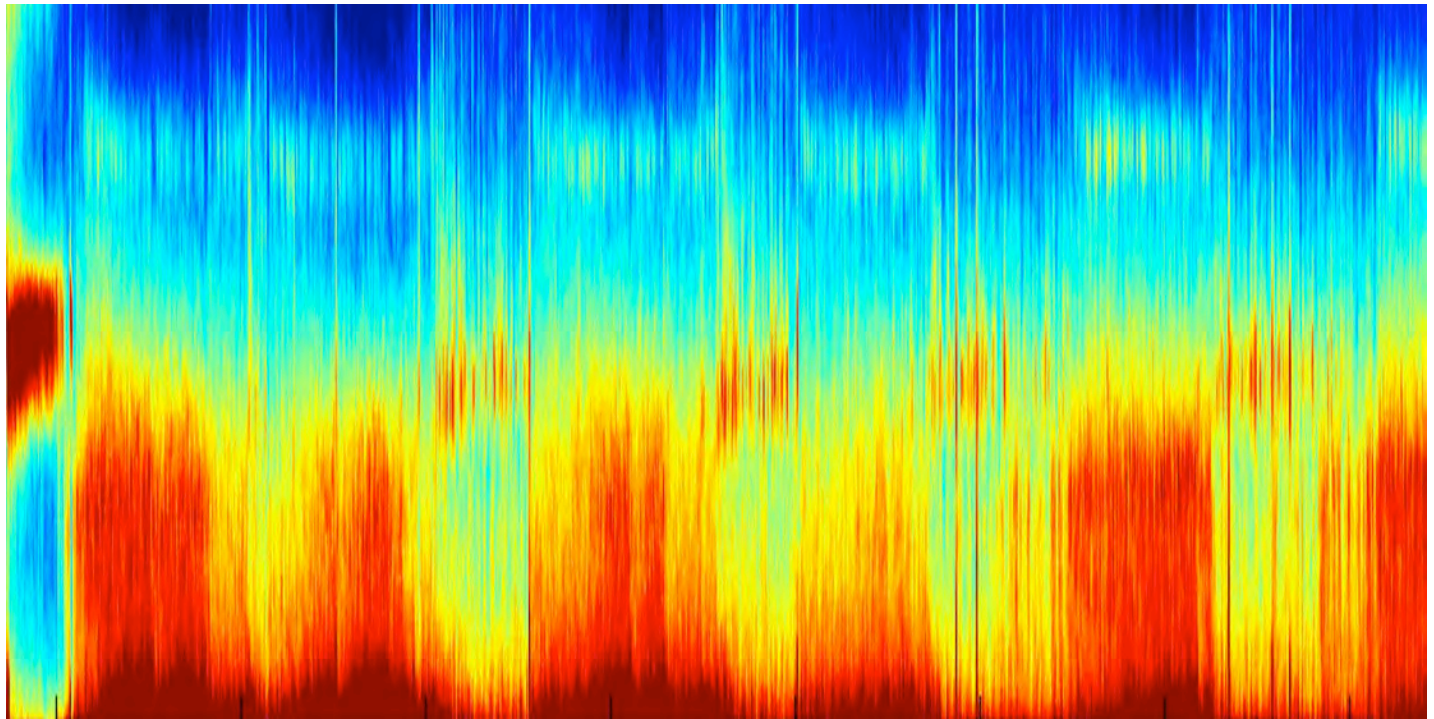


Tracking Brain Dynamics During Sleep



Dr. Michael Prerau
Harvard Medical School, MGH

Friday, September 16, 2016
3:00 pm, 107 Norman Smith



How can we tell when someone has fallen asleep, and how do we track what happens during sleep? Current clinical methods for characterizing the brain sleep are time-consuming, subjective, and simplify sleep in a way that severely limits the accuracy, power, and scope of any resulting clinical metrics. We describe new physiologically principled methods that dynamically combine information from brainwaves, muscle activity, and a novel minimally-disruptive behavioral task, to automatically create a continuous dynamic characterization of a person's state of wakefulness. By developing an automated tools to precisely track the dynamics of sleep, we can better characterize and diagnose sleep disorders, and more precisely measure the effect of sleep medications.

All are welcome! Refreshments served at 2:50 PM

For information : Dr. Kristy Townsend kristy.townsend@maine.edu; 1-2541

Sponsored by the School of Biology & Ecology as part of the 2016 Fall Seminar Series

If you are a person with a disability and need an accommodation to participate in this program, please call Trish Costello at 207-581-2540 to discuss your needs. Receiving requests for accommodations at least two days before the program provides a reasonable amount of time to meet the request, however all requests will be considered.

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