

## *Medtronic - Pacemakers and Implantable Defibrillators*

### *June 2011 Meeting*



Matt Purvis is a Long QT patient who has an implantable cardioverter defibrillator (ICD) and is also an employee of Medtronic, the company that manufactures his ICD. Matt's Long QT syndrome was discovered through ECG testing at age 9, and he was subsequently treated with beta blocker therapy and received his first ICD at age 14. Inspired to work with other people who had devices, Matt studied Biomedical Engineering at UC Irvine where he received his Bachelor of Science degree. Following graduation, Matt went to work for Medtronic as a Clinical Specialist where he works both in pacemaker and defibrillator implants as well as in device follow-up clinics.

Matt's talk will focus on pacemakers and defibrillators. He will present general indications for device therapy and how it will help improve a patient's condition. Also, he will give a very high level overview of how pacemakers and defibrillators work. Matt will bring a simulator called the Virtual Interactive Patient ("ViP") to demonstrate various heart rhythms and to show how a device treats them to restore a heart to regular rhythm.