



# IEEE *IEEE*Edmont Potential

A publication of the IEEE Piedmont Section - November 2004

Section Web page: <http://ewh.ieee.org/r3/piedmont/>

Council Web page: [http://www.ieee.org/sc\\_council](http://www.ieee.org/sc_council)

Today's Engineer: <http://www.todaysengineer.org>

## NEXT MEETING

### Michelin's Real Time Tire Monitoring System

Lee Stogner

The October meeting at the BMW Zentrum with Bob Geolas of ICAR was a success. Everyone that attended learned about the exciting plans that Clemson University and ICAR have for their new automotive research campus in Greenville. The Piedmont Section Automotive Systems series of meetings continue on Dec 2 with

a talk by Terry Gettys, President of Michelin Americas Research Corporation, (MARC). Michelin will be a part of the ICAR program and Mr. Gettys will discuss one of their new technologies, the Real Tim Tire Monitoring System.

**Where:** Greenville Tech, University Center Auditorium

**.When:** Thursday, December 2, 2004

**Agenda:**

6:30 Social/gathering ½ hr

7:00 Introduction and speaker

Driving directions are on the

back page.

## IEEE Employment & Career Services

The IEEE has a wealth of resources available to members to assist in employment, career planning, and professional development. We have compiled a short list of places that you, as an IEEE member, can go for these services.

Career Navigator IEEE-USA has created the Career Navigator website which has employment

assistance information, entrepreneurs' resources, information on conferences and workshops, as well as links to material that can be used for local section meetings and workshops on career development. It also provides links to the IEEE Job Site, and to the Employment & Career Strategies online discussion forum, where a variety of topics related to careers and employment issues can be freely exchanged with other members.

<http://ieeusa.org/careers>

## IEEE Job Site

The IEEE Job Site is the official IEEE members site to search for employment opportunities throughout the country. You can create a profile of your ideal job and update

## Remember to Renew your IEEE Membership Today!

Here's what's new in 2005:

- New Society
  - o IEEE Intelligent Transportation Systems Society
- Society Name Change
  - o IEEE Computational Intelligence Society (Formerly IEEE Neural Networks Society)
- New Publications
  - o IEEE/OSA Journal of Display Technology
  - o IEEE Transactions on Industrial Informatics
  - o New Society Package IEEE Robotics And Automation Transactions Package
- New Digital Libraries
  - o IEEE Control Systems Conference Digital Library
  - o IEEE Power Electronics Society Digital Library
  - o IEEE Reliability Society Conference Digital Library

Other Options to Consider

- o IEEE Standards Association (Ieee-Sa)
- o IEEE Women In Engineering

<http://www.ieee.org/renew>

Remember, IEEE has reduced rates for members who are retired, unemployed, students, or have a low income.

it anytime. Jobs matching the profile can be viewed immediately, or automatically sent via email.  
<http://careers.ieee.org>

### **Employment & Career Strategies Forum**

For discussion, information, and a place to bounce ideas off other members, the Employment and Career Strategies Forum is always available 24/7. Join in a discussion topic, or start your own.

<https://www.ieeecommunities.org/ecs>

### **PACE Network**

The Professional Activities Committees for Engineers (PACE) is a grassroots network of IEEE volunteers and committees organized at the section and chapter level in the United States with support from their respective regions and the IEEE-USA. The PACE Network promotes the professional interests of IEEE's U.S. members and provides a mechanism for communication of members' views on their professional needs. <http://ieeusa.org/pace>

### **Region 3 Employment Web Page**

Your region has established a local employment page to help members within Region 3. This page has been developed to bring together into one location the best sources of career planning, current job openings and information about companies that may be hiring in Region 3.  
<http://www.ieee.org/r3jobs>

### **Employment Help from Your Local Section**

Often the most important but overlooked employment resource

is your own local Section. At your Section, you will meet engineers from other companies in your own back yard. Become a part of the local IEEE Network and be in touch and be prepared.

