

Manufacturer's Workshop 1:

Advances in elbow, TD & wrists for upper extremity function – Motion Control Inc

This workshop will deal with specifics and hands-on experience with new features in the U3+ Arm, including Dual Locking System, silent low power freeswing and compatibility with new TDs, such as the i-LIMB hand. Hands-on instruction in the user interface software, used with the new U3+ Arm as well as ProControl 2, and now with Bluetooth wireless connection to all MC systems. Delegates will have the opportunity to install the new software. In addition the workshop will deal with specifics and hands-on experience of the highly functional Motion Control Hand and Electric Terminal Device (ETD) including: flexion wrist, multi-flex wrist, in-hand wrist rotation as well as new battery options. Finally specifics and hands-on experience with the new Hybrid Utah Arm will be presented – adjustable Flexion Assist eases elbow flexion in this body-powered elbow, with myoelectric hand and wrist control, electric lock control and a wide variety of input sensors, and control options.

Manufacturer's Workshop 2:

PAULA: Technology for evaluation, fitting and training for upper limb prosthetics - Otto Bock Healthcare PLC

Presented by Martin Werhle and Ken Hurst, three workstations will demonstrate differing aspects of the new PAULA software. Delegates will be able to view myo testing, assistive socket design, component selection and full myo simulation of dynamic arm. The sessions will be instructive as well as interactive.

- 1 PAULA Workstation **MyoTest** – MyoTest with MyoBoy to find good signals at different levels (eg. transradial and transhumeral) and classify the myo signals to aid prescription.
- 2 PAULA Workstation **Socket Design** – will show the data capture and processing of photographs to create an electronic transradial test socket.
- 3 PAULA Workstation **MyoSimulation** – will simulate different component configurations on screen with the PAULA Software including children hand system, adult system and dynamic arm.

The sessions will include working with real prosthetic examples, with an overall goal of helping delegates to understand the ability of PAULA to progress through the assessment process without the need for actual components in their workshop or the need to take a conventional plastercast.

Manufacturer's Workshop 3:

Achieving goals and satisfying ADL requirements – RLS Steeper

Presented by John Ronald and Bruce Rattray. Allowing the user to achieve their goals and satisfy all their ADL requirements often warrants novel approaches and a variety of terminal devices. This workshop will focus on prescription choices that are available and a particular partial hand case study will be discussed giving an insight into the components chosen to satisfy the user's needs. Proceedings will be informal to encourage feedback and discussion and there will be the opportunity to discuss other challenging cases. Please feel free to bring descriptions/photographs on the day or forward in advance to Bruce Rattray (bruce.rattray@rehab.co.uk). In addition, new technology advancements will be discussed with a presentation focussing on how myo electric signals may be captured in patients utilising suction style liners.

Manufacturer's Workshop 4:

i-LIMB Hand – Touch Bionics

Since the release of the i-LIMB Hand in July 2007, more than 500 patients worldwide have been fitted with this most advanced prosthetic hand which has multiple advanced grip patterns similar to that of a human hand. The i-LIMB is the world's first microprocessor controlled, myo-electric hand with proportional control, five articulating digits and a user adjustable thumb which rotates 110 degrees. This gives the user a "palmar grip" which enables the user to have grasp and control which heretofore was not available. The i-LIMB Hand can lift 45 pounds and yet the articulating fingers produce a realistic movement naturally conforming to the shape of the objects. The workshop will cover basic grip patterns, new updates on the i-LIMB Hand (eg. small female hand), cosmesis, clinical background, patient training (OT protocol), patient study, service and support. This session will be geared towards prosthetists, OTs and hand therapists.

Manufacturer's Workshop 5:

Silicone Processing Techniques – Polymer Systems Technology Ltd.

Incorporating the use of a powerpoint presentation, this workshop intends to cover

- The choice of an HCR before proceeding to the actual silicone processing technique (ie what factors need to be considered such as the Shore hardness and durometer of the silicone)
- Preparation of the materials and the equipment
- How to adjust the work time and cure schedule as required
- Avoiding inhibition during the process
- Removing air and how to avoid bubbles during the silicone processing technique