



May 2015

Twin Cities Section of the  
**Institute of Electrical & Electronics Engineers**

*The Radiator*

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**Monthly Newsletter for the Twin Cities Section of the IEEE**

**Consultant Workshop – Coming Soon!**

*Steven James, Workshop Chair*

Have you ever thought of becoming a Consultant?  
Are you currently a Consultant – looking to improve your skills?

The IEEE Consultants Network of the Twin Cities and IEEE-USA Alliance of IEEE Consultants' Networks invite you to attend a full day **Consultant Workshop** in the Minneapolis area. The workshop will cover a range of issues that interest consultants – both new and experienced. The workshop will wrap-up with a panel discussion featuring multiple members of the IEEE-USA Alliance of IEEE Consultants Networks

The workshop will take place on Saturday, May 30<sup>th</sup> on the University of Minnesota campus. Registration cost starts at \$50 for IEEE members Early Bird Registration.

Find more information and Registration link [HERE!](#) Non-IEEE Members are also welcome!

Workshop questions? Contact Steve James at [james@ieee.org](mailto:james@ieee.org)

**2015 Metro Area Workshop – Success!**

*Jim Riess, MAW Chair*

Did you forget to register for the 2015 IEEE Twin Cities Section Metro Area Workshop (MAW)? If you did, you were not one of the fortunate 105 participants in this prestigious event.

This year's MAW was a two day event held on Friday April 17 and Saturday April 18 at the Earle Brown Heritage Center in Brooklyn Center, MN. Along with excellent networking opportunities and great food, several knowledgeable speakers presented a variety of interesting subjects for the unbelievable price of \$139. These included Electric Power courses on Transmission System Planning, Power System Protection and Electricity Market Pricing. Also included were Cyber Security, RF Design, Mixed Signal IC Verification, Scalable Systems, Robotics, Robust Design and even an Artificial Heart Tutorial. As an added feature, there was a track on managing your career and how to get the work you want.

If you lost this year's opportunity to participate in this valuable event, watch for future Metro Area Workshops possibly returning to the Twin Cities area or for sure in other cities throughout the United States.



## Chair's Corner

Andrew McCain, Section Chair



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Welcome back - take a minute to look through what we have to offer!

### New & revitalized chapters

In the last year, we've had a ground swell of interest in getting participation.

- Technology Management: TEMs has returned as a chapter, and is getting more active.
- Power Electronics: PELs
- Solid State? – We're hearing rumblings that there may be some interest here . . . are you one of those people?

### Groups

- Young Professionals – formerly GOLD. A new format and an expanded idea. A great opportunity to continue your professional track, get some networking in!
- Life Members – thank you for the opportunities to help pass on the knowledge you've gathered and nurtured throughout the years. Mentorships, your own continued paths ahead deserve support and recognition. Help us get it to you!

We're needy people! We need people to step up and spend a few hours a month to keep things running, & provide the services you deserve. Join us! We're looking for people with an interest in:

- Young Professionals
- Communications
- Membership
- Awards
- Finance
- Banquet Planning
- Student & Educational Activities
- Technical Activities

Anywhere you see a need! We can be flexible, and can tailor to your strengths.

For descriptions of what some of these committees and positions are, you can get some ideas from the IEEE Center for Leadership Excellence (CLE):

<https://iee-elearning.org/CLE/>

## Awards

We all like to be recognized and appreciated. Just by giving an award or recognition certificate, formally recognizing someone in front of a group we're telling the person that their work is appreciated. We have the opportunity to honor our hard working IEEE peers on February 27<sup>th</sup>, 2016 at the IEEE Twin Cities Section and MFESTS Awards Banquet. Nominations are being accepted for:

- Section Outstanding Engineer
- Section Outstanding Member
- Section Outstanding Student
- Section Corporate Outstanding Engineer

More information and nomination forms can be found on the Section website at [Committees -> Awards](#). Nominations can be sent to [tc-chair@ieee.org](mailto:tc-chair@ieee.org).

## Upcoming Events

### *Improved Reliability through the use of EMC Immunity Standards*

Reliability Chapter

May 19<sup>th</sup>

Click [HERE](#) for more information

### *Mayo Clinic Tour*

Instrumentation & Measurement Chapter

May 21<sup>st</sup>

Click [HERE](#) for more information

### *Consultant Workshop*

Consultants Network

May 30<sup>th</sup>

Click [HERE](#) for more information

### *Executive Committee Meeting*

Section Chapters & Committees

June 2<sup>nd</sup>

Click [HERE](#) for more information

### *Bluetooth Communication Systems for Medical Implant Applications*

Microwave Theory and Techniques Chapter

June 12<sup>th</sup>

Click [HERE](#) for more information



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## How can I get Involved???

