

THE UNIVERSITY



OF HONG KONG

DEPARTMENT OF MECHANICAL ENGINEERING

SEMINAR

**Online**

**Title:** Understandings of Organic Electrochemical Transistors (OECTs) as Bridge of Neural Interface and Neuromorphic Systems

**Speaker:** Miss Yuyang YIN (PhD candidate)  
Department of Mechanical Engineering  
The University of Hong Kong  
Hong Kong

**Date:** 5 May, 2021 (Wednesday)

**Time:** 4:30 p.m. (Hong Kong Time)

**Zoom meeting:** 1) Link to join the meeting:

<https://hku.zoom.us/j/91630951409?pwd=eIVTUHF3ejFjdE5od1VLRHpNaGlxQT09>

2) Meeting ID: 916 3095 1409

3) Password: 403693

**Abstract:**

To realize the future brain-machine interfaces, amounts of efforts have been made to develop electronics that mainly work on two aspects: brain-activity detections and brain-function imitations. Organic electrochemical transistors (OECTs), as a member of organic electronics, are able to realize both functions of signal readout from the brain and mimicking neural systems, owing to its ionic-electronic mixing characteristic and outstanding signal amplification capability. This talk will introduce how OECTs play roles in the development of brain-machine interface, discuss the state-of-art achievements and major hindrances, and propose possible approaches to enhancing the capability of OECTs for brain-machine interactions from views of material and device understandings.

ALL INTERESTED ARE WELCOME

For further information, please contact Dr. P.K.L. Chan at 3917 2634.

**Research area: Advanced Materials**