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CV

Paul Citron, MSEE, Ph.D. (hon.)

Paul Citron retired in 2003 from Medtronic, Inc., a pioneer in the medical device industry and the largest developer of implantable therapeutic devices. He was Vice President of Technology Policy and Academic Relations. Previously he was Medtronic's Vice President of Science and Technology for over 15 years, responsible for corporate-wide assessment and coordination of technology initiatives and for prioritization and funding of corporate research. These executive positions followed a progression of R&D assignments over his 32-year career at Medtronic where he developed and helped bring to the bedside technologies that advanced the utility, safety and effectiveness of innovative implanted medical devices.

He is an advisor to start-up firms in the medical device and biotechnology sector. He has authored numerous medical technology peer reviewed publications and has been an invited speaker at biomedical engineering conferences and symposia.

Citron holds nine U.S. medical device patents, including one that was designated "Patent of Distinction" by Medtronic for its positive impact on patient wellbeing. It permitted, for the first time, reliable long-term cardiac stimulation without the need for an open-chest surgical procedure. This innovation became a "treatment of choice" in the medical community because it did not require major surgery for lead implantation; sharply reduced the incidence of interruption of pacemaker stimulation and the need for urgent reoperation to restore effective stimulation; and made it possible for frail patients to receive pacemaker therapy.

Mr. Citron received a B.S.E.E (1969) from Drexel University and an M.S.E.E. (1972) from the University of Minnesota. He was elected a Founding Fellow of the American Institute of Medical and Biological Engineering in 1993. Citron was elected to the National Academy of Engineering (NAE) in 2003 where he has served on its Peer Committee, Committee on Membership, and the Draper Prize Committee and was the committee's Chair in 2012. He served two terms (maximum permitted) as an NAE Councillor and was, concurrently, a member of the National Academies' Committee on Science, Engineering, and Public Policy. In addition, he served on three Institute of Medicine (IOM) committees (renamed The National Academy of Medicine): *Safe Medical Devices for Children* (report published 2005); *Rare Diseases and Orphan Products: Accelerating Research and Development* (report published 2011); and, *Identifying and Prioritizing New Preventive Vaccines for Development Phase I, II, and III*. In 2015 he was appointed to the Division Committee of the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine.

Citron is currently an Affiliate Faculty at the University of California, San Diego and is a Trustee of the Department of Bioengineering. In 2013 Citron received an honorary Ph.D. in engineering from Drexel University.

Citron resides in a Minneapolis suburb with his wife, Margaret.