



ION Saint Louis

FALL 2015



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Chair's Column

Saint Louis Section of IEEE Chair's Column, September 2015

After a summer hiatus, our Section had our planning meeting on Aug 31st at Parks College in Saint Louis University. We have planned a series of events, for the next five months, that will surely be of interest to both our student and professional members.

I want to highlight some of the events that we have planned for you this year. We will kick off the fall season with a fall barbecue event organized by the Rolla student chapter on September 19th at Schuman Park in Rolla. There will be games and food for everyone to enjoy as well as tours of the ECE building and the solar village on campus.

We will be having our Senior Member drive this year on September 28th in conjunction with our Section Planning Meeting at Saint Louis University. This is an open invitation for all our qualified professional members to elevate their membership grade to Senior, which is the highest grade one can self nominate or be nominated by others. Please see the flyer for more details.

Ameren will once again host a Lean fundamentals training in October, exact date to be decided later. This event is one of our highly successful events, both for professional as well as student members. I want to thank Prasenjit Shil and the Ameren team, once again, for graciously hosting this important training for our membership.

We have two sponsored events on October 24th. The St. Louis Section will sponsor refreshments for our student programmers that are participating in the Xtreme Programming hosted by the IEEE at each participating University. We will also sponsor the BillikenBots, hosted by Saint Louis University students. This is a special event where the Saint Louis University students host 6 through 12 graders, from St. Louis area schools, to introduce them to engineering and STEM fields. Last year, over 60 students from Barnhart, Belleville, O'Fallon, Ferguson, St. Louis City, University City, Rockwood and Parkway attended BillikenBots.

Chair's Column

The Student Blackbox competition will be held in November 14th at Saint Louis University. This is a competition where students get to wear the engineering hat and deduce the circuit inside a box by only measuring the inputs and outputs.

We will end our year with the Winter Social on December 12th at the Engineers' Club of St. Louis. Dr. Aaron Bobick, the new Dean of School of Engineering and Applied Science at Washington University will deliver the keynote speech. Our Vice-Chair, Yoelit Hiebert, will lead the Winter Social planning. Look for more information in an upcoming e-notice.

I want to congratulate Ben Cardwell for being elected Section Secretary for 2016. In keeping with the tradition of alternating between the academia and the industry, Ben will be joining in from the industry next year. St. Louis Section Secretary is a progressive position which will move up annually into the positions of Treasurer, Vice-Chair and Chair respectively. Welcome to the St. Louis Section Executive Committee for 2016 Ben!

I am extremely happy to be serving as your Section Chair for 2015 and looking forward to meeting all of you at one of our Section events this year.

Thank you,

Prakash B Shahi

Chair, St. Louis Section



IEEE St Louis Section News

Call for Award Nominations 2015 Annual Outstanding Awards

The Saint Louis Section is proud to announce its Call for Annual Outstanding Awards. This is a tradition where the best of the best are recognized for outstanding talent in their profession. Please consider this opportunity to appoint a fellow member of IEEE that is your colleague, friend, employer, customer or mentor that you feel is deserving of one of the following awards. All recipients will receive an engraved plaque, name printed in the ION and a free invitation to the Winter Social

Awards Categories:

Outstanding Young Engineer – 1-10 years since graduation

Outstanding Educator

Outstanding Student Branch

Outstanding Company – at least one employee/executive is a Section Member

Outstanding Student Member – Student Member or Graduate Student Member

Outstanding Section Member – greater than 10 years since graduation

Outstanding Branch Counselor

Instructions: Fill out the nomination form below and send to sec.stlouis@ieee.org. The nominee cannot be a member of the Executive Committee nor have won the award in the past 5 years. All nominees must be active members in good standing in the St. Louis Section of the IEEE.

The deadline is September 27, 2015.

Award Category from List Above REQUIRED	
Nominee's Name (Individual or Company) REQUIRED	
*Nominee's IEEE Member # REQUIRED	
Phone	
Email REQUIRED	
Professional, Student and IEEE Significant Accomplishments/Contributions REQUIRED	Attach as PDF or DOC to the
Submitted by REQUIRED	
Phone	
Email REQUIRED	

*Name will be verified with SAMIEEE IEEE database to confirm active membership.

*For the *Outstanding Company Award* nominations the member numbers not required, but you must include the names of at least a Manager or an Executive that can represent the company at the Award Ceremony.

IEEE St Louis Section News



IEEE Day 2015 is going to be held on Tuesday, 6 October. This will be the sixth anniversary of our members celebrating the anniversary of the first time IEEE members gathered to share their technical ideas in 1884.

Since the first IEEE Day event in 2010, the number of events worldwide has grown over 600% from 80 to over 520! To help grow this even larger we are looking forward to more events/activities in Regions 1-6, WE NEED YOU!

This is a wonderful opportunity for you to connect your members to IEEE on a local and global scale. Section and Chapter leadership engagement is critical to IEEE Day's success! Start collaborating with your volunteers and student branch leaders to plan and commemorate the day. [No idea/event is too small.](#)

The [IEEE Day 2015 homepage](#) is currently under construction.

