Director’s Message
Timothy P. Kurzweg, Region 2 Director, kurzweg@ieee.org

Thanks for reading our IEEE Region 2 Newsletter. We are doing some great things in Region 2, and we are excited to share them with you. We have been focusing on opportunities for Young Professionals, working professionals, and students, and I think you will see we have really been engaging with these members. I have asked our Region Leaders and Sections to provide some of these updates to this newsletter to give you a glimpse of our Region activity.

Student Activity Conference:
John Golzy, SAC Chair, jgolzy@devry.edu and Jeffrey Eker, R2 Student Representative, ekerj53@students.rowan.edu

On January 1, 2015, the SAC Committee welcomed Jeff Eker as the new R2 Student Representative replacing Mickey McLaughlin who graciously served for over three years. Jeff is a student at Rowan University in New Jersey and was the co-chair of 2014 SAC that was held at his university.

The focus of the committee since July 2014 and until recently was on the 2015 SAC that was held at the Ohio State University in Columbus, Ohio, April 10-12, 2015. 210 students and 15 counselors from 25 universities throughout Region 2 attended the conference and participated in the leadership workshops and a number of competitions including the brown bag, ethics, micromouse robotics, student papers, project showcase, physics, sumo robot and T-Shirt design. An Awards Banquet was held on Saturday evening. The winners of the competitions were awarded certificates and cash prizes totaling $8,280. The total cost of the 2015 SAC was $49,309.35. The SAC committee and students at the Ohio State University raised $24,642.82. Region 2 contributed $24,666.53 which was nearly $10,000 less than what it was budgeted.

The 2016 SAC will be held at the Cleveland State University (CSU) in Cleveland, Ohio, April 8-10, 2016. John Golzy and Jeff Eker have already started their bi-weekly conference calls with the team at CSU. The goal for the 2016 SAC is to get major sponsorship from local and national industries including First Energy, Rockwell Automation, and National Instruments; and possibly holding some of the events at their locations in Cleveland area.

The SAC committee would like to thank the Columbus, Southern New Jersey, Erie, Cincinnati, Pittsburgh, Cleveland, Baltimore, and Philadelphia section for their generous contributions to the 2015 SAC. A number of other sections contributed to travel expenses and registration fee of students in their sections. In addition a number of industries
and IEEE entities made contributions to the 2015 SAC.

This past month, Jeff traveled to the IEEE Region 10 Students, Young Professionals, and Women in Engineering (WIE) Conference in Sri Lanka. Delegates representing more than 100 countries attended the conference. Jeff who did an internship with Rockwell Automation this summer was able to use his experience from this conference to connect Rockwell Automation with the WIE conference in Philadelphia and for a more in-depth role at the next SAC. As a result of the visibility gained from this travel, Jeff is now working with Rockwell Automation at the highest levels to find the best fit between IEEE and Rockwell Automation.

John and Jeff attended the 2015 MGA SAC meeting in Charlotte, NC, July 31-August 2. A number of issues such as the rebates of student branches and sections, student awards, competitions, industry relations, and improving communications were discussed. Regional student representatives including Jeff presented reports on student activities in their regions. Please forward all your SAC-related questions, comments, or suggestions to John Golzy at golzy@ieee.org or Jeffrey Eker at jeffrey.t.eker@ieee.org.

Treasurer’s Message
Wolfram Bettermann, Region 2 Treasurer, bettermann@ieee.org

On January 1, 2015, the R2 Committee welcomed Wolfram Bettermann as the new R2 Treasurer following the footsteps for Gerard (“Gerry”) Christman who served in this position for many years. Thank you, Gerry for your efforts and advice in making the transition very smooth and successful for our Region.

Our goal for the Region 2 ExCom Committee is a balanced budget for 2015. Working together with our R2 Committee leadership enabled us at this time of the year to have an outstanding status of our estimated R2 end of year budget projection. Intensive restructuring of current financial practices helped us together with R2 SAC leadership to save over $10K from the projected budget of $35k for the SAC 2015 conference!

Feel free to reach out to me with any questions you may have.
Important New Deadline for Section Treasurers: Financial Reporting Requirement

Per MGA Board approval, the deadline to submit your financials has been changed. The new deadline to submit your financials is 15 March of each reporting year.

