

Neural Prosthesis Seminar

“Introduction to Boston Scientific SCS and DBS Systems: Technical Capabilities of the Systems, and What it Takes to go From Concept to Product”

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Biomedical Research Building 105

Case Western Reserve University



Michael Moffit, PhD

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R&D Director, Neuromodulation Research and
Advanced Concepts, Boston Scientific

Abstract

Boston Scientific develops and sells spinal cord stimulation systems for pain management and deep brain stimulation systems for Parkinson's disease and dystonia. A feature of these systems that will be described is the use of independent current sources for each supported contact, and this capability enhances the opportunity to control the electric field, which may be important for fine tuning in a region of interest and for stability of the stimulation. The independent current sources enable advanced programming algorithms that will be described. Also, the process of going from concept to product is a substantial endeavor, with team members contributing in many roles, and these roles will be described.

For more information, please contact Cheryl Dudek
at (216) 231-3257.

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