Make sure you don't forget Social Media, everyone can follow IEEE Day on [Facebook](#), [Google+](#), and [Twitter](#).

Thank you for all you do for the members of IEEE.
Regards,

Muhammad Ahsan Farooqui
IEEE Day 2015 Ambassador, Regions 1-6
RF Design Engineer, Ericsson
ahsan.farooqui@ieee.org

IEEE St Louis Section News

Section Secretary 2016 Know Your Section Secretary!



Benjamin Cardwell is currently Manager of Business Development at Penta Engineering Company in St. Louis. He has thirty years experience in mechanical heavy industrial design, project and construction management. Over the years, he has worked in facility management, minerals (cement, lime) processing, grain and salt industries. At Penta Engineering, he started as a senior lead mechanical designer and held other positions of increasing responsibility including Project Manager and Construction Manager before his current position. Before Penta, he worked at Anheuser Busch in the Facilities Design and Management group and was Regional Manager for Artisan Contracting.

Ben is a member of the National IEEE, ISA, CIC Committee and National Lime Association. He has been published in 2013 World Cement Magazine relating to NESHP Compliance.

IEEE St Louis Section News

IEEE XTREME PROGRAMMING COMPETITION

Registration is now open for IEEEExtreme 9.0, the global 24-hour online programming competition. Grab your friends and start forming your teams today. Registration will close on 12 October 2015 at 00:00:00 UTC.

Fame: Competing in the world's most 'Xtreme' programming contest is a big deal participating means you get unlimited bragging rights.

Fortune: Grand prize is a trip to the IEEE conference of your choice, anywhere in the world.

Second place team members each receive an iPad Air®.

Third place team members each receive an iPad mini®.

Fourth - Tenth place team members each receive a Raspberry Pi computer.

Top 100 place team members will receive an Xtreme merchandise bundle and special software gifts from competition partners.

Opportunity: [Past IEEEExtreme winners](#) have had great success in leveraging their competition performance in their career growth.

Visit the [IEEEExtreme website](#) for complete contest rules and prize information.

IEEEExtreme 9.0 Programming Challenge. No travel required, just brain power, stamina and your favorite energy drink. [Watch the IEEEExtreme video on IEEE.tv.](#)

Sincerely,
IEEEExtreme Team

Upcoming Events

IEEE SECTION BBQ PICNIC

It's that time of the year again! The IEEE BBQ picnic is quickly approaching! Mark your calendars for September 19th. Please RSVP before September 15th if you plan on attending. The event will take place at Schuman Park from 11 am to 2 pm. There will be lots of games as well as tours of both the ECE building and Solar Village. You don't want to miss out on good times and good BBQ so come on by!

To RSVP please go to <https://orgsync.com/66321/events/1161955/occurrences/2579634>



Upcoming Events

IEEE Saint Louis Section

Senior Member Grade Elevation Night 2015

Sponsored by the Saint Louis Section of IEEE

September 28 2015

6:00 – 7:00 PM (Planning Meeting)

7:00 – 8:30 PM (Senior Member Drive)

Refreshments will be served

Venue:

St. Louis University, Parks College

3450 Lindell Boulevard

St. Louis, MO 63103

Senior member is the highest grade for which IEEE members can apply. IEEE members can self-nominate, or be nominated, for Senior member grade.

To be eligible for application or nomination, candidates must:

- Be engineers, scientists, educators, technical executives, or originators in IEEE-designated fields;
- Have experience reflecting professional maturity;
- Have been in professional practice for at least ten years (with some credit for certain degrees);
- Show significant performance over a period of at least five of their years in professional practice.

Benefits of Senior Membership

Recognition, Senior member plaque, Letter of commendation, Announcements, Leadership Eligibility, Ability to refer other candidates, Review panel

What to Bring

IEEE Member Number

Electronic resume CV on flash drive or emailed in advance to sec.stlouis@ieee.org, include,

Start and stop date for each degree

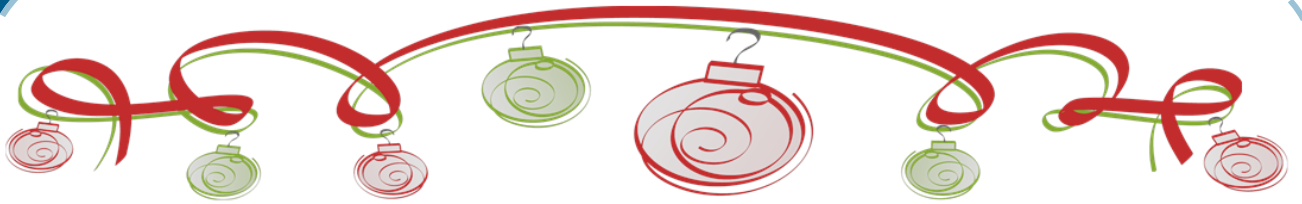
Ten years of Professional experience

Five years of *significant experience*

Check your eligibility at:

http://www.ieee.org/membership_services/membership/senior/senior_requirements.html

Upcoming Events



Save The Date

Saint Louis Section of the IEEE

Presents

Winter Social 2015

*Dec 12 2015, 6 PM at the Engineers' Club
of St Louis*

Keynote Speaker: Dr. Aaron Bobick

Dean of School of Engineering & Applied Science

Washington University in St. Louis



Advertisements



www.twm-inc.com

Electrical Engineering Designer (EI)

Thouvenot, Wade & Moerchen, Inc., one of the largest civil engineering firms in the St. Louis area, is currently taking applications from **Electrical Engineering** graduates with interest / specialization in **Low Voltage Distribution and Industrial Control applications**. This full-time position is based in our Swansea, IL office. TWM is an established but growth-oriented consulting firm offering Civil and Structural Engineering, Surveying and Planning services in the St. Louis metropolitan region.