Pittsburgh Section
James Beck, Pittsburgh Section Chair, jebeck@ieee.org

Currently, the Pittsburgh Section has a little over 2,000 members. Additionally, we have one sub-section, two affinity groups, four committees, and 15 chapters. In 2015 we've had a lot of activity. Some activities are traditions that we've carried on for many years. Others are new, and are leading our section in new directions.

In March, we sponsored the annual IndEEE 500cm Robotic Car Race in conjunction with the National Engineers Week celebration at the Carnegie Science Center. It's hard to believe, but we've been organizing this event for over 20 years now, and it's become a great service project benefiting middle school students in our area.

The 2015 Intel International Science and Engineering Fair (ISEF) was hosted in Pittsburgh at the David Lawrence Convention Center in May. Our section was proud to appoint the lead IEEE judge, organize a judging team, participate in the event and select the winner of the $10,000 IEEE President's scholarship. We were very proud to support IEEE at this worthwhile event.

Our chapters have also been very active. To date, we've held approximately 20 technical seminars. We're also pleased to report that the Power Electronics (PELS) chapter that was newly formed last year received the 2014 Best Chapter Award, while the PES/IAS joint chapter received a PES high performing chapter award. We're also pleased to welcome a new chapter of the Council for Electronic Design Automation (CEDA), which was newly formed this year. This is new for us in many ways, since it's our first chapter affiliated with an IEEE council rather than a technical society and it's also spread out geographically. Besides the Pittsburgh Section, the new CEDA chapter is also part of the Philadelphia and Central PA sections.

We've also hosted a number of social events, including our annual history and awards dinner. This is a tradition going back many years, and this year we were privileged to honor two newly elected IEEE fellows in our section, along with a life member that recently celebrated his 50th anniversary as an IEEE member.

Our section also supported a number of ongoing IEEE activities. Representatives from the Pittsburgh Section participated in the annual Region 2 meeting, the IEEE USA annual conference and the IEEE USA congressional fly-in in March. We also facilitated a meeting between an IEEE USA representative, our PACE chair and the Mayor of Pittsburgh to discuss immigration issues relevant to our profession and IEEE members at large.

Last but not least, we succeeded in recruiting some new volunteers in 2015. This includes 3 new section officers, a new chapter chair, and new chairs for the Young Professionals and WIE affinity groups. Additionally, we created a new position on our executive committee -- section student representative -- and we plan to appoint a student member to this position later in the year to strengthen our relationship with the IEEE student sections in our area.
Region 2 Vitality
Rhonda Farrell, Region Vitality Coordinator, rhondalfarrell@aol.com

Region 2 is ramping up vitality efforts by taking a back to basics approach and putting together a long-term strategic plan, while focusing on creating stronger operating relationships between the area directors and the respective section leadership teams and senior regional advisors. Additional focus is on continuous improvement activities relating to the expansion and hardening of the annual vitality related activities and ensuring that direct lines of communication are opened up to ensure the proper level of support to enable sustained growth.

Erie Section
Robert Weissbach, Erie Section Chair, rsw7@psu.edu

The Erie Section has had a productive spring. Both Penn State Behrend and Gannon University hosted student paper competitions in March, where IEEE student members were able to present their capstone or research projects to a team of judges and win prize money. There was also a very informative tour of the Erie Water Works water treatment facility in January, where up to 54 million gallons of water can be treated for submicron particles. The tour group was able to see how the entire water treatment process was automated, and toured the backup generators. Finally, there was a social event in May where IEEE members could sit down and have a relaxing time with other members and their families. The section is looking forward to its annual New Members dinner in the fall, along with other possible tours and speakers.

Johnstown Section
M. Edward Brandau III, Johnstown Section Chair, mbrandau@firstenergycorp.com

Johnstown Section has been a bit slow the last two years, but we are still kicking. We still have issues with obtaining volunteers for leadership positions. I will be reaching out to one new volunteer who was an officer in the past to get us a little “new” blood, but this is our largest issue. Our main employer in the area is having trouble so we lost three officers last year since they moved out of the Section to obtain new jobs. Other professional groups, even those not in engineering, are having the same issues. This sounds like a broken record here. Sigh.

