



# IEEE Rochester Section

Serving Rochester Engineers  
for over 100 years

## December Newsletter, 2015

<http://rochester.ieee.org>

### Executive Committee

**Chair:** Greg Gdowski  
[greg.gdowski@gmail.com](mailto:greg.gdowski@gmail.com)

**Vice Chair:** Andreas Savakis  
[savakis@ieee.org](mailto:savakis@ieee.org)

**Treasurer:** Bill Fowlkes  
[william.fowlkes@kodak.com](mailto:william.fowlkes@kodak.com)

**Secretary:** Ray Ptucha  
[rwpeec@rit.edu](mailto:rwpeec@rit.edu)

**Awards:** Jean Kendrick  
[kendrick388@frontiernet.net](mailto:kendrick388@frontiernet.net)

**Newsletter:** Anh Karam  
[anh.karam@rit.edu](mailto:anh.karam@rit.edu)

**PACE:** Joe DeVita  
[j.devita@ieee.org](mailto:j.devita@ieee.org)

**Univ. of Rochester Chapter:**  
Wendi Heinzelman  
[wheinz@ece.rochester.edu](mailto:wheinz@ece.rochester.edu)

**RIT Chapter:** Gill Tsouri  
[grteee@rit.edu](mailto:grteee@rit.edu)

### Chapters, Council, & Groups

**COMMSOC/AES:** Nirmala Shenoy  
[nxsvks@rit.edu](mailto:nxsvks@rit.edu)

**CS, CIS:** Peter Anderson  
[pga@cs.rit.edu](mailto:pga@cs.rit.edu)

**EDS, CSS:** Sean Rommel  
[sremc@rit.edu](mailto:sremc@rit.edu)

**EMBS:** Cristian Linte  
[christian.linte@ieee.org](mailto:christian.linte@ieee.org)

**GRSS:** Emmett Ientilucci  
[emmett@cis.rit.edu](mailto:emmett@cis.rit.edu)

**LIFE:** Henry Simon  
[henrysimon@frontiernet.net](mailto:henrysimon@frontiernet.net)

**APS, MTTs:** Gregory Pettis  
[gpettis@harris.com](mailto:gpettis@harris.com)

**Photonics:** Bruce Smith  
[bwsemc@rit.edu](mailto:bwsemc@rit.edu)

**PES, IAS:** David Krispinsky  
[dgk@rit.edu](mailto:dgk@rit.edu)

**SPS:** Nathan Cahill  
[ndcahill@gmail.com](mailto:ndcahill@gmail.com)

**TEMS:** Chris Cassidy  
[ccassidy314@gmail.com](mailto:ccassidy314@gmail.com)

### Message from Chair

Dear IEEE Colleagues,

It is almost hard to believe we are at the conclusion of another great year in the Rochester IEEE Section! This year we had some wonderful events including: Stem events at RIT, baseball game networking events, a summer meeting highlighting Steven Sasson, wine making events, as well as numerous technical meetings in our Chapters and Groups. This month marks the return of the WNYISPW meeting, which has been a highlight of the Section. This year we exceeded our goals for membership retention, and we were also the top performer of all sections within Region 1. This could not have been done without the help of all of our spectacular volunteers! Congratulations on a great year, we could not have achieved these goals without your support.

Last month the Nominating Committee of the IEEE Rochester Section submitted the following candidates for the Executive Committee Elections to be held in December. Chair: Greg Gdowski, Vice Chair: Andreas Savakis, David Krispinski, and Ram Dhurjaty, Secretary: Raymond Ptucha, and Treasurer: William Fowlkes. Voting will open on our web pages on December 1 and will close on December 20<sup>th</sup>. Each office will now carry a 2yr term as mandated in the MGA IEEE bylaws. Please cast your vote for the upcoming elections! See you next year!

### Upcoming meetings

#### Western New York Image and Signal Processing workshop

December 4th, 8:00am - 5:00pm

Louise Slaughter Hall,

Rochester Institute of Technology



The WNYISPW is a venue for promoting image and signal processing research in our area and for facilitating interaction between academic researchers, industry researchers, and students. The workshop builds off of 17 successful years of prior workshops in Western New York. The workshop comprises both oral and poster presentations.

#### Topics include:

- Formation, Processing, and/or Analysis of Signals, Images, or Video
- Computer Vision
- Information Retrieval
- Image and Color Science
- Applications of Image and Signal Processing, including: Medical Image and Signal Analysis, Audio Processing and Analysis, Remote Sensing, and more.

#### Please see the conference website

(<http://ewh.ieee.org/r1/rochester/sp/WNYISPW2015.html>) for further details.



2015 Outstanding Section Membership  
Retention Performance  
Rochester Section

## Photonic Detector Technology for Exploring the Universe

December 9th, 6:30pm - 8:00pm

Xerox Auditorium

RIT College of Engineering

Gleason Bld. 08-2580



Don Figer

**Director**  
**Center for Detectors**  
**Rochester Institute of**  
**Technology**

Photon detectors have been the single most important device type for discovering answers to the most fundamental questions about the Universe. Electronic photon detectors (i.e. photonic detectors) are now the primary devices for gathering information to answer these questions. In this talk, Professor Figer will review research and development of advanced photonic detectors for astronomical and other applications. The most demanding next-generation applications will attempt to answer the questions: Are we alone in the Universe? What is the nature of dark energy and dark matter? Furthermore, he will give examples of how photonic detector devices could be used for applications closer to home in order to answer the questions: How does the human brain function and develop? Can we improve outcomes for breast cancer survivors? Is it possible to build ultra-high speed fully secure global computer networks? Can we “see in the dark” and through obstructions to help ensure our national security?

Dr. Donald Figer is Professor in the College of Science and Director of the RIT Center for Detectors where he is principal investigator of a dozen projects to advance detector technology for a broad array of applications. He has published over 160 papers with over 2200 citations. He is a member of the Large Synoptic Survey Telescope and the Thirty Meter Telescope science teams.

### Volunteers Appreciation Event

**WHEN:** [Thursday, December 10th, 2015](#)

**WHERE:** [ARTISANworks](#)

[565 Blossom Rd](#)

[Rochester, New York](#)

[United States 14610](#)



#### Agenda

6:00PM - 6:30PM Cocktails, Hors D'oeuvres, and music!

6:30PM Tour (based on availability)

7:00PM - 7:30PM Awards Ceremony

7:45PM - 10:00 PM Dinner

Registration can be found here: <https://meetings.vtools.ieee.org/m/34859>

### The next Rochester Section Excom meeting is on Tuesday,

**December 1<sup>st</sup> at Noon** at the Hibachi Sushi Buffet Restaurant in South

Town Plaza on Jefferson Road just west of West Henrietta Road (Route 15).

Any member is invited to attend. Lunch is \$5 for IEEE members and \$3 for student members. No reservations are needed, just show up. Directions can

be found on our web pages at: <http://rochester.ieee.org/events-activities/monthly-excom-meetings/>

### The Rochester Section welcomes the following new members!

Ling Cai, Jacob Cappiello, Li Ding, Michael Ferrari, Sanghui Han, Michal Kucer, Nahal Maleki, Rounak Narde, Dakota Piazzi, Rasoul Shafipour, Forrest Shooster, and Zihao Wang.

Membership statistics	
Associate Member	22
Fellow	14
Graduate Student Member	75
Life Fellow	14
Life Member	100
Life Senior	35
Member	544
Senior Member	98
Student Member	61
	<b>963</b>