Hamzey*  
*Susan Ronning*

Strategic Planning  
*Richard (Dick) Riddle*

Student Activities  
*Eric Ackerman, Ph. D.*  
*Pat Donohoe, Ph.D., P.E.*

### **Communications Subcommittees**

Electronic Comm. Systems  
Coordinator  
*David G. Green*

Newsletter Editor  
*William LaBelle*

Public Information  
*David L. Bower*

Webmaster  
*Eric S. Ackerman, Ph.D.*

### **Conferences**

Southcon Representative (senior)  
*James H. Beall*

Southcon Representative (junior)  
*James M. Howard*

SoutheastCon2008  
*Eric Gregorian, Keith Jadus*

SoutheastCon2009  
*Amy Wilson, Bill Marshall*

SoutheastCon2010  
*James Conrad*

Sections Congress  
*Jim Howard, Sean Haynes*

### **Leadership Development and Regional Support**

Archive Management  
*Charles Lord*

Help Desk

Section/ Rejuvenation  
*William (Bill) Ratcliff*

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## IEEE Region 3 Executive Committee – 2009 (continued)

### **Professional Activities Subcommittees**

SPAC Chair <i>James M. Howard</i>	IEEE USA Career & Employment Assistance <i>Carl Hussey</i>	IEEE USA Government Activity <i>Lee Stogner</i> <i>Carl Hussey</i>
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### **Membership Development**

Life Members Regional Coordinator <i>David McLaren</i>	GOLD Representative <i>Wah Wah Myint Garris</i>	Industry Relations <i>Alan Thomas</i>
Women in Engineering <i>Parveen Wahid</i>	Member Recruiting and Retention <i>Lee Stogner</i>	Employment and Career Assistance <i>Carl Hussey</i>

### **Strategic Planning**

History <i>Vernon Powers</i>	Special Projects <i>TBD</i>	Special Review <i>Roy Harris</i>
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### **Student Activities**

Student Representative  
*Matt Erickson*

To contact any of the above members, please go to this website  
<http://www.ewh.ieee.org/reg/3/comp.html>