

# *UMW Colloquium Announcement*

*The Department of Mathematics presents*

## **The Mathematics of Disease Transmission (and Eradication) - The Case of Malaria**

by

**Dr. Miranda Teboh Ewungkem**

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**Wednesday, February 15, 2023 at 4:00 p.m.**

**James Farmer 140**

**Abstract:**

The spread of disease meets mathematics in an exciting interplay of dynamics. In the case of malaria, a successful parasite transmission requires two sequentially distinct successful feeding episodes by a susceptible female mosquito, namely an infected human and a susceptible human. The synergistic interaction between humans, parasites and female mosquitoes allows the transmission cycle to be completed.

In this talk, Dr. Teboh-Ewungkem discusses how mathematics helps our understanding of the process, and the complexities resulting in a successful disease transmission. She highlights the ongoing impact of students and scholars on this important question at the intersection of mathematics and biology.

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