This year we continued to support our local engineering college, UPJ, the University of Pittsburgh at Johnstown. We provided guidance on the engineering Industrial Advisory Board, senior projects, and offered financial support to a senior EET student, senior project, and provided judging and awards to the senior projects at their completion. That support has paid off since we have added and retained some student members and even had one volunteer as an officer after graduation! That’s great news.

We also participated in the local Engineer’s Week banquet where we announced the senior student award recipient. We had an event or two that were attended by a few members, and that’s about as good as it has been. I plan on touring a local substation that has had a lot of upgrades by the utility (my employer, Penelec) later in September that I expect to have well
attended. Perhaps at that event we will get ideas for other events to boost involvement.

**Woman in Engineering (WIE)**
Vicky Drury, Region 2 WIE Coordinator, vickydrury.ieee@gmail.com

We are pleased to announce upcoming IEEE WIE Summit USA East 2015 in Philadelphia, PA on November 6-8, 2015 at Sheraton University City. This Summit is organized as joint event between IEEE WIE Region 2 and IEEE WIE Region 1.

[IEEE WIE Summit USA East - Flyer]

http://sites.ieee.org/wie-summit-usa-east/

**Other IEEE Region 2 WIE 2015 events:**
- Girls "It's Cool to Code" Camp, prepared and organized by Pamela Jones was held on 13-17 July, 2015 at Norte Dame Prepatory School, Towson, MD. The children learned how videogames are made (methods, variables, loops, etc.) using Greenfoot interface and Java programming language. The camp went unbelievably well and tremendously successful that sponsors and superintendent of schools are eager to do this again next summer with an option of having abbreviated version of the Code Camp during winter holiday break. (http://theinstitute.ieee.org/career-and-education/preuniversity-education/want-to-intereset-girls-in-tech-teach-them-to-code.)

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**Baltimore Section**
Ryan Kline, Baltimore Section Newsletter Editor, r.klein.us@ieee.org

The Monumental City’. Just as to the moniker describes a city that proudly displaying its many accolades across the skyline, the members of IEEE Baltimore would like to take a moment to boast our chapter’s accomplishments. Recently, our chapter has...
been recognized by the IEEE Membership Recruitment and Recovery Committee for reaching our membership recruitment goals over the past 3 years. In Baltimore our chapter’s goal is not exclusive to grow in numbers, but to nourish the growth our our young professionals and senior members in programs designed to develop the skills needed to tackle tomorrow’s challenges. For our chapter the future of tomorrow starts with youth of our communities and that is why we are proud of our IEEE Robot Challenge, which in April we will be celebrating the 20th year of the challenge. Our Robot Challenge brings together students throughout the Baltimore area to compete in a variety of different challenges designed to test the abilities of students of all age groups. Also, just this past July, the Baltimore affiliate of the Women-in-Engineering affinity group has teamed up with IBM, Northrop Grumman and a local high school for ladies, Notre Dame Preparatory, to start ‘Girls, “It’s Cool to Code” Camp’ to teach young ladies about computer programming and to inspire future minds to tackle our next programming challenges. Even though developing our communities has important role in developing our members, IEEE Baltimore has other programs built especially for career skills development for members. Having one of the most active member groups in the IEEE, the IAS takes pride in holding monthly professional development seminars in a range of topics including code updates, generator construction, or even energy efficient building design to name a few. The IAS also hold annual classes to develop members unfamiliar with the power distribution and application science fields. Our chapter, also, looks forward to hearing about “3-Dimensional Integration Technology” from Dr. Mukta Farooq or "Electrostatic Discharge Protection in Emerging Technologies" from Dr. Juin Liou among many other topics at the IEEE Baltimore Emerging Electronics Symposium, which will be held this fall. With our close proximity to the best hospitals in the world, it goes without saying that the bioengineering is an important field in Baltimore’s chapter. Our members are proud to participate in conference hosted by the NIH called WH 2015: Wireless Health in October.

From committing to our communities to developing our career skills, IEEE Baltimore is truly monumental in fostering technological excellence for the benefit of humanity. Working with students to develop interest in the engineering has helped to drive not only interest in our organization, but also works as driving force in bettering the lives of all in our communities. From Industry Application sciences to microelectronics, IEEE Baltimore works vigorously to provide an organization built around our members and their needs. IEEE Baltimore is proud to be Baltimore’s monument to technological achievement and advancement for all in our community.

