

**Workshop Title:** Human-Technology Coalescence: Fundamentals to Create Symbiotic Relationships

**Workshop Organizer(s):** Michael Glover

**In person Speaker(s):**

- Nolan, Karen, Kessler Institution
- Strausser, Katherine, Ekso Bionics
- Wee, Seng Kwee, Tan Tock Seng Hospital CART

**Workshop Time:** 16:00 - 17:30

**Attendee Engagement:**

Live presentation, open forum moderated Q&A

**Abstract:**

Clinicians are presented with a multitude of modalities and methods of clinical practice patterns that help create strong and comprehensive clinical practice for the betterment of our patients and clinical outcomes. Daily, humans interact with technological interface whether it's a computer, a means of mobility or augmentation of self. The engagement with technology into human and robotic interaction is equivalent to building a relationship that grows with time. The world of advanced rehabilitation technology is constantly evolving and presenting new and exciting opportunities and connections. Currently when new connections are made, new challenges present themselves because each product or device is paired with new terminology and functional capability. But, the device inherently is designed to produce known clinical application. Early adoption is challenged due to foreign nature and isolated manufacturing approaches. Collectively the industry's mission is to enhance and not replace the clinician. With continuous interaction, we suggest creating universal language of understanding and application that have application across advanced technology. Working together in a collaborative approach to resemble clinical application. Human nature is hesitant with human-machine interface. Forming a baseline understanding, common language and perceived control to improve trust. Clinical practice will promote program development. Once symbiosis occurs, collaboration demonstrates remarkable outcomes that ultimately benefits everyone. Progressing through these four phases builds a relationship to embrace and create strong programs with advanced technology.