<http://ewh.ieee.org/ecc/r3/>

The Piedmont Section has an Employment Referral Service. If your company has internal openings for Electrical Engineers, let us know and we will make that information available to other Piedmont Section members. Please send your company employment information to Lee Stogner: [l.stogner@ieee.org](mailto:l.stogner@ieee.org)

### **Improving Exports Could Help EE Employment**

IEEE-USA Webzine

WASHINGTON (12 November 2004) The U.S. Department of Commerce (DOC) is working to help technology companies increase their exports, which could in turn open more employment doors for engineers and other workers, according to a recent article in the IEEE-USA Today's Engineer monthly Webzine.

"There's really a huge untapped market," said Neal Burnham, deputy assistant secretary of U.S. Commercial Services. "We estimate that 95 percent of the market for small companies is outside the United States."

The DOC's Commercial Services program includes exhibits by 39 government agencies that attend nearly three dozen major trade

shows around the country. The agencies are putting a significant focus on China, where significant growth is expected. "It's a very dynamic place where they need a lot of things," Burnham said.

DOC officials note that companies increasing their exports usually increase their employee counts. That's a big positive in electronics, which continues to see shrinkage in employment despite signs of an economic up tick. A key benefit of the government efforts is that many services are free, while others have lower costs than similar services provided by companies in foreign countries, according to IEEE-USA Today's Engineer.

The entire article is available at <http://www.todaysengineer.org/July04/exports.asp>

### **Piedmont Section Elections**

Mark Stokes

Last month we had open nominations for section officer positions. As is customary, I will be stepping down as chair, leaving at least one vacancy on the executive committee and I have nominated each remaining person for another year in the following positions:

Chair: Rob Scruggs

Vice-Chair: Wayne Cockrell

Treasurer: Jerry Clark

This leaves a vacancy in the Secretary's position. At BMW last month, Mike Nice was nominated for the Secretary's position and at present is the only nominee. We will vote these members into office at the next meeting (listed above). If anyone is interested in serving, please contact me immediately and we'll get you added to the list. I have written a few articles on what it means to be an officer and how it has helped me. Browse the newsletter archives for "Message from the Chair" articles, mostly in the fall.

## **Influence Future Engineers**

IEEE Scoop

The IEEE Educational Activities Board has several resources available to members that focus on pre-college students, teachers and guidance counselors.

The Educational Activities Board Teacher In-Service Program features IEEE Section volunteers developing and presenting technologically oriented subject matter to local pre-college educators in an in-service or professional development setting. The focus on local school districts is a key feature to this program as local engineers and educators can develop long lasting collaborations.

Educational Activities has converted fifteen activities from the Teacher In-Service Program into complete lesson plans in English and Spanish that teachers and volunteers can use in classrooms. Each lesson is aligned with education standards, and includes teacher summaries, student worksheets, and activities. For more information, go to <http://www.ieee.org/organization/s/eab/precollege/tispt> and contact Adib Chebli at: [a.chebli@ieee.org](mailto:a.chebli@ieee.org).

## **IEEE Technical Experts Guide**

IEEE Scoop

If you need to find an authority for a particular subject area, a good place to start is with the IEEE Technical Experts guide. This guide is a resource covering more than 500 technical topics and includes contact information for IEEE experts qualified to answer questions or make referrals. For the alphabetized list, or search function, go to <http://www.ieee.org/TEG>.

## **Fundamentals of Intellectual Property**

Many employers and business managers today expect their engineers, designers and scientists to be sources of innovation that can be protected as a valuable asset. As an engineer, how can you obtain and maintain intellectual property rights?

<http://www.todaysengineer.org/2004/Nov/IPfundamentals.asp>

### **Self-Assessment:**

A Required Skill for Lifelong Learners. When you were in school, you had teachers to guide your learning. Even after graduation, we must consider pursuing learning for the rest of our professional lives. Now, though, we must be both teacher and student. Here's how.