Northern Virginia (NoVA) Section
Rhonda Farrell, Northern Virginia Section Director, 2015-2016, rhondalfarrell@aol.com

Annual activities for the N.VA section to date have been supportive of membership-wide awards and recognition, youth science fairs, as well as a wide variety of Society, Chapter, and Affinity Group activities, including the Computer Society, Control Systems, Industry Applications Society, Life Members, Nanotechnology Council, Power and Energy Society, and Sensors Council.

The section is also implementing a longer-term strategic and business planning initiative which was started in the 2014 time-period, focusing on quarterly reporting on a core set of business initiatives, while ensuring incremental growth targets are being met for the year in the areas of member engagement, membership growth, community impact and outreach, among others.

The section continues its work with the area’s budding engineers, with Marty Schulman running with Annual Science Fair judging
contests with the aid of Amrajeet Basra, as well as supporting disadvantaged youths through the support of Camp Invention, which is a week-long summer day camp which encourages curiosity, creativity, and cooperation in rising first through sixth grades all across the country.

NoVA – WIE

IEEE WIE members have been strategically partnering with the ISSA International Women In Security group in order to offer their members access to bi-monthly Webinars, access to annual conferences, and ability to contribute in leadership development related activities. Look for more details soon on additional ways WIE members can participate in R2 related activities, including: http://sites.ieee.org/r2/wie/

N.VA / DC - IEEE-CS

The IEEE Computer Society continues to be very active, offering monthly programs in conjunction with the ASQ 509 Software Special Interest Group. Meeting from 2015 have included these notable contributions below. Find more about 3Q & 4Q/2015 meeting offerings at: http://sites.ieee.org/wnv-cs/ & http://www.asq509.org/ht/d/EventListing/pid/372

IEEE Day 2015

IEEE N.VA Section welcomes members to celebrate IEEE Day 2015 on Tuesday 10/7/2015, where we will have a membership open house as well as a senior member drive. Look for more details soon in Vtools!

NOVA STEM

Martin Schulman, Northern Virginia STEM, schulman@tuffmail.com

Encouraging K-12 students in STEM is one of the most requested volunteer opportunities in the IEEE Northern VA Section, and by midyear members had several great opportunities. In February, volunteers helped elementary school students assemble breadboard circuits at the Discover Engineering Family Day held at the National Building Museum in Washington, DC. Co-sponsor IEEE-USA had a booth comparing incandescent, CFL, and LED lighting. Also that month a team of judges from the Northern VA and Washington Sections awarded the Best Communications System to a team in the Future City Competition National Finals. Both events were part of the annual Engineers Week, where this year’s theme was “Engineering New Horizons”.

Four large local school districts hold regional high school science fairs in March. Judges from our section attended events in Arlington, Fairfax, Loudoun, and Prince William awarding cash prizes and certificates to the best entries with significant electrical engineering content. This year’s winners included sophisticated image classification using convolutional neural networks, real-time orthogonal frequency division multiplexing using an FPGA, and control of a full-size humanoid robot using electroencephalography. Recipients of first place special awards also received invitations to our annual awards banquet held jointly with the Washington, DC Section. The best project in each overall category competed in the Intel International Science and Engineering Fair in May.

- Girish Seshagiri: “If it passes test, it must be OK” Common Misconceptions and The Immutable Laws of Software Development
- Shahid Shah: “Injecting Security into SDLC” How to Incorporate a Security Development Lifecycle into the Software Development Lifecycle
- Rudy Regner: Website Performance Testing Strategies to us in Emergency Situations
- Rick Spiewak: Be Careful What You Pay For: Applying the Fundamentals of Quality to Software Acquisition
- Kelly Yamaguchi: Cyber-Security Policy and Ethics
- Craeg Strong: An Old Dog New Tricks: Agile For Legacy Systems
- Michael Chapiro: Software Service Level Agreement and Database High Availability Solutions
In summer, the IEEE Northern VA Section sponsored local scholarships for “Camp Invention”, a one-week summer day program that encourages curiosity, creativity, and cooperation in rising first through sixth graders. Volunteers from the section interacted with students as they moved through four different modules like “I Can Invent: Next Level Gamers” where they remove subassemblies from old electronics and recycle them into original superhero-based game, and "Inducted" where members of the National Inventors Hall of Fame issue challenges as specific as building a tall tower using only newspaper and tape and as ambitious as inventing something to change the world. The teachers are drawn from the local schools and trained by Invent Now, Inc., the national organization that has run the program in every US state during its 25 year history and also holds other programs sponsored in part by the US Patent and Trade Office.

