

SPRING 2015

# The Current

The official e-newsletter of Neurotech Network

## Featured Real Stories, Real People: Parkinson's Disease & Stroke

Meet the Bionic Pioneers featured in the book of the same title. These brave individuals blaze the trail to new therapies.

### Going Deep to Fight Parkinson's



In honor of Parkinson's Disease Awareness Month in April, meet Dr. Jonathan Lessin. It was a tremor in his hand that sparked him to inquire about other symptoms he was experiencing. Later, he was diagnosed with Parkinson's Disease.

After becoming resistant to the medications, Jonathan agreed to have a Deep Brain Stimulation system implanted. [Read more of his story under Tremor Suppression](#) or at [Abilities.com](#). He is also featured

### Stimulation Lends a Hand



Stroke Awareness Month is in May. Every 40 seconds, someone in the U.S. has a stroke. Nearly a quarter of them are people under the age of 65.

Meet Andrew Genge. After a hard tackle while playing rugby, a blood clot released and went directly to his brain causing a stroke. Learn how he used an innovative device from MyndTec along with physical therapy to regain function of his hand and arm. [Read more of his story under](#)

on the [AdvaMed Life Changing Innovations page](#).

[Hemiplegia fro Stroke](#).



*Brave Neurotech Users Blaze the Trail to New Therapies*

All profits from this book will go toward advancing awareness of new therapies for people with neurological disorders.

[www.BionicPioneers.org](http://www.BionicPioneers.org)

[read more about the book →](#)

### ***Expert says patient voice is missing from the device market access puzzle***

*By Amanda Pedersen*

*- Article is a product of Medical Device Daily*

In an ever-changing reimbursement landscape, bridging the gap between patients and industry can prove to be an impactful strategy to demonstrate the value of a new product and expedite market access. But too often in today's medical device world the patient voice is a missing central block of the market access puzzle, according to one presenter at a conference in Frankfurt, Germany.

[read more about this article →](#)

*Helping people regain life thru neurotechnology*

#### **Education & Outreach**

We educate through featured presentations, continuing education courses & online webinars. Learn about the latest in neurotechnology by attending a session or reviewing the archives.

**Consumer & Caregiver**

#### **News in Products & Industry**

- PBS NewHour features modern prosthetics to restore the sense of touch. [Watch the video here.](#)

- NeuroLaunch is seeking 10 of the best neuroscience startup companies for a second round of funding. [Learn and apply here.](#)

- Inspire Medical Systems

#### **News In Research**

- Conquer Paralysis Now is accepting applications for the research Trial & Error Prize. [Learn more and apply here.](#)

- Electrical Geodesics received FDA approval to conduct a clinical evaluation of the GTEN neuromodulation device as a treatment to manage epilepsy. [Read more here.](#)

## **Focused:**

### - [Pain and Spasticity](#)

#### [Management without Pills:](#)

Webinar with partners United Spinal Association/NSCIA & The Miami Project, March 18, 2015

### - [SciCafe at the Dali Museum:](#)

One hour Science Cafe focusing on Bionic Pioneers, St. Petersburg, FL, May 19, 6-730pm

### - [Direct Nerve Stimulation:](#)

#### [What is it really and what is the](#)

#### [potential?:](#) Webinar with

partners United Spinal Association & The Miami Project, June 17, 2015

- [Archived Consumer & Caregiver Session can be found here.](#)

## **Clinician & Industry**

### **Focused:**

- [International Neuromodulation Society Meeting](#), Montreal, QB, June 6-11, 2015

- [Cleveland NEW \(Neural Engineering Workshop\)](#), Cleveland, OH, June 24-26, 2015

[read more](#) →

announced a scientific paper about the Upper Airway Stimulation system for obstructive sleep apnea was awarded the Top 10 Clinical Research Achievement Awards.

[Read more here.](#) The device will also be distributed through military & veteran hospitals. [More here.](#)

- MyndTec device helps this man move his paralyzed arm 20 years after the stroke that led to paralysis. [Learn more here.](#)

- Natus Medical will launch the Quantum amplifier following FDA clearance. The device is for the monitoring of epilepsy & seizure activity. [Read more here.](#)

- Medtronic reports the first deep brain stimulator compatible for a full-body MRI. [Learn more.](#)

- MIT Technology Review published an article *Paralyzed Again*, reviewing the problem of bringing technology to market for spinal cord injury. [Read it here.](#)

- Craig Hospital received a 3rd Magnet designation from the American Nurses Credentialing Center. [Read it here.](#)

- Stimwave Technologies successfully implanted the 1st patient with the Freedom Stimulator for chronic pain. [More is here.](#)

- Uroplasty's PTNS device to treat overactive bladder received a positive coverage decision from Cigna. [Learn more here.](#)

- Blind man sees his wife for the first time in 20 years using new bionic eye. [Watch it here.](#)

- EnteroMedics ready to launch the neuromodulation device to treat obesity. [Learn more here.](#)

- Therapeutic DBS reduces cortical phase-amplitude coupling in Parkinson's disease. [Read more here. in the journal Nature.](#)

- WikiSTIM is a searchable resource for published data in the fields of neuromodulation. Learn more [here.](#)

- Research at the University of North Carolina is testing Alpha Wave Oscillation stimulation for the treatment of depression. [Learn more here.](#)

- Helius Medical will begin clinical trials using the Portable Neuromodulation Stimulator (PoNS) for the treatment of balance problems due to brain injury. [Learn more here.](#) They also have a study for MS. [Read that here.](#)

- Bioness begins a pilot study for the StimRouter device to treat overactive bladder with tibial nerve stimulation. [Read more here.](#)

- The Michelangelo hand from Ottobock received FDA clearance for this new prosthetic device activated by brain signals. [Learn more here.](#)

- The Miami Project to Cure Paralysis is conducting a clinical trial for DBS to treat chronic pain from SCI. [Read more.](#)

- A recent study published results of using electrical stimulation for ischial pressure relief. [Read it here.](#)

- FES cycling found to improve the muscle health of non ambulatory people with MS. [Learn more here.](#)

- Positive study results for a neurostimulation epilepsy implant

- Cochlear is developing a new Auditory Brainstem implant for kids born without the hearing nerve.

[Read more here.](#)

- Brain scan device to detect and monitor Alzheimer's, concussions and more received FDA approval.

[Read more about the Neuronetrix device.](#)

- The Fisher Wallace Stimulator for anxiety, insomnia & depression was featured on Fox News. [Watch the story here.](#)

- St. Jude Medical receives FDA approval for their MRI compatible spinal cord stimulator. [Read more here.](#)

device were released by NeuroPace. [Read more here.](#)

- Virtual reality & neurorobotics speed up the rehabilitation process following a stroke or spinal cord injury. [Read the study here.](#)

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