

## FES – From Neuroscience to Clinical Practice

<b>9.00 – 9.05 Welcome &amp; Opening Remarks</b>		
<u>Time</u>	<b>Part 1: 9.00-12.00</b>	<u>Speaker(s)</u>
<b>9.05-9.45</b> 40 mins	<b>1. <u>Interventions</u></b> Overview of Therapeutic & Orthotic FES Interventions Upper & Lower Limb Implants	<b>Maura Whittaker Jane Burridge</b>
<b>9.45-10.20</b> 35 mins	<b>2. <u>Neuroscience</u></b> Physiological Effects & Evidence of FES on Neuroplasticity of the Brain & Spinal Cord.	<b>Michael Grey</b>
<b>Coffee 10.20-10.40</b>		
<b>10.40-12.00</b> 80 mins	<b>3. <u>Paediatric Interventions</u></b> Biomechanics of CP Gait, FES as an Orthotic & Therapeutic Intervention; Candidate Selection for FES FES- Assisted Cycling for Strength & Fitness in Children with CP; Overview of Training Systems; Preliminary Outcomes on Motor Learning from training w/ FES	<b>Neil Postans Samuel C.K. Lee</b>
<b>Part 2: 1.30-5.30</b>		
<b>1.30 - 2.15</b> 45 mins	<b>4. <u>Adult Interventions</u></b> Patient Evaluation, Application, Clinical Guidelines Clinical Outcomes & Efficacy	<b>Maura Whittaker Jane Burridge</b>
<b>2.15-3.00</b> 45 mins	<b>5. <u>Strategies &amp; Best Practices</u></b> Maximizing Benefits, Identifying Successful Strategies, & Promoting Best Practices in FES Clinical Service Provision – what has been learned.	<b>Paul Taylor</b>
<b>3.00-3.20 : Coffee</b>		
<b>3.20-4.10</b> 50 mins	<b>6. <u>FES of Denervated Muscles</u></b> Physiological Effects, Overview of Diagnosis, Indications and Therapy, Specific Differences versus Neuromuscular Stimulation, Hands-on Demonstration, subject with flaccid paraplegia (lesion in cauda equina)	<b>Helmut Kern, Claudia Straub, Michaela Moedlin, and colleagues</b>
<b>4.10-5.05</b> 55 mins	<b>7. <u>Future Challenges</u></b> Knowledge Dissemination & Utilization; Consensus Guidelines; Promoting Awareness in the Medical & Patient Community, Meeting the Needs of Knowledge Users. Ethical Context	<b>Chair: M Whittaker w/ input from speakers</b>
<b>5.05</b>	<b>(8) Q &amp; A ; Closing Remarks</b>	<b>Everyone</b>
<b>5.30</b>	<b>Adjourn</b>	