

Workshop/Tutorial title: **Soldier Digital Phenotyping**

<p>Organizers</p>	<p>Karl E. Friedl & Reed W. Hoyt U.S. Army Research Institute of Environmental Medicine Natick, Massachusetts, USA</p>
<p>Short Description</p>	<p>Real time physiological monitoring of individual soldiers (digital phenotyping) provides actionable information from wearable sensors, standoff detection, and contextual data (internet of soldier things) to inform virtual teammates (humanized technology), protect soldier health and performance, and provide decision support tools. The development of sensor systems and algorithms for use in extreme and austere environments will be discussed.</p>
<p>Contents</p>	<p>Featured systems and applications include: detection of evolving heat injury; trusted virtual agent coaches; fatigue and cognitive overload management tools; electronic fiber acoustic sensing; metabolic optimization tools (MyRQ); and early detection of viremia. This represents advanced technology application of soldier mathematical physiology developed by USARIEM and collaborative partners.</p>
<p>CVs of the Organizers</p>	<p>Reed Hoyt and Karl Friedl are Army physiologists with demonstrated long term commitment to soldier physiological monitoring technology.</p>

