



APTA SECTION ON RESEARCH RETREAT
(awareness, collaboration, engagement)

ADVANCES IN REHABILITATION TECHNOLOGY

July 13 – 16, 2020
Wylie Inn & Conference Center at Endicott College
Beverly, MA

Preliminary Program

Monday, July 13, 2020 - WELCOME

<i>Time</i>	<i>Location</i>	<i>Event</i>
7:00 – 10:00 PM		Evening Social (with heavy passed hors d'oeuvres) Keynote address at 8 PM: Randy Trumbower, PT, PhD and Sujay Galen, PT, PhD

Tuesday, July 14, 2020 WEARABLE TECHNOLOGY

<i>Time</i>	<i>Location</i>	<i>Event</i>
8:00 – 9:00		Breakfast
Session I: Awareness		Wearable Technology (focus on physical activity/load monitoring) Moderator: Martina Mancini, PhD
9:00 – 9:25		Measuring Physical Behaviour - making sense of data from wearable sensors Dr. Malcolm H. Granat, PhD
9:25 – 9:50		Counting Steps in Large Epidemiological and Small Clinical Trials: Taking one step at a time Daniel K. White, PT, ScD, MSc
9:50 – 10:15		Small Sensors Big Load: Are shoe sensors up for the task of measuring load in the real world? Dr. Brian Noehren, PT, PhD, FACSM
10:15 – 10:35		Coffee Break
10:35 – 11:00		Wearable Technology to Monitor Upper- and Lower-Limb Function in the Home and Community Setting Paolo Bonato, PhD
11:00 – 11:25		Digital Mobility Markers for Physical Therapy Dr. Fay B. Horak, PT, PhD
11:25 – 11:50		Driving Discovery in Neurotrauma Through Data Sharing and Machine Intelligence Dr. Adam R. Ferguson, PhD
11:50 – 12:20		Panel Discussion: Morning Speakers
12:20 – 1:30		Lunch
Session II: Collaboration		Appointments with speakers: available 1.5 hours each
1:30 – 4:30		Networking/organized recreational activities for informal discussions
4:30 – 6:00		Poster Session with wine and cheese
6:00 – 7:00		Dinner

**Session III:
Engagement**

	Panel Debate: Virtual Reality in Physical Therapy: Is it really more than pretty pictures? Moderator: Randy Trumbower, PT, PhD Judy Deutsch, PT, PhD, FAPTA (PROS) Jason Wilken, PT, PhD (CONS)
8:00 – 8:30	Discussion
8:30 – 9:30	Evening Social

Wednesday, July 15, 2020 TELEHEALTH and MOBILE HEALTH

<i>Time</i>	<i>Location</i>	<i>Event</i>
8:00 – 9:00		Breakfast
Session IV: Awareness		Telehealth Moderator: Kristin Archer, PT, DPT, PhD
9:00 – 9:25		Tele-Rehabilitation: What & Where, When & How Helen Hoenig, MD
9:25 – 9:50		Technology Considerations and Requirements for Safe and Effective Use of Tele-Physical Therapy Robert Latz, PT, DPT
9:50 – 10:15		Telehealth: Opportunities in digital practice and research in physical therapy Alan Lee, PT, PhD
10:15 – 10:40		Break
10:40 – 11:05		New Advances and Opportunities in Behavioral Pain Management: The Role of Mobile Health Technology Frank Keefe, PhD
11:05-11:30		mHealth Supported Exercise in Persons with Chronic Neurological Conditions Terry Ellis, PhD, PT
11:30 – 12:00		Panel Discussion: Morning Speakers
12:00 – 1:30		Lunch
Session V: Collaboration		Appointments with speakers: available 1.5 hours each Networking/organized recreational activities for informal discussions
1:30 – 4:30		
4:30 – 6:00		Poster Session with wine and cheese
6:00 – 7:00		Dinner
Session VI: Engagement		
7:00 – 8:30		Debate: Is the Profession Ready for Telehealth and mHealth? Moderator: Alan Lee, PT, PhD Ellen Morello, PT, DPT and Kristen Tate
8:45/9 – 9:45		Evening Social

THURSDAY, July 16, 2020 WEARABLE ROBOTICS

<i>Time</i>	<i>Location</i>	<i>Event</i>
8:00 – 9:00		Breakfast
Session VII: Awareness		Wearable Robotics Moderator: Randy Trumbower, PT, PhD
9:00 – 9:30		Soft Wearable Robotics in Rehabilitation Conor Walsh , PhD
9:30 – 10:00		May the (propulsion) force be with you: Wearable Technologies for Advancing the Diagnosis and Treatment of Propulsion Deficits Lou Awad, PT, DPT, PhD
10:00 – 10:30		Wearable Sensors and Human Movement Serge Roy, ScD, PT
10:30 – 10:50		Break
Session VII: Engage and Collaborate		Demonstration of Technologies and Panel Discussion Lou Awad, PT, DPT, PhD, Conor Walsh, PhD, and Serge Roy, ScD, PT
10:50 – 12:10		
12:10 – 12:30		Where Do We Go From Here? Steve Wolf, PT, PhD, FAPTA
12:30 – 1:30		Lunch and check-out