

SEMINAR - SCHOOL OF MECHANICAL ENGINEERING

MODELING ORIGAMI METAMATERIALS

A Mechanics of Structure Genome Approach

Origami enables the transformation of flat sheets into complex three-dimensional structures with highly tunable mechanical properties, giving rise to architected metamaterials governed primarily by geometry rather than constituent materials. In this talk, Prof. Yu will present a novel modeling approach for origami metamaterials based on the Mechanics of Structure Genome (MSG). The results demonstrate that MSG achieves high fidelity while significantly reducing computational cost.

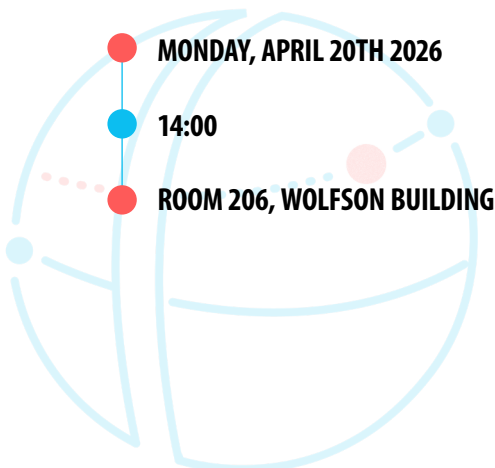


SPEAKER

Prof. Wenbin Yu

Milton Clauser Professor of Aeronautics and Astronautics, Purdue University

Prof. Yu's research focuses on multiscale modeling of anisotropic and heterogeneous materials and structures. He has authored over 140 journal papers and one book. He is a Fellow of ASME and ASC, and Associate Fellow of AIAA.



- The seminar will be delivered in English
- The seminar is open to the public
- Academic Host: [Dr. Igor Berinskii](#)

Scan for the full abstract and speaker bio

