IEEE BSN Workshop, 27 July 2021 (1300-1550h, CET; 0700-0950h EDT)

**Soldier Digital Phenotyping (Wearable Systems)**

0700-0705 – Introduction (co-chairs, Karl Friedl and Reed Hoyt)1

0705-0725 - **Advances in heat stroke warning signals: the wobble index**, Mark Buller1

0725-0745 - **Oximetry in a headband: acute hypoxia monitoring**, Lauren Cantley2

0745-0805 - **Multimaterial functional fibers: acoustic detection of cardiorespiratory signals**, Yoel Fink3

0805-0815 – Discussion, co-chair Karl Friedl

0815-0835 BREAK

0835-0855 - **Metabolic fuel sensing: MyRQ**, Gary Shaw2

0855-0915 - **Emotional status measurement in austere environments**, Kristin Heaton1

0915-0935 - **Neuropsychological status sensing for a virtual teammate**, Mohammad Soleymani4

0935-0950 – Wrap up and discussion, co-chair Reed Hoyt

1U.S. Army Research Institute of Environmental Medicine, Natick, Massachusetts

2Lincoln Laboratories/MIT, Lexington, Massachusetts

3Army Institute for Soldier Nanotechnologies/MIT, Boston, Massachusetts

4Army Institute of Creative Technologies/USC, Los Angeles, California