



## President's Message

**Robert C. Scully, President, IEEE EMC Society**

**H**ello, and welcome to the first quarter issue of the EMC Society Magazine. It is my distinct privilege and honor to write this, my first President's Message, in this issue. I took possession of the gavel of the Office of President in Rome, Italy, at our November 2013 Board of Directors meeting. As you can probably see in the accompanying picture, Ghery and I were both happy with the handover!

Rome, Italy, may sound like a faraway location, and thus difficult to go to if you wish to attend a Board meeting. Being cognizant of the difficulties, we tried for the first time to use a WebEx connection. Even though many of us use WebEx or similar conferencing systems such as Lync, it proved to "sort of" work for us. But fear not, we tried to use this same capability at our more recent Board meeting in February in Los Angeles, and met with better success. We had several folks who dialed in from remote locations, and after some start-up and learning curve issues, things went fairly smooth. In fact, we had good participation from Frank Sabath in Germany, so we know the system does work! The good news about this is, in the future, we may be able to open up Board meeting attendance to the membership via WebEx. Of course, we are still learning, and do not yet know what sort of limitations we might have, so please stay tuned on this topic as we work our way through the idiosyncrasies of IEEE Information Technology. Be assured that we are looking at various other ways and means of making our Board meetings more accessible.

Some of the most important topics the Board discussed in Los Angeles were changes to the Constitution and By Laws regarding officer status. All the Board members participated in the very lively discussions, and some important changes were agreed upon that we will be socializing with you in the very near future. Changes to the Constitution and By Laws are serious, and require several steps be taken for final approval by the Managing Director of the Technical Activities Board (TAB), the Executive Committee of the IEEE, and of course, the Society members. Yours truly (that's me!) will be heading up that effort, so I look forward to making sure we have changes with which you, the members, are in full accord.

The Board is looking at a number of new initiatives, including an expansion of conference offerings, new electronic/Internet based tools and training experiences, joint co-sponsorship of activities and publications with other IEEE Societies such as Antennas and Propagation, and Microwave Theory and Techniques, and new Sister Society arrangements, just to name a few. All of these are very exciting and promise to new present new opportunities to make your Society membership a more rewarding and enjoyable experience. We on the Board are of course very interested in your thoughts on such topics, as well as any other ideas you may have that could benefit you. Please refer to the Directors section of our Society webpage,



PHOTO BY JANET O'NEIL

*Incoming EMC Society president, Bob Scully (left) of NASA in Houston, accepts the gavel from outgoing EMC Society president, Ghery Pettit of Intel, at the November 2013 Board of Directors meeting. Dr. Scully will serve as president of the EMC Society for the years 2014-2015.*

URL: <http://www.emcs.org/directors.html>, and click on the name or names of the officer or officers you wish to contact. The Board of Directors exists to serve you, the members, and we would very much like to hear from you.

Speaking of involvement, we have many opportunities for you to engage with your fellow members and with the many and varied activities within the Society. Certainly you have the chance to run for a position on the Board of Directors, and I would encourage you to think seriously about that, as we have need for your ideas and your efforts. If that seems out of reach, we have five Vice Presidents (VPs) who would be very grateful indeed to have your ideas and efforts to assist in the many committees for which they are each responsible. You can view the names of these committees on the Directors section of the website. If you see one that interests you, I encourage you to contact the responsible VP for further information. If you still haven't found a niche, you could try the Standards Advisory & Coordination Committee, under John Norgard, or the Standards Development & Education Committee, under Alistair Duffy, or the Education & Student Activities Committee under Mark Steffka, or one of the 10 Technical Committees or four Special Committees we have. Refer to URL: <http://www.emcs.org/committees.html> to start your search for a place to join in! All of these committees are free and open to members, and again, would welcome your ideas and efforts. Many of these committees will be meeting face-to-face in Raleigh, so you can do some shopping around now, and then in August attend one or more meetings and sign up while you have the chance to see the other committee members with whom you'll be working. Committee work is a super

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way to network with other members, learn the latest technical and practical information in your area of interest, have an impact on the discipline that helps you and perhaps your employer, and have fun doing what you love best.

