



AFFILIATED MEETING | SUNDAY, SEPTEMBER 22 | 8:00AM - 11:45AM | ROOM 111

SLEEP-CIRCADIAN INFORMATICS DATA HARMONIZATION

 **COST \$75.00**

PRESENTED BY THE SLEEP RESEARCH SOCIETY & SLEEP RESEARCH NETWORK

Summary

The goal of the workshop is to discuss sleep-circadian informatics and data harmonization with a view towards facilitating the expansion of existing cohorts and merging datasets to enhance international informatics data sharing and collaboration.

The sessions will be very interactive, with 4 Panel Leaders who will introduce the topic of discussion and frame the issues and then lead breakout groups.

Following the breakout there will be a brief presentation by each panel breakout leader, and then broader discussion which will include participants from all breakout groups.

Finally, the Panelists will present once more to the larger group, formulating consensus, and/or key observations of the critical next steps for their panel's topic of discussion.

Opening Speaker

Dr. Melissa Haendel is the Director of Translational Data Science, Linus Pauling Institute, Oregon State University, and PI of a grant from the National Center for Advancing Translational Sciences to establish a National Center for Data To Health (CD2H). Dr. Haendel's work focuses on developing data integration technologies and implementation of platforms and tools for translational research. Dr. Haendel will discuss translational informatics projects including work in the development of ontologies, and data sharing.

Panel Breakout 1

What are the most essential questions to include and how often should they be asked to be meaningful? What are some considerations for how to share the data? Are there tools, and support infrastructure that are necessary or that would be exceptionally helpful?

Panel Breakout 2

What are the minimum technical standards for data collection (sensitivity, sampling rate, writing to memory, battery capacity, etc).

Panel Breakout 3

What measures, and other data elements would be most critical to harmonize for polysomnography? Total sleep time, sleep onset latency, stages, efficiency, etc.

Panel Breakout 4

Discussion of infrastructure needs – beginning with the example of the National Sleep Research Resource (NSRR)—currently has 170 TB of PSG/actigraphy data available to share with the world wide sleep community.

Discussion of General Data Protection Regulation (GDPR) principles for world-wide data sharing, Digital Object Identifier systems (DOI), etc.

Chairs

Eilis Boudreau (United States); Janet Mullington (United States)

Presentation

8:00am – 8:10am

Introduction

Eilis Boudreau (United States)

8:10am – 8:50am

Translational informatics, development of ontologies, and data sharing

Melissa Haendel (United States)

8:50am – 8:55am

Introduction to Panel Objectives

Eilis Boudreau (United States)

8:55am – 9:00am

Panel Breakout 1: Questionnaires

Daniel J. Buysse (United States)

9:00am – 9:05am

Panel Breakout 2: Actigraphy

Till Roenneberg (Germany)

9:05am – 9:10am

Panel Breakout 3: PSG

Thomas Penzel (Germany)

9:10am – 9:15am

Panel Breakout 4: Infrastructure models and opportunities

Shaun Purcell (United States)

9:15am – 10:15am

Panel Breakout Sessions

10:15am – 10:30am

Break

10:30am – 11:30am

Panel Synopsis Presentations

Daniel J. Buysse (United States); Till Roenneberg (Germany); Thomas Penzel (Germany); Shaun Purcell (United States)

11:30am – 11:45am

Summary Statements



**SCIENTIFIC PROGRAM
NOW AVAILABLE**

To view the Scientific Program for World Sleep 2019, scan the code.

