



Industry Workshop

Workshop information

Workshop Responsible :

Ferry Tomaszuk

Workshop title :

Case studies in Neurorehabilitation using Functional Electrical Stimulation

Workshop goals :

Develop an understanding of the possibilities for FES application in physical rehabilitation. Examine the technical issues. Discuss a number of case studies that show what can be achieved with FES Sequence Mode. Learn how "conventional" therapy techniques applied by PT's and OT's can be augmented with FES for greater effectiveness.

Abstract :

For more than 200 years we have known that electricity applied to the body can cause muscle contraction and more. Over the last 50 years our understanding of muscle physiology has improved and with it so has the technology to make FES one of the most powerful and flexible tools for rehabilitation.

Despite it's safety and efficacy, FES is still under-utilised in routine clinical practice. Modern systems like the RehaMove by Hasomed GmbH permit sophisticated control of the timing and manner of how FES can be delivered so that "Functional" Electrical Stimulation becomes truly effective in ways not dreamed of in the past.

The speakers will extend your vision of what is possible with FES through presentation and discussion of case studies, demonstrations and presentation of the theoretic background

This event will be suitable for all professionals inspired to work with individuals recovering from catastrophic injury. We will in particular highlight the use of Sequence Mode Software from Hasomed GmbH which offers unprecedented control of FES signals. Sequence Mode allows precise time-based or cyclic activation and deactivation of multiple stimulation channels. This allows FES to augment many aspects of rehabilitation such as gait, posture, upper limb function and more.

Speaker:

Andrew Galbraith