Coordinators solicit volunteers primarily through emails; the SAMIEEE database is used to target members living near local schools. Articles for the local publication or web site may be written, but permission is obtained before posting student pictures. The section applies for PACE matching funds wherever appropriate.

PACE
Emilio M Salgueiro, Region 2 PACE Coordinator, Emilio.Salgueiro@unisys.com

The following table are the to-date funded PACE events in Region 2:

| No. | Section          | Project Leader | Objectives                                                                 | Description                                                                 | Completion Date | Funds Requested | Funds Approved |
|-----|------------------|----------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------|----------------|----------------|----------------|
| 4   | Baltimore        | Jeffrey A. Friedhofer | Electronics Kits for Students                                           | The objective is to purchase sufficient supply of outdated electronics that are safe for use. The purpose is to provide a hands-on experience for students who are interested in electronics. | 5/7/2015        | $250.00        | $250.00        |
| 5   | Dayton           | Benjamin Natran  | IEEE Dayton Section (IEEE University of Dayton Student Section)          | Provide students with an opportunity to develop electronic projects. The program is designed to teach students the basics of electronics and to encourage creative thinking. | 3/10/2015       | $250.00        | $250.00        |
| 6   | Dayton           | Felicia Hatlou   | Professional Development Workshop                                      | Provide the students with an opportunity to develop technical skills and to encourage creative thinking. | $190.00         |               | $190.00        |
| 7   | Dayton           | Felicia Hatlou   | Fall Lecture Series: Addressing Dayton STEM Workforce Crisis             | Provide students with an opportunity to develop technical skills and to encourage creative thinking. | 4/1/2015        | $150.00        | $150.00        |
| 10  | NOVA             | Martin Schulman  | Regional Science Fair Special Awards                                    | Selection of students with projects related to electrical engineering. The project award is given to the winners. | 3/31/2015       | $1,000.00      | $1,000.00      |
| 16  | Southern NJ      | Jasmine Brown    | IEEE Southern NJ Women in Engineering STEM                              | Provide students with opportunities to develop technical skills and to encourage creative thinking. | 4/10/2015       | $250.00        | $250.00        |
| 17  | Susquehanna      | Wolfram Bettman  | Congressional Visit Day                                                  | Provide opportunities to develop technical skills and to encourage creative thinking. | 3/18/2015       | $259.81        | $259.81        |
| 18  | Susquehanna      | Ailo Morales     | 9th Signal Integrity Symposium and Professional Workshop (04/17/2015)    | Provide opportunities to develop technical skills and to encourage creative thinking. | 4/17/2015       | $750.00        | $750.00        |
| 20  | Region 2         | IEEE USA Annual conference | Travel                                                                 | Provide opportunities to develop technical skills and to encourage creative thinking. | 4/17/2015       | $7,800.00      | $7,800.00      |

Any questions regarding PACE funding for 2015, as opportunities still exist, please contact Emilio (Emilio.Salgueiro@unisys.com)

West Virginia Section
Kenan Hatipoglu, West Virginia Secretary, kenan.hatipoglu@mail.wvu.edu

Some recent activities for West Virginia Section are found below:

**Thursday, Feb 26, 2015 – 5:30pm – 7:30pm**
Technical Presentation
“The Latest in LED Lighting Technologies”
By: Jon Akers, State Electric

**Tuesday, April 7, 2015 – 1:00pm – 2:00pm**
Technical Presentation

“Protective Relaying”
by Mr. Mickey Chapman, Protection and Control Engineer at American Electric Power

Friday April 24, 2015 at 6:00pm at the Advance Technology Center, Student Awards in Electrical and Electronic Engineering

**Friday, August 28, 2015 – 6:00pm – 8:00pm**
Technical Presentation
“Information Centric Networking in Vehicular Communications” By: Syed Hassan Ahmed, PhD
Research Scholar MoNeT Wireless Lab
Kyungpook National University Daegu City, Republic of Korea

Young Professionals
Ata Atanasov, Region 2 Young Professional Coordinator, ata.atanasov@gmail.com

