



The Current

*Helping people regain life thru
neurotechnology*

New Resource: Pain Management

Millions of people suffer from chronic pain and for many overcoming the pain is difficult. The field of neurotechnology offers an alternative to common treatments such as oral medications. Neurotech Network has recently updated our Pain Management resource page. Be introduced to neurotechnology alternatives, available treatments and therapies, plus connect with the many support organizations. [Visit our new Pain Management Fact Sheet by clicking here.](#)

Vision for the Future

Recently, at The State of the Science conference in Washington, DC, Neurotech Network representative, Jennifer French, along with a panel of medical and engineering professionals presented their vision of Technology for Mobility in Spinal Cord Injury for the next decade. Read about what new technology is in the pipeline and the challenges facing future development. [Click here review the paper.](#)

Exoskeletons

Not just for military use and space exploration any more, Exoskeletons are beginning to emerge as devices for people living with mobility impairments. Designed as an external suit and used to augment motion of the body, these new neurotechnology devices are gaining exposure in the clinical setting. But are they sustainable? You decide. [Check out the most recent Fact Sheet on Exoskeletons & Robotics.](#)

Upcoming Education Sessions

We continue to participate in educational sessions at targeted conferences. Attend a session to learn more about neurotechnology and the valued applications. We will be at these upcoming events:

- [Paralyzed Veterans of America Summit 2011 & Expo](#), Renaissance Sea World, Orlando, FL, September 16-18
- [United Spinal Association Independence Expo](#), Buena Vista Palace & Resort, Orlando, FL, September 23-24
- [American Congress of Rehabilitation Medicine Annual Meeting](#), Hyatt Regency, Atlanta, GA, October 11-15

Look for our session about neurotechnology. You may also find a full listing of these events on our website by just [clicking here](#).

News of Interest to Consumers

Below are highlights of developments in neurotechnology that are of interest to consumers, disability and medical professional communities:

- [Bio-Medical Research Ltd](#), recently introduced a new muscle rehabilitation device in their Neurotech division called KneeHab XP. The device is a re-education and strengthening therapy for the quadricep. It joins the family of products which also includes AvivaStim XP, a neurostimulation device to reduce muscle atrophy.
- IEEE.tv offers a web-based video titled "Accessing the Future". This video is based on the IEEE Accessing the Future: A Global Exploration for Accessibility in the Next Decade. [View the video by clicking here](#).
- Brain Controlled Arm will enter human clinical trials this year. Funded by DARPA, the 22-degree-of-freedom Modular Prosthetic Limb was developed in a collaboration between Johns Hopkins University, University of Pittsburgh and California Institute of Technology. The device uses implanted electrode arrays to communication with a prosthetic arm.
- Recent news story featured Dr. Zaghoul Ahmed and Julia Giammona who has cerebral palsy and received a new treatment. Dr. Ahmed has treated seven people using a new electrical pulse system applied to the brain and spinal cord. This research is in the very early stages of human clinical trials. View the news story by [clicking here](#).

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