

Healthcare Engineering Lecture Series

Title: Re-inventing the Pacemaker: the Innovation to get to a pill sized device

Speaker: Mike Hess, Vice President of Corporate Technology and Innovation, Medtronic, Minneapolis, MN

Education:

- BS, Biomedical Engineering, Case Western Reserve University, OH
- MS, Software Engineering, University of St. Thomas, MN

Qualifications:

- 30 years with Medtronic, world's largest medical device company and the largest manufacturer of cardiac pacemakers.
- Medical device executive, functional R&D, emerging markets R&D development, clinical leadership, upstream and innovation activities.
- American Institute for Medical and Biological Engineering (AIMBE) Fellow.

Time: Tuesday, March 30, 2021, 4:00 – 5:20 pm

Zoom: <https://zoom.us/j/98890792479?pwd=eTZCV0JtSmxRTHRTN1A0UWhXNlB1dz09>

Abstract

For decades, pacemakers have been considered a mature technology with an electronics module implanted in the chest and long wires extending into the Heart. Medtronic reinvented the category with leadless pacemakers, capsule sized devices implanted directly in the heart with a catheter, challenging many assumptions about what a pacemaker must do to be considered “state of the art”.

Biography

Mike Hess, VP of Corporate Technology and Innovation, has been with Medtronic for 30 years. Leading the Corporate Science and Technology organization, Mike is focused on identifying and prioritizing early stage technology programs to advance therapy innovation. He is a Medtronic Technical Fellow, a member of the Bakken Society and an American Institute for Medical and Biological Engineering (AIMBE) fellow. Mike has 36 issued patents and numerous publications to his credit.

At Medtronic, Mike has worked in a wide range of leadership roles at Medtronic including R&D management, corporate research and technology, program management, upstream marketing, clinical, and General Management for Brady and Heart Failure therapies.

Outside of Medtronic Mike is active on numerous academic advisory boards for the advancement of Biomedical Engineering and has been involved in **Biomedical Engineering Society** (BMES) and other associations that promote engineering and education.