



CANDIDATE NAME: Carole C. Carey

BIOGRAPHY:

(S'87-M'88-SM-98) Carole Carey attended Johns Hopkins University (JHU) earning a Bachelor's degree in Electrical Engineering. She holds a Master's degree in engineering from Loyola College, Baltimore. Carole has been with the U.S. FDA Center for Devices and Radiological Health since 1990 with responsibilities as regulatory engineer and

team lead scientific reviewer. The team is responsible for evaluating the safety and effectiveness of innovative and complex cardiovascular devices before they are allowed for market distribution into the U.S. interstate commerce. She was also center liaison on several committees that participated in national and international standards development program. From 2003-2005, she served as a Mansfield Fellow and spent the second year as a visiting regulatory scientist in the government of Japan's Ministry of Health, Labour and Welfare. Soon after returning to the U.S., she became Director of International Staff and international advisor on medical device regulatory affairs, policy and global harmonization. Her earlier career was in catalysis and high temperature superconducting materials research with a large R&D company. She was an associate engineer in a small upstart consulting firm on emerging energy and environmental issues with clients such as, the Department of Energy and the State of Florida.

IEEE ACTIVITIES:

COMMITTEES/BOARDS:

- IEEE-USA PACE Committee in 2007, 2008, 2009 & 2010 as Region PACE Coordinator and as Technical/Division representative in 2011 and 2012.
- First regional representative to the IEEE WIE (Women in Engineering) Committee. Served as IEEE RAB liaison as well as IEEE-USA liaison to IEEE Committee
- At various times, served in the Awards and Nominations Committee as the region representative.
- Currently IEEE-USA representative to the National Engineers Week Foundation now known as Discover E).

REGIONS: AFFILIATION REGION, 2

- Regional PACE (Professional Activities Committees for Engineers), coordinator for 4 years - directed and managed the program and budget to the 20 sections.
- As Area Chair, responsible for IEEE R2 South Area think tank leadership meetings for effective collaboration in tackling the challenges of member engagement and finding common solutions.

- Responsible for introducing thematic innovative approaches resulting in operational efficiency, effectiveness and increased collaboration among organizational units, e.g. Chapters, Sections, Affinity Groups i.e., WIE and GOLD and students within and beyond the local section.

SECTIONS/CHAPTERS:

- Actively involved in IEEE since a student at JHU and served in the Baltimore Section as Treasurer, Secretary, Vice Chair and Chair.
- Continues to be an active and productive member today. Mentors new volunteers as section/chapter leaders. Has a successful track record recruiting members for leadership roles in the local section. Several are now past chairs and they continue to be active. Currently, mentoring three women in engineering young professionals.
- Responsible for reactivating the Baltimore EMBS Chapter for which the Chapter later gained the recognition as Outstanding EMBS Chapter.

STUDENT BRANCHES:

- As part of the Section/Chapter initiative, nurtured and supported participation of high school students in robotic and cyber security challenges in which the student teams won the contests. Students were invited to talk about their experience and have great interactive participation with members. A student representative was invited to the White House Science Fair.

SOCIETIES:

IEEE TECHNICAL SOCIETY, ENGINEERING IN MEDICINE AND BIOLOGY (EMB) SOCIETY

- Reviewer for international conference papers submitted for oral or poster presentation.
- Responsible for managing EMB Standards Committee activities: promoted awareness, reviewed project authorization requests (PARs) and encouraged the development of standards that are relevant and of interest.
- Provided guidance to EMB Std Committee-sponsored working groups (WGs) throughout the development process from inception to completion ensuring that WGs follow an open and consensus process.
- Standards take years to develop and be recognized as an international consensus standard. Responsible for directing the standards process management to ensure an open and consensus process as well as adhere to IEEE Standards Association rules and policies. Successfully guided the working groups that led to an approved IEEE standard. Another draft standard is underway and close to getting an approval.

CONFERENCES:

- 2013 IEEE-USA Annual Meeting Professional Activities Program Chair.
Directed the coordination of a team of all-IEEE members and delivered as well as managed, three parallel program tracks, IEEE-USA 2013 Annual Meeting and Sustainability Conference. This was an all IEEE member volunteer team (no IEEE staff support).
- Organized the much-requested clinic, Conference Organizers Training Workshop offered for the first time at an IEEE-USA Annual Meeting.
- Organized the first of a kind IEEE M-PAC and WIE Regional Conference in 2006, which led to establishment of new WIE Affinity Groups in other regions. It became the model for subsequent conferences. Received the Regional Professional Leadership Award "for establishing a Women in Engineering Professional Development Seminar in Region 2 that rotates through IEEE U.S. Regions."

OTHER:

- Recipient of the Third Millennium Medal, 2001 RAB Achievement Award, 2009 IEEE-USA Regional Professional Leadership Award (Region 2) and the 2013 prestigious MGA Innovation Award.
- Expanded international membership and engagement with successful formation of the Japan Council IEEE Women In Engineering Affinity Group in 2005.
- Initiated and petitioned the establishment of WIE Affinity Groups, Washington, DC/Northern Virginia, Baltimore, South New Jersey Sections as well as the student WIE Affinity Group in the Philadelphia Section.

POSITION STATEMENT

As a dedicated volunteer with long-standing IEEE involvement in both the technical and member geographic planes, IEEE has provided me with the skills and experience as a leader -- to move forward the mission of IEEE MGA in both the section and regional levels. Many of us struggle to balance our work and personal life; most of us experience the constraints of time and limited resources. We feel that there is no more time left for other things, especially "to volunteer"?

The over 20 years of collaborating and working closely with my section and area members at the grassroots level, I can only describe the experience as truly enriching, both professionally and personally. The value of being an IEEE member is clear. I have learned to better understand the needs and the challenges that members face today and hope to make a contribution to the solutions.

- Enhance member engagement, satisfaction and operational efficiency through building effective collaborative relationships within IEEE units and associated external groups. For example, use these opportunities for IEEE member recruitment by having an exhibit table or be a speaker. It increases

awareness of IEEE as an organization and also helps the other organization being associated with IEEE. It creates a win-win for all.

- Constructive feedback is a very important successful communication tool to motivate people. Open forum to share best practices that would maximize the use of volunteer time & available resources. This can be accomplished in direct meetings or other communication methods. They should also be captured and available on line 24/7.
- Better recognize the value of member rewarding volunteers in many ways. It does not have to be monetary. I believe this is something we need to do more.
- Leverage some of the excellent initiatives that have already been started by our Region 2 leaders such as support for area meetings, IEEE tools training, speakers bureau (ROMP), etc. and continue the path in bringing value to the member volunteer.
- Form an ad hoc team to look into history. It is important to record the Region's history and accomplishments and establish pride.
- I am open to exploring new paradigms to address the problem of recruitment, retention and recovery and work with our members as part of a collaborative team.