Below are some of the YP events that have been held in Region 2. Please contact Ata for further information, or how he can help to establish a YP presence in your Section

Columbus Section YP events
2015 International Space University Space Studies Program Rocket Launch
The International Space University Space Studies Program took place at Ohio University (http://www.ohio.edu/engineering/isu/). ISU participants launched their high-tech model rockets into the sky. Launch will be from the concrete pad near the terminal, with an observation area for public viewing at a safe distance from the launch pad.
Time: Saturday, July 18, 1-5:30 p.m.
Location: Gordon K. Bush Ohio University Airport in Albany, Ohio. (http://www.ohio.edu/airport/)
Cost: Free

Rev1 Ventures Tour and Networking Lunch
Rev1 Ventures (https://www.rev1ventures.com/), formerly known as TechColumbus, is a venture development organization based in Columbus, Ohio. Rev1 Ventures is part VC, part accelerator – with the expertise and connections to fuel startup success. In fact, it is the first and only organization in the region that provides funding to help entrepreneurs increase their probability of success.
Time: 11:45am Friday June 26, 2015
Address: 1275 Kinnear Rd., Columbus, Ohio 43212
Parking: Free
Lunch: Provided by Rev1 Ventures
Cost for participants: Free

Washington Section YP events
Annual IEEE Washington DC Section Picnic
Time: Sep 12 @ 10:30 AM – 2:00 PM
Location: Chevy Chase

Partitioned Global Address Space Models: Tutorials and Lectures
Time: Sep 16 @ 7:00 AM – Sep 18 @ 7:00 PM

Baltimore Section YP events
Open House / Membership Drive
Time: Oct 6 @ 5:30 PM – 7:30 PM

NOVA Section YP events
U.S Army Research Laboratory Open Campus Open House
Time: Nov 3 @ 9:00 AM – Nov 4 @ 5:00 PM
Location: Aberdeen, MD

2015 National Capital Area 52nd Annual Awards Banquet
Time: April 25 @ 6:00pm – 10:10pm
Location: Springfield Hilton
6550 Loisdale Road Springfield, VA 22150
Presenting: "Around the World in 60 Minutes - Exotic Places With a Twist". Featuring Dr. Eli Brookner, AESS Distinguished Lecturer.

Pittsburgh Section YP events
YP Get Together Event
Time: June 18 @ 6:30pm – 9:00pm
Location: Panera Bread – Wilkins Penn Center East, 400 Penn Center Blvd, Pittsburgh, PA 15235
Picnic being planned. Discussed co-hosting the picnic with Lou Hart (Employment Network).

Philadelphia Section YP events
Happy Hour
Time: August 11, 2015 @ 5:00 pm – 7:00 pm
Location: The Bards 2013 Walnut St, Philadelphia, Pennsylvania
An update of activities from the Southern New Jersey Section can be found below:

- Our WIE Affinity Group held its 6th Annual Robot Challenge in April with over 100 High School students competing.
- We are planning a Young Professionals event to get the YP Affinity Group going in SNJ; I appointed a YP Chair, Clif Kaelin to get this started. Clif is a recent graduate of Rowan U (2 yrs ago) and has been active in IEEE as a student and YP. I think he is the right person for the job.
- The section has begun planning for our 18th Annual “Engineer of the Year” Awards Banquet on Nov 19th with the other five professional societies that we partner with in the Southern New Jersey Professional Societies (SNJPS). Partnering societies are:
  - American Institute of Aeronautics and Astronautics (AIAA)
  - Institute of Electrical and Electronics Engineers (IEEE)
  - International Council on Systems Engineering (INCOSE)
  - International Test and Evaluation Association (ITEA)
  - National Society of Black Engineers (NSBE)
  - Human Factors Ergonomics Society (HFES)
- Our 2015 Speaker series resumes this Fall
  - Sep 16th “The James Webb Space Telescope”, Dr. Matt Greenhouse, Astronomer NASA Goddard Space Flight Center
  - Oct 21st invited Paleontologist, Kenneth J. Lacovara, PhD Drexel University (has not responded yet to invitation)
  - Nov 19th Awards Banquet.
  - Dec WIE Holiday Party (tentative)
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Save the Date: Region 2 Committee Meeting, March 12-13, 2016 in Pittsburgh, PA. Details to follow.