

Meeting led by: Cristian J. Aviles-Martin
Title: Bridge to Doctorate Meeting
Date: March 19th, 2018

Research update:

Externally triggered assembly of vesicle-templated polymer nanocapsules at mild conditions

Applications of research

- Catalysis
 - Enzymatic processes
- Drug delivery
- Sensors
 - Small nanoparticles in sensors that react with different wavelengths of light

Goal: develop UV free, room temperature, standard pressure synthesis for vesicle-templated nanocapsules

Results:

APS condition

Good yield, but vesicles are splitting → are approximately half of what filter selects for

APS + TEMED condition

Capsules way too small

APS + Bisulfite condition

Capsules around the same size as the pore

Future:

Reaction optimization
Experimenting with no extrusion
Need SEM data

Schools visits updates?

Aida is still waiting on a response via email

Fellowship information

<https://grad.engr.uconn.edu/scholarships-fellowships/>

Internship opportunity

Flagship pioneering promotions:

Date: March 20th, 2018

Time: 5-6 pm