There are many ways that you can become involved in the Section activities:

### **Technical Chapters:**

The local section has 13 chapters of the IEEE technical societies who are always looking for volunteers to be officers, speakers, or meeting hosts. If you are interested in any of these or are interested in starting a new chapter in your area of expertise, send an email to [TC-Chair@ieee.org](mailto:TC-Chair@ieee.org) and we will direct it to the correct people. Training is available so don't be worried that we just hand you the keys and say go to it!

### **Corporate Ambassadors**

Corporate Ambassadors are IEEE members who volunteer to promote the benefits of IEEE membership and sponsorship at their place of employment to both their employer and to co-workers. The Corporate Ambassadors committee of ExCom is responsible for recruiting and supporting the ambassadors.

Ambassadors:

- Actively recruit new members to join IEEE.
- Post meeting notices and the newsletter on department bulletin boards or if appropriate internal websites and by email.
- Assist in recruiting volunteers for chapter and section activities.
- Promote sponsorship of the local section and conferences to corporate management.
- Obtain sponsorship from companies.

We would like to recruit as many people as possible to be ambassadors. If you would be willing to be an Ambassador at your company, please send an email to

[TC-Sec@ieee.org](mailto:TC-Sec@ieee.org).

**IEEE  
Twin Cities Section**

Officers:

**Section Chair:**

Andrew McCain  
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**Section Vice Chair:**

Brian Bock  
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**Section Secretary:**

Brady Mayes  
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**The Radiator**

Is a publication of the Twin Cities Section of the IEEE – Institute of Electrical and Electronic Engineers

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See us at:  
[www.tc-ieee.org](http://www.tc-ieee.org)

## Promoting Chapter meetings

### How to announce meetings:

If you are a chapter or ExCom officer you can create a meeting notice using vTools on the IEEE site. When you create a meeting notice it automatically shows up on the local IEEE website, the IEEE Region 4 website, and on members MyIEEE pages when they log in using their IEEE web account. These can also be used for meeting registrations. Meeting notices to members of your chapter or subgroup need to be sent using the eNotice tool again on the IEEE website.

### How Do I Get My Event Included In Future editions of The Radiator?

The Radiator is the publication of the TC Section, with the intended purpose to inform local IEEE members of news and events happening in the section that may be of interest. Published chapter events will receive top billing. To be included, chapters should post their meetings on our website, [www.tc-ieee.org](http://www.tc-ieee.org) using IEEE vTools. Information about other events or announcements can be sent to [tc-chair@ieee.org](mailto:tc-chair@ieee.org), but please note that IEEE content rules must be followed.

## How do you communicate?

*Steve Weber, Communication Chair*

There is so much great information: interesting projects, seminars, meetings, promotions, recognition, new technologies, etc. It comes to us in so many ways: email, text, postal mail, RSS feeds, Twitter, telegraph, Facebook, voicemail, LinkedIn, websites, newspapers – to name a few. How do YOU

communicate? How can we effectively and efficiently communicate the sights, sounds and activities of the IEEE Twin Cities Section to you, our current members, and your fellow engineers who are not members yet? I'm Steve Weber, the section Communications Chair, and this is the challenge we'll be addressing in the

coming months. What are your thoughts? Are there Best Practices from your employer or other organizations you're involved with? Let me know – I'm looking forward to talking with you! Contact me at [tc-news@ieee.org](mailto:tc-news@ieee.org).

## This Day in History

On this day in history, May 13, 1884, the American Institute of Electrical Engineers (AIEE), predecessor of the [IEEE](http://www.ieee.org), was formed at a general meeting held at the headquarters of the American Society for Civil Engineers (ASCE). Many prominent inventors and innovators in the field of electrical engineering were present at the meeting, including Thomas Edison, Nikola Tesla, Elihu Thomson, Edwin J. Houston, and Edward Weston. AIEE's first technical meeting was then held on October 7-8 during the International Electrical Exhibition of 1884 in Philadelphia, Pennsylvania. Alexander Graham Bell served as President of AIEE from 1891 to 1892.

On January 1, 1963, the AIEE merged with the Institute of Radio Engineers (IRE) to form the Institute of Electrical and Electronics Engineers (IEEE).

