



JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING

Materials Science and Engineering

Seminar Series

Stephen Fried

JHU Department of Chemistry



Loopable Translation and Cotranslational Secretion as Enabling Tools for the Design and Creation of Novel Biomaterials

Our lab is focusing on developing two platforms geared toward making fibrous protein production more facile and more designable. The first is a loopable translator, which is capable of generating long and repetitive protein sequences from a short RNA template that is auto-catalytically circularized. The second is an engineered secretion system on *Bacillus*, which we have shown can facilitate protein assembly. During this talk, I will describe our efforts to develop these two technologies and share our vision for how we think they can be combined to enable the scalable and sustainable production of designer protein biomaterials.

For Zoom Info,
email dmse@jhu.edu

**Wednesday
September 29
@ 2:30 p.m.**
Mudd Hall, Room 26