

# Tiny Brains at High Speed: The Neuroscience of Fly Flight

# APRIL 9

....Guest Speaker....

## Jessica Fox

Assistant Professor, Department of Biology, CWRU



Animal brains take in information from the environment, process it, and use it to make decisions in very short amounts of time. Flies, which move much faster than humans and fly in three dimensions, use their hindwings to sense their body's rotation, and then use this information to decide how to steer their wings as they flap them 200 times per second. This Science Café Cleveland features **Jessica Fox**, whose research lab studies how flies use their sensory systems to fly. They carefully record the flies' behavior while providing different sensory input, and they also record the activity of neurons in their brains. Their work shows how small groups of nerve cells can act together to generate flight, and provides ideas on new ways to pilot drones.

*Come early, get a good seat, grab a beverage and a bite to eat and enjoy this month's café!*

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**DISCUSSION IS**

**7:00 - 8:00 PM**

Doors open 5:30 – 9:00 PM

**WHERE:** Music Box Supper Club

LOCATED AT 1148 MAIN AVENUE, CLEVELAND, 44113



Science Café Cleveland is an informal public forum for the open discussion of current science issues. Join us the **second Monday of each month** at the Music Box Supper Club! SPONSORS: CWRU chapter of Sigma Xi, WCPN ideastream, Music Box Supper Club.

<http://www.case.edu/affil/sigmaxi/ScienceCafeCleveland.html>