



IEEE President Peter Staecker (right) presented Dr. Irwin Mark Jacobs (left) with the 2013 IEEE Medal of Honor.

# AWARDING EXCELLENCE

IEEE contributions in 2013 were singled out for distinction by a broad range of institutions and associations. And, as every year, IEEE recognized the 2013 accomplishments of our members with numerous awards of our own.

#### ◀ Dr. Irwin Jacobs Receives 2013 IEEE Medal of Honor

Dr. Irwin Mark Jacobs, a pioneering engineer and business leader who has driven revolutionary innovations in digital and wireless communications systems, was presented with IEEE's most prestigious award, the IEEE Medal of Honor, at a ceremony at Qualcomm's headquarters on 6 June in San Diego, California. Dr. Jacobs co-founded Qualcomm in 1985 and grew it from a small technology firm to a Fortune 500 company. He also helped lead groundbreaking innovations like the code division multiple access (CDMA) technology that greatly improved cellular communications efficiency compared to analog systems. The ceremony was broadcast live on IEEE.tv.

#### IEEE Welcomes 297 New Fellows

The IEEE Board of Directors elevated 297 IEEE Senior Members to the grade of Fellow, effective 1 January. The grade of Fellow is conferred by the board on individuals with an extraordinary record of accomplishment in any of the IEEE fields of interest and is reserved for only a select few. The total number named each year does not exceed one tenth of a percent of the total voting membership. IEEE Fellow is the highest grade of membership and is recognized by the technical community as a prestigious honor and an important career accomplishment.

#### IEEE Technical Field Awards Recognize Excellence

The IEEE Technical Field Awards recognize contributions or leadership in the IEEE fields of interest and are presented throughout the year at various IEEE conferences and events. The 2013 awards acknowledged achievements in 31 different categories.

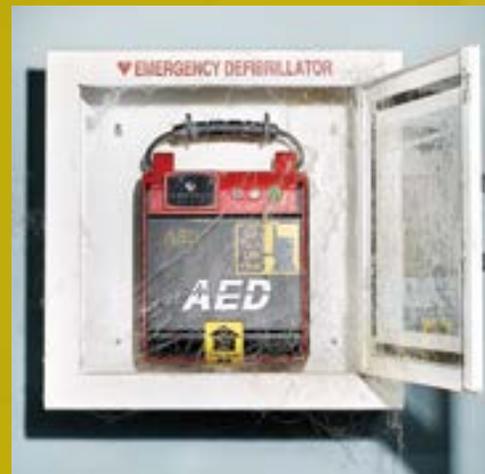
#### IEEE Captures Social Media Prize



IEEE was recognized with a Bulldog Digital Social Award for Excellence in Online Communications in the Digitally/Socially Engaged Brand of the Year category. IEEE received the Gold Award for "best overall use of current technology and social media marketing techniques to attract an audience, engage them, and build and maintain a community across multiple digital platforms and networks."

The Bulldog Awards recognize the most outstanding achievements in corporate communications and publicity using online and social media tools and techniques. Judges included a panel of journalists from *CNN*, *Washington Post* and *The New York Times*.

#### IEEE Spectrum Wins Prestigious Grand Neal Award



*IEEE Spectrum* won its third Grand Neal Award from the Association of Business Information and Media Companies in March 2013, distinguishing itself as the only publication in the last 20 years to win three Grand Neals. Known as the "Pulitzer Prize® of the business press," the Neal Award was established in 1955 to recognize editorial excellence.

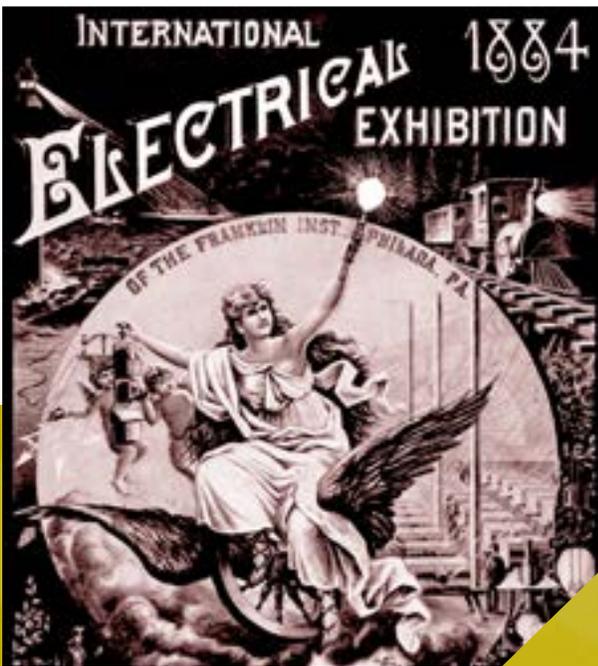
The winning entry, "A Shocking Truth," covered the failure of publicly installed defibrillators. The entry was selected from a pool of 640 submissions and also took home the Neal Award for Best Single Article. In addition, *IEEE Spectrum* won the Neal Award for Best Use of Mobile for its innovative Robots for iPad® app. The app features more than 100 real-world robots, with photos, video and interactive animations.

# IEEE MILESTONES

Each year the IEEE Milestones in Electrical Engineering and Computing program recognizes exceptional technical achievements that occurred at least 25 years ago. In 2013, four IEEE Milestones were dedicated, including one honoring the first formal technical conference on electrical engineering held in the United States. More than 100 IEEE Milestones have been dedicated to date, recognizing the work of leading inventors like Benjamin Franklin, Alexander Graham Bell and Thomas Edison. All of the milestones are described in detail on the IEEE Global History Network site, [IEEEGHN.org](http://IEEEGHN.org).

1884: Philadelphia, USA

First Technical Meeting of the American Institute of Electrical Engineers



As part of the landmark International Electrical Exhibition organized by the Franklin Institute, the American Institute of Electrical Engineers, a predecessor of IEEE, held its first conference on 7-8 October 1884, in Philadelphia. The meeting was the first formal technical conference on electrical engineering held in the United States.

1895: Šibenik, Croatia

Krka-Šibenik Electric Power System



Krka-Šibenik was one of the first multiphase alternating-current power systems in the world. In 1895, electricity generated at this location was transmitted to the city of Šibenik, where six power transformers supplied a large number of street lamps. This early system of power generation, transmission and distribution remained in operation until World War I.

1947: London, England  
Invention of Holography



In 1947, Dennis Gabor conceived the idea of wavefront reconstruction for improving the performance of the electron microscope. This became the basis for the invention of optical holography for three-dimensional imaging. However, implementation required coherent light sources and had to await the emergence of the laser some years later. Gabor was awarded the Nobel Prize for his invention in 1971.

1985: Tokyo, Japan  
Toshiba T1 100 Laptop PC



The Toshiba T1 100, an IBM PC-compatible laptop computer that shipped in 1985 made an invaluable contribution to the development of the laptop PC and portable personal computers. With the T1 100, Toshiba demonstrated the emergence and importance of true portability for PCs running packaged software. The T1 100 was a true pioneer in the development of laptop PCs, winning acceptance not only from PC experts but the business community as well.