Must be a certified Engineer Intern or Engineer-in-Training, with a BS in Electrical Engineering and 2-3 years of experience. Experience with water / wastewater lift station and treatment plant projects is desirable, but not required. Candidates must be detail-oriented, committed to accuracy, and possess strong analytical thinking ability.

Ideal candidates will have some experience in or exposure to the following:

- Designing facility electrical systems, including service and distribution.
- Designing control panels and process control systems.
- Performing SCADA system design and integration.
- Preparing plan sheets using Autodesk platforms and preparing technical specifications for electrical equipment.
- Adhering to design standards including NEC, OSHA, IEPA and all applicable local codes.
- Designing building interior / exterior lighting, site lighting, roadway lighting and using photometric calculation software.
- Selecting, sizing and specifying generators and using generator sizing software.
- Work on design-build projects.
- Reviewing equipment submittals for compliance with plans and specifications.
- Visiting job sites to observe contractor installation / start-up of electrical equipment. Conduct field testing and final inspections to assure compliance with plans and specifications.
- Estimating costs for electrical work on projects.
- Meeting with clients to assist in resolving operational and/or maintenance issues.
- Effectively communicating with clients, contractors and other stakeholders.

Position is in the Water / Wastewater Department, but will also support Land Development, Transportation, and other departments / projects as needed. Example projects may include control panel designs for wastewater collection system lift stations, complete electrical system design for wastewater treatment plants, site lighting and streetscape lighting. IDOT / MODOT highway lighting experience would be a plus. Future growth plans for TWM include further expanding into the electrical engineering field and adding support staff.

This could be an exciting opportunity for a professional desiring to advance in his/her career. This kind of person can be very successful within the TWM organization, where employees are compensated for individual and team effort and where the firm is quick to share the rewards of that collective effort.

Competitive salary and fringe benefit package, with consideration given to personal knowledge, skill, and ability. Regular salary reviews, performance bonuses, non-contributory Employee Stock Ownership Plan, insurance, 401K, holidays and Paid Time Off.

To apply visit www.twm-inc.com, click Careers and How to Apply and follow the instructions. Use the application for Licensed Engineers / EIs / Design Engineers. **Indicate "Application – Electrical EI" in the subject of your email.** Your transcript can be emailed or sent under separate cover.

If your software does not support this download, call (618) 624-4488 and ask that an application form be mailed to you. No other phone calls, please.

TWM is an EEO / AA employer.

Advertisements



www.twm-inc.com

Electrical Engineer

Thouvenot, Wade & Moerchen, Inc., one of the largest civil engineering firms in the St. Louis area, is currently taking applications from experienced **Electrical Engineers** with specialization in **Low Voltage Distribution and Industrial Control applications**. This full-time position is based in our Swansea, IL office. TWM is an established but growth-oriented consulting firm offering Civil and Structural Engineering, Surveying and Planning services in the St. Louis metropolitan region.

Must be licensed as a Professional Engineer, with a BS in Electrical Engineering and 5-10 years of experience. Experience with water / wastewater lift station and treatment plant projects is desirable, but not required. Candidates must be detail-oriented, committed to accuracy, and possess strong analytical thinking ability.

Ideal candidates will have direct experience independently:

- Designing facility electrical systems, including service and distribution.
- Designing control panels and process control systems.
- Performing SCADA system design and integration.
- Preparing plan sheets using Autodesk platforms and preparing technical specifications for electrical equipment.
- Adhering to design standards including NEC, OSHA, IEPA and all applicable local codes.
- Designing building interior / exterior lighting, site lighting, roadway lighting and using photometric calculation software.
- Selecting, sizing and specifying generators and using generator sizing software.
- Work on design-build projects.
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This could be an exciting opportunity for an experienced professional with proven knowledge, skill and ability. This kind of person can be very successful within the TWM organization, where employees are compensated for individual and team effort and where the firm is quick to share the rewards of that collective effort.

Competitive salary and fringe benefit package, with consideration given to personal knowledge, skill, and ability. Regular salary reviews, performance bonuses, non-contributory Employee Stock Ownership Plan, insurance, 401K, holidays and Paid Time Off.

To apply visit www.twm-inc.com, click Careers and How to Apply and follow the instructions. Use the application for Licensed Engineers / EIs / Design Engineers. **Indicate "Application – Electrical Engineer" in the subject of your email.** Your transcript can be emailed or sent under separate cover.

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