

2nd European School of Neuroengineering “M. Grattarola”

JUNE 11, 2004 *TECHNOLOGIES FOR NEURO-REHABILITATION*

Muscle vibration as a tool to understand sensorimotor integration (M. Bove)

- Introduction
- Somatosensory system and proprioception
 - The physiology of muscle spindles
- Muscle vibration and Tonic Vibration Reflex (TVR)
- Muscle vibration and perception
- Muscle vibration and posture
 - Lower limb muscle vibration during quiet stance, stepping in place and locomotion
 - Neck muscle vibration during quiet stance, stepping in place and locomotion
- Muscle vibration in Clinical Neurophysiology
 - Cervical dystonia
- What can Neuroengineering do ?