

Joint Biomedical Engineering Seminar Series

MU ▪ MCW ▪ UWM

Friday, April 29, 2016

Noon-1pm

Olin 202

Marquette University

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Abstract

**Non-Invasive Diagnostics:
Identifying Volatile Organic Compounds Released from Individuals, Across Time**

Infertility, ranked as the 5th highest global disability, affects an estimated 34 million women worldwide. One out of ten women in the United States has a problem getting or staying pregnant. If accurately diagnosed, infertility is often treatable. Current diagnostic measures are all based on clinical assays, requiring serum or saliva samples to be collected at a clinic and further tested in specialized diagnostic laboratories. There is currently no way to monitor shifts in fertility, as an individual ages. To address the above gaps in infertility diagnostics, our research is designed to identify chemical signatures, from non-invasive samples, through the detection of volatile organic compounds. Our ongoing human research study is looking into the volatile expression of women across time. The aim of this work is identify natural metabolic shifts and hormone-related physiologic cues as they correlate with alterations in fertility levels.

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Olin Engineering Center is located at 1515 W. Wisconsin Ave, Milwaukee, WI. Parking is available in Structure 1 on 16th Street between Wisconsin Ave. and Wells Ave. Refreshments will be served.