



# IEEE Rochester Section

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May 2019 Newsletter

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## Message From the Chair

Dear colleagues,

April was a busy month. Greg Gdowski, Eric Brown and I attended the Board of Governors meeting of Region I, which was held in Southbridge, MA. Greg is a candidate for the Region I Director elect.

We had an EXCOM meeting prior to the Joint Chapters Meeting. It was decided by the EXCOM that we will alternate between China Buffet and Tandoor, alternatively. May will be at China Buffet and June will be at Tandoor.

The Joint Chapters Meeting was successful, with Jon Kriegel's scintillating key-note on the Chandra X-Ray telescope, which was built at Eastman Kodak. This talk also highlighted the great capabilities that were once part of Kodak. The other speakers did a great job. Kudos to Cristian for all the effort he put in to make the 2019 Joint Chapters Meeting a success.

Preparations are underway for the SCR/Thyristor milestone which will be in Clyde New York, on June 14th. I am working with the organizers on the attendee-list.

We are also working on the summer outing. We should have an announcement by next month.

*Sreeram Dhurjaty*

## Engineering, Exploration, and Experimentation Fair at Rochester Institute of Technology

IEEE was represented at the Engineering, Exploration, and Experimentation Fair ([www.e3fair.org](http://www.e3fair.org)) for middle school students on March 25, 2019. The fair was held at RIT and about 200 students, some from 10 schools, and some home schooled, attended. They came from Rochester and the surrounding towns. IEEE was one of the ten exhibition booths at the fair.

The IEEE booth was a "Mini Power System Model – From the Substation to Your Home". Students got a chance to fault a distribution line and see the lights go out at the house in the table top model. Also, in a separate demo they were able to suit up in protective gear (hard hat, safety glasses and rubber gloves) and attempt to open and close a line fuse.



Jean Kendrick and the mini power line model



Student faulting distribution line in the model



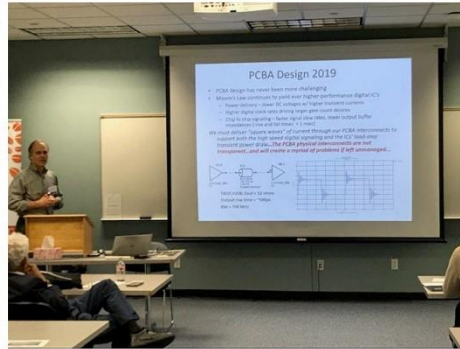
Student opening and closing line fuse

## The Joint Chapters Meeting

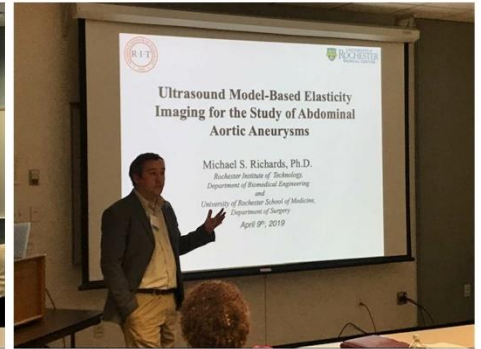
On Tuesday, April 9<sup>th</sup>, 2019 the IEEE Rochester Section hosted its Joint Chapters Meeting, which gathered more than 60 IEEE members and enthusiasts for an evening of science, technology, engineering, STEM education and networking across all chapters within the IEEE Rochester Section. This year, we were delighted to once again host several high-profile speakers. Jon Kriegel delivered his keynote address on the Chandra X-ray telescope and also spoke about his involvement with founding STEM Bridges. The program also features several speakers from academia, as well as industry, including Vanteon and Applied Logix.



Our keynote speaker, Jon Kriegel, three time president of Rochester Engineering Society and founder of STEM Bridges, spoke on the Chandra X-ray telescope, as well as STEM initiatives in Rochester and the area beyond.



Jim Herrmann from Applied Logix spoke on common printed circuit board design pitfalls and presented a set of best practices for component selection, stack-up, and trace routing for achieving optimal electromagnetic compatibility and signal and power integrity.



Michael Richards from RIT and University of Rochester Medical Center spoke about ultrasound-based elasticity imaging to study abdominal aortic aneurysms.



Ziming Zhao from the College of Engineering and Technology at RIT spoke about attack and defense on mobile and IoT devices.



Amlan Ganguly from Computer Engineering at RIT spoke about power-efficient datacenter networks wireless communication.



Aaron Roof from Vanteon spoke about software-defined radio in industrial IoT applications.

## IEEE Rochester Section Events

For current information and registration links for our events, see <http://sites.ieee.org/rochester/>

Event	Vtools #	When	Where
Young Professionals Networking		Thursday, April 11 <sup>th</sup>	ROC Brewing
Nominations for ExCom due		On or before May 1 <sup>st</sup>	Details are in the March newsletter
EXCOM Meeting		May 7 <sup>th</sup> . 11:50 – 13:00	China Buffet, Southtown Plaza
Thyristor Milestone Ceremony		June 14 <sup>th</sup>	Advanced Atomization Technologies, Clyde, New York