As was the case for my predecessor, one of my major goals during the next few years is to reach out and engage with the younger members of our Society, and encourage younger engineers to consider becoming members. IEEE has a great program called Young Professionals. You can find out more about the program at URL: [http://www.ieee.org/membership\\_services/membership/gold/index.html](http://www.ieee.org/membership_services/membership/gold/index.html). There is also a Facebook page at URL: <https://www.facebook.com/pages/IEEE-GOLDRush/140033550280?fref=ts>. We have our very own Young Professional, Caroline Chan, who leads all of our Young Professional efforts and activities. You can reach Caroline at her email address [caroline.chan@lmco.com](mailto:caroline.chan@lmco.com) and read her article on page 105 of this magazine.

The EMC Society has an internet presence as well, of course. You can see what's happening with our upcoming Symposium

at URL: <http://emc2014.org/>. If you check this website out, you'll see that registration is open, so while you're there, it would be great time to go ahead and sign up! This year we will be having a sort of double Symposium, with both EMC and Signal Integrity tracks and even awards. It is really shaping up to be a fantastic event, and I know you don't want to miss it! I look forward to seeing all of you in Raleigh.

We also have a **Facebook page**, at URL: <https://www.facebook.com/pages/IEEE-International-Symposium-on-Electromagnetic-Compatibility/184607738275544>, a **Google** URL: [https://plus.google.com/109408692741095044644/posts?hl=en\\_US](https://plus.google.com/109408692741095044644/posts?hl=en_US), a **LinkedIn page** at URL: <http://www.linkedin.com/groups/IEEE-International-Symposium-on-Electromagnetic-4040233?gid=4040233>, and even a few **YouTube videos** to share, at URL: <https://www.youtube.com/channel/UCLp6dFbu6PHtYf0QcLVc3YA?feature=vmshb>.

In closing, I am anxious to hear your ideas and your comments about how we can make your Society better for you. Please do not hesitate to contact me at [bob.scully@ieee.org](mailto:bob.scully@ieee.org). **EMC**

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## Letter from the Editor continued from page 4

In addition to the page length of this issue, you may have noticed the cover celebrating 50 years of EMC excellence. This references the column contributed by Professor Farhad Rachidi, Editor-in-Chief of the *IEEE Transactions on EMC*, with the Swiss Federal Institute of Technology, Lausanne. In his column on page 110, he lists the top 50 most referenced papers and the top 50 papers with the highest average citation count per year from the *IEEE Transactions on EMC* published over 1964-2013.

I recall from our celebration of the 50th anniversary of the founding of the EMC Society in 2007 that one author in particular was frequently mentioned then and now. As Associate Editor and EMC Society History Chairman Dan Hoolihan noted in an email exchange with Professor Rachidi recently, "I was very interested in your editorial in the latest publication of the *IEEE Transactions on Electromagnetic Compatibility*. As the Chair of the History Committee of the EMC Society, I am always interested in the historical references in our many EMC publications. A double-check of my records from the 50th Anniversary of the Society in 2007 showed that we agree on the top two papers although I had the Agrawal paper as #1 and the Mur paper as #2. (Reference the article from the *IEEE EMC Society Newsletter*, Issue No. 214, Summer 2007.) I did not have Middleton's paper on my

list of top ten for 50 years but I found another listing of mine for the top 10 papers for the first 25 years and Middleton's paper was #7 on that listing. My comparisons were done manually (it was a long winter in Minnesota back in 2006-2007 and I needed something to do!) but I was impressed with how much agreement there was with your electronic comparison seven years later." It's nice to know our History Committee Chair is on top of things!

In this issue we also celebrate 50 years of IEEE Fellows (page 33) and 50 years of weddings (page 55). We have new updates on the activities of EMC Society Technical Committee (TC) 6 on Spectrum Supportability Risk Assessment (page 42) and TC 7 on Standards for Supraharmonics 2 – 150 kHz (page 114).

We also have a new installment on James Clerk Maxwell by Bob Scully (page 93). We will celebrate the 150th anniversary of Maxwell's equations in a special session to be held at the 2014 IEEE International Symposium on EMC in Raleigh, NC. I invite you read the fascinating articles about Maxwell's life and times in this current and in previous issues of the EMC Magazine. Then, join us in Raleigh for a unique special session on Wednesday, August 4.

I trust will enjoy this issue full of technical content and milestone recognitions. **EMC**