

# PhD Dissertation Defense

Join Us in Supporting a Chemical  
Engineering Graduate Student,

**WILLIAM DOHERTY**

**Advisor: Dr. Ryan Koppes**

as they present their research:

**STIMULATING EXCITABLE CELLS WITH OPTOSOMES:  
DEVELOPMENT OF A NON-VIRAL CELL DERIVED VESICLE  
CAPABLE OF STIMULATING EXCITABLE CELLS IN  
RESPONSE TO LIGHT STIMULUS**



**MONDAY, JULY 21, 2025**



**2.00 PM - 4.00 PM**



**SHILLMAN 420**



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