<http://www.todaysengineer.org/2004/Nov/self-assessment.asp>

## **IEEE-USA Leads Efforts For Senate Approval Of L-1 Visa Reform Bill**

On 30 September, the Senate unanimously approved the "L-1 Visa (Intra-company Transferee) Reform Act of 2003," S. 1635, which prohibits the placement of L-1 (intra-company transfer) visas at work sites owned, operated and controlled by unaffiliated employers. IEEE-USA opposed the exemption and hundreds of U.S. IEEE members sent letters to their Senators to help achieve Senate approval for this bill.

To learn more about this immigration issue, go to: <http://www.ieeeusa.org/policy/issues>

## **EWEEK Future City Competition Recruiting Engineering Mentors**

EWeek's Future City Competition is recruiting engineer volunteers interested in working as technical advisers to middle-school teams entering the competition. Engineer mentors act as part of the team, and students learn firsthand how to turn ideas into realities.

To sign up, or learn more, visit: <http://www.futurecity.org>

## **Volunteers Needed For IEEE E-Merit Badge Booth at 2005 National Scout Jamboree**

The IEEE's [emeritbadges.org](http://emeritbadges.org) program needs more than 100 volunteers for the IEEE Electronics Merit Badge Booth at the 2005 U.S. National Scout Jamboree, to be held next year in Caroline County, Va., from 25 July to 3.

For more information, visit: <http://www.ieeeusa.org/communications/notable/emeritbadges.asp>

## **"Getting Back" Rather Than "Giving Back"**

For many members, doing volunteer work for the IEEE is a way of giving back to a profession that has provided a satisfying career. IEEE Senior Member Daniel R. Benigni says volunteering has given him more than he could ever give back in return. Read more about Benigni at

<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/oct04/10w.profile.html>

## **IEEE Online Communities**

An IEEE Web account is needed to access online communities. As of 15 November, members

who participate in the IEEE Online Communities will have to use their IEEE Web account login to access the service. Users are urged to update their community profile with their member number and Web Account login name and password. For more information, visit <http://ieeecommunities.org>

### **Driving directions to the Greenville Tech University Center:**

#### **Coming from Columbia:**

From I-26 exit to I-385. Take 385 toward downtown Greenville. Take the South Pleasantburg exit (Hwy 291). Proceed until you reach Antrim Drive (about for traffic lights). Turn left and then right into McAlister Square Mall parking after the bank. The University Center is the first building. Please enter the building at the Phillips Staffing entrance (facing Pleasantburg Drive). The University Center is on your left.

#### **Coming from Spartanburg:**

Go South on I-85 approaching Greenville and take exit 51 for I-385 toward downtown Greenville. Take the South Pleasantburg exit 40 (Hwy 291).

Proceed until you reach Antrim Drive (about four traffic lights). Turn left and then right into McAlister Square Mall parking after the bank. The University Center is the first building.

#### **Coming from South of Greenville**

Go North on I-85 approaching Greenville to exit 51C (385 North connection) toward downtown Greenville. Take the South Pleasantburg exit (Hwy 291). Proceed until you reach

Antrim Drive (about four traffic lights). Turn left and then right into McAlister Square Mall parking after the bank. The University Center is the first building.

Follow the signs to the Auditorium on the ground floor.

A map and other information about the University Center can be found at,

<http://www.greenville.org/location.htm>

### **\*\* IMPORTANT Newsletter Notice \*\***

Is this the only newsletter you've seen this year? If so, then the IEEE database likely has your email address incorrect. The Piedmont section mails out newsletters almost every month. Those with valid email addresses will receive an E-Notice containing the content in the newsletter. Sadly there is not a way to capture the list of failed email attempts to try to send those people a USPS copy, so those with invalid email addresses don't get any newsletter pushed to them.

Those with no email address registered with IEEE will have the newsletter mailed to them via USPS. This is a considerable cost to the section, so we like this list to be as short as possible. Of course, the section web page always has the latest newsletter online before the E-Notice or the mailing.

We are sending this newsletter out to everyone in the section regardless of email status so that we can be sure to reach as many members as possible and to invite those that haven't been receiving a newsletter to check their email address with IEEE. Either call 1-800-678-4333 or visit <http://www.ieee.org/memberservices> to check your email and address information.

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