

WATT'S NEW  
NEWSLETTER OF THE BALTIMORE SECTION OF THE IEEE  
November 2014

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The web site for the Baltimore section of the IEEE is:

<http://ewh.ieee.org/r2/baltimore>

The web site for the Baltimore section newsletters is:

<http://www.ewh.ieee.org/r2/baltimore/WattsNew/IndexWattsNew.html>

The web site for the Scanner is:

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

The web site for the full interactive digital version of the Scanner with multimedia content is:

<http://ewh.ieee.org/r2/capitalarea/eSCANNER/digital.html>

The Scanner is published six times per year in January, March, May, July, September, and November, and the email notice will be sent six times per year.

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## **1. IEEE Baltimore Chapter IAS Section – Protective Relaying Tutorial**

### **When:**

November 11, 2014  
12:30 pm – 5:00 pm

### **Where:**

Capital Tristate  
600 W. Hamburg St.  
Baltimore, MD 21230

### **Title:**

Protective Relaying

### **Speaker:**

Rogério Scharlach

### **Abstract:**

The tutorial will focus on the design and implementation of protective relaying systems, including protection schemes for transformers, feeders, buses motors and generators. In addition, the course will cover analysis, performance and application of current transformers. Arc-flash protection schemes using digital relays will also be discussed.

### **About the Speaker:**

Rogério C. Scharlach received his BSEE from the University Mackenzie, Brazil, in 1991. Upon graduating, he served nearly 13 years at Siemens in Brazil and the United States, where he worked as a commissioning and field service engineer in the areas of power generation, transmission, and distribution. He joined Schweitzer Engineering Laboratories, Inc. in 2005 as a field application engineer.

Members, who take part in this tutorial will receive 4 professional development hours and the last day to register is **October 31<sup>st</sup>**.

For contact information or to sign-up go to tutorial page at  
<http://www.iasbaltimore.org/Protetive%20Relaying.htm>

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## **2. IEEE Baltimore Chapter – Signal Processing Society Meeting/Seminar**

**When:**

November 19, 2014

**Where:**

National Electronics Museum  
1745 West Nursery Rd,  
Linthicum, MD 21090

**Title:**

Observation Theory and the Ensemble Detector

**Speaker:**

Dr. Paul Racette

**Abstract:**

This presentation will describe the ensemble detector, delve into stochastic process theory, draw parallels between calibrating a radiometer and selecting one's news source, explore implications of ensemble realizations and Observation Theory, and find humor in the possibility that we're all riding together on a wild stochastic wave.

**About the Speakers:**

Paul Racette is a senior engineer at the NASA Goddard Space Flight Center in the Microwave Instrument Technology Branch, where he leads the radar and radiometer sensor technology development for studying and monitoring the Earth from ground, air, and space. His research includes sensor development and calibration, modeling and analyzing non-stationary processes, and the relationship between observation and awareness. Dr. Racette is Editor-in-Chief of IEEE's [www.earthzine.org](http://www.earthzine.org), an on-line publication that fosters Earth observation and global awareness as an outreach activity for the Intergovernmental Group on Earth Observation.

For more information follow the link to IEEE Signal Processing Society webpage:

[http://www.ewh.ieee.org/r2/baltimore/sp/sp\\_meeting\\_2014\\_01.html](http://www.ewh.ieee.org/r2/baltimore/sp/sp_meeting_2014_01.html)

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### 3. IEEE Signal Processing in Medicine and Biology Symposium (SPMB14)

**When:**

Saturday, December 13, 2014

**Where:**

Temple University, Philadelphia, PA

**Abstract:**

As advances in signal processing become ever more present, the significance of this field becomes more apparent in other engineering fields. This regional symposium, which expects 125 researchers to attend, will address how these advances will help the development of smarter technology in the field of prosthetics and bioengineering. At the event attendees can be assured of two plenary talks, two oral sessions and two poster sessions.

The conference is encouraging all to develop demonstrations or exhibits at the one day event. Presenters may choose to submit **either** of the following:

- An original 4 to 6 page paper for peer review. If the paper is accepted, then it will be submitted to IEEE Xplore and presented at the symposium.
- A one-page abstract describing recent or ongoing work. If the abstract is accepted, then it will be presented at the symposium in a poster session.

**Important Dates:**

**Early Registration:** Nov. 15, 2014

*For a list of all the topics presented at the symposium, please review the following charter from the symposium:*

[IEEE\\_SPMB\\_2014](#)

*Please visit the website for more information regarding all the day's events, directions, dates at the following web address:*

<http://www.ieeespmb.org/2014>

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### 4. IEEE Baltimore Chapter - Continuing EE Education (CEEE)

As we continue to make the Baltimore Chapter the most knowledgeable and informed group of IEEE members in the world, we need your help! We are asking for any courses/seminars and speakers suggestions. IEEE is comprised of many members that have interests in a range of topics inside the electronic and electrical engineering fields. If there is a suggestion for a course/seminar that you are interested in learning more about or have an interest in sharing your knowledge with other members, then please contact the section chair, Boris, at [bgramat@jhmi.edu](mailto:bgramat@jhmi.edu).

“The true sign of intelligence is imagination” ~ Albert Einstein

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**5. IEEE Baltimore Section – Watts New - Editor**

Dear IEEE Offices & Members,

If your chapter of IEEE Baltimore Section would like to contribute to the newsletter in the future months with articles, events or discussion topics to the newsletter, then please send [me](#) an e-mail. I look forward to working with all of you in the future and I appreciate the opportunity!

Also make sure to follow the IEEE Baltimore newsletter on twitter @UsWatts! There you will find out “Watts Up” in the IEEE Baltimore area along with interesting articles impacting our members every day. I hope to see you there!

Ryan Klein  
*IEEE Baltimore Section Newsletter Editor*