

Physics and Astronomy Seminar Series

Learning to SURF: Researching the Modelling of Phase Transforming Cellular Material (PXCM)

Presented By
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3:00 pm
Hagen Hall
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Phase transforming cellular materials (PXCMs) are a new class of materials that can go through large deformation and return to their original configuration. Currently, there are reliable cellular materials that can resist large deformation, for example, a honey comb; however, when these materials are compared to PXCMs, they cannot stay flexible. The biggest advantage about PXCMs is that they are not only inexpensive materials, but they are also highly-durable and they absorb and dissipate high amounts of energy. I will talk about technical challenges and opportunities as well as applications like car bumpers, football helmets and earthquake resistant buildings.

How do you get paid to do research? I will share my whole entire journey of finding, applying and being selected as a Summer Undergraduate Research Fellowship student (SURF). I also have some resources that I can connect most people to as well and encourage students both international students and domestic to apply for REU's and summer programs.