

**IEEE**

# Grit & Grin

Winston-Salem Section of IEEE

Web site: <http://www.ieee.org/winston-salem>Summer Issue 2014

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## **Splinters from the Chair**

Back in the 18<sup>th</sup> century, our country's founding fathers risked both life and limb, so that we could escape the wrath of an oppressive English government. They were all volunteers. Volunteering is in our blood, and is still alive and well in most of today's Americans.

With our lives and freedoms relatively secure, many of us volunteer to help make our neighborhoods, communities, and world a better place in which to live. Our actions are vast in scope, ranging from picking up trash along the highway to installing microgrids in small African villages. We seek to help those in need and enhance the future of our descendents. Through innate creativity and implementation skills, we, as Engineers, have the ability to bring about tremendous impact through our volunteering efforts. In the process we enrich our own lives, meet new people, and come to understand new cultures and/or technologies.

The Institute of Electrical and Electronics Engineers is a volunteer organization. With only a few paid professionals for support, the volunteers, fundamentally, manage and carry out the mission of our standards groups, individual societies, and geography-specific regions and sections.

The Winston-Salem Section Officers and Committee Chairpersons are all volunteers, too, attempting to help others reach their full potential. They all deserve our thanks and support. If you can find a few hours a month, please volunteer to help design, develop and manage the Section's activities. You'll be glad you did!

Jeff Mueller, Section Chair

## **Wake Forest University EMBS**

EMBS coordinated to have several female WFU Biomedical Engineering students host an afternoon activity about biomedical, chemical, and process engineering for girls at Hanes Middle School. The girls also got to make their own lip balm as part of the activity; they learned that biomedical engineering can have cool applications that they are interested in!

Dustin Crouch has continued the after-school program at Kennedy High School. EMBS members will be tutoring in math and science a few days per month. Caitlin Weaver has organized several opportunities for

WFU students to volunteer in the community including Lillie's Friends 5K and serving at the Ronald McDonald house.

EMBS is alternating with the BMES Club in hosting monthly happy hours for the department; in March the first year Virginia Tech students were in town for clinical rotations, and EMBS and BMES hosted a joint happy hour while they were here.

Megan Johnston, Chair

## **Forsyth Tech IEEE Club**

New officers were elected for the coming year.

President - David Schultz  
Vice President - Alex Haynes  
Secretary/Treasurer - Jon Wright  
Public Relations - Jero Crowley

The club voted to hold no formal meetings during the summer. Ad Hoc project related meetings will be held to work on specific projects.

The student 3D printer was calibrated and a first article (BatMan) was produced with the last of the plastic material. Additional spools of plastic will need to be acquired. It was noted that Markus had spent over \$400 of personal funds to complete the build. Markus is to put together his invoices for possible reimbursement, perhaps from IEEE.

The club will demonstrate the operating 3D printer in Raleigh in June at the Maker Faire. They will solicit donations as they did last year.

The Forsyth Tech engineering department is planning to buy 10 Arduino/Raspberry Pi modules for student use over the summer.

The student club feels that they need to:

- (a) train more students to use the printer;
- (b) get other students involved producing Robohands;
- (c) involve Mech. Engr. Students for design projects;
- (d) prepare for Fall Fest by making items for sale (fund raising); and
- (e) prepare flyers and banners for use at club events and demos.

Club officers are petitioning the Student Council for annual support funds.

Google+ and Facebook are currently being used for group communications.

Bobby Garriott and Alex Haynes supported the Forsyth Tech open house in April.

## **News**

We have had excellent programs each month in the first half of the year: Of particular interest was one on cyber security for internet, industry, and personal computers. Another worth mentioning was one on retirement planning in today's industrial pension plans and financial markets.

Our thoughts and good wishes go out to Jeff Perryman, our Vice Chairman. He is recovering at home from heart surgery. Good luck and heal quickly Jeff!

Senior member grade is an honored level in the Institute of Electrical and Electronic Engineers. It requires ten years in the field and five of those years must show significant performance. The application requires a written narrative of the accomplishments and three references at Senior or Fellow level. Do you think you meet these requirements? Do you know someone who does? If so, contact me, or one of our officers to start the process.

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## **Officers and Committees 2014**

### **Section Officers**

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