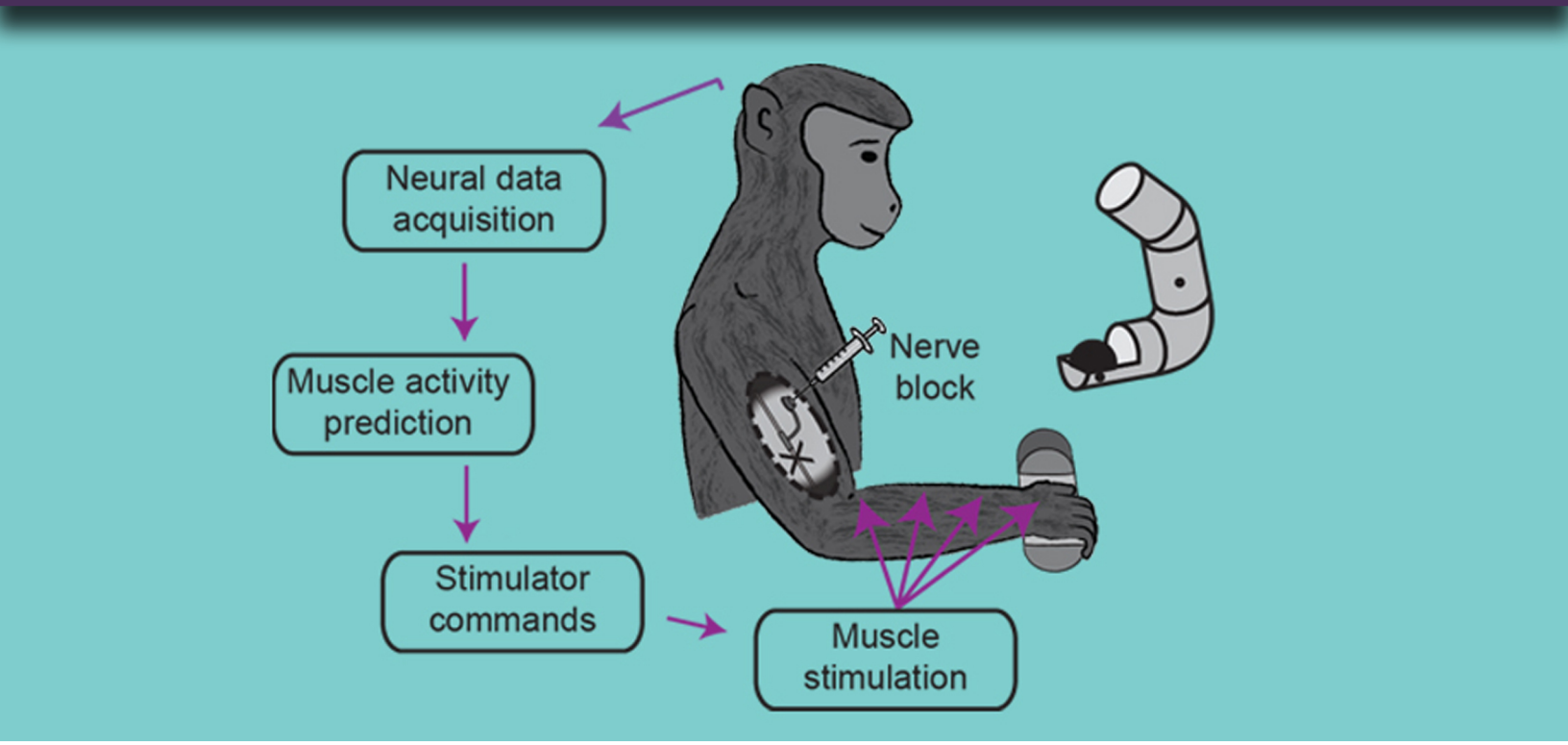
Northwestern SCIENCE CAFE

Awakening Paralyzed Limbs with a Brain Machine Interface

presented by Professor Lee E. Miller, Distinguished Professor of Neuroscience
Feinberg College of Medicine, Northwestern University
and President of the Society for the Neural Control of Movement



Wednesday
October 24, 2018
6:30 - 8:00pm

The Firehouse Grill
750 Chicago Avenue
Evanston

Spinal cord injury is devastating, and there is currently no real treatment. Ultimately, we'd want to regrow the spinal cord, but in the meantime, it is now possible to literally reconnect the brain and muscles electronically.

Professor Miller will describe experiments in which his lab is set up to eavesdrop directly on signals in a monkey's brain, translate them into appropriate control signals, and send them to an electrical stimulator that causes muscles to contract, thereby allowing voluntary control of paralyzed muscles. This "Brain Machine Interface" could be used to restore movement to patients with spinal cord injury.

Science Cafe: Eat. Drink. Talk research in a relaxed atmosphere.
We are committed to promoting engagement with scientific topics and